universität wien

MASTERARBEIT / MASTER'S THESIS

Titel der Masterarbeit / Title of the Master's Thesis

„Low standards, non-transparent reporting, and bias perpetuate the Mozart effect myth: A multiverse meta-analysis“

verfasst von / submitted by

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angestrebter akademischer Grad / in partial fulfilment of the requirements for the degree of

Master of Science (MSc)

Wien, 2022 / Vienna 2022

Studienkennzahl lt. Studienblatt / degree programme code as it appears on the student record sheet:	UA 066 840
Studienrichtung lt. Studienblatt / degree programme as it appears on the student record sheet:	Masterstudium Psychologie UG2002
Betreut von / Supervisor:	Ass.-Prof. Mag. Dr. Jakob Pietschnig, Privatdoz.

Danksagung

Der größte Dank gilt meinem Betreuer Ass.-Prof. Mag. Dr. Jakob Pietschnig. Es ist eine große Ehre für mich, deine Arbeit zum Mozart-Effekt in einer gewissen Art und Weise fortzuführen. Danke für dein Vertrauen, deine Zeit und Geduld sowie die unzähligen anregenden Diskussionen, die wir in den letzten Monaten geführt haben. Deine unermüdliche Unterstützung und deine Sicht auf die Wissenschaft an sich haben nicht nur maßgeblich zum Erfolg dieser Arbeit beigetragen, sondern auch zu meiner Motivation, nach meinem Studienabschluss weiter in diesem Feld zu arbeiten.

Von ganzem Herzen danke ich auch euch, Mama und Papa. Seitdem ich denken kann unterstützt ihr mich bei allem, was ich mir in den Kopf setze und versucht alles, um mir meine Wünsche und Träume zu erfüllen. Ohne euch wäre das hier wohl alles gar nicht möglich. Danke, dass ihr immer hinter mir steht und ich mich bedingungslos auf euch verlassen kann.

Vor allem danke ich auch dir, Fabian. Bei all meinen Vorhaben bist du mir in den letzten Jahren immer zur Seite gestanden, hast mich motiviert, dich immer mit mir gefreut und mich aufgefangen, wenn es mal nicht mehr ging. Du hast immer an mich geglaubt und mir den Rücken freigehalten damit ich meine Ziele verwirklichen kann. Letztlich ist deine besondere Fähigkeit, komplexe Problemstellungen zu lösen nicht nur beeindruckend, sondern auch wahnsinnig inspirierend. Danke.

Ein besonderer Dank gilt dir, Benedikt. Schlussendlich warst du es, der mich zur differentiellen Psychologie gebracht hat und wodurch der Wunsch nach einer akademischen Laufbahn greifbarer wurde. Danke für deine Unterstützung. Deine Freundschaft empfinde ich als sehr bereichernd und ich schätze es ungemein, die Leidenschaft für die Wissenschaft mit dir zu teilen.

Danke an meine Freund*innen, insbesondere Lea und Florence. Ihr habt mich in den letzten Monaten immer wieder ermutigt und bestärkt, mir zugehört und mich unterstützt. Danke, dass ihr hier seid und ich Erfolge mit euch teilen darf. Das ist unglaublich schön.

In liebevoller Erinnerung an Max.

Abstract

In recent years, the Mozart effect has attracted extensive media and scientific attention in the context of epilepsy and other medically relevant conditions. It has been said, that the exposure to the first movement “allegro con spirito” of the Mozart sonata for two pianos in D major (KV448) would remarkably relive epileptic symptoms (e.g., seizure frequencies, interictal epileptiform discharges) and was proposed to supplement or replace drug treatment. The present paper represents an extensive review and meta-analysis on this topic, providing evidence for potential influences of dissemination biases and the adequacy of the evidential value. It was shown that the overall effect sizes are small in size (*g* range: 0.16 to 0.43) and statistically not significant (*p* range: .13 to .52), which, in the context of meta-analysis, indicates substantially underpowered primary studies. Moderator-, and multiverse-analyses as well as a series of publication bias detection methods indicate that a positive effect of the KV448 on epilepsy and other medically relevant conditions is not reproducible. Insufficient documentation of replication attempts and selective publication of seemingly successful but strikingly inadequately designed and underpowered ones can thus lead to unfounded assumption of a salient effect.

Keywords: Mozart effect, epilepsy, diseases, meta-analysis, multiverse-analysis, reproducibility.

Introduction

Over the past three decades, the Mozart effect has generated a lot of attention both in the scientific community and in popular media. The topic was introduced in the context of spatial task performance (Rauscher et al., 1993), which supposedly improved after subjects were exposed to the first movement "allegro con spirito" of Mozart's sonata KV448. This phenomenon was received with considerable skepticism in the scientific community and ultimately demonstrated to be a consequence of low study power and bias-related measurement artifacts (Pietschnig et al., 2010). However, claims about long-lasting intelligence-enhancing effects, especially in children, have popularized the Mozart effect in the public and given rise to an industry that sells customized selections of supposedly cognitive performance-enhancing classical music (e.g., Campbell, 2002). Up to this day, public interest in the Mozart effect and the supposed positive effect of Mozart's music on intelligence persists.

Perhaps as a consequence of this public interest, effects of listening to Mozart's music have been investigated in regard to other outcomes, with potentially symptom-alleviating effects in epilepsy being among the most frequently cited and generating considerable attention in public outlets (e.g., Cooney, 2021). Originally introduced in the late 1990s with some results suggesting that listening to KV448 leads to an acute decrease in both ictal and interictal epileptiform activity (Hughes et al., 1998), at least two studies successfully replicated this effect (Bodner et al., 2012; D'Alessandro et al., 2017).

A Mozart effect for epilepsy would be desirable because antiepileptic drugs often cause severe side effects and may have a negative impact on organ function, fertility, or blood counts (Donat, 2010); 30% of those affected, drug therapies are ineffective (Sesso & Sicca, 2020). In this vein, KV448 was suggested to be used to supplement or replace drug treatment when medication or surgery were ineffective or would not be accepted (Brackney & Brooks, 2018) because patients listening to KV448 were reported to experience fewer epileptic seizures and epileptic discharges compared to patients who wait in silence or listen to other music, whilst, e.g., *Haydn's Symphony No. 94* was even reported to be pro-epileptic (Maguire, 2022). Other studies contrasted these findings indicating no specific beneficial effect of KV448 on epilepsy (e.g., Coppola et al., 2017).

Two meta-analytic reviews are available to date which demonstrated positive effects of KV448 on epilepsy. However, they either included almost exclusively data from the same group of researchers (Brackney & Brooks, 2018) or used mere vote counting which does not

allow an evaluation of effect strength, bias, or meaningfulness (Sesso & Sicca, 2020), thus raising concerns about the validity of their conclusions.

Here, I present a systematic review and meta-analysis of KV448 effects on epilepsy and related medical conditions. Moreover, I provide evidence for potential influences of (i) dissemination biases, (ii) the adequacy of the evidential value as well as (iii) different ways about which data were analyzed and how this has been done by means of multiverse analyses.

Methods

The present study was preregistered prior to accessing the data. The preregistration protocol is available at the Open Science Framework (OSF; https://osf.io/sfvq5/), whereas any deviations from the preregistrations are documented in Appendix B. PRISMA checklist can be obtained from Table S1, see Appendix C. Primary study quality was assessed with the Newcastle-Ottawa Scale (NOS; Herzog et al., 2013), which is available in Appendix D, Table S2.

Literature search

I searched six databases for published studies (Google Scholar, PubMed, Scopus, ISI Web of Science, PsycInfo, PubPsych) and the Open Access Dissertation and Theses database to obtain grey literature (https://oatd.org). First, I used the following search string to identify relevant literature: ("mozart effect" AND epil*) OR ("mozart effect" AND brain) OR ("mozart effect" AND disease). Second, I screened the reference lists of studies that were eligible for inclusion in my synthesis for further potentially relevant hits. Finally, I conducted a cited reference search for the initial study that had been published on the Mozart effect (Rauscher et al., 1993) as well as the so far largest meta-analysis on this topic (Pietschnig et al., 2010). Non-English or -German titles, abstracts, and full texts were translated with the online translator DeepL (https://deepl.com/translator). Titles and abstracts of 1,573 potentially relevant articles were screened and subsequently full-texts of 64 studies were obtained (for a flowchart see Figure 1; references of excluded records according to exclusion reasons can be obtained of Appendix H). Literature search and screening were originally conducted from June to July 2022 and updated in October 2022.

Inclusion criteria

To be eligible for inclusion in the present meta-analysis, studies had to meet three inclusion criteria. First, they had to assess the effects of Mozart's sonata KV448, a musical stimulus, a non-musical stimulus (e.g., short story), or silence on a medically relevant condition (i.e., ICD-11 group-F-only conditions such as depression were not considered). Second, studies had to provide an appropriate measure for the symptoms of the respective medical condition, such as the number of epileptiform seizures experienced or interictal epileptiform discharges (IED) in case of epilepsy. Third, effect sizes or sufficient statistical information to calculate them needed to be available.

Coding

I conducted the coding of the studies twice, independently. Coding inconsistencies were discussed with an independent researcher [J.P.]. The following information were coded for individual studies: (i) study characteristics (publication status: published vs. unpublished; publication year; manuscript type: journal article vs. thesis; peer-reviewed: yes vs. no; funding: not reported vs. yes vs. no;), (ii) country of data collection, (iii) sample descriptors (sample size, mean age, sample type, percentage of men within sample), (iv) epilepsy or physical disease measurement (type of disease: epilepsy vs. other; seizure type: generalized and focal vs. other vs. mixed; type of control stimulus: other classical vs. non classical / scrambled; duration of exposure;), and (vi) statistical parameters (pre- and posttest means, standard deviations, effect sizes, *p*-values, reliabilities of dependent variables). In case of missing information, the primary studies' corresponding authors were contacted and reminders were sent after two and four weeks if no response had been received. If data were unavailable or the corresponding authors did not reply, the respective study was excluded from analyses. The coding file with all available study information can be found on the OSF (https://osf.io/t5wyb).

Data Analysis

Prior to all analyses, Hedges *g*s were calculated for group differences (Cooper et al., 2019). Data were synthesized according to (i) the different stimuli the experimental groups were exposed to and (ii) the study design that was applied. Three independent meta-analyses were conducted: First, I meta-analyzed primary studies that compared effects of listening to KV448 vs. silence in independent-groups pretest-posttest designs (henceforth: *independent MO-condition*; $k = 3$ study effects). Second, I once more meta-analyzed KV448 vs. silence studies but synthesized studies that used one-group pretest-posttest designs (henceforth: *dependent MO-condition*; $k = 5$ study effects). Third, I synthesized effects of listening to any other music vs. no stimulus at all in one-group pretest-posttest designs (*OM-condition*; $k = 6$ study effects).

If there is indeed a salient specific Mozart effect, a meaningful significant effect should be observable in both MO-conditions, but not in the OM-condition.

Effect sizes of the samples are weighted by study precision (i.e., assigning higher weights to more precise studies according to the inverse standard errors of effect sizes) and synthesized in random-effects models. Potential effects of leverage points were assessed by means of leave-one-out analyses.

Heterogeneity was interpreted according to I^2 values (25%, 50%, and 75% representing the lower thresholds of small, moderate, and large heterogeneity; Higgins et al., 2003) and prediction intervals (Borenstein, 2021).

A series of subgroup analyses were conducted to assess potential influences of categorical moderator variables (see Table 1). Potential influences of continuous moderators were examined by means of linear-precision-weighted meta-regressions (for an overview, see Table 1; within-subgroup summary effect estimates and meta-regression effects are only provided if $k > 1$a and > 2, respectively).

To detect potential influences of confounding dissemination bias, I used different bias detection approaches (in all 10; see technical supplementary material available in Appendix F) following current recommendations from the literature (Siegel et al., 2022) to account for the different strengths and weaknesses of individual approaches. Only published studies were included in our publication bias analysis.

Because there are different (reasonable) ways of which studies to include and how to synthesize them in a meta-analysis, all of which may affect the results and interpretation of the outcomes (Voracek et al., 2019), multiverse analyses to account for potential differences according to different specifications were performed.

I used specification curve analyses to assess the effect of different reasonable combinations of which data to analyze and how to do this (so-called *which* and *how factors;* (see https://osf.io/nkv46/ for the R Code from Voracek et al., 2019). In this approach, it is assumed that all specifications that are based on the combination of any levels of different conceptually plausible moderators may be assumed to be equally reasonable (in other words: all summary effects are equally likely to reflect reality most accurately). Specification-relevant variables are presented in Table 1.

However, it could be argued that certain reasonable specifications may remain undetected by specification curve analyses, because not all reasonable specifications may be known. Therefore, I used combinatorial meta-analyses to assess potential systematic influences of any combination on effect syntheses (Olkin et al., 2012). Typically, due to the astronomical number of possible (unreasonable) combinations in a given meta-analysis, a sample of 100,000 ways to calculate summary effects is drawn from the data at random and resulting effect size patterns are visually inspected and distributional characteristics are interpreted. However, due to the low number of available data points in the present analyses, I was able to provide here an exhaustive analysis of all possible combinations. By calculating summary effects for $2^k - 1$ possible subsets of the available data, I obtained (i) $2^3 - 1 = 7$

combinations for the independent MO-condition, (ii) $2^6 - 1 = 63$ combinations for the dependent MO-condition, and (iii) $2^5 - 1 = 31$ combinations for the OM-condition.

All analyses were performed by means of the open-source software R (R Core Team, 2022), the online app MetaShine (Siegel et al., 2021), and the *p*-curve app (Simonsohn et al., 2015). Analysis-code is provided in Appendix G.

Figure 1. *Flow-chart of study inclusion.*

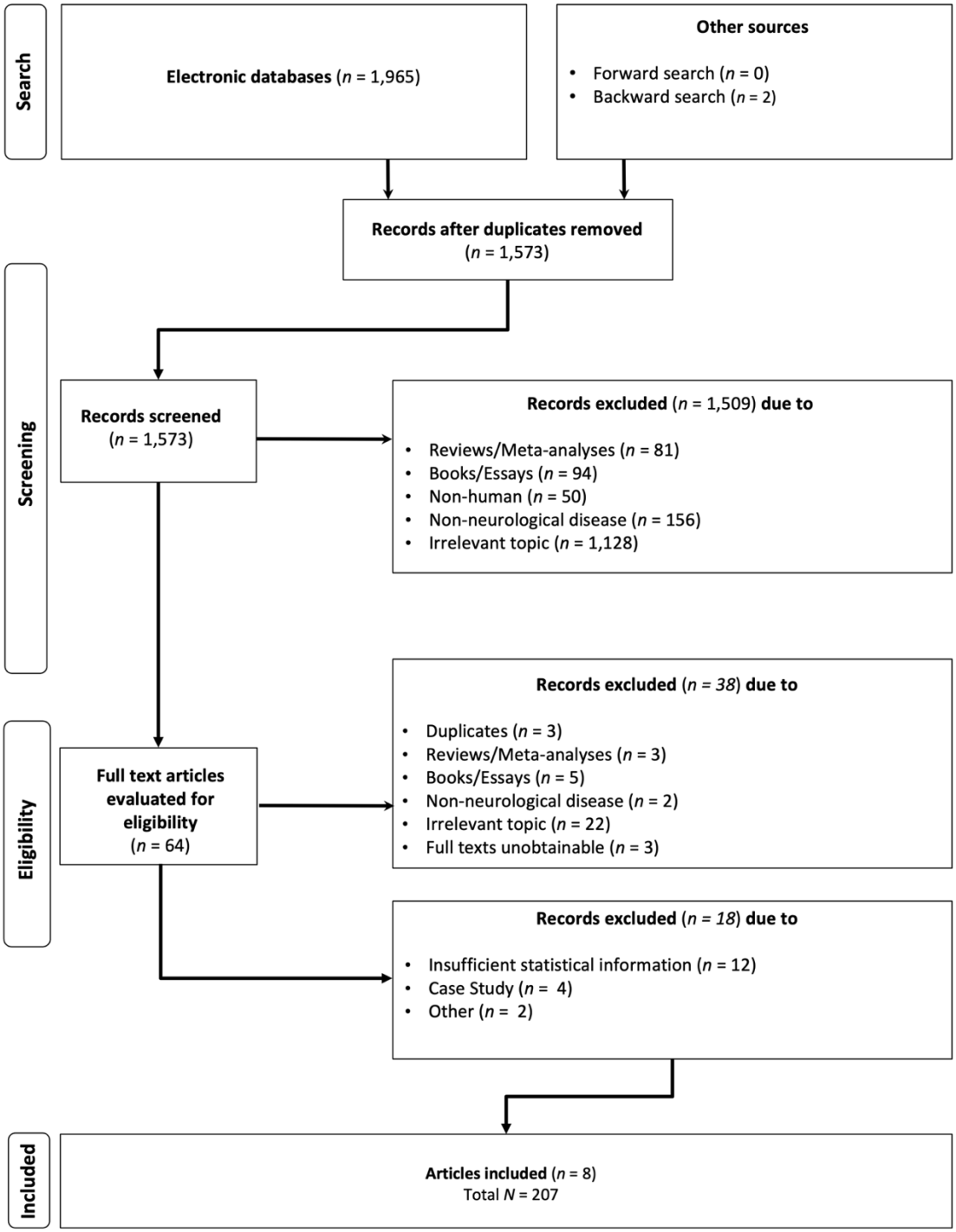


Table 1. *Moderator and specification-relevant variables for three independent meta-analyses.*

Independent MO-condition	Dependent MO-condition	OM-condition
	categorical moderators	
-	measurement method (seizure frequency vs. IED-EEG)	measurement method (seizure frequency vs. IED-EEG)
-	funding (not reported / no vs. yes)	funding (not reported / no vs. yes)
-	sample type (adults vs. mixed)	sample type (adults vs. children)
-	seizure type (generalized and focal vs. not reported/mixed)	type of control music (other classical vs. non-classical / scrambled)
	continuous moderators	
publication year	publication year	publication year
age	age	age
percentage of men in samples	percentage of men in samples	percentage of men in samples
duration of exposure	duration of exposure	duration of exposure
	specifications – *which* factors	
type of disease (epilepsy vs. other vs. either)	seizure type (generalized and focal vs. other vs. mixed vs. either)	seizure type (mixed vs. other vs. either)
measurement method (other than EEG vs. either)	measurement method (IED-EEG vs. seizure frequency vs. either)	measurement method (IED-EEG vs. other vs. either)
exposure (more than once vs. once vs. either)	sample type (adults vs. mixed vs. either)	exposure (more than once vs. either)
sample type (children vs. adults vs. either)	funding (yes vs. not reported vs. either)	sample type (children vs. adults vs. either)
funding (not reported vs. yes vs. no vs. either)		funding (yes vs. no vs. either)
		type of control music (other classical vs. scrambled vs. either)
	specifications – *how* factors	
effect size metric (Hedges *g* vs. Cohen *d*)	effect size metric (Hedges *g* vs. Cohen *d*)	effect size metric (Hedges *g* vs. Cohen *d*)
meta-analytic approach (HO vs. HS vs. FE)	meta-analytic approach (HO vs. HS vs. FE)	meta-analytic approach (HO vs. HS vs. FE)

Note. IED-EEG = interictal epileptic discharges measured with an electroencephalogram; scrambled = phase-scrambled version of KV448 representing a control piece with noise but no rhythmicity (Rafiee et al., 2020); HO = Hedges and Olkin-typed random-effects estimation (REML); HS = Hunter-Schmidt effect estimation; FE = fixed-effect model.

Results

Final sample

I identified 26 studies that conformed to my conclusion criteria. Six studies provided sufficient statistical information to calculate a summary effect size (D`Alessandro et al., 2017; Grylls et al., 2018; Paprad et al., 2020; Rafiee et al., 2020, Stillova et al., 2021; Vibrasiute, 2017). From the remaining 20 studies I had to exclude six because they represented single case reports, whose data cannot be formally meta-analyzed (see Table S3, Appendix E). Another study was excluded because no contact information for any of the authors was available (Hughes et al., 1998). I contacted all corresponding authors (k = 7) of the remaining 13 studies: Two authors provided sufficient summary data upon request for three studies (one of which had to be excluded due to being the only study in our entire analysis that compared KV448 to other music; Coppola et al., 2017) in personal communication (Bergomi et al., 2014; Coppola et al., 2015). One author indicated that data from six published studies were unavailable and further four corresponding authors did not respond at all (for an overview, see Table S3).

Consequently, I could formally meta-analyze data of k = 8 (totaling N = 207 participants) studies, which assessed the Mozart effect and its relation to either epilepsy (k = 5), stroke (k = 1), or other-reported premature infant pain (k = 1). Studies observed patients' seizure frequency (k = 3), evaluated interictal epileptic discharges by means of an electroencephalogram (IED-EEG; k = 3), or used other methods to measure changes in the respective symptomatology (k = 2). Study characteristics are detailed in Table 2.

Of the includable studies, k = 3 used two-group randomized controlled designs (RCT). Only one study investigated RCT-based effects on epilepsy, whilst the other two remaining RTC's investigated effects on other medically relevant conditions. Another four studies used two-group pre-post mirror- (k = 2) or one-group pre-post counterbalanced (k = 2) designs but did not control for potential carry-over effects by means of washout periods, i.e., between treatment and control condition, no time frame was allotted to eliminate potential effects of KV448. Carry-over effects would invalidate the respective studies. One further study used a one-group pretest-posttest design.

Table 2. *Study characteristics of included studies.*

Reference	*N*	Type	Medical condition	Measure	Condition	Study Design	Journal	ES (*SE*)	Data availability
Bergomi et al. (2014)	70	Children	Other-reported pain in premature infants	Premature infant pain profile (PIPP)	Independent MO	Randomized controlled	Research and Theory for Nursing Practice	g = 1.655 (0.27)[b]	Summary data provided upon request.
Coppola et al. (2015)	11	Children	Epilepsy	Observation - seizure frequency	Dependent MO	One-group pretest-posttest	Epilepsy & Behavior	g = 0.743 (0.26)	Summary data provided upon request.
D'Alessandro et al. (2017)	12	Mixed	Epilepsy	Observation - seizure frequency	Dependent MO	Mirror-design (no washout)[a]	Psychiatria Danubina	$g1$ = 0.083 (0.34)[c] $g2$ = 0.197 (0.35)	Summary data available in paper.
Grylls et al. (2018)	45	Children	Epilepsy	EEG - interictal epileptiform discharges	Dependent MO; OM	One-group counterbalanced (no washout)	Seizure	g (MO-NM) = 0.045 (0.15) g (OM-NM) = -0.03 (0.14)[c]	Summary data available in paper.
Paprad et al. (2020)	26	Children	Epilepsy	EEG - interictal epileptiform discharges	Independent MO	Randomized controlled	Epilepsy & Behavior	g = 0.096 (0.38)[a]	Summary data available in paper.
Rafiee et al. (2020)	11	Adults	Epilepsy	Observation - seizure frequency	Dependent MO; OM	Mirror-design (no washout)	Epilepsia Open	$g1$(MO-NM) = 1.04 (0.48) $g2$(MO-NM) = 0.06 (0.34)[c] $g1$(OM-NM) = 0.36 (0.38)[c] $g2$(OM-NM) = -0.13 (0.35)	Primary data available in paper.
Stillova et al. (2021)	18	Adults	Epilepsy	EEG - interictal epileptiform discharges	Dependent MO; OM	One-group counterbalanced (no washout)	European Journal of Neurology	g (MO-NM) = 0.30 (0.23)[b] g (OM-NM) = -0.21 (0.23)[b, c]	Summary data available in paper.
Vibrasiute (2017)	14	Adults	Stroke	Systolic blood pressure	Independent MO	Randomized controlled	Unpublished (bachelor's thesis)	g = -0.610 (0.52)	Primary data available in thesis.

Note. N = sample size; ES = Effect size; *SE* = standard error; positive signs indicate a beneficial effect of KV448 (MO) or other music (OM) compared to no music at all; [a] = formally, this had to be declared to be an RCT, but because no washout period was used, the study was assumed to be mirror designed in this analysis; [b] = mean and standard deviation for calculating effect sizes are based on median and interquartile ranges according to the approach of Shi et al. (2020) and Luo et al. (2018); [c] = outcomes may be overestimates due to carry-over effects.

Main analyses

I obtained three independent random-effects analyses for each condition (see Figure 2; Table 3). First, the independent MO-condition yielded a non-significant summary effect of g = 0.43 (p = .52, 95% CI [-0.89, 1.76], k = 3), showing no beneficial effects of KV448 compared to other stimuli. Second, the dependent MO-condition yielded a non-significant summary effect of g = 0.16 (p = .13, 95% CI [-0.04, 0.36], k = 6). This conforms to the above finding of no beneficial influence of KV448 on medically relevant outcomes. Finally, the OM-condition yielded a non-significant summary effect of g = 0.09 (p = .58, 95% CI [-0.23, 0.40], k = 5), showing no benefit of listening to any vs. no stimuli in terms of medically relevant outcomes.

Sensitivity (i.e., leave-one-out) analyses did not show substantial evidence for summary effect size changes (see Table 3). However, regarding the independent MO-condition, excluding the study measuring other-reported pain in premature infants (Bergomi et al., 2014), the summary effect of KV448 on medically relevant conditions appears to become negative (g = -0.17, 95% CI [-0.84, 0.50).

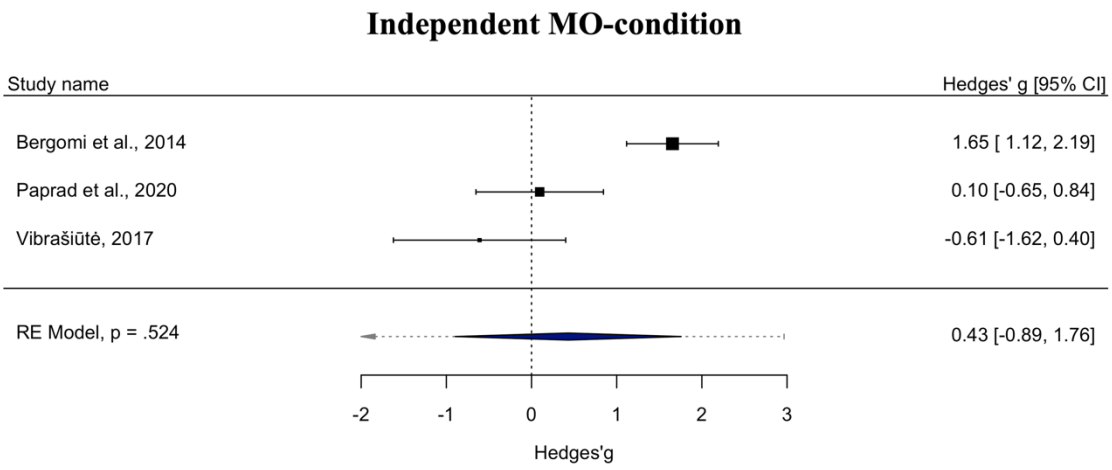
Moderator analyses

No nominally statistical significant group differences were identified in any of our analyses, most likely owing to the low power of the available data. Overall and within-subgroup summary effects are provided in Table 3.

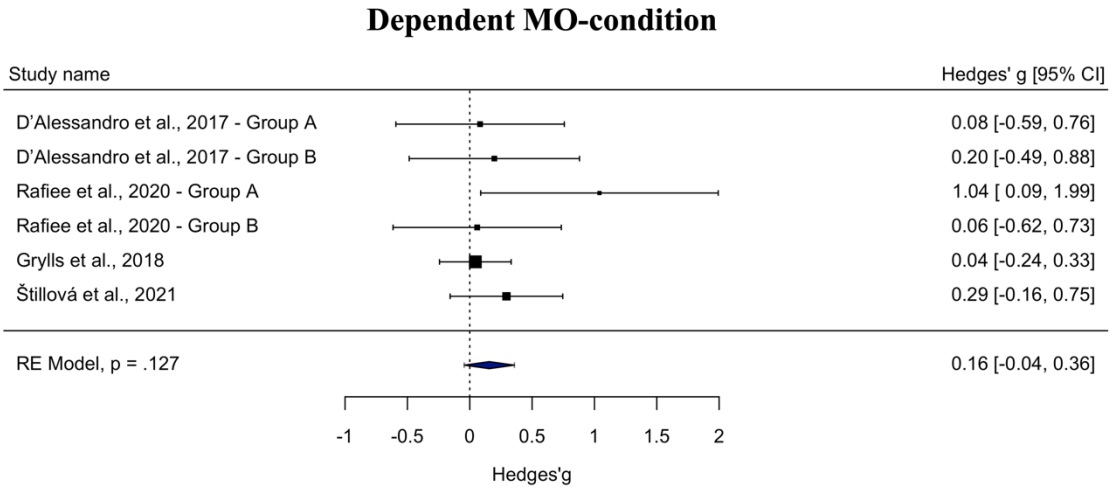
Continuous moderator effects were examined by means of linear precision-weighted meta-regressions but did not yield any meaningful influences (see Table 5 for numerical outcomes).

Figure 2. *Forest plots for three independent meta-analyses.*

A



B



C

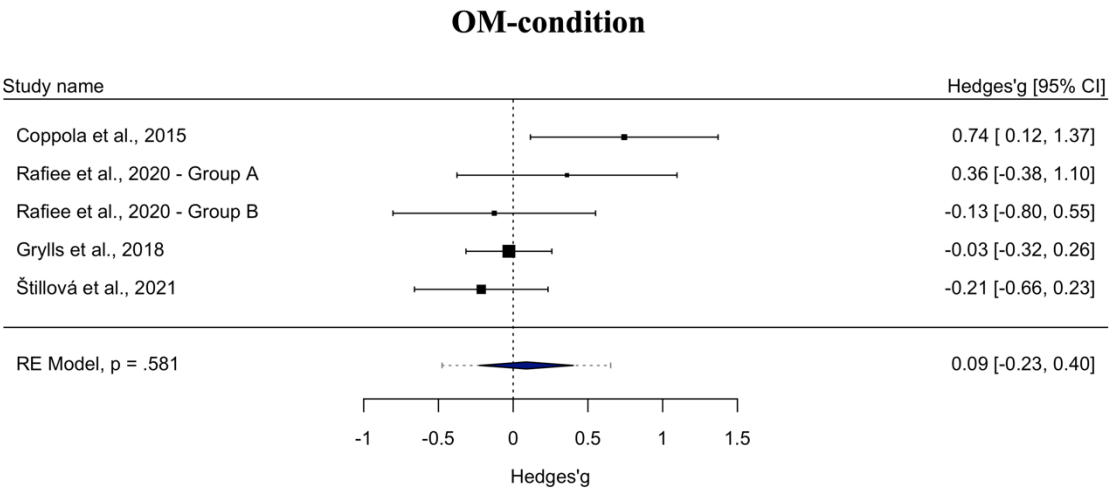


Table 3. *Summary effects for overall and subgroup analyses.*

	Summary effect	*SE*	*p*-value	95% CI	*Q*	τ^2 (*SE*)	I^2
			Independent MO-condition				
Overall (*k* = 3)	*g* = 0.431	0.676	.524	[-0.89, 1.76]	20.485***	1.214 (1.374)	89.44%
			Dependent MO-condition				
Overall (*k* = 6)	*g* = 0.158	0.103	.127	[-0.45, 0.35]	4.384	< 0.001 (0.040)	< 0.001%
Measurement method							
Seizure frecquency (observation; *k* = 4)	*g* = 0.246	0.185	.182	[-0.12, 0.60]	3.207	< 0.001 (0.111)	< 0.001%
IED (EEG; *k* = 2)	*g* = 0.117	0.124	.346	[-0.13, 0.36]	0.836	< 0.001 (0.053)	< 0.001%
Funding							
Not reported / no (*k* = 4)	*g* = 0.121	0.110	.272	[-0.10, 0.39]	0.897	< 0.001 (0.043)	< 0.001%
Yes (*k* = 2)	*g* = 0.490	0.487	.314	[-0.46, 1.44]	2.711	0.304 (0.680)	63.12%
Sample type							
Adults (*k* = 3)	*g* = 0.332	0.178	.063	[-0.02, 0.68]	2.777	< 0.001 (0.107)	< 0.001%
Mixed (*k* = 2)	*g* = 0.139	0.245	.057	[-0.34, 0.62]	0.054	< 0.001 (0.107)	< 0.001%
Seizure type							
Generalized and focal (*k* = 3)	*g* = 0.700	0.126	.580	[-0.18, 0.32]	0.165	< 0.001 (0.070)	< 0.001%
Not reported / mixed (*k* = 3)	*g* = 0.332	0.178	.063	[-0.18, 0.68]	2.777	< 0.001 (0.107)	< 0.001%
			OM-condition				
Overall (*k* = 5)	*g* = 0.088	0.160	.581	[-0.23, 0.40]	7.231	0.057 (0.090)	46.44%
Measurement method							
Seizure frecquency (observation; *k* = 3)	*g* = 0.337	0.262	.199	[-0.18, 0.85]	3.406	0.087 (0.207)	41.99%
IED (EEG; *k* = 2)	*g* = -0.083	0.123	.503	[-0.32, 0.15]	0.466	< 0.001 (0.052)	< 0.001%
Funding							
Not reported / no (*k* = 3)	*g* = 0.115	0.257	.664	[-0.39, 0.62]	6.255*	0.145 (0.200)	74.72%
Yes (*k* = 2)	*g* = 0.097	0.254	.704	[-0.40, 0.59]	0.909	< 0.001 (0.184)	< 0.001%
Sample type							
Adults (*k* = 3)	*g* = -0.075	0.170	.657	[-0.40, 0.26]	1.734	< 0.001 (0.094)	95.77%
Children (*k* = 2)	*g* = 0.305	0.382	.425	[-0.44, 1.05]	4.799*	0.236 (0.421)	79.16%
Type of control music							
Other classical (*k* = 2)	*g* = 0.238	0.477	.618	[-0.69, 1.17]	5.921**	0.380 (0.647)	83.11%
Non-classical / scrambled (*k* = 3)	*g* = 0.003	0.127	.983	[-0.24, 0.25]	1.091	< 0.001 (0.074)	< 0.001%

Note. IED = interictal epileptic discharges; EEG = electroencephalogram; *SE* = standard error; 95% CI = 95% lower and upper bound of 95% confidence interval; *Q* = Cochran's *Q* test statistic for heterogeneity; τ^2 = between-studies variance; I^2 = ratio between true heterogeneity and total observed variation; * p <.05; ** p <.01; ***p < .001.

Table 4. *Leave-one-out sensitivity analysis.*

Study name	Summary effect	*SE*	*p*-value	95% CI	*Q*	τ^2	I^2
Independent MO-condition (k = 3)							
Bergomi et al. (2014)	g = -0.171	0.342	.617	[-0.84, 0.50]	1.209	0.043	17.30%
Paprad et al. (2020)	g = 0.565	1.132	.618	[-1.65, 2.18]	15.003***	2.393	93.34%
Vibrasiute (2017)	g = 0.898	0.779	.249	[-0.63, 2.43]	10.986**	1.104	90.90%
Dependent MO-condition (k = 6)							
D'Alessandro et al. (2017) – Group A	g = 0.164	0.108	.128	[-0.05, 0.38]	4.334	< 0.001	0.01%
D'Alessandro et al. (2017) – Group B	g = 0.153	0.108	.155	[-0.06, 0.36]	4.370	< 0.001	0.01%
Rafiee et al. (2020) – Group A	g = 0.115	0.105	.272	[-0.09, 0.32]	0.926	< 0.001	< 0.001%
Rafiee et al. (2020) – Group B	g = 0.166	0.108	.122	[-0.04, 0.38]	4.297	< 0.001	0.01%
Grylls et al. (2018)	g = 0.265	0.144	.066	[-0.02, 0.55]	3.234	< 0.001	< 0.001%
Stillova et al. (2021)	g = 0.123	0.115	.285	[-0.10, 0.35]	3.940	< 0.001	< 0.001%
OM-condition (k = 5)							
Coppola et al. (2015)	g = -0.049	0.111	.662	[-0.26, 0.17]	1.778	< 0.001	< 0.001%
Rafiee et al. (2020) – Group A	g = 0.053	0.185	.773	[-0.30, 0.42]	6.425	0.074	56.11%
Rafiee et al. (2020) – Group B	g = 0.146	0.202	.470	[-0.25, 0.54]	6.987	0.096	61.65%
Grylls et al. (2018)	g = 0.161	0.234	.491	[-030, 0.62]	6.831	0.120	55.55%
Stillova et al. (2021)	g = 0.189	0.195	.332	[-0.19, 0.57]	5.709	0.072	47.98%

Note. SE = standard error; 95% CI = 95% lower and upper bound of 95% confidence interval; Q = Cochran's Q test statistic for heterogeneity; τ^2 = between-studies variance; I^2 = ratio between true heterogeneity and total observed variation; ** p <.01; ***p < .001.

Table 5. *Numeric outcomes of linear-precision-weighted meta-regressions*.

Predictor	*b (SE)*	R^2	*p*-value	95% CI	*Q*	τ (*SE*)	I^2
Independent MO-condition (*k* = 3)							
Publication year	-0.264 (0.276)	< 0.01%	.338	[-0.80, 0.28]	0.916	1.256 (2.080)	85.42%
Age	-0.023 (0.019)	23.73%	.220	[-0.06, 0.01]	1.508	0.926 (1.471)	89.07%
Percentage of men in samples	0.074 (0.019)	97.08%	<.001	[0.04, 0.11]	14.867***	0.035 (0.260)	19.27%
Duration of exposure	0.002 (0.003)	< 0.01%	.543	[-0.01, 0.01]	0.371	1.814 (2.849)	90.01%
Dependent MO-condition (*k* = 6)							
Publication year	0.072 (0.072)	< 0.01%	.316	[-0.07, 0.21]	1.006	< 0.001 (0.051)	< 0.001%
Age	0.007 (0.007)	< 0.01%	.299	[-0.01, 0.02]	1.080	< 0.001 (0.064)	< 0.001%
Percentage of men in samples	-0.006 (0.007)	< 0.01%	.411	[-0.02, 0.01]	0.676	0.003 (0.046)	4.01%
Duration of exposure	0.001 (0.001)	< 0.01%	.395	[-0.01, 0.01]	0.723	< 0.001 (0.073)	< 0.001%
OM-condition (*k* = 5)							
Publication year	-0.123 (0.066)	73.28%	.062	[-0.25, 0.01]	3.488	0.015 (0.064)	18.65%
Age	-0.007 (0.011)	< 0.01%	.549	[-0.03, 0.02]	0.360	0.105 (0.152)	57.21%
Percentage of men in samples	0.003 (0.015)	< 0.01%	.851	[-0.03, 0.03]	0.035	0.094 (0.129)	62.38%
Duration of exposure	< 0.001 (< 0.001)	100.00%	.023	[< 0.001,< 0.001]	5.188*	< 0.001 (0.045)	< 0.001%

Note. *b* = unstandardized regression coefficient; R^2 = proportion of variance in the dependent variable explained by the independent variable; *SE* = standard error; 95% CI = 95% lower and upper bound of 95% confidence interval; *Q* = Cochran's *Q* test statistic for heterogeneity; τ^2 = between-studies variance; I^2 = ratio between true heterogeneity and total observed variation; * p <.05; ***p < .001.

Publication Bias

Publication bias analyses were conducted for published studies only (k = 7). Sample numbers had to exceed k = 2 for calculating funnel plot-, trim-and-fill, -Egger's regression-, and PET-PEESE-based methods. Numerical outcomes of all methods applied are provided in Table S4, see Appendix F.

In the light of the potentially includable studies, it was unexpected that the final study sets would result in such small sizes. As most of the methods for detecting potential publication bias performed rather poorly in simulation studies for small study sets (Carter et al., 2019), their application was not suitable for the present meta-analyses.

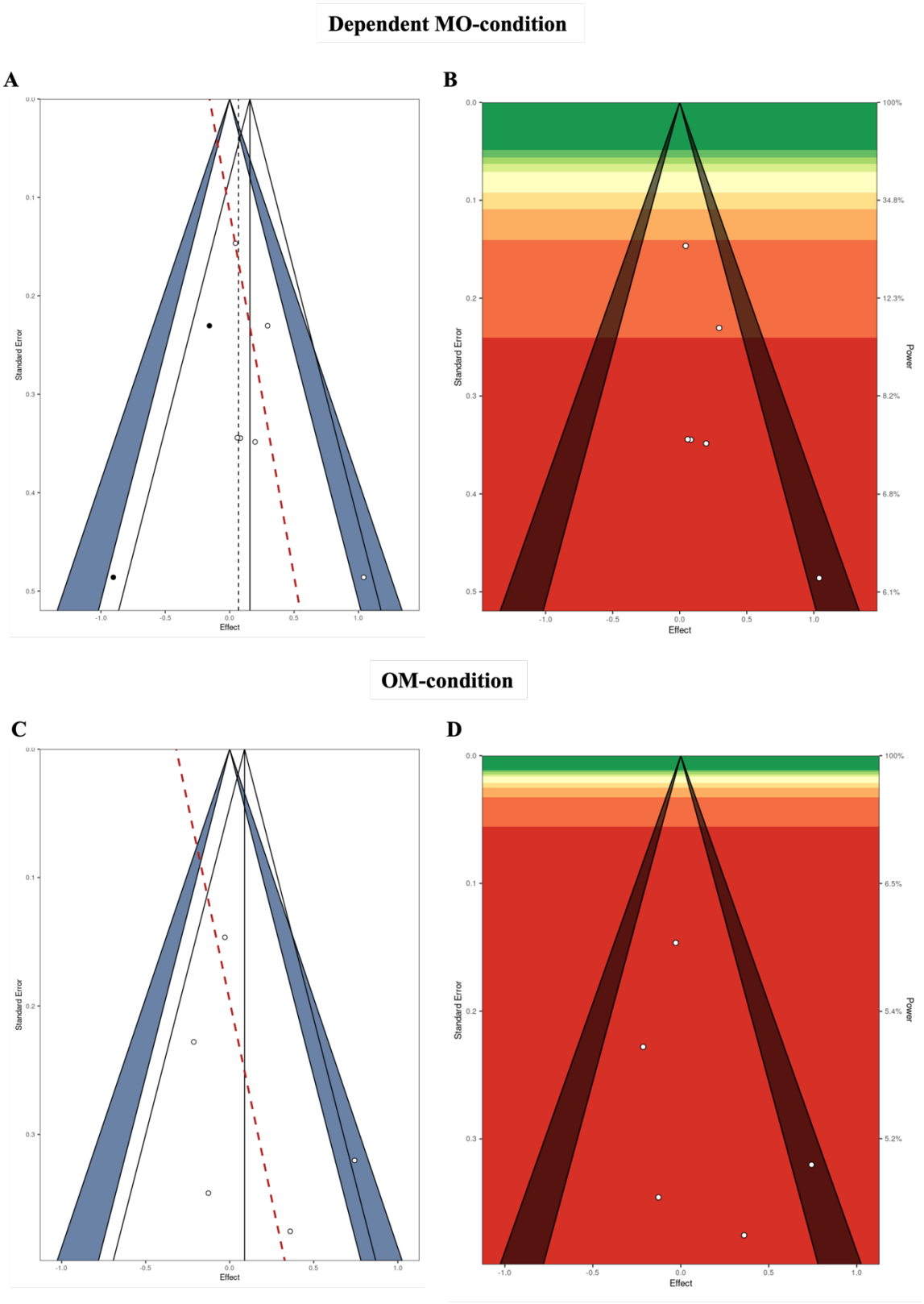
However, for the independent MO-condition, one of six methods indicated evidence for publication bias. Although the *p*-curve analysis included only a single study which examined the effects of KV448 on other-reported pain in premature infants (Bergomi et al., 2014), it indicated an evidential value.

For the dependent MO-condition, four of seven methods indicated evidence for publication bias. *p*-curve analysis revealed no evidential value and an estimated power of 13% of the included study. Further, power enhanced funnel plot analysis showed that all study effects included were substantially underpowered (maximum power of 15%, see Figure 3B).

For the OM-condition, two of seven methods yielded evidence for publication bias. Power enhanced funnel plot analysis revealed a maximum power of 6% regarding all study effects included (see Figure 3D).

That several methods failed to detect a publication bias in the present study samples is attributable to (i) the limited number of effects available and (ii) the insufficient statistical power of the primary effects to represent an evidential value. Regardless of any outcome that we could have observed, the available evidence is too underpowered to conclude any salient effect.

Figure 3. *Contour-enhanced funnel plots with imputed trim-and-fill values as well as Egger's regression line (left) and power-enhanced funnel plots (right) of published sample effect sizes for the dependent MO- (k = 6,* panel A and B*) and the OM-condition (k = 5,* panel C and D*). Study power is displayed from dark red (from 0 to 10 percent) to dark green (from 80 to 90 percent) in 10 percent increments.*



Specification curve

Specification curve analyses are visualized in Figures 4 to 6.

Figure 4 indicates that virtually any reasonable specification in the independent MO-condition leads to unprecise estimates (i.e., effects with comparatively wide confidence intervals), which ranged from $g = 0.40$ to $g = 1.30$. The specified summary effects were mostly nominally non-significant ($p > .05$), as their 95%-confidence intervals included zero. Here, summary effect estimates were based on a maximum of three studies, whereof only one examined epilepsy. Specifications that included epilepsy yielded smaller effect sizes than those that included other medically relevant conditions only.

A similar picture of unprecise effect sizes emerged investigating reasonable specifications for the (i) dependent MO-condition (g range: 0.08 to 0.62; see Figure 5) and (ii) OM-condition (g range: -.10 to 0.48; see Figure 6). For both conditions, 2 out of 48 specifications yielded nominally significant outcomes, which would support positive effects of KV448 or other music on epilepsy or other medically relevant conditions.

Particularly, the large number of non-significant effects is surprising because, given the inherent large power of meta-analyses, non-significant summary effect sizes are sparse and typically indicate null effects.

Combinatorial meta-analyses

Combinatorial meta-analyses are visualized in Figure 7 (GOSH plots). In all conditions, results of sampled subsets of all possible combinations did not reveal evidence for any consistent effects.

For the independent MO-condition (panel A), effect sizes ranged from $g = -0.61$ to $g = 1.65$. Of note, individual combinations with the study providing the largest effect size (Bergomi et al., 2014; examining other-reported pain in premature infants) clearly exerted massive influences on effect strengths as well as heterogeneity. Effect sizes of subsets not including the outlier study ranged from $g = -0.60$ to $g = 0.09$.

For the dependent MO-condition (panel B), effect sizes ranged from $g = 0.04$ to $g = 1.04$. For the OM-condition (panel C), effect sizes ranged from $g = -0.21$ to $g = 0.74$.

In all conditions, larger effect sizes were associated with higher heterogeneity. Of some study combination in both the independent MO-condition as well as the OM-condition, negative summary effects resulted, which would indicate a negative effect of the KV448 or other music on epilepsy or other medically relevant conditions, compared to silence.

Figure 4. *Descriptive meta-analytic specification plot of summary effects from all reasonable specifications for the independent MO-condition. The bottom panel indicates the "which" and "how" factors that were included for the estimated summary effects depicted in the top panel with respective 95% confidence intervals. The middle panel indicates the number of samples within the respective subsets.*

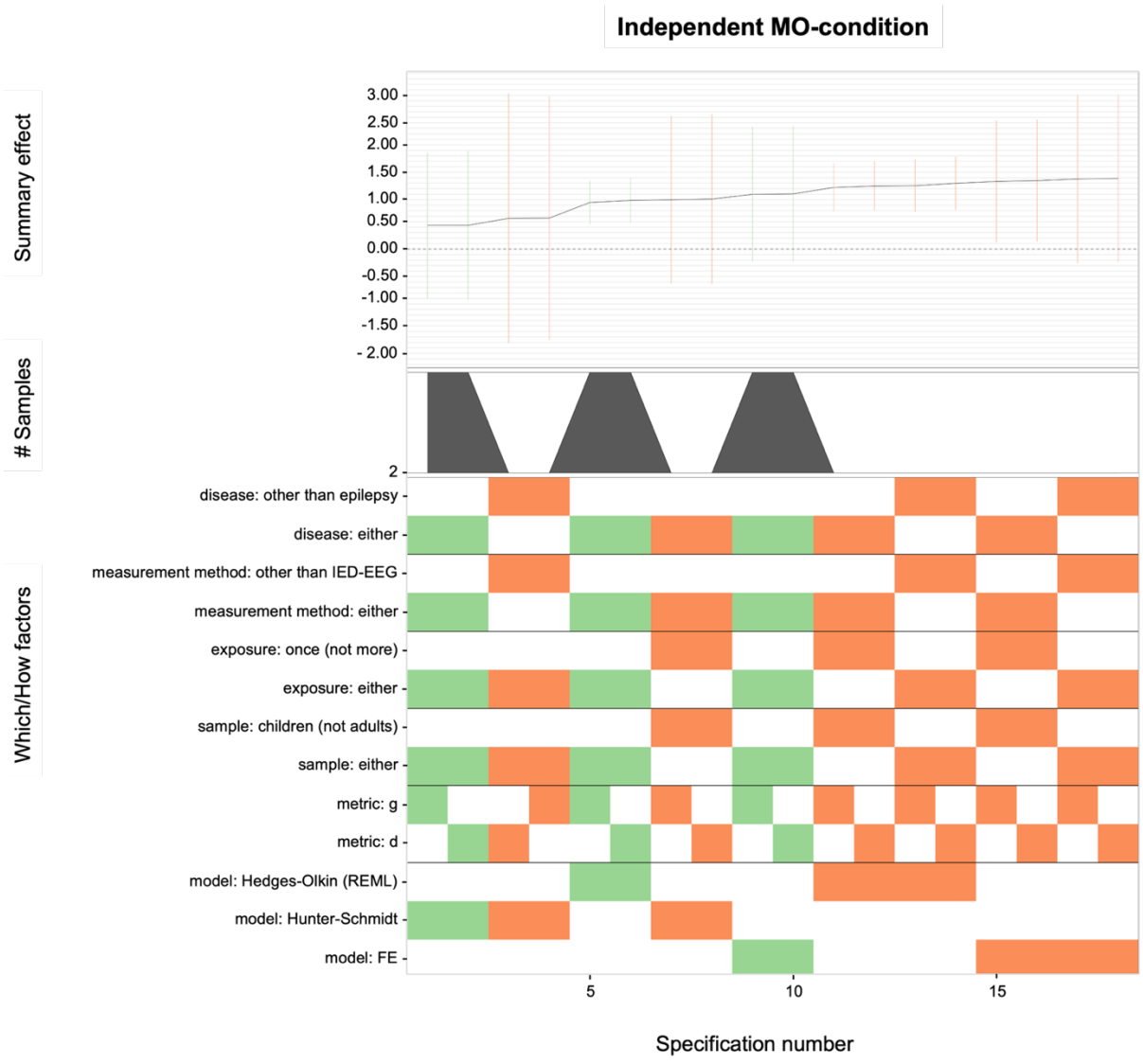


Figure 5. *Descriptive meta-analytic specification plot of summary effects from all reasonable specifications for the dependent MO-condition. The bottom panel indicates the "which" and "how" factors that were included for the estimated summary effects depicted in the top panel with respective 95% confidence intervals. The middle panel indicates the number of samples within the respective subsets.*

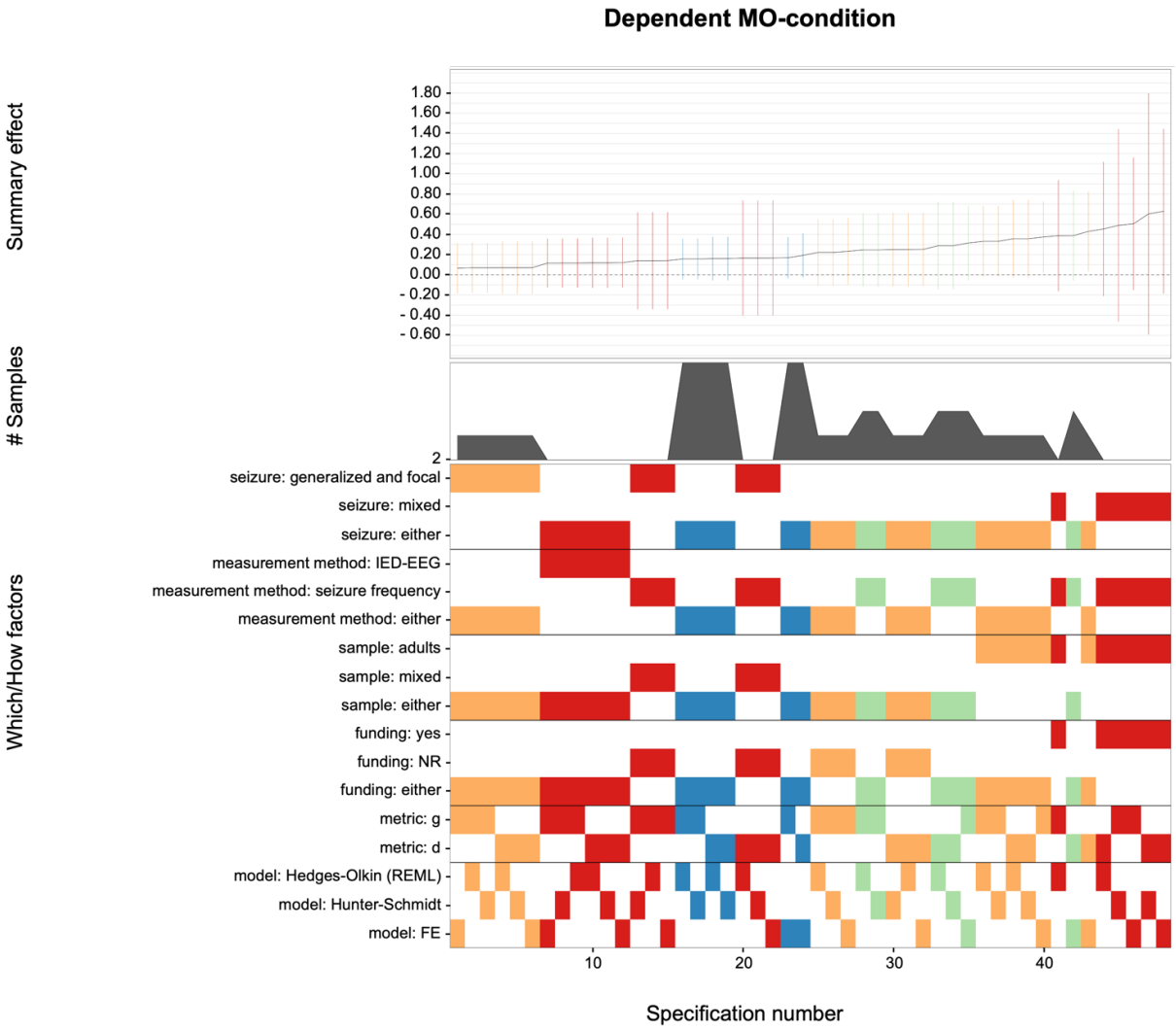


Figure 6. *Descriptive meta-analytic specification plot of summary effects from all reasonable specifications for the OM-condition. The bottom panel indicates the "which" and "how" factors that were included for the estimated summary effects depicted in the top panel with respective 95% confidence intervals. The middle panel indicates the number of samples within the respective subsets.*

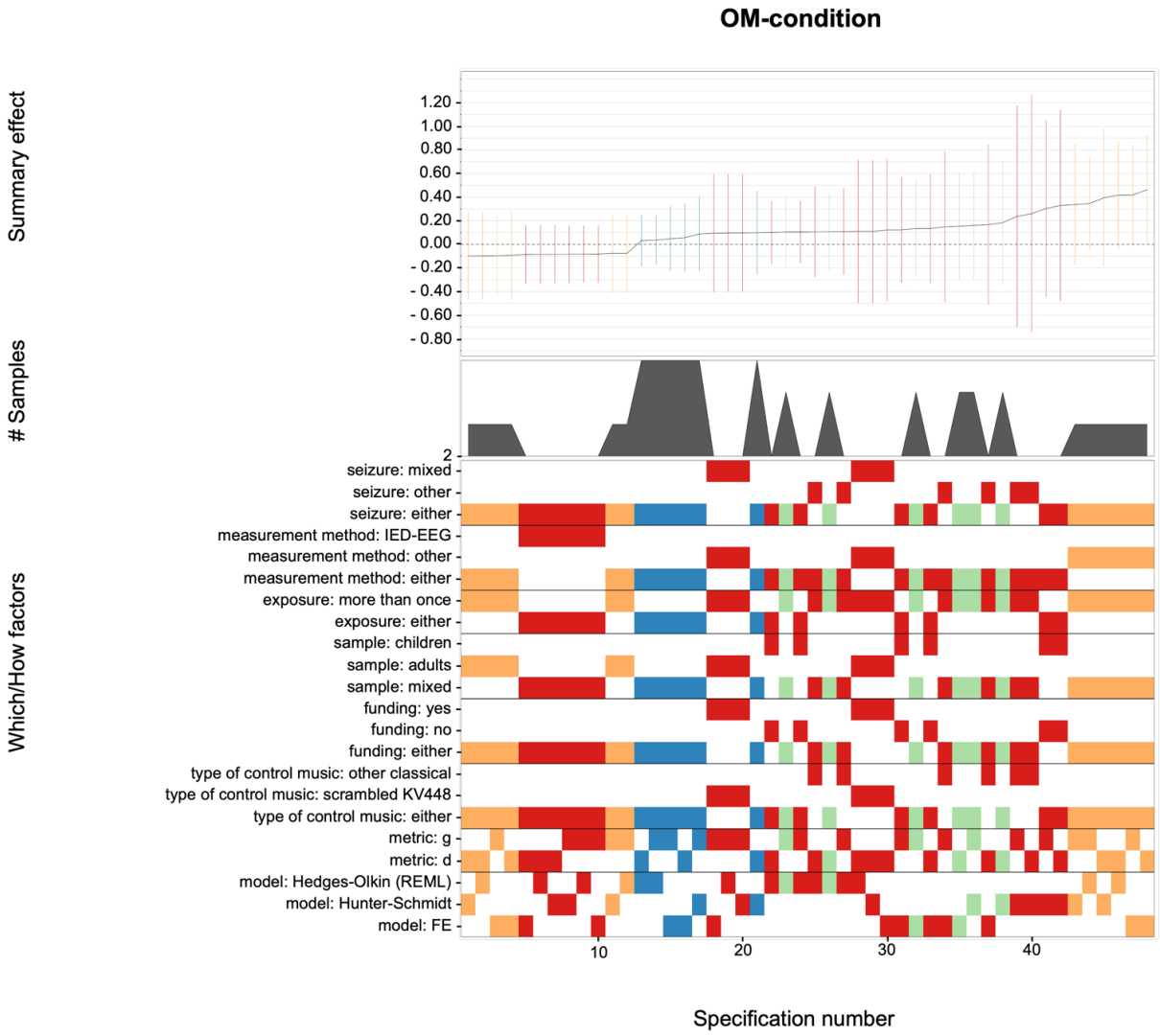
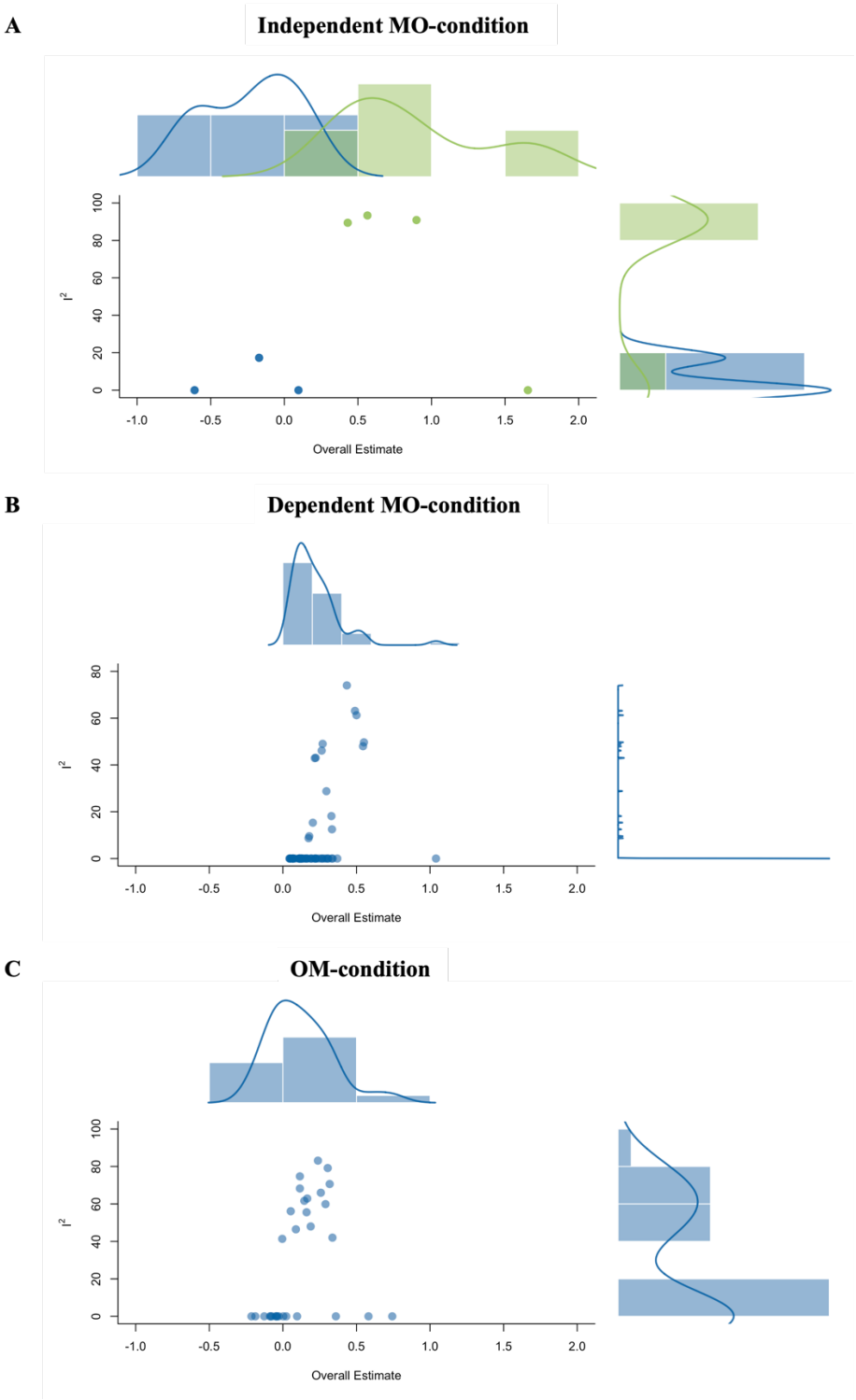


Figure 7. *GOSH-plots of all possible combinations for each condition. Panel A shows all 7 possible combinations of k = 3 studies included in the independent MO-condition, whereas subset estimations including the study which reported the largest effect size (Bergomi et al., 2014; other-reported pain in premature infants) is highlighted in green. Panel B shows all 63 possible combinations of k = 6 studies included in the dependent MO-condition. Panel C shows all 31 possible combinations of k = 5 studies included in the OM-condition.*



Discussion

The present meta-analysis shows, that there is only little evidence for any meaningful beneficial effect of listening to Mozart's sonata KV448 (or any other music) on epilepsy or other medically relevant conditions. Effect sizes of all conditions examined were small in size, statistically non-significant, and were based on qualitatively inadequate studies. These primary studies were substantially underpowered, suboptimal designed, and lacked of transparency. In general, it arises the impression of insufficient evidence for a salient effect and an unfounded authority.

Formal statistical syntheses of the Mozart effect on epilepsy or other medically relevant conditions compared to a non-musical stimulus did not yield any significant summary effects. Although some of the observed effects were non-trivial in term of strength, examination of the accumulated study power indicated that the available evidential value was insufficient. The maximal power of the studies included yielded 15%, whilst 80% is conventionally an acceptable level for power (Cohen, 1988). Also, the present results reveal that the effect is not moderated by characteristics such as age, sex, seizure type, or duration of exposure. Regardless *which* empirical studies are included in a formal meta-analysis and *how* they are analyzed, the lack of evidence leads to imprecise small effects. Therefore, no salient conclusions about a beneficial effect of the KV448 on epilepsy or other medically relevant conditions can be drawn.

This specific effect of KV448 is further challenged by the observation of similar, largely positive effects of the examination of any other musical stimulus compared with silence. Again, none of the observed summary effects were significant, suggesting a lack of study power. However, in terms of a salient specific effect of KV448, one would expect other musical stimuli to have no effect.

The available literature on the effect of Mozart's music on epilepsy or other medically relevant conditions does not follow the standards of experimental research. RCTs provide the strongest evidence among clinical trials and are therefore the state-of-the-art approach in experimental research (Held, 2010). In order to conclude about the success of a particular treatment, a control group (e.g., placebo) or at least two independent measurements are required. If this is not the case, no reliable conclusions can be drawn. Of the included studies in the present meta-analysis, a total of $k = 3$ studies were identified to meet these standards. Thereof, $k = 1$ addressed epilepsy. In mirror-designs, two independent groups undergo both the treatment and the control condition in a different order. To avoid bias, wash-out periods of

at least two weeks are crucial (Necdet, 2014). This was not considered in the eligible studies (k = 2) that used such a mirror-design, through which the influence from one treatment phase on the other was uncontrolled. Therefore, a carry-over effect cannot be precluded, which in turn would invalidate the entire studies (Willan et al., 1986). Due to the absence of a control group as well as technical considerations (e.g., regression toward the mean), the one-group pretest-posttest is a very poor choice for testing the relationship between to variables (Knapp, 2016). However, a number of studies included in the present meta-analysis (k = 3) applied this approach. Two of these studies added a counterbalanced design by directly exposing participants to another condition (i.e., other music). Instead of controlling for confounding variables, this reopens the issue of potential carry-over effects, questioning the validity of this investigations. Studies eligible for the present meta-analysis but excluded, e.g., because of data unavailability, were similarly poor designed (e.g., case studies, one-group pretest-posttest, lacking wash-out periods etc.). In the case studies identified (k = 4), subjects suffered not only from epilepsy, but also from severe brain damage. These results cannot be generalized to patients in whom epilepsy is not comorbid.

In summary, of all literature available, four studies addressing the effect of the KV448 on epilepsy or other medically relevant conditions met experimental research standards (i.e., RCT). Of these, three studies found a non-trivial effect (Bodner et al., 2012; Paprad et al., 2020; Quon et al., 2021), but were based on small samples (treatment group n = 25; 12; 8, respectively) and unequal group sizes, through which they were substantially underpowered. Further, their results longer traceable.

Moreover, it is concerning that the primary data and even summary statistic that document the Mozart effect for epilepsy or other medically relevant conditions seem to be unavailable. Primary data of only one a single one (out of 26 studies) were accessible, summary statistics of only six studies were sufficiently documented within publications to calculate effect sizes. Upon request, another two authors provided the necessary statistical parameters which allowed the calculation of standardized effect sizes. However, for most of the studies effect size calculation was impossible, which resulted in another 14 studies having to be excluded. Personal communication with corresponding authors of these studies, which were predominantly cited, points out that they are related to poor data documentation (e.g., data repositories have become inaccessible). Open science practices (e.g., open access to data and code) are a common response to the replication crisis and sine qua non to implement scientific findings (Cashin et al., 2021). Given the present results, this claim cannot be fulfilled for research on the Mozart effect on epilepsy or other medically relevant conditions.

All in all, it arises the impression of an unfounded authority of the literature on which reports in science and popular media are based on. By citing this literature, which (i) in summary shows no salient effect and (ii) is built on a series of questionable research practices, information cascades can be generated that further reinforce the wrong impression of solid scientific evidence (Greenberg, 2009).

Limitations

Because the present analyses were based on a limited number of studies, the existence of the Mozart effect on epilepsy or other medically relevant conditions cannot be precluded with certainty. However, this is due to the fact that in regard to the question examined, too little evidence is available, extant studies are poorly documented, and not appropriately designed to draw reliable conclusions.

Conclusion

The present study shows that there is only little support for a specific Mozart effect or any other type of music on epilepsy or other medically relevant conditions considering the cumulative empirical evidence. Overall effects turned out to be small and non-significant. The available and useable literature is sparse, suboptimal designed, and substantially underpowered. A core value of science is transparency of methods and data (Kidwell et al., 2016), which is not the case in this regard. Studies would need to be conducted with larger samples on actual standards regarding design and research practices.
However, based on the literature available to date, no empirical evidence can be found to confirm a salient effect of KV448 on epilepsy or other medically relevant conditions.

References

Bergomi, P., Chieppi, M., Maini, A., Mugnos, T., Spotti, D., Tzialla, C., & Scudeller, L. (2014). Nonpharmacological techniques to reduce pain in preterm infants who receive heel-lance procedure: A randomized controlled trial. *Research and theory for nursing practice*, *28*(4), 335-348. https://doi.org/10.1891/1541-6577.28.4.335

Bodner, M., Turner, R. P., Schwacke, J., Bowers, C., & Norment, C. (2012). Reduction of seizure occurrence from exposure to auditory stimulation in individuals with neurological handicaps: A randomized controlled trial. *PLOS ONE*, *7*(10), e45303. https://doi.org/10.1371/journal.pone.0045303

Brackney, D. E., & Brooks, J. L. (2018). Complementary and alternative medicine: The Mozart Effect on childhood epilepsy—A systematic review. *The Journal of School Nursing*, *34*(1), 28-37. https://doi.org/10.1177/1059840517740940

Borenstein, M., Hedges, L. V., Higgins, J. P., & Rothstein, H. R. (2021). Introduction to meta-analysis. *John Wiley & Sons*.

Campbell D. (2002). The Mozart effect for children: Awakening your child's mind, health and creativity with music. *Harper*.

Carter, E. C., Schönbrodt, F. D., Gervais, W. M., & Hilgard, J. (2019). Correcting for Bias in Psychology: A Comparison of Meta-Analytic Methods. *Advances in Methods and Practices in Psychological Science*, *2*(2), 115-144. https://doi.org/10.1177/2515245919847196

Cashin, A. G., Bagg, M. K., Richards, G. C., Toomey, E., McAuley, J. H., & Lee, H. (2021). Limited engagement with transparent and open science standards in the policies of pain journals: a cross-sectional evaluation. *BMJ evidence-based medicine*, *26*(6), 313-319. https://doi.org/10.1136/bmjebm-2019-111296

Cohen, J. (1988). Statistical power analysis for the behavioral sciences (2 ed.). *Routledge*. https://doi.org/https://doi.org/10.4324/9780203771587

Cooney, E. (2021, September 16). New study revives a Mozart Sonata as a potential epilepsy therapy. *Stat*. https://www.statnews.com/2021/09/16/mozart-piano-sonata-potential-epilepsy-therapy/

Cooper, H., Hedges, L. V., & Valentine, J. C. (2019). The handbook of research synthesis and meta-analysis. *Russell Sage Foundation*.

Coppola, G., Toro, A., Operto, F. F., Ferrarioli, G., Pisano, S., Viggiano, A., & Verrotti, A. (2015). Mozart's music in children with drug-refractory epileptic encephalopathies. *Epilepsy & Behavior*, *50*, 18-22. https://doi.org/10.1016/j.yebeh.2015.05.038

Coppola, G., Operto, F. F., Caprio, F., Ferraioli, G., Pisano, S., Viggiano, A., & Verrotti, A. (2017). Mozart's music in children with drug-refractory epileptic encephalopathies: comparison of two protocols. *Epilepsy & Behavior*, *78*, 100-103. https://doi.org/10.1016/j.yebeh.2017.09.028

D'Alessandro, P., Giuglietti, M., Baglioni, A., Verdolini, N., Murgia, N., Piccirilli, M., & Elisei, S. (2017). Effects of music on seizure frequency in institutionalized subjects with severe/profound intellectual disability and drug-resistant epilepsy. *Psychiatria Danubina*, *29*, 399-404.

Donat, J., Krieger, E., Zunkel, W., Scutaru, C., Mache, S., Uibel, S., Kusma, B., Vitzthum, K., Quarcoo, D., & Groneberg, D. A. (2010). Epilepsie – Aktueller Stand der Wissenschaft. *Zentralblatt für Arbeitsmedizin, Arbeitsschutz und Ergonomie*, *60*(8), 268-284. https://doi.org/10.1007/BF03344297

Greenberg, S. A. (2009). How citation distortions create unfounded authority: analysis of a citation network. *BMJ: British Medical Journal*, *339*(7714), 210-213. http://www.jstor.org/stable/25672190

Grylls, E., Kinsky, M., Baggott, A., Wabnitz, C., & McLellan, A. (2018). Study of the Mozart effect in children with epileptic electroencephalograms. *Seizure*, *59*, 77-81. https://doi.org/10.1016/j.seizure.2018.05.006

Held, U. (2010). Welche Arten von Studiendesigns gibt es und wie werden sie korrekt eingesetzt? *Swiss Medical Forum*, *10*(41), 712-714. https://doi.org/10.4414/smf.2010.07304

Herzog, R., Alvarez-Pasquin, M., Diaz, C., Del Barrio, J., Estrada, J., & Gil, A. (2013). Newcastle-Ottawa Scale adapted for cross-sectional studies. *BMC Public Health*, *13*, 154.

Higgins, J. P., Thompson, S. G., Deeks, J. J., & Altman, D. G. (2003). Measuring inconsistency in meta-analyses. *BMJ*, *327*(7414), 557-560. https://doi.org/10.1136/bmj.327.7414.557

Hughes, J. R., Daaboul, Y., Fino, J. J., & Shaw, G. L. (1998). The "Mozart effect" on epileptiform activity. *Clinical Electroencephalography*, *29*(3), 109-119. https://doi.org/10.1177/155005949802900301

Knapp, T. R. (2016). Why Is the One-Group Pretest–Posttest Design Still Used? *Clinical Nursing Research*, *25*(5), 467-472. https://doi.org/10.1177/1054773816666280

Kidwell, M. C., Lazarević, L. B., Baranski, E., Hardwicke, T. E., Piechowski, S., Falkenberg, L.-S., Kennett, C., Slowik, A., Sonnleitner, C., Hess-Holden, C., Errington, T. M., Fiedler, S., & Nosek, B. A. (2016). Badges to Acknowledge Open Practices: A Simple, Low-Cost, Effective Method for Increasing Transparency. *PLOS Biology*, *14*(5), e1002456. https://doi.org/10.1371/journal.pbio.1002456

Necdet, S. (2014). Study designs in medicine. *Balkan medical journal*, *31*(4), 273-277.

Maguire, M. J. (2022). Wired for sound: The effect of sound on the epileptic brain. *Seizure – European Journal of Epilepsy*, *102*, 22-31. https://doi.org/10.1016/j.seizure.2022.09.016

Paprad, T., Veeravigrom, M., & Desudchit, T. (2021). Effect of Mozart K. 448 on interictal epileptiform discharges in children with epilepsy: A randomized controlled pilot study. *Epilepsy & Behavior*, *114*, 107177. https://doi.org/10.1016/j.yebeh.2020.107177

Page, M. J., McKenzie, J. E., Bossuyt, P. M., Boutron, I., Hoffmann, T. C., Mulrow, C. D., Shamseer, L., Tetzlaff, J. M., Akl, E. A., Brennan, S. E., Chou, R., Glanville, J., Grimshaw, J. M., Hróbjartsson, A., Lalu, M. M., Li, T., Loder, E. W., Mayo-Wilson, E., McDonald, S., … Moher, D. (2021). The PRISMA 2020 statement: An updated guideline for reporting systematic reviews. *PLOS Medicine*, *18*(3), e1003583. https://doi.org/10.1371/journal.pmed.1003583

Pietschnig, J., Voracek, M., & Formann, A. K. (2010). Mozart effect–Shmozart effect: A meta-analysis. *Intelligence*, *38*(3), 314-323. https://doi.org/10.1016/j.intell.2010.03.001

R Core Team. (2022). R: A Language and Environment for Statistical Computing. R Core Team. Retrieved from https://www.R-project.org/

Rstudio Team (2020). Rstudio: Integrated Development for R. Rstudio. Retrieved from http://www.rstudio.com/

Rafiee, M., Patel, K., Groppe, D. M., Andrade, D. M., Bercovici, E., Bui, E., … & Valiante, T. A. (2020). Daily listening to Mozart reduces seizures in individuals with epilepsy: A randomized control study. *Epilepsia Open*, *5*(2), 285-294. https://doi.org/10.1002/epi4.12400

Rauscher, F. H., Shaw, G. L., & Ky, C. N. (1993). Music and spatial task performance. *Nature*, *365*(6447), 611-611. https://doi.org/10.1038/365611a0

Sesso, G., & Sicca, F. (2020). Safe and sound: Meta-analyzing the Mozart effect on epilepsy. *Clinical Neurophysiology*, *131*(7), 1610-1620. https://doi.org/10.1016/j.clinph.2020.03.039

Siegel, M., Bühler, R., & Pietschnig, J. (2021). MetaShine (Version alpha) [Web application software]. Retrived from https://the-meta-analysis-project.shinyapps.io/MetaShine

Siegel, M., Eder, J. S. N., Wicherts, J. M., & Pietschnig, J. (2022). Times are changing, bias isn't: A meta-meta-analysis on publication bias detection practices, prevalence rates, and predictors in industrial/organizational psychology. *Journal of Applied Psychology*. https://doi.org/10.1037/apl0000991

Stillova, K., Kiska, T., Koriťáková, E., Strýček, O., Mekyska, J., Chrastina, J., & Rektor, I. (2021). Mozart effect in epilepsy: Why is Mozart better than Haydn? Acoustic qualities-based analysis of stereo electroencephalography. *European Journal of Neurology*, *28*(5), 1463-1469. https://doi.org/10.1111/ene.14758

Voracek, M., Kossmeier, M., & Tran, U. S. (2019). Which data to meta-analyze, and how? *Zeitschrift für Psychologie*. https://doi.org/10.1027/2151-2604/a000357

Willan, A. R., & Pater, J. L. (1986). Carryover and the Two-Period Crossover Clinical Trial. *Biometrics*, *42*(3), 593-599. https://doi.org/10.2307/2531209

Vibrasiute, A. (2017). Muzikos klausymo poveikis budrumui, psichoemocinei būsenai, kognityviosioms funkcijoms ir judesų mokymuisi po galvos smegenų insult [Unpublished bachelor's thesis]. Lietuvos sporto universitetas.

List of Figures

List of Tables

Appendix A

Abstracts in English and German

Abstract (English)

In recent years, the Mozart effect has attracted extensive media and scientific attention in the context of epilepsy and other medically relevant conditions. It has been said, that the exposure to the first movement “allegro con spirito” of the Mozart sonata for two pianos in D major (KV448) would remarkably relive epileptic symptoms (e.g., seizure frequencies, interictal epileptiform discharges) and was proposed to supplement or replace drug treatment. The present paper represents an extensive review and meta-analysis on this topic, providing evidence for potential influences of dissemination biases and the adequacy of the evidential value. It was shown that the overall effect sizes are small in size (*g* range: 0.16 to 0.43) and statistically not significant (*p* range: .13 to .52), which, in the context of meta-analysis, indicates substantially underpowered primary studies. Moderator-, and multiverse-analyses as well as a series of publication bias detection methods indicate that a positive effect of the KV448 on epilepsy and other medically relevant conditions is not reproducible. Insufficient documentation of replication attempts and selective publication of seemingly successful but strikingly inadequately designed and underpowered ones can thus lead to unfounded assumption of a salient effect.

Keywords: Mozart effect, epilepsy, diseases, meta-analysis, multiverse-analysis, reproducibility.

Abstract (German)

In den letzten Jahren hat der Mozart-Effekt im Zusammenhang mit Epilepsie und anderen medizinisch relevanten Erkrankungen sowohl in den Medien als auch in der Wissenschaft große Beachtung gefunden. Es wurde behauptet, dass die Exposition gegenüber dem ersten Satz "allegro con spirito" der Mozart-Sonate für zwei Klaviere in D-Dur (KV448) epileptische Symptome (z.B. Anfallshäufigkeit oder interiktale epileptoforme Entladungen) bemerkenswert lindern würde. Dabei wurde vorgeschlagen, die medikamentöse Behandlung der Epilepsie mit dem Hören der KV448 zu ergänzen oder gar zu ersetzen. Die vorliegende Studie stellt diesbezüglich eine umfangreiche Übersichtsarbeit und Meta-Analyse dar, die Hinweise auf mögliche Einflüsse von Publikationsverzerrungen und der Angemessenheit der Beweiskraft liefert.

Es wurde gezeigt, dass die kumulierten Effektgrößen klein (*g*-Bereich: 0,16 bis 0,43) und statistisch nicht signifikant (*p*-Bereich: .13 bis .52) sind, was im Rahmen einer Meta-Analyse auf deutlich unterpowerten Primärstudien hinweist. Moderatoren- und Multiversums-Analysen sowie einer Reihe von Methoden zur Erkennung von Publikationsverzerrungen deuteten darauf hin, dass ein positiver Effekt der KV448 auf Epilepsie und anderen medizinisch relevante Erkrankungen nicht reproduzierbar ist. Die mangelhafte Dokumentation von Replikationsversuchen und die selektive Publikation von scheinbar erfolgreichen, aber auffallend unzureichend konzipierten und unterpowerten Studien kann zu einer unbegründeten Annahme eines scheinbar herausragenden Effekts führen.

Schlüsselwörter: Mozart-Effekt, Epilepsie, Krankheiten, Meta-Analyse, Multiversum-Analyse, Reproduzierbarkeit.

Appendix B

Deviations from pre-registration

1. Stopping rule for Open Access Theses and Dissertations: No relevant paper on 3 pages in a row with 30 hits per page

2. If the sample mean was unavailable, the median value was used and interpreted as a mean. standard deviation was computed using *interquartile range / 1.35*:

Calculator produced by Shi (2020) and Luo (2018):
http://www.math.hkbu.edu.hk/~tongt/papers/median2mean.html

Jiandong Shi, Dehui Luo, Hong Weng, Xian-Tao Zeng, Lu Lin, Haitao Chu and Tiejun Tong (2020), "Optimally estimating the sample mean and standard deviation from the five-number summary", arXiv:2003.02130 [stat.ME].

Luo D, Wan X, Liu J, Tong T. Optimally estimating the sample mean from the sample size, median, mid-range, and/or mid-quartile range. Statistical methods in medical research. 2018 Jun;27(6):1785-805.

Studies affected:

a. Bergomi et al., 2014 (used scenario: 3)
b. Paprad et al., 2020 (used scenario: 2)
c. Štillová et al., 2021 (used scenario: 1)

3. The studies were not only divided into groups on the basis of the stimulus used (MO/OM/NM), but also on the basis of the study design used. Reason: Different study designs cannot be synthesized.

4. Effect sizes for two-groups pretest-posttest designs were calculated using https://www.psychometrica.de/effect_size.html ; variance and standard errors were calculated using formulas provided in Borenstein et al., 2021

5. Effect sizes, variances and standard errors for one-group pretest-posttest designs were calculated using the formulas provided in Cooper et al., 2019; If the correlation between pre- and posttest was not available, it was estimated by $r = 0.5$

6. Studies with one-group and several measurement points (e.g., KV448 – measurement – no music – measurement; KV448 – measurement – other music measurement):
We have included the corresponding effect sizes in MO-NM or OM-NM. Potential carry-over effects in the samples are noted in the tables (D`Alessandro et al., 2017, Rafiee et al., 2020, Štillová et al., 2021, Grylls et al., 2018).

7. Vibrašiūtė (2017): Since several of the same samples cannot be synthesized with each other, we paid attention to the results concerning systolic blood pressure, since this was identified as the most meaningful.

8. Additionally, combinatorial meta-analyses were conducted.

9. Specification curve:

Due to unavailability of information, some *which* could not be investigated:

- Lab outside of Asia
- included in the previous meta-analysis (no previous meta-analysis available, which applied meta-analytical techniques)
- type of OM-condition: electronic, pop, techno, hip-hop, meditation, short story was not observed
- published vs. unpublished: we identified only one unpublished study
- sex: no study with women-only or men-only was identified

Appendix C

PRISMA checklist

Table S1. *PRISMA checklist.*

Section and Topic	Item #	Checklist item	Location where item is reported
TITLE			
Title	1	Identify the report as a systematic review.	Cover page
ABSTRACT			
Abstract	2	See the PRISMA 2020 for Abstracts checklist.	1
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of existing knowledge.	2
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses.	3
METHODS			
Eligibility criteria	5	Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.	4
Information sources	6	Specify all databases, registers, websites, organisations, reference lists and other sources searched or consulted to identify studies. Specify the date when each source was last searched or consulted.	4
Search strategy	7	Present the full search strategies for all databases, registers and websites, including any filters and limits used.	4
Selection process	8	Specify the methods used to decide whether a study met the inclusion criteria of the review, including how many reviewers screened each record and each report retrieved, whether they worked independently, and if applicable, details of automation tools used in the process.	4
Data collection process	9	Specify the methods used to collect data from reports, including how many reviewers collected data from each report, whether they worked independently, any processes for obtaining or confirming data from study investigators, and if applicable, details of automation tools used in the process.	4
Data items	10a	List and define all outcomes for which data were sought. Specify whether all results that were compatible with each outcome domain in each study were sought (e.g. for all measures, time points, analyses), and if not, the methods used to decide which results to collect.	5
	10b	List and define all other variables for which data were sought (e.g. participant and intervention characteristics, funding sources). Describe any assumptions made about any missing or unclear information.	5
Study risk of bias assessment	11	Specify the methods used to assess risk of bias in the included studies, including details of the tool(s) used, how many reviewers assessed each study and whether they worked independently, and if applicable, details of automation tools used in the process.	6
Effect measures	12	Specify for each outcome the effect measure(s) (e.g. risk ratio, mean difference) used in the synthesis or presentation of results.	6
Synthesis methods	13a	Describe the processes used to decide which studies were eligible for each synthesis (e.g. tabulating the study intervention characteristics and comparing against the planned groups for each synthesis (item #5)).	5
	13b	Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data	5

Section and Topic	Item #	Checklist item	Location where item is reported
		conversions.	
	13c	Describe any methods used to tabulate or visually display results of individual studies and syntheses.	5
	13d	Describe any methods used to synthesize results and provide a rationale for the choice(s). If meta-analysis was performed, describe the model(s), method(s) to identify the presence and extent of statistical heterogeneity, and software package(s) used.	5, 6
	13e	Describe any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup analysis, meta-regression).	6
	13f	Describe any sensitivity analyses conducted to assess robustness of the synthesized results.	5
Reporting bias assessment	14	Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).	6
Certainty assessment	15	Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.	6
RESULTS			
Study selection	16a	Describe the results of the search and selection process, from the number of records identified in the search to the number of studies included in the review, ideally using a flow diagram.	10
	16b	Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded.	Table S1
Study characteristics	17	Cite each included study and present its characteristics.	11
Risk of bias in studies	18	Present assessments of risk of bias for each included study.	17
Results of individual studies	19	For all outcomes, present, for each study: (a) summary statistics for each group (where appropriate) and (b) an effect estimate and its precision (e.g. confidence/credible interval), ideally using structured tables or plots.	12, 13, 14
Results of syntheses	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.	17
	20b	Present results of all statistical syntheses conducted. If meta-analysis was done, present for each the summary estimate and its precision (e.g. confidence/credible interval) and measures of statistical heterogeneity. If comparing groups, describe the direction of the effect.	12, 14
	20c	Present results of all investigations of possible causes of heterogeneity among study results.	12, 14
	20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.	12, 15
Reporting biases	21	Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.	17
Certainty of evidence	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.	12-23
DISCUSSION			
Discussion	23a	Provide a general interpretation of the results in the context of other evidence.	24
	23b	Discuss any limitations of the evidence included in the review.	26

Section and Topic	Item #	Checklist item	Location where item is reported
	23c	Discuss any limitations of the review processes used.	26
	23d	Discuss implications of the results for practice, policy, and future research.	26
OTHER INFORMATION			
Registration and protocol	24a	Provide registration information for the review, including register name and registration number, or state that the review was not registered.	4
	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.	4
	24c	Describe and explain any amendments to information provided at registration or in the protocol.	4
Support	25	Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.	-
Competing interests	26	Declare any competing interests of review authors.	-
Availability of data, code and other materials	27	Report which of the following are publicly available and where they can be found: template data collection forms; data extracted from included studies; data used for all analyses; analytic code; any other materials used in the review.	4-6

Appendix D

Newcastle-Ottawa Scale adapted for cross-sectional studies

Selection: (Maximum 5 stars)

1) Representativeness of the sample:

a) Truly representative of the average in the target population. * (all subjects or random sampling)

b) Somewhat representative of the average in the target population. * (non-random sampling)

c) Selected group of users.

d) No description of the sampling strategy.

2) Sample size:

a) Justified and satisfactory. *

b) Not justified.

3) Non-respondents:

a) Comparability between respondents and non-respondents characteristics is established, and the
response rate is satisfactory. *

b) The response rate is unsatisfactory, or the comparability between respondents and non-respondents is unsatisfactory.

c) No description of the response rate or the characteristics of the responders and the non-responders.

4) Ascertainment of the exposure (risk factor):

a) Validated measurement tool. **

b) Non-validated measurement tool, but the tool is available or described.* c) No description of the measurement tool.

Comparability: (Maximum 2 stars)

1) The subjects in different outcome groups are comparable, based on the study design or analysis. Confounding factors are controlled.

a) The study controls for the most important factor (select one). *

b) The study control for any additional factor. *

Outcome: (Maximum 3 stars)

1) Assessment of the outcome:

a) Independent blind assessment. **

b) Record linkage. **

c) Self report. *

d) No description.

2) Statistical test:

a) The statistical test used to analyze the data is clearly described and appropriate, and the measurement of the association is presented, including confidence intervals and the probability level (p value). *

b) The statistical test is not appropriate, not described or incomplete.

Table S2. *Quality of included primary studies assessed with the Newcastle-Ottawa Scale.*

	Selection				Comparability	Outcome		
Study	1.	2.	3.	4.		1.	2.	Total (10)
Bergomi et al. (2022)	0	*	0	**	*	**	*	7
Coppola et al. (2015)	0	0	0	*	0	*	*	3
D'Alessandro et al. (2017)	0	0	0	*	0	*	*	3
Grylls et al. (2018)	0	0	0	**	0	**	*	5
Paprad et al. (2020)	0	0	0	**	*	**	*	6
Rafiee et al. (2020)	0	0	0	*	0	*	*	3
Stillova et al. (2021)	0	0	0	**	0	**	*	5
Vibrasiute (2017)	0	0	0	**	*	**	*	7

Herzog, R., Alvarez-Pasquin, M., Diaz, C., Del Barrio, J., Estrada, J., & Gil, A. (2013). Newcastle-Ottawa Scale adapted for cross-sectional studies. *BMC Public Health*, *13*, 154.

Appendix E

Table S3: Study characteristics of excluded studies

Table S3. Study characteristics of excluded studies that are not traceable, poorly documented, or whose data are no longer available.

Reference	Sample size	Sample type	Disease	Conclusion	Journal	Exclusion reason	Data availability
Attanasio et al. (2012)	62	Adults	Tinnitus	Significant positive effect on the sound intensity of tinnitus after a single exposure to the KV448.	Acta Oto-Laryngologica	- Statistical information to calculate effect sizes was unavailable - One-group pre-post design counterbalanced, no wash-out period	Not reported and no author response.
Bedetti et al. (2019)	1	Adult	Epilepsy	Significant reduction of epileptic discharges and the frequency of seizures.	Psychiatria Danubina	- Case study - Patient was affected by profound intellectual disability, autism spectrum disorder, intermittent explosive disorder, drug-resistant epilepsy, microcephaly, facial and limbs dysmorphisms	-
Bodner et al. (2012)	*n* KV448 = 25 *n* control = 11	Mixed	Epilepsy	Significant reduction of seizures in subjects with a range of epilepsy and seizure types, in some cases complete cessation of seizures after exposure to KV448. The study was designed as an RCT.	PLOS one	- Statistical information to calculate effect sizes was unavailable	Not reported and no author response.

Coppola et al. (2017)	*n* KV448 = 9 *n* control = 10	Children	Epilepsy	Music therapy seems to be an effective treatment for patients with refractory epileptic seizures in childhood, even though the KV448 was not identified as more effective than other Mozart (i.e., other classical) music. The study was designed as an RCT.	Epilepsy & Behavior	- Only identified study with KV448 vs. other music condition, i.e., was not usable in the present meta-analysis	Summary data provided upon request.
Hughes et al. (1998)	29	Mixed	Epilepsy	Significant reduction of epileptiform activity in 23 of 29 patients, even if they were in coma, with status epilepticus, or with periodic lateralized epileptiform discharges.	Clinical EEG and Neuroscience	- Statistical information to calculate effect sizes was unavailable - One-group design	No contact information available.
Hughes et al. (1999)	1	Children	Epilepsy	Significant reduction of seizure frequency, generalized bilateral spike and wave complex over a 24-hour period while exposed to KV448 for ten minutes every hour during wakefulness.	Clinical Electroencephalography	- Case study - Patient suffered from Lennox-Gastaut Syndrome	-
Kuester et al. (2010)	1	Adults	Epilepsy	Reduction of epileptic discharges, recovering from coma after five days of exposure to KV448.	Epilepsy & Behavior	- Case study - Patient had severe brain trauma	-
Lahiri & Ducan (2007)	1	Adults	Epilepsy	Complete cessation of secondarily generalized tonic-colonic seizures after three months of listening to Mozart's music for 45 minutes a day.	Epilepsy & Behavior	- Case study - Self-report of the patient	-

Lin et al. (2010)	t0: 58 t1: 46	Children	Epilepsy	Reduction of epileptiform discharges in children with different seizure types after listening to KV448 once. No decrease in epileptiform discharge was observed when a computerized string version of the KV448 was used.	Epilepsy Research	- Statistical information to calculate effect sizes was unavailable - One-group design	Data requested, data unavailable.
Lin et al. (2011a)	11	Children	Epilepsy	After listening to KV448 once a day for six month, two patients were seizure free, six had a significant reduction in seizure frequency and in three patients a minimal or no effect was observed.	Epilepsy & Behavior	- Statistical information to calculate effect sizes was unavailable - One-group design	Data requested, data unavailable.
Lin et al. (2011b)	18	Children	Epilepsy	Long-term listening to KV448 decreases epileptiform discharge frequency. Seizure frequency was not measured, since all patients were seizure free for six months prior the study.	Epilepsy & Behavior	- Statistical information to calculate effect sizes was unavailable - One-group design	Data requested, data unavailable.
Lin et al. (2012)	*N* t0 = 39 *N* KV545 t1= 34 *N* KV448 t1 = 33	Children		Significant decrease in epileptiform discharges in children after listening to KV448 and KV545.	Evidence-Based Complementary and Alternative Medicine	- Statistical information to calculate effect sizes was unavailable - Inaccurate reporting with regard to dropouts and group sizes - One-group design counterbalanced, wash-out period one week only	Data requested, data unavailable.

Lin et al. (2013)	*n* KV448 t0 = 41 *n* KV448 t1 = 34 *n* KV545 t0 = 23 *n* KV545 t1 = 19	Children	Epilepsy	Significant decrease of epileptiform discharges in children with epilepsy. During music (KV448 / KV545), an increased parasympathetic tone was observed.	Clinical Neurophysiology	- Statistical information to calculate effect sizes was unavailable - Inaccurate reporting with regard to dropouts and group sizes	Data requested, data unavailable.
Lin et al. (2014)	*n* KV448 t0= 22 *n* KV448 t1 = 11 *n* KV448 t2 = 10 *n* KV448 t3 = 8 *n* control t0= 24 *n* control t1= 10	Children	Epilepsy	Significant reduction of seizure recurrence rate and epileptiform discharged in children with first unprovoked seizures.	BMC Complementary Medicine and Therapies	- Statistical information to calculate effect sizes was unavailable - Inaccurate reporting with regard to dropouts and group sizes - Patients had experienced only a single seizure (unclear, if any of them experienced seizures ever again afterwards)	Data requested, data unavailable.
Ren et al. (2019)	*n* KV448 = 11 *n* control = 5	Children	Epilepsy	Significant reduction of seizure recurrence rate and epileptiform discharged in children with first unprovoked seizures.	BMC – Complementary Medicine and Therapies	- Statistical information to calculate effect sizes was unavailable	Data requested, data unavailable.
Quon et al. (2021)	*n*1 = 8 *n*2 = 8	Adults	Epilepsy	Reduced interictal epileptiform discharges during the original version of KV448 after at least 30 seconds of exposure.	Scientific Reports	- Statistical information to calculate effect sizes was unavailable	Not reported and no author response.
Turner et al. (2004)	t0: = 4 t1: = 2 / 1	Children	Epilepsy	Significant decreases in interictal epileptiform discharges after exposure to KV448. No Effect for Beethoven's *Für Elise*.	Epilepsy & Behavior	- Statistical information to calculate effect sizes was unavailable - Results from only one participants were reported	-

Ziv et al. (2022)	*n* KV448 = 23 *n* control group 1 = 22 *n* control group 2 = 25	Children	Bronchiolitis	No significant difference in the severity score of children hospitalized with bronchiolitis after listening to the KV448.	Acta Pediatrica	-	A patient could participate in the study more than once, i.e., the study design is unsuitable	Not reported and no author response.

Note. Upper case *N* means that one sample underwent different conditions; lower case *n* means that different samples underwent different conditions; t: time of measurement.

References Appendix E

Attanasio, G., Cartocci, G., Covelli, E., Ambrosetti, E., Martinelli, V., Zaccone, M., ... & Cacciafesta, M. (2012). The Mozart effect in patients suffering from tinnitus. *Acta oto-laryngologica*, *132*(11), 1172-1177. https://doi.org/10.3109/00016489.2012.684398

Bedetti, Principi, M., Di Renzo, A., Muti, M., Frondizi, D., Piccirilli, M., D'Alessandro, P., Marchiafava, M., Baglioni, A., Menna, M., Gubbiotti, M., & Elisei, S. (2019). The Effect of Mozart's music in severe epilepsy: Functional and morphological features. *Psychiatria Danubina*, *31*(3), 467–474.

Bodner, M., Turner, R. P., Schwacke, J., Bowers, C., & Norment, C. (2012). Reduction of seizure occurrence from exposure to auditory stimulation in individuals with neurological handicaps: A randomized controlled trial. PLOS ONE, 7(10), e45303. https://doi.org/10.1371/journal.pone.0045303

Coppola, G., Operto, F. F., Caprio, F., Ferraioli, G., Pisano, S., Viggiano, A., & Verrotti, A. (2018). Mozart's music in children with drug-refractory epileptic encephalopathies: comparison of two protocols. *Epilepsy & Behavior*, *78*, 100-103. https://doi.org/10.1016/j.yebeh.2017.09.028

Hughes, J. R., Daaboul, Y., Fino, J. J., & Shaw, G. L. (1998). The “Mozart effect” on epileptiform activity. *Clinical Electroencephalography*, *29*(3), 109-119. https://doi.org/10.1177/155005949802900301

Hughes, J. R., Fino, J. J., & Melyn, M. A. (1999). Is there a chronic change of the “Mozart effect” on epileptiform activity? A case study. *Clin Electroencephalogr*, *30*(2), 44-45. https://doi.org./10.1177/155005949903000204

Kuester, G., Rios, L., Ortiz, A., & Miranda, M. (2010). Effect of music on the recovery of a patient with refractory nonconvulsive status epilepticus. *Epilepsy & Behavior*, *18*(4), 491-493. https://doi.org/10.1016/j.yebeh.2010.06.001

Lahiri, N., & Duncan, J. S. (2007). The Mozart effect: encore. *Epilepsy & Behavior*, *11*(1), 152-153. https://doi.org/10.1016/j.yebeh.2007.04.017

Lin, L. C., Lee, W. T., Wu, H. C., Tsai, C. L., Wei, R. C., Jong, Y. J., & Yang, R. C. (2010). Mozart K. 448 and epileptiform discharges: effect of ratio of lower to higher harmonics. *Epilepsy research*, *89*(2-3), 238-245. https://doi.org/10.1016/j.eplepsyres.2010.01.007

Lin, L. C., Lee, W. T., Wang, C. H., Chen, H. L., Wu, H. C., Tsai, C. L., ... & Yang, R. C. (2011a). Mozart K. 448 acts as a potential add-on therapy in children with refractory

epilepsy. *Epilepsy & Behavior*, *20*(3), 490-493. https://doi.org/10.1016/j.yebeh.2010.12.044

Lin, L. C., Lee, W. T., Wu, H. C., Tsai, C. L., Wei, R. C., Mok, H. K., ... & Yang, R. C. (2011b). The long-term effect of listening to Mozart K. 448 decreases epileptiform discharges in children with epilepsy. *Epilepsy & Behavior*, *21*(4), 420-424. https://doi.org/10.1016/j.yebeh.2011.05.015

Lin, L. C., Lee, M. W., Wei, R. C., Mok, H. K., Wu, H. C., Tsai, C. L., & Yang, R. C. (2012). Mozart k. 545 mimics mozart k. 448 in reducing epileptiform discharges in epileptic children. *Evidence-Based Complementary and Alternative Medicine*, *2012*. https://doi.org/10.1155/2012/607517

Lin, L. C., Chiang, C. T., Lee, M. W., Mok, H. K., Yang, Y. H., Wu, H. C., ... & Yang, R. C. (2013). Parasympathetic activation is involved in reducing epileptiform discharges when listening to Mozart music. *Clinical Neurophysiology*, *124*(8), 1528-1535. https://doi.org/10.1016/j.clinph.2013.02.021

Lin, L. C., Lee, M. W., Wei, R. C., Mok, H. K., & Yang, R. C. (2014a). Mozart K. 448 listening decreased seizure recurrence and epileptiform discharges in children with first unprovoked seizures: a randomized controlled study. *BMC complementary and alternative medicine*, *14*(1), 1-8. https://doi.org/10.1186/1472-6882-14-17

Quon, R. J., Casey, M. A., Camp, E. J., Meisenhelter, S., Steimel, S. A., Song, Y., ... & Jobst, B. C. (2021). Musical components important for the Mozart K448 effect in epilepsy. *Scientific reports*, *11*(1), 1-13. https://doi.org/10.1038/s41598-021-95922-7

Ren, H., Jiang, X., Xu, K., Zou, L., Wang, L., Lu, C., ... & Chen, W. (2019, October). Evaluation of the effects of mozart music on cerebral hemodynamics in preterm infants. In *2019 IEEE Biomedical Circuits and Systems Conference (BioCAS)* (pp. 1-4). IEEE. https://doi.org/10.1109/BIOCAS.2019.8919100

Turner, R. P. (2004). The acute effect of music on interictal epileptiform discharges. *Epilepsy & Behavior*, *5*(5), 662-668. https://doi.org/10.1016/j.yebeh.2004.07.003

Ziv, N., Zagon-Rogel, M., Waisman, Y., Rom, E., Attias, J., & Krause, I. (2022). The effect of environmental Noise Isolation on Bronchiolitis Severity in Hospitalized Children. *Acta Paediatrica*. https://doi.org/10.1111/apa.16437

Appendix F

Description of publication bias detection methods and numeric results

Funnel plot (Light & Pillemer, 1984). Funnel plot was used to display the relationship between study size and effect size (Borenstein, 2021). It is expected, that less precise studies scatter considerably at the bottom of the plot, while more precise studies scatter less at the top due to smaller error variances of larger studies (Harrer et al., 2021). In absence of bias, distributions are symmetrical and shaped like an inverted funnel that is centered around the summary effect size. In the presence of bias, these distributions are non-symmetrical because unprecise estimates (i.e., those with high sampling errors) remain unpublished (Borenstein et al., 2021). In power-enhanced funnel plots (Kossmeier et al., 2020), the study-level statistical power is visualized by different colors (i.e., warmer colors indicating lower and colder colors indicating larger study power).

Trim-and-fill (Duval & Tweedie, 2000). In the trim-and-fill method (Duval & Tweedie, 2000), the number of study effects on the left and right of the summary effect size estimate are ranked according to their strength and subsequently compared by means of a Wilcoxon test (i.e., akin to the idea of assessing funnel plot asymmetry). In cases of asymmetry, the smallest studies of the funnel plot get removed in an iterative procedure, in which each removal is followed by a summary effect reestimation and asymmetry reassessment (Borenstein et al., 2021). Once no more asymmetry is detected, all trimmed study effects are reentered and the ostensibly missing effects are added around the re-estimated study effect (Duval & Tweedie, 2000). I assumed bias if the difference between the meta-analytic summary effects and the adjusted estimate exceeds 20% of the summary effect in either direction following current recommendations (Siegel et al., 2022). Because a minimum of k = 3 studies is required for its application, presently the trim-and-fill method was conducted only for the dependent MO-condition as well as the OM-condition.

Sterne and Egger's regression (Egger et al., 1997; Sterne & Egger, 2005). Sterne and Egger's regression corresponds to a linear regression of the effect size estimate on its standard error (i.e., the precision), weighted by the inverse variance of the effect estimate.
If the intercept differs significantly from zero, Egger's tests indicate funnel plot asymmetry, which may be indicative of dissemination bias or small-study effects (Harrer et al., 2021).

Rank correlation method (Begg & Mazumdar, 1994). The rank correlation approach is based on a non-parametric correlation of the standardized effect size and the variance of the study-specific effect estimate (by the means of Kendall's τ^2; Schwarzer & Rücker, 2010). In absence of bias, no systematic association should be observable between study precision and effect strength (i.e., $p < .10$ is assumed to be indicative of bias; Siegel et al., 2022).

PET-PEESE (Stanley & Doucouliagos, 2014). PET-PEESE can be viewed as an extension of Sterne and Egger's test and comprises two regressions (Cooper et al., 2019). In the first one, the a weighted regression of the effect size on the standard error with an intercept indicating the true effect if the standard error equals to zero represents the precision-effect test (PET; Stanley & Doucouliagos, 2014). If the intercept varies significantly from zero in PET, PEESE (precision-effect-estimate with standard error) is conducted, i.e., a weighted regression of the effect size on the squared standard error and its intercept is interpreted as an effect size estimate (Cooper et al., 2019). Evidence for bias is typically assumed if the difference between the meta-analytic summary effects and the adjusted estimate exceeds 20% of the summary effect in either direction (Siegel et al., 2022). Simulation studies indicate possible limitations of PET-PEESE in presence of small study numbers, small within-study sample sizes, and large heterogeneities (Carter et al., 2019).

Selection model approach (Vevea & Woods, 2005). Selection model approach by Vevea & Woods (2005) is based on four different study weight functions for *p*-values. By the means of this approach we assumed that effect sizes were selected either according to moderate vs. severe and one- vs. two tailed criteria (Pietschnig et al., 2015). In this vein, results would be indicative of publication bias if resulting summary effect estimates differed substantially (i.e., exceeding 20%) between the corrected and the uncorrected estimate (Siegel et al., 2022).

Test of Excess of Significance (Ioannidis & Trikalinos, 2007). Based on the Test of Excess of Significance we evaluate whether there is an excess of studies with statistically significant results, by comparing the expected number of significant studies (based on the assumption that the estimated summary effect corresponds to the true effect) and the observed number of included significant studies (Ioannidis & Trikalinos, 2007).

p-curve (Simonsohn et al., 2014), p-uniform (van Assen et al., 2015), and p-unform* (van Aert & van Assen, in press). *p*-curve is a diagnostic tool that assesses evidence for the

presence of both publication bias as well as *p*-hacking and shows the distribution of statistically significant *p* values (i.e., $p < .05$) within a study set (Harris et al., 2021). The shape of the *p*-curve depends on both the evidential value and the sample size of the included studies. Assuming the null hypothesis that small and large *p*-values are equally likely, a uniformly distributed *p*-curve is expected, indicating no evidential value. Under the alternative hypothesis, however, small and large *p*-values are expected to have unequal probabilities, resulting in a right-skewed curve, indicating the existence of an evidential value (Cooper et al., 2021). Right-skewness is tested by means of binomial tests, which compares the distribution of *p*-values > .025 with the distribution of *p*-values < .025. In order to avoid a loss of information, since binomial test require a dichotomization of the in fact continuous *p*-values, additional continuous test (*Stouffer method*) are performed (Harris et al., 2021). Further, it is possible to assess the evidential value of the available studies by means of 33% power test. In case of a left-skewed curve, a publication bias or *p*-hacking can be assumed and indicates that the values just below .05 are overrepresented in the study set (Cooper et al., 2021). Thresholds of bias indication are based on the idea of combining full and half *p*-curve into a single analysis (Simonsohn et al., 2015), i.e., *p*-value of half *p*-curve > .05 or *p*-values of both half and full *p*-curves > .10 (Siegel et al., 2022).

Both *p*-uniform and *p*-uniform* are based on similar ideas as the *p*-curve method, but the former methods use different approaches to define the fit to the uniform distribution (Cooper et al., 2021). The effect estimation in *p*-uniform* is based on *p*-values of both significant and non-significant studies (Harris et al., 2021). All three methods estimate an adjusted summary effect size by means of published significant (*p*-curve and *p*-uniform) or published significant and non-significant *p*-values (*p*-uniform*). Furthermore, *p*-uniform and *p*-uniform* provide a means to calculate confidence intervals. Of note, it should be considered that *p*-value based methods for detecting publication bias tend to overestimate the effect size of the evidential value (Cooper et al., 2021).

Table S4. Numeric outcomes of publication bias detection methods except power-enhanced funnel-plots.

Method	Independent MO-condition (k = 2)	Dependent MO-condition (k = 6)	OM condition (k = 5)
Trim-And-Fill	NA	adjusted estimate = 0.068 unadjusted estimate = 0.157 56% change	adjusted estimate = 0.088 unadjusted estimate = 0.088 0% change
Rank correlation	τ = -1.00 p = 1.00	τ = 0.60 p = .136	τ = 0.40 p = .483
Egger's regression	NA	Z = 1.31 p = .19	Z = 0.982 p = .326
PET-PEESE	NA	<u>PET</u> intercept = -0.156 p = .503 <u>PEESE</u> intercept = -0.014 p = .914	<u>PET</u> intercept = -0.317 p = .477 <u>PEESE</u> intercept = -0.151 p = .556
Selection Model	moderate one tailed: 51% severe one tailed: 183% moderate two tailed: 7% severe two tailed: 15%	moderate one tailed: 29% severe one tailed: 66% moderate two tailed: 13% severe two tailed: 28%	moderate one tailed: 129% severe one tailed: 302% moderate two tailed: 15% severe two tailed: 32%
Test of Excess Significance	p = .035	p = .458	p = .257
p-curve	continuous tests yielded p's < .001 for evidential value indication and p's	continuous tests yielded p = .449 and p = .699 for evidential value indication	NA

	>.999 for *p*-hacking indication; estimated statistical power: 99%	and *p* = .429 and *p* = .692 *p*-hacking indication; estimated statistical power: 13%	
p-uniform	*Z* = > 0.001 *p* = .5	NA	NA
p-uniform*	*Z* = 0.323 *p* = .851	*Z* = 0.067 *p* = .410	*Z* = 0.021 *p* = .989

Note. NA = method was not feasible; results indicating publication bias are marked in red.

References Appendix F

Begg, C. B., & Mazumdar, M. (1994). Operating characteristics of a rank correlation test for publication bias. *Biometrics*, 1088-1101. https://doi.org/10.2307/2533446

Borenstein, M., Hedges, L. V., Higgins, J. P., & Rothstein, H. R. (2021). Introduction to meta-analysis. *John Wiley & Sons*.

Carter, E. C., Schönbrodt, F. D., Gervais, W. M., & Hilgard, J. (2019). Correcting for Bias in Psychology: A Comparison of Meta-Analytic Methods. *Advances in Methods and Practices in Psychological Science*, *2*(2), 115-144. https://doi.org/10.1177/2515245919847196

Cooper, H., Hedges, L. V., & Valentine, J. C. (2019). The handbook of research synthesis and meta-analysis. *Russell Sage Foundation*.

Duval, S., & Tweedie, R. (2000). Trim and fill: a simple funnel-plot–based method of testing and adjusting for publication bias in meta-analysis. *Biometrics*, *56*(2), 455-463. https://doi.org/10.1111/j.0006-341X.2000.00455.x

Egger, M., Smith, G. D., Schneider, M., & Minder, C. (1997). Bias in meta-analysis detected by a simple, graphical test. *BMJ*, *315*(7109), 629-634. https://doi.org/10.1136/bmj.315.7109.629

Harrer, M., Cuijpers, P., Furukawa, T. A., & Ebert, D. D. (2021). Doing meta-analysis with R: A hands-on guide. *Chapman and Hall/CRC*.

Ioannidis, J. P., & Trikalinos, T. A. (2007). An exploratory test for an excess of significant findings. *Clinical trials*, *4*(3), 245-253. https://doi.org/10.1177/1740774507079441

Kossmeier, M., Tran, U. S., & Voracek, M. (2020). Power-enhanced funnel plots for meta-analysis: The sunset funnel plot. *Zeitschrift für Psychologie*, 228(1), 43. https://doi.org/10.1027/2151-2604/a000392

Lau, J., Ioannidis, J. P., Terrin, N., Schmid, C. H., & Olkin, I. (2006). The case of the misleading funnel plot. *BMJ*, *333*(7568), 597-600. https://doi.org/10.1136/bmj.333.7568.597

Marks-Anglin, A., & Chen, Y. (2020). A historical review of publication bias. *Research synthesis methods*, *11*(6), 725-742. https://doi.org/10.1002/jrsm.1452

Pietschnig, J., Penke, L., Wicherts, J. M., Zeiler, M., & Voracek, M. (2015). Meta-analysis of associations between human brain volume and intelligence differences: How strong are they and what do they mean? *Neuroscience & Biobehavioral Reviews*, *57*, 411-432. https://doi.org/10.1016/j.neubiorev.2015.09.017

Schwarzer, G., & Rücker, G. (2010). Statistische Methoden zur Detektion und Adjustierung von Publikationsbias. *Zeitschrift für Evidenz, Fortbildung und Qualität im Gesundheitswesen*, 104(4), 306-313. https://doi.org/10.1016/j.zefq.2010.03.016

Simonsohn, U., Nelson, L. D., & Simmons, J. P. (2014). p-curve and effect size: Correcting for publication bias using only significant results. *Perspectives on Psychological Science*, *9*(6), 666-681. https://doi.org/10.1177/174569161455398

Simonsohn, U., Simmons, J. P., & Nelson, L. D. (2015). Better P-curves: Making P-curve analysis more robust to errors, fraud, and ambitious P-hacking, a Reply to Ulrich and Miller (2015). *Journal of Experimental Psychology: General*, *144*(6), 1146–1152. https://doi.org/10.1037/xge0000104

Shi, L., & Lin, L. (2019). The trim-and-fill method for publication bias: practical guidelines and recommendations based on a large database of meta-analyses. *Medicine (Baltimore)*, *98*(23), e15987. https://doi.org/10.1097/md.0000000000015987

Siegel, M., Eder, J. S. N., Wicherts, J. M., & Pietschnig, J. (2022). Times are changing, bias isn't: A meta-meta-analysis on publication bias detection practices, prevalence rates, and predictors in industrial/organizational psychology. *Journal of Applied Psychology, 107*(11), 2013-2039. https://doi.org/10.1037/apl0000991

Stanley, T. D., & Doucouliagos, H. (2014). Meta-regression approximations to reduce publication selection bias. *Research synthesis methods*, *5*(1), 60-78. https://doi.org/10.1002/jrsm.1095

van Aert, R. C., & van Assen, M. A. (in press). Correcting for publication bias in a meta-analysis with the *p*-uniform* method. https://doi.org/10.31222/osf.io/zqjr9

van Assen, M. A., van Aert, R., & Wicherts, J. M. (2015). Meta-analysis using effect size distributions of only statistically significant studies. *Psychological methods*, *20*(3), 293. https://doi.org/10.1037/met0000025

Vevea, J. L., & Woods, C. M. (2005). Publication bias in research synthesis: sensitivity analysis using a priori weight functions. *Psychological methods*, *10*(4), 428. https://doi.org/10.1037/1082-989X.10.4.428

Appendix G

R-Code

```
################################################################################
# file needed: data_final_ME
################################################################################

# libraries ----

library(clubSandwich)
library(data.table)
library(plyr)
library(dplyr)
library(foreign)
library(ggplot2)
library(ggpubr)
library(grid)
library(gridExtra)
library(gsl)
library(haven)
library(Matrix)
library(metafor)
library(metaviz)
library(psychmeta)
library(puniform)
library(readxl)
library(robumeta)
library(SciViews)
library(stringr)
library(writexl)

# import data ----
data <- setDT(read_xlsx(file.choose()))

# prepare data ----

data$sample <- as.factor(data$sample)
data$treatment_condition <- as.factor <- data$treatment_condition
data$publication_status <- as.factor(data$publication_status)
data$publisher <- as.factor(data$publisher)
data$manuscript_type<- as.factor(data$manuscript_type)
data$peer_reviewed <- as.factor(data$peer_reviewed)
data$funding_yn <- as.factor(data$funding_yn)
data$previously_included <- as.factor(data$previously_included)
data$geographic_location <- as.factor(data$geographic_location)
data$sample_type <- as.factor(data$sample_type)
data$measured_disease <- as.factor(data$measured_disease)
data$epilepsy_measurement <- as.factor(data$epilepsy_measurement)
data$seizure_type <- as.factor(data$seizure_type)
data$measurement_method <- as.factor(data$measurement_method)
```

```
data$MO_sonata <- as.factor(data$MO_sonata)
data$OM_kind <- as.factor(data$OM_kind)
data$more_than_once <- as.factor(data$more_than_once)
data$state_exposure <- as.factor(data$state_exposure)
data$time_of_exposure <- as.factor(data$time_of_exposure)
```

 # effect size calculation ----

```
## for studies with two groups

## calculated d with psychometrica ("3. Effect size for mean differences in groups with
unequal sample
## sizes within a pre-post control design"; https://www.psychometrica.de/effect_size.html)

## calculate variance for ES and transform into standard error (Cooper et al., 2019)
n1 <- #sample size 1
n2 <- #sample size 2
d <-  #effect size in Cohen's d

V <- (n1+n2)/(n1*n2) + (d^2 / (2*(n1+n2)))
V

se <- sqrt(V)
se


## for studies with one group + 2 measurement points pre-post  (Cooper et al., 2019)

n <- #number of participants
mean1 <- #pre mean
S1 <- #pre sd
mean2 <- #post mean
S2 <- #post sd

SW <- sqrt((S1^2 + S2^2)/2) #calculate within standard deviation
SW

d <- (mean1 - mean2) / SW #Cohen's d
d
r <-   0.5 #correlation pre and post test (if not available - use imputed 0.5)
vd <- ((1/n) + (d^2 / (2*n)))*(2*(1-r)) #variance d
vd

## to get an unbiased estimate (d has a slight bias, since it tends to overestimate the effect of
small samples):
## multiply d with correction factor (J) to get Hedges'g

df <- n - 1
J <- 1 - (3/((4*df) - 1)) #correcter
g <- d * J #Hedges'g
g
```

```
vg <- J^2 * vd #variance Hedges'g
vg
se <- sqrt(vg) #standard error Hedges'g
se

# extract data sets ----

two_sample_data <- data[sample %in% "two", ]
two_sample_data_MONM <- two_sample_data[treatment_condition %in% "MO-NM", ]

one_sample_data <- data[sample %in% "one", ]
one_sample_data_MONM <- one_sample_data[treatment_condition %in% "MO-NM", ]

one_sample_data <- data[sample %in% "one", ]
one_sample_data_OMNM <- one_sample_data[treatment_condition %in% "OM-NM", ]

## write spss files for meta shine (Siegel et al., 2021)

#write_sav(two_sample_data_MONM, path)
#write_sav(one_sample_data_MONM, path)
#write_sav(one_sample_data_OMNM, path)

# random-effects models ----

##RMA - two_sample_data MO-NM
two_sample_model <- rma(es, V, data = two_sample_data_MONM, method = "REML")

##forest plot
png(filename="TWO_groups_forest_plot.png", res=350, width=3196, height=1648)
forest(two_sample_model,
       slab = two_sample_data_MONM$author_names,
       addcred = TRUE, #addcred: prediction interval
       col = "navyblue",
       xlab = "Hedges'g",
       mlab = expression("RE Model, p = .524"),
       steps = 5,
       cex = .9)

# Add column headings to the plot
text(-6.3, 4.2, "Study name", pos = 4, cex = .9)
text(6.9, 4.2, "Hedges' g [95% CI]", pos = 2, cex = .9)


par(cex = .9, font = 2)
text(0, 6, "Independent MO-condition", pos = 1, cex = 1)

dev.off()


##RMA - one_sample_data MO-NM
```

```
one_sample_model_MONM <- rma(es, V, data = one_sample_data_MONM, method =
"REML")

##forest plot
png(filename="ONE_group_forest_plot_MONM.png", res=350, width=3196, height=1648)
forest(one_sample_model_MONM,
      slab = one_sample_data_MONM$author_names,
      addcred = TRUE, #addcred: prediction interval
      col = "navyblue",
      xlab = "Hedges'g",
      mlab = "RE Model, p = .127",
      steps = 5,
      cex = .9)

# Add column headings to the plot
text(-3.8, 7.4, "Study name", pos = 4, cex = .9)
text(5.2, 7.4, "Hedges' g [95% CI]", pos = 2, cex = .9)


par(cex = .9, font = 2)
text(0.4, 9.5, "Dependent MO-condition", pos = 1, cex = 1)

dev.off()

##RMA - one_sample_data OM-NM
one_sample_model_OMNM <- rma(es, V, data = one_sample_data_OMNM, method =
"REML")

##forest plot
png(filename="ONE_group_forest_plot_OMNM.png", res=350, width=3196, height=1648)
forest(one_sample_model_OMNM,
      slab = one_sample_data_OMNM$author_names,
      addcred = TRUE, #addcred: prediction interval
      col = "navyblue",
      xlab = "Hedges'g",
      mlab = "RE Model, p = .581",
      steps = 5,
      cex = .9)

# Add column headings to the plot
text(-3.5, 6.3, "Study name", pos = 4, cex = .9)
text(4.05, 6.3, "Hedges'g [95% CI]", pos = 2, cex = .9)


par(cex = .9, font = 2)
text(0.1, 8.5, "OM-condition", pos = 1, cex = 1)

dev.off()
```

```
# robustness estimation leave-one-out ----

##LOO - two_sample_data MO-NM
leave1out(two_sample_model, digits = 3)

##LOO - one_sample_data MO-NM
leave1out(one_sample_model_MONM, digits = 3)

##LOO - one_sample_data OM-NM
leave1out(one_sample_model_OMNM, digits = 3)

# subgroup analysis ----

##SA - one_sample_data MO-NM
###measure
one_sample_data_MONM_measure_SF <- one_sample_data_MONM[reduction_topic %in%
"seizure frequency", ]
rma(es, V, data = one_sample_data_MONM_measure_SF, method = "REML", digits = 3)

one_sample_data_MONM_measure_IED <- one_sample_data_MONM[reduction_topic
%in% "epileptic discharges", ]
rma(es, V, data = one_sample_data_MONM_measure_IED, method = "REML", digits = 3)

###funding
one_sample_data_MONM_NR <- one_sample_data_MONM[funding_yn %in% "NR" |
funding_yn %in% "no", ]
rma(es, V, data = one_sample_data_MONM_NR, method = "REML", digits = 3)

one_sample_data_MONM_yes <- one_sample_data_MONM[funding_yn %in% "yes", ]
rma(es, V, data = one_sample_data_MONM_yes, method = "REML", digits = 3)

###sample type
one_sample_data_MONM_adult <- one_sample_data_MONM[sample_type %in% "adults", ]
rma(es, V, data = one_sample_data_MONM_adult, method = "REML", digits = 3)

one_sample_data_MONM_mixed <- one_sample_data_MONM[sample_type %in% "mixed",
]
rma(es, V, data = one_sample_data_MONM_mixed, method = "REML", digits = 3)

###seizure type
one_sample_data_MONM_gf <- one_sample_data_MONM[seizure_type %in%
"generalized_focal", ]
rma(es, V, data = one_sample_data_MONM_gf, method = "REML", digits = 3)

one_sample_data_MONM_NR <- one_sample_data_MONM[seizure_type !=
"generalized_focal", ]
rma(es, V, data = one_sample_data_MONM_NR, method = "REML", digits = 3)
```

```
##SA - one_sample_data OM-NM
###measure
one_sample_data_OMNM_measure_SF <- one_sample_data_OMNM[reduction_topic %in%
"seizure frequency", ]
rma(es, V, data = one_sample_data_OMNM_measure_SF, method = "REML", digits = 3)

one_sample_data_OMNM_measure_IED <- one_sample_data_OMNM[reduction_topic
%in% "epileptic discharges", ]
rma(es, V, data = one_sample_data_OMNM_measure_IED, method = "REML", digits = 3)

###funding
one_sample_data_OMNM_NR <- one_sample_data_OMNM[funding_yn %in% "NR" |
funding_yn %in% "no", ]
rma(es, V, data = one_sample_data_OMNM_NR, method = "REML", digits = 3)

one_sample_data_OMNM_yes <- one_sample_data_OMNM[funding_yn %in% "yes", ]
rma(es, V, data = one_sample_data_OMNM_yes, method = "REML", digits = 3)

###sample type
one_sample_data_OMNM_adult <- one_sample_data_OMNM[sample_type %in% "adults", ]
rma(es, V, data = one_sample_data_OMNM_adult, method = "REML", digits = 3)

one_sample_data_OMNM_children <- one_sample_data_OMNM[sample_type != "adults", ]
rma(es, V, data = one_sample_data_OMNM_children, method = "REML", digits = 3)

###type of control music

one_sample_data_OMNM_classic <- one_sample_data_OMNM[OM_kind %in% "set of
mozart music" | OM_kind %in% "haydn's symphony no. 94", ]
rma(es, V, data = one_sample_data_OMNM_classic, method = "REML", digits = 3)

one_sample_data_OMNM_othercthanlassic <- one_sample_data_OMNM[OM_kind %in%
"scambled version KV448" | OM_kind %in% "non classical", ]
rma(es, V, data = one_sample_data_OMNM_othercthanlassic, method = "REML", digits = 3)

# meta-regression ----

##MR - two_sample_data MO-NM

###publication year
py.two_reg <- rma(es, V, mods = ~publication_year, data = two_sample_data_MONM,
method = "REML", digits = 3)
###age
age.two_reg <- rma(es, V, mods = ~age_mean_overall, data = two_sample_data_MONM,
method = "REML", digits = 3)
###sex
sex.two_reg <- rma(es, V, mods = ~percentage_male_mean_overall, data =
two_sample_data_MONM, method = "REML", digits = 3)
###duration of exposure
dur.two_reg <- rma(es, V, mods = ~dauration_exposure_sec_1, data =
two_sample_data_MONM, method = "REML", digits = 3)
```

```
##MR - one_sample_data MO-NM

###publication year
py.oneMO_reg <- rma(es, V, mods = ~publication_year, data = one_sample_data_MONM,
method = "REML", digits = 3)
###age
age.oneMO_reg <- rma(es, V, mods = ~age_mean_overall, data = one_sample_data_MONM,
method = "REML", digits = 3)
###sex
sex.oneMO_reg <- rma(es, V, mods = ~percentage_male_mean_overall, data =
one_sample_data_MONM, method = "REML", digits = 3)
###duration of exposure
dur.oneMO_reg <- rma(es, V, mods = ~dauration_exposure_sec_1, data =
one_sample_data_MONM, method = "REML", digits = 3)

##MR - one_sample_data OM-NM

###publication year
py.oneOM_reg <- rma(es, V, mods = ~publication_year, data = one_sample_data_OMNM,
method = "REML", digits = 3)
###age
age.oneOM_reg <- rma(es, V, mods = ~age_mean_overall, data = one_sample_data_OMNM,
method = "REML", digits = 3)
###sex
sex.oneOM_reg <- rma(es, V, mods = ~percentage_male_mean_overall, data =
one_sample_data_OMNM, method = "REML", digits = 3)
###duration of exposure
dur.oneOM_reg <- rma(es, V, mods = ~dauration_exposure_sec_1, data =
one_sample_data_OMNM, method = "REML", digits = 3)

# publication bias ----

#inclusion of published studies only
two_sample_data <- data[sample %in% "two", ]
two_sample_data_MONM <- two_sample_data[treatment_condition %in% "MO-NM", ]
two_sample_data_MONM_PB <- two_sample_data_MONM[publication_status %in%
"published", ]

# write spss files for meta shine (Pietschnig et al., 2020)
#write_sav(two_sample_data_MONM_PB, "/Users/sandroberleiter/Desktop/Master
Thesis/18_data/01_spss/two_sample_data_MONM_PB.sav")

one_sample_data <- data[sample %in% "one", ]
one_sample_data_MONM <- one_sample_data[treatment_condition %in% "MO-NM", ]

one_sample_data <- data[sample %in% "one", ]
one_sample_data_OMNM <- one_sample_data[treatment_condition %in% "OM-NM", ]

## one_sample_data_MONM
```

```
one_sample_model_MONM <- rma(es, V, data = one_sample_data_MONM, method =
"REML")

###PET-PEESE
one_sample_data_MONM$seq <- one_sample_data_MONM$se^2
one_sample_data_MONM$weights <- 1 / one_sample_data_MONM$se^2

pet <- lm(es ~ se, weights = weights, data = one_sample_data_MONM)
summary(pet)$coefficients

peese <- lm(es ~ seq, weights = weights, data = one_sample_data_MONM)
summary(peese)$coefficients

###Test of Excess Significance

toe <- tes(one_sample_data_MONM$es, one_sample_data_MONM$V,
one_sample_data_MONM$se)
summary(toe)
toe$sig

####study 3 identified as significant -> paired t-test for p-curve

#values: Raffiee et al., 2019 Group A
t0 <-  c(11, 6, 20, 13, 5)
t1 <-  c(4, 4, 7.5, 8, 0)

t.test(t0, t1, paired = TRUE)

###p-uniform ##ERROR

puniform(yi=one_sample_data_MONM$es, vi = one_sample_data_MONM$V,
ni=one_sample_data_MONM$N, alpha=.05, side="left", method="P", plot = TRUE)

## one_sample_data_OMNM

###PET-PEESE
one_sample_data_OMNM$seq <- one_sample_data_OMNM$se^2
one_sample_data_OMNM$weights <- 1 / one_sample_data_OMNM$se^2

pet <- lm(es ~ se, weights = weights, data = one_sample_data_OMNM)
summary(pet)$coefficients

peese <- lm(es ~ seq, weights = weights, data = one_sample_data_OMNM)
summary(peese)$coefficients

###Test of Excess Significance

tes(one_sample_data_OMNM$es, one_sample_data_OMNM$V,
one_sample_data_OMNM$se)
```

```
###p-uniform ##ERROR

puniform(yi=one_sample_data_OMNM$es, vi = one_sample_data_OMNM$V,
ni=one_sample_data_OMNM$N, alpha=.05, side="left", method="P", plot = TRUE)


# specification curve (Voracek et al., 2019) ----

data <- setDT(read_xlsx(file.choose())) #data_final_SPECIFICATION

## prepare data
data$sample <- as.factor(data$sample)
data$treatment_condition <- as.factor <- data$treatment_condition
data$funding_yn <- as.factor(data$funding_yn)
data$sample_type <- as.factor(data$sample_type)
data$measured_disease <- as.factor(data$measured_disease)
data$seizure_type <- as.factor(data$seizure_type)
data$measurement_method <- as.factor(data$measurement_method)
data$exposure_more_than_once <- as.factor(data$exposure_more_than_once)

two_sample_data <- data[sample %in% "two", ]
two_sample_data_MONM <- two_sample_data[treatment_condition %in% "MO-NM", ]

one_sample_data <- data[sample %in% "one", ]
one_sample_data_MONM <- one_sample_data[treatment_condition %in% "MO-NM", ]

one_sample_data <- data[sample %in% "one", ]
one_sample_data_OMNM <- one_sample_data[treatment_condition %in% "OM-NM", ]

##one_sample_data MO-NM
x <- two_sample_data_MONM

### "which" factors

measured_disease <- c("epilepsy", "disease_other", "disease_either")
measurement_method <- c("EEG", "measurement_other", "measurement_either")
exposure_more_than_once <- c("exposure_yes", "exposure_no", "exposure_either")
sample_type <- c("kids", "adults", "sample_either")
funding <- c("NR", "yes", "no", "either")

### "how" factors
effect <- c("g", "d")
ma_method <- c("FE", "HedgesOlkin(REML)", "HunterSchmidt")

### construct all possible combinations of internal and external factors
specifications <- expand.grid(measured_disease = measured_disease,
                              measurement_method = measurement_method,
                              exposure_more_than_once = exposure_more_than_once,
                              sample_type = sample_type,
                              funding = funding,
                              effect = effect,
```

```
                        ma_method = ma_method)
specifications <- data.frame(specifications,
                        mean = rep(NA, nrow(specifications)),
                        set = rep(NA, nrow(specifications)),
                        lb = rep(NA, nrow(specifications)),
                        ub = rep(NA, nrow(specifications)),
                        p = rep(NA, nrow(specifications)),
                        k = rep(NA, nrow(specifications)))


specifications

### conduct specification analyses
for(i in 1:nrow(specifications)) {
  dat <- x

  if(specifications$measured_disease[i] == "epilepsy") {
    dat <- dat[dat$measured_disease == "epilepsy", ]
  } else {
    if(specifications$measured_disease[i] == "disease_other") {
      dat <- dat[dat$measured_disease == "other", ]
    }
  }
  if(specifications$measurement_method[i] == "EEG") {
    dat <- dat[dat$measurement_method== "EEG", ]
  } else {
    if(specifications$measurement_method[i] == "measurement_other") {
      dat <- dat[dat$measurement_method == "other", ]
    }
  }
  if(specifications$exposure_more_than_once[i] == "exposure_no") {
    dat <- dat[dat$exposure_more_than_once == "no", ]
  } else {
    if(specifications$exposure_more_than_once[i] == "exposure_yes") {
      dat <- dat[dat$exposure_more_than_once == "yes", ]
    }
  }
  if(specifications$sample_type[i] == "adults") {
    dat <- dat[dat$sample_type == "adults", ]
  } else {
    if(specifications$sample_type[i] == "kids") {
      dat <- dat[dat$sample_type == "kids", ]
    }
  }
  if(specifications$funding[i] == "yes") {
    dat <- dat[dat$funding == "yes", ]
  } else {
    if(specifications$funding[i] == "no") {
      dat <- dat[dat$funding == "no", ]
    } else {
      if(specifications$funding[i] == "NR") {
```

```
      dat <- dat[dat$funding == "NR", ]
    }
   }
  }


  ### only compute meta-analytic summary effects for specification subsets with at least two
studies/samples.
  if(nrow(dat) < 2) next

  ### save which study/sample IDs were selected by the "Which" factors for a given
specification.
  specifications$set[i] <- paste(rownames(dat), collapse = ",")

  if(specifications$effect[i] == "g") {
   if(specifications$ma_method[i] == "HedgesOlkin(REML)") {
    mod <- rma(yi = dat$g, vi = dat$V_g, method = "REML", control = list(stepadj=0.5,
maxiter = 2000))
   } else {
    if(specifications$ma_method[i] == "HunterSchmidt") {
     mod <- rma(yi = dat$g, vi = dat$V_g, method = "HS", weights = dat$N)
    } else {
     if(specifications$ma_method[i] == "FE") {
      mod <- rma(yi = dat$g, vi = dat$V_g, method = "FE")
     }
    }
   }
   specifications$mean[i] <- mod$b[[1]]
   specifications$lb[i] <- mod$ci.lb[[1]]
   specifications$ub[i] <- mod$ci.ub[[1]]
   specifications$p[i] <- mod$pval[[1]]
   specifications$k[i] <- nrow(dat)

  } else {
   if(specifications$effect[i] == "d") {
    if(specifications$ma_method[i] == "HedgesOlkin(REML)") {
     mod <- rma(yi = dat$d, vi = dat$V_d, method = "REML", control = list(stepadj=0.5,
maxiter = 2000))
    } else {
     if(specifications$ma_method[i] == "HunterSchmidt") {
      mod <- rma(yi = dat$d, vi = dat$V_d, method = "HS", weights = dat$N)
     } else {
      if(specifications$ma_method[i] == "FE") {
       mod <- rma(yi = dat$d, vi = dat$V_d, method = "FE")
      }
     }
    }
    specifications$mean[i] <- mod$b[[1]]
    specifications$lb[i] <- mod$ci.lb[[1]]
    specifications$ub[i] <- mod$ci.ub[[1]]
    specifications$p[i] <- mod$pval[[1]]
```

```
    specifications$k[i] <- nrow(dat)
   }
  }
}

specifications_full <- specifications[complete.cases(specifications),]
### only keep unique study/sample subsets resulting from "Which" factor combinations.
specifications_full <- specifications_full[!duplicated(specifications_full[, c("mean", "set",
"ma_method", "effect")]), ]

#write_xlsx(path = "specifications_twoMONM.xlsx", x = specifications_full)

##one_sample_data MO-NM
##one_sample_data MO-NM
x <- one_sample_data_MONM

### "which" factors
seizure_type <- c("generalized_focal", "seizure_mixed", "seizure_either")
measurement_method <- c("EEG", "seizure_frequency_observation", "measurement_either")
sample_type <- c("adults", "mixed", "sample_either")
funding <- c("yes", "NR", "either")

### "how" factors
effect <- c("g", "d")
ma_method <- c("FE", "HedgesOlkin(REML)", "HunterSchmidt")

### construct all possible combinations of internal and external factors
specifications <- expand.grid(seizure_type = seizure_type,
                              measurement_method = measurement_method,
                              sample_type = sample_type,
                              funding = funding,
                              effect = effect,
                              ma_method = ma_method)
specifications <- data.frame(specifications,
                             mean = rep(NA, nrow(specifications)),
                             set = rep(NA, nrow(specifications)),
                             lb = rep(NA, nrow(specifications)),
                             ub = rep(NA, nrow(specifications)),
                             p = rep(NA, nrow(specifications)),
                             k = rep(NA, nrow(specifications)))


specifications

### conduct specification analyses
for(i in 1:nrow(specifications)) {
  dat <- x

  if(specifications$seizure_type[i] == "generalized_focal") {
    dat <- dat[dat$seizure_type == "generalized_focal", ]
  } else {
```

```
    if(specifications$seizure_type[i] == "seizure_mixed") {
      dat <- dat[dat$seizure_type == "mixed", ]
    }

  }
  if(specifications$measurement_method[i] == "EEG") {
    dat <- dat[dat$measurement_method== "EEG", ]
  } else {
    if(specifications$measurement_method[i] == "seizure_frequency_observation") {
      dat <- dat[dat$measurement_method == "seizure_frequency_observation", ]
    }
  }
  if(specifications$sample_type[i] == "adults") {
    dat <- dat[dat$sample_type == "adults", ]
  } else {
    if(specifications$sample_type[i] == "mixed") {
      dat <- dat[dat$sample_type == "mixed", ]
    }
  }

  if(specifications$funding[i] == "yes") {
    dat <- dat[dat$funding == "yes", ]
  } else {
    if(specifications$funding[i] == "NR") {
      dat <- dat[dat$funding == "NR", ]
    }
  }


  ### only compute meta-analytic summary effects for specification subsets with at least two
studies/samples.
  if(nrow(dat) < 2) next

  ### save which study/sample IDs were selected by the "Which" factors for a given
specification.
  specifications$set[i] <- paste(rownames(dat), collapse = ",")

  if(specifications$effect[i] == "g") {
    if(specifications$ma_method[i] == "HedgesOlkin(REML)") {
      mod <- rma(yi = dat$g, vi = dat$V_g, method = "REML", control = list(stepadj=0.5,
maxiter = 2000))
    } else {
      if(specifications$ma_method[i] == "HunterSchmidt") {
        mod <- rma(yi = dat$g, vi = dat$V_g, method = "HS", weights = dat$N)
      } else {
        if(specifications$ma_method[i] == "FE") {
          mod <- rma(yi = dat$g, vi = dat$V_g, method = "FE")
        }
      }
    }
    specifications$mean[i] <- mod$b[[1]]
```

```
    specifications$lb[i] <- mod$ci.lb[[1]]
    specifications$ub[i] <- mod$ci.ub[[1]]
    specifications$p[i] <- mod$pval[[1]]
    specifications$k[i] <- nrow(dat)

  } else {
    if(specifications$effect[i] == "d") {
      if(specifications$ma_method[i] == "HedgesOlkin(REML)") {
        mod <- rma(yi = dat$d, vi = dat$V_d, method = "REML", control = list(stepadj=0.5,
maxiter = 2000))
      } else {
        if(specifications$ma_method[i] == "HunterSchmidt") {
          mod <- rma(yi = dat$d, vi = dat$V_d, method = "HS", weights = dat$N)
        } else {
          if(specifications$ma_method[i] == "FE") {
            mod <- rma(yi = dat$d, vi = dat$V_d, method = "FE")
          }
        }
      }
      specifications$mean[i] <- mod$b[[1]]
      specifications$lb[i] <- mod$ci.lb[[1]]
      specifications$ub[i] <- mod$ci.ub[[1]]
      specifications$p[i] <- mod$pval[[1]]
      specifications$k[i] <- nrow(dat)
    }
  }
}


specifications_full <- specifications[complete.cases(specifications),]
### only keep unique study/sample subsets resulting from "Which" factor combinations.
specifications_full <- specifications_full[!duplicated(specifications_full[, c("mean", "set",
"ma_method", "effect")]), ]

#Write_xlsx(path = "specifications_ONEMONM.xlsx", x = specifications_full)

##one_sample_data OM-NM
##one_sample_data OM-NM
x <- one_sample_data_OMNM

### "which" factors
seizure_type <- c("seizure_mixed", "other", "seizure_either")
measurement_method <- c("EEG", "seizure_frequency_observation", "measurement_either")
exposure_more_than_once <- c("exposure_yes", "exposure_either")
sample_type <- c("kids", "adults", "sample_either")
funding <- c("yes", "no", "either")
OM_kind <- c("other_classical", "scrambled_KV448", "OM_either")

### "how" factors
effect <- c("g", "d")
ma_method <- c("FE", "HedgesOlkin(REML)", "HunterSchmidt")
```

```
### construct all possible combinations of internal and external factors
specifications <- expand.grid(seizure_type = seizure_type,
                              measurement_method = measurement_method,
                              exposure_more_than_once = exposure_more_than_once,
                              sample_type = sample_type,
                              funding = funding,
                              effect = effect,
                              ma_method = ma_method,
                              OM_kind = OM_kind)
specifications <- data.frame(specifications,
                             mean = rep(NA, nrow(specifications)),
                             set = rep(NA, nrow(specifications)),
                             lb = rep(NA, nrow(specifications)),
                             ub = rep(NA, nrow(specifications)),
                             p = rep(NA, nrow(specifications)),
                             k = rep(NA, nrow(specifications)))


specifications

### conduct specification analyses
for(i in 1:nrow(specifications)) {
  dat <- x

  if(specifications$seizure_type[i] == "seizure_mixed") {
    dat <- dat[dat$seizure_type == "mixed", ]
  } else {
    if(specifications$seizure_type[i] == "other") {
      dat <- dat[dat$seizure_type == "other", ]
    }
  }
  if(specifications$measurement_method[i] == "EEG") {
    dat <- dat[dat$measurement_method== "EEG", ]
  } else {
    if(specifications$measurement_method[i] == "seizure_frequency_observation") {
      dat <- dat[dat$measurement_method == "seizure_frequency_observation", ]
    }
  }
  if(specifications$exposure_more_than_once[i] == "exposure_yes") {
    dat <- dat[dat$exposure_more_than_once == "yes", ]
  }
  if(specifications$sample_type[i] == "adults") {
    dat <- dat[dat$sample_type == "adults", ]
  } else {
    if(specifications$sample_type[i] == "kids") {
      dat <- dat[dat$sample_type == "kids", ]
    }
  }
  if(specifications$funding[i] == "yes") {
    dat <- dat[dat$funding == "yes", ]
```

```
  } else {
   if(specifications$funding[i] == "no") {
    dat <- dat[dat$funding == "no", ]
   }
  }

  if(specifications$OM_kind[i] == "scrambled_KV448") {
   dat <- dat[dat$OM_kind == "scrambled_KV448", ]
  } else {
   if(specifications$OM_kind[i] == "other_classical") {
    dat <- dat[dat$OM_kind == "other_classical", ]
   }
  }


  ### only compute meta-analytic summary effects for specification subsets with at least two
studies/samples.
  if(nrow(dat) < 2) next

  ### save which study/sample IDs were selected by the "Which" factors for a given
specification.
  specifications$set[i] <- paste(rownames(dat), collapse = ",")

  if(specifications$effect[i] == "g") {
   if(specifications$ma_method[i] == "HedgesOlkin(REML)") {
    mod <- rma(yi = dat$g, vi = dat$V_g, method = "REML", control = list(stepadj=0.5,
maxiter = 2000))
   } else {
    if(specifications$ma_method[i] == "HunterSchmidt") {
     mod <- rma(yi = dat$g, vi = dat$V_g, method = "HS", weights = dat$N)
    } else {
     if(specifications$ma_method[i] == "FE") {
      mod <- rma(yi = dat$g, vi = dat$V_g, method = "FE")
     }
    }
   }
   specifications$mean[i] <- mod$b[[1]]
   specifications$lb[i] <- mod$ci.lb[[1]]
   specifications$ub[i] <- mod$ci.ub[[1]]
   specifications$p[i] <- mod$pval[[1]]
   specifications$k[i] <- nrow(dat)

  } else {
   if(specifications$effect[i] == "d") {
    if(specifications$ma_method[i] == "HedgesOlkin(REML)") {
     mod <- rma(yi = dat$d, vi = dat$V_d, method = "REML", control = list(stepadj=0.5,
maxiter = 2000))
    } else {
     if(specifications$ma_method[i] == "HunterSchmidt") {
      mod <- rma(yi = dat$d, vi = dat$V_d, method = "HS", weights = dat$N)
     } else {
```

```
        if(specifications$ma_method[i] == "FE") {
          mod <- rma(yi = dat$d, vi = dat$V_d, method = "FE")
        }
       }
     }
     specifications$mean[i] <- mod$b[[1]]
     specifications$lb[i] <- mod$ci.lb[[1]]
     specifications$ub[i] <- mod$ci.ub[[1]]
     specifications$p[i] <- mod$pval[[1]]
     specifications$k[i] <- nrow(dat)
   }
  }
}

specifications_full <- specifications[complete.cases(specifications),]
### only keep unique study/sample subsets resulting from "Which" factor combinations.
specifications_full <- specifications_full[!duplicated(specifications_full[, c("mean", "set",
"ma_method", "effect")]), ]

#write_xlsx(path = "specifications_oneOMNM.xlsx", x = specifications_full)
```

 # plot specification curve (Voracek et al., 2019) ----

```
##two_sample_data MO-NM

### load data
specifications_full <- read_excel(file.choose()) #file: specifications_twoMONM.xlsx

### "which" factors
measured_disease <- c("disease_other", "disease_either")
measurement_method <- c("measurement_other", "measurement_either")
exposure_more_than_once <- c("exposure_no", "exposure_either")
sample_type <- c("kids", "sample_either")


### "how" factors
effect <- c("g", "d")
ma_method <- c("FE", "HedgesOlkin(REML)", "HunterSchmidt")


x_rank <- rank(specifications_full$mean, ties.method = "random")
yvar <- rep(factor(rev(c(measured_disease, measurement_method,
exposure_more_than_once, sample_type,effect, ma_method)),
                   levels = rev(c(measured_disease, measurement_method,
exposure_more_than_once, sample_type, effect, ma_method))),
            times = nrow(specifications_full))
xvar <- rep(x_rank, each = length(levels(yvar)))
spec <- NULL
### determine which specifications are observed and which are not
for(i in 1:nrow(specifications_full)) {
  id <- as.numeric(levels(yvar) %in% as.character(unlist(specifications_full[i, 1:7])))
```

```
  spec <- c(spec, id)
}

plotdata <- data.frame(xvar, yvar, spec)

ylabels <- rev(c("disease: other than epilepsy", "disease: either",
                 "measurement method: other than EEG", "measurement method: either",
                 "exposure: once (not more)", "exposure: either",
                 "sample: children (not adults)", "sample: either",
                 "metric: g", "metric: d",
                 "model: Hedges-Olkin (REML)", "model: Hunter-Schmidt", "model: FE"
))

plotdata$k <- rep(specifications_full$k, each = length(levels(yvar)))
plotdata$fill <- as.factor(plotdata$k * plotdata$spec)
cols <- RColorBrewer::brewer.pal(min(11, length(levels(plotdata$fill)) - 1), "Spectral")

### create specification tile plot
p_spec <- ggplot(data = plotdata, aes(x = xvar, y = as.factor(yvar), fill = fill)) +
  geom_raster() +
  geom_hline(yintercept = c(3, 5, 7, 9, 11) + 0.5) +
  scale_x_continuous(position = "bottom") +
  scale_y_discrete(labels = ylabels) +
  scale_fill_manual(values = c("white", c(cols[floor(seq(from = 1, to = length(cols), length.out
= length(levels(plotdata$fill)) - 1))]))) +
  labs(x = "Specification number", y = "Which/How factors") +
  coord_cartesian(expand = F, xlim = c(0.5, nrow(specifications_full) + 0.5)) +
  theme_bw() +
  theme(legend.position = "none",
        axis.text = element_text(colour = "black"),
        axis.ticks = element_line(colour = "black"),
        plot.margin = margin(t = 5.5, r = 5.5, b = 5.5, l = 5.5, unit = "pt"))

### create summary forest plot
specifications_full$xvar <- x_rank
yrng <- range(c(0, specifications_full$lb, specifications_full$ub))
ylimit <- c(yrng[1] - diff(yrng)*0.1, yrng[2] + diff(yrng)*0.1)

y_breaks_forest <- round(seq(from = round(ylimit[1], 1), to = round(ylimit[2], 1), by = 0.1),
2)
y_labels_forest <- format(y_breaks_forest, nsmall = 2)
y_breaks_forest <- c(ylimit[1], y_breaks_forest)
y_labels_forest <- c(ylabels[which.max(nchar(ylabels))], y_labels_forest)

p_forest <-
  ggplot(data = specifications_full, aes(x = xvar, y = mean)) +
  geom_errorbar(aes(ymin = lb, ymax = ub, col = as.factor(k)), width = 0, size = 0.25) +
  geom_line(col = "black", size = 0.25) +
  geom_hline(yintercept = 0, linetype = 2, size = 0.25) +
  scale_x_continuous(name = "") +
```

```
  scale_y_continuous(name = "Summary effect", breaks = y_breaks_forest, labels =
y_labels_forest) +
  scale_color_manual(values = c(cols[floor(seq(from = 1, to = length(cols), length.out =
length(levels(as.factor(specifications_full$k)))))])) +


  coord_cartesian(ylim = ylimit, xlim = c(0.5, nrow(specifications_full) + 0.5), expand =
FALSE) +
  ggtitle("Independent MO-condition") +
  theme_bw() +
  theme(legend.position = "none",
        axis.text.x = element_blank(),
        axis.ticks.x = element_blank(),
        axis.text.y = element_text(colour = c("white", rep("black", times =
length(y_labels_forest) - 1))),
        axis.ticks.y = element_line(colour = c("white", rep("black", times =
length(y_breaks_forest) - 1))),
        panel.grid.major.x = element_blank(),
        panel.grid.minor.x = element_blank(),
        panel.grid.major.y = element_line(),
        panel.grid.minor.y = element_blank(),
        plot.margin = margin(t = 5.5, r = 5.5, b = -15, l = 5.5, unit = "pt"))

### create subset size indicator
yrng <- range(c(2, max(specifications_full$k)))
ylimit <- c(2, max(specifications_full$k))

y_breaks_size <- round(seq(from = yrng[1], to = yrng[2], by = 100), 0)
y_labels_size <- format(y_breaks_size, nsmall = 0)
y_breaks_size <- c(ylimit[1], y_breaks_size)
y_labels_size <- c(ylabels[which.max(nchar(ylabels))], y_labels_size)

p_size <-
  ggplot(data = specifications_full, aes(x = xvar, y = k)) +
  geom_area(fill = "gray35", color = "black", size = 0.25) +
  scale_x_continuous(name = "") +
  scale_y_continuous(name = "# Samples", breaks = y_breaks_size, labels = y_labels_size) +
  coord_cartesian(ylim = ylimit, xlim = c(0.5, nrow(specifications_full) + 0.5), expand =
FALSE) +
  theme_bw() +
  theme(legend.position = "none",
        axis.text.x = element_blank(),
        axis.ticks.x = element_blank(),
        axis.text.y = element_text(colour = c("white", rep("black", times = length(y_labels_size)
- 1))),
        axis.ticks.y = element_line(colour = c("white", rep("black", times =
length(y_breaks_size) - 1))),
        panel.grid.major.x = element_blank(),
        panel.grid.minor.x = element_blank(),
        panel.grid.major.y = element_line(),
        panel.grid.minor.y = element_blank(),
```

```
      plot.margin = margin(t = 5.5, r = 5.5, b = -15, l = 5.5, unit = "pt"))

### combine specfication tile plot, subset size indicator and forest plot
p <- gridExtra::arrangeGrob(p_spec, p_size, p_forest,
                            layout_matrix = matrix(c(3, 3, 3, 2, 1, 1, 1, 1, 1), ncol = 1))
p <- ggpubr::as_ggplot(p)


#ggsave("twoMONM.jpg", p, width = 20, height = 20, dpi = 1200, units = "cm")
#ggsave("oneMONM.tiff", p, width = 16*1.2, height = 25*1.2, dpi = 1200, units = "cm",
compression = "lzw+p")

##one_sample_data MO-NM

### load data
specifications_full <- read_excel(file.choose()) #file: specifications_oneMONM.xlsx

### "which" factors
seizure_type <- c("generalized_focal", "seizure_mixed", "seizure_either")
measurement_method <- c("EEG", "seizure_frequency_observation", "measurement_either")
sample_type <- c("adults", "mixed", "sample_either")
funding <- c("yes", "NR", "either")

### "how" factors
effect <- c("g", "d")
ma_method <- c("FE", "HedgesOlkin(REML)", "HunterSchmidt")


x_rank <- rank(specifications_full$mean, ties.method = "random")
yvar <- rep(factor(rev(c(seizure_type, measurement_method, sample_type, funding, effect,
ma_method)),
                   levels = rev(c(seizure_type, measurement_method, sample_type, funding, effect,
ma_method))),
            times = nrow(specifications_full))
xvar <- rep(x_rank, each = length(levels(yvar)))
spec <- NULL
### determine which specifications are observed and which are not
for(i in 1:nrow(specifications_full)) {
  id <- as.numeric(levels(yvar) %in% as.character(unlist(specifications_full[i, 1:7])))
  spec <- c(spec, id)
}

plotdata <- data.frame(xvar, yvar, spec)

ylabels <- rev(c("seizure: generalized and focal", "seizure: mixed", "seizure: either",
                 "measurement: IED-EEG", "measurement: seizure frequency", "measurement:
either",
                 "sample: adults", "sample: mixed", "sample: either",
                 "funding: yes", "funding: NR", "funding: either",
                 "metric: g", "metric: d",
                 "model: Hedges-Olkin (REML)", "model: Hunter-Schmidt", "model: FE"
```

```
))

plotdata$k <- rep(specifications_full$k, each = length(levels(yvar)))
plotdata$fill <- as.factor(plotdata$k * plotdata$spec)
cols <- RColorBrewer::brewer.pal(min(11, length(levels(plotdata$fill)) - 1), "Spectral")

### create specification tile plot
p_spec <- ggplot(data = plotdata, aes(x = xvar, y = as.factor(yvar), fill = fill)) +
  geom_raster() +
  geom_hline(yintercept = c(3, 5, 8, 11, 14) + 0.5) +
  scale_x_continuous(position = "bottom") +
  scale_y_discrete(labels = ylabels) +
  scale_fill_manual(values = c("white", c(cols[floor(seq(from = 1, to = length(cols), length.out
= length(levels(plotdata$fill)) - 1))]))) +
  labs(x = "Specification number", y = "Which/How factors") +
  coord_cartesian(expand = F, xlim = c(0.5, nrow(specifications_full) + 0.5)) +
  theme_bw() +
  theme(legend.position = "none",
        axis.text = element_text(colour = "black"),
        axis.ticks = element_line(colour = "black"),
        plot.margin = margin(t = 5.5, r = 5.5, b = 5.5, l = 5.5, unit = "pt"))

### create summary forest plot
specifications_full$xvar <- x_rank
yrng <- range(c(0, specifications_full$lb, specifications_full$ub))
ylimit <- c(yrng[1] - diff(yrng)*0.1, yrng[2] + diff(yrng)*0.1)

y_breaks_forest <- round(seq(from = round(ylimit[1], 1), to = round(ylimit[2], 1), by = 0.1),
2)
y_labels_forest <- format(y_breaks_forest, nsmall = 2)
y_breaks_forest <- c(ylimit[1], y_breaks_forest)
y_labels_forest <- c(ylabels[which.max(nchar(ylabels))], y_labels_forest)

p_forest <-
  ggplot(data = specifications_full, aes(x = xvar, y = mean)) +
  geom_errorbar(aes(ymin = lb, ymax = ub, col = as.factor(k)), width = 0, size = 0.25) +
  geom_line(col = "black", size = 0.25) +
  geom_hline(yintercept = 0, linetype = 2, size = 0.25) +
  scale_x_continuous(name = "") +
  scale_y_continuous(name = "Summary effect", breaks = y_breaks_forest, labels =
y_labels_forest) +
  scale_color_manual(values = c(cols[floor(seq(from = 1, to = length(cols), length.out =
length(levels(as.factor(specifications_full$k)))))])) +

  coord_cartesian(ylim = ylimit, xlim = c(0.5, nrow(specifications_full) + 0.5), expand =
FALSE) +
  ggtitle("Dependent MO-condition") +
  theme_bw() +
  theme(legend.position = "none",
        axis.text.x = element_blank(),
        axis.ticks.x = element_blank(),
```

```
      axis.text.y = element_text(colour = c("white", rep("black", times =
length(y_labels_forest) - 1))),
      axis.ticks.y = element_line(colour = c("white", rep("black", times =
length(y_breaks_forest) - 1))),
      panel.grid.major.x = element_blank(),
      panel.grid.minor.x = element_blank(),
      panel.grid.major.y = element_line(),
      panel.grid.minor.y = element_blank(),
      plot.margin = margin(t = 5.5, r = 5.5, b = -15, l = 5.5, unit = "pt"))

### create subset size indicator
yrng <- range(c(2, max(specifications_full$k)))
ylimit <- c(2, max(specifications_full$k))

y_breaks_size <- round(seq(from = yrng[1], to = yrng[2], by = 100), 0)
y_labels_size <- format(y_breaks_size, nsmall = 0)
y_breaks_size <- c(ylimit[1], y_breaks_size)
y_labels_size <- c(ylabels[which.max(nchar(ylabels))], y_labels_size)

p_size <-
  ggplot(data = specifications_full, aes(x = xvar, y = k)) +
  geom_area(fill = "gray35", color = "black", size = 0.25) +
  scale_x_continuous(name = "") +
  scale_y_continuous(name = "# Samples", breaks = y_breaks_size, labels = y_labels_size) +
  coord_cartesian(ylim = ylimit, xlim = c(0.5, nrow(specifications_full) + 0.5), expand =
FALSE) +
  theme_bw() +
  theme(legend.position = "none",
      axis.text.x = element_blank(),
      axis.ticks.x = element_blank(),
      axis.text.y = element_text(colour = c("white", rep("black", times = length(y_labels_size)
- 1))),
      axis.ticks.y = element_line(colour = c("white", rep("black", times =
length(y_breaks_size) - 1))),
      panel.grid.major.x = element_blank(),
      panel.grid.minor.x = element_blank(),
      panel.grid.major.y = element_line(),
      panel.grid.minor.y = element_blank(),
      plot.margin = margin(t = 5.5, r = 5.5, b = -15, l = 5.5, unit = "pt"))

### combine specfication tile plot, subset size indicator and forest plot
p <- gridExtra::arrangeGrob(p_spec, p_size, p_forest,
                            layout_matrix = matrix(c(3, 3, 3, 2, 1, 1, 1, 1, 1), ncol = 1))
p <- ggpubr::as_ggplot(p)

#ggsave("oneMONM.jpg", p, width = 20, height = 20, dpi = 1200, units = "cm")
#ggsave("oneMONM.tiff", p, width = 16*1.2, height = 25*1.2, dpi = 1200, units = "cm",
compression = "lzw+p")


##one_sample_data OM-NM
```

```
### load data
specifications_full <- read_excel(file.choose()) #file: specifications_oneMONM.xlsx

### "which" factors
seizure_type <- c("seizure_mixed", "other", "seizure_either")
measurement_method <- c("EEG", "seizure_frequency_observation", "measurement_either")
exposure_more_than_once <- c("exposure_yes", "exposure_either")
sample_type <- c("kids", "adults", "sample_either")
funding <- c("yes", "no", "either")
OM_kind <- c("other_classical", "scrambled_KV448", "OM_either")

### "how" factors
effect <- c("g", "d")
ma_method <- c("FE", "HedgesOlkin(REML)", "HunterSchmidt")


x_rank <- rank(specifications_full$mean, ties.method = "random")
yvar <- rep(factor(rev(c(seizure_type, measurement_method, exposure_more_than_once,
sample_type, funding, OM_kind, effect, ma_method)),
                levels = rev(c(seizure_type, measurement_method, exposure_more_than_once,
sample_type, funding, OM_kind, effect, ma_method))),
          times = nrow(specifications_full))
xvar <- rep(x_rank, each = length(levels(yvar)))
spec <- NULL
### determine which specifications are observed and which are not
for(i in 1:nrow(specifications_full)) {
  id <- as.numeric(levels(yvar) %in% as.character(unlist(specifications_full[i, 1:8])))
  spec <- c(spec, id)
}

plotdata <- data.frame(xvar, yvar, spec)

ylabels <- rev(c("seizure: mixed", "seizure: other", "seizure: either",
                 "measurement: IED-EEG", "measurement: other", "measurement: either",
                 "exposure: more than once", "exposure: either",
                 "sample: children", "sample: adults", "sample: either",
                 "funding: yes", "funding: no", "funding: either",
                 "type of control music: other classical", "type of control music: scrambled KV448",
"type of control music: either",
                 "metric: g", "metric: d",
                 "model: Hedges-Olkin (REML)", "model: Hunter-Schmidt", "model: FE"
))

plotdata$k <- rep(specifications_full$k, each = length(levels(yvar)))
plotdata$fill <- as.factor(plotdata$k * plotdata$spec)
cols <- RColorBrewer::brewer.pal(min(11, length(levels(plotdata$fill)) - 1), "Spectral")

### create specification tile plot
p_spec <- ggplot(data = plotdata, aes(x = xvar, y = as.factor(yvar), fill = fill)) +
  geom_raster() +
```

```
  geom_hline(yintercept = c(3, 5, 8, 11, 14, 16, 19) + 0.5) +
  scale_x_continuous(position = "bottom") +
  scale_y_discrete(labels = ylabels) +
  scale_fill_manual(values = c("white", c(cols[floor(seq(from = 1, to = length(cols), length.out
= length(levels(plotdata$fill)) - 1))]))) +
  labs(x = "Specification number", y = "Which/How factors") +
  coord_cartesian(expand = F, xlim = c(0.5, nrow(specifications_full) + 0.5)) +
  theme_bw() +
  theme(legend.position = "none",
        axis.text = element_text(colour = "black"),
        axis.ticks = element_line(colour = "black"),
        plot.margin = margin(t = 5.5, r = 5.5, b = 5.5, l = 5.5, unit = "pt"))

### create summary forest plot
specifications_full$xvar <- x_rank
yrng <- range(c(0, specifications_full$lb, specifications_full$ub))
ylimit <- c(yrng[1] - diff(yrng)*0.1, yrng[2] + diff(yrng)*0.1)

y_breaks_forest <- round(seq(from = round(ylimit[1], 1), to = round(ylimit[2], 1), by = 0.1),
2)
y_labels_forest <- format(y_breaks_forest, nsmall = 2)
y_breaks_forest <- c(ylimit[1], y_breaks_forest)
y_labels_forest <- c(ylabels[which.max(nchar(ylabels))], y_labels_forest)

p_forest <-
  ggplot(data = specifications_full, aes(x = xvar, y = mean)) +
  geom_errorbar(aes(ymin = lb, ymax = ub, col = as.factor(k)), width = 0, size = 0.25) +
  geom_line(col = "black", size = 0.25) +
  geom_hline(yintercept = 0, linetype = 2, size = 0.25) +
  scale_x_continuous(name = "") +
  scale_y_continuous(name = "Summary effect", breaks = y_breaks_forest, labels =
y_labels_forest) +
  scale_color_manual(values = c(cols[floor(seq(from = 1, to = length(cols), length.out =
length(levels(as.factor(specifications_full$k)))))])) +

  coord_cartesian(ylim = ylimit, xlim = c(0.5, nrow(specifications_full) + 0.5), expand =
FALSE) +
  ggtitle("OM-condition") +
  theme_bw() +
  theme(legend.position = "none",
        axis.text.x = element_blank(),
        axis.ticks.x = element_blank(),
        axis.text.y = element_text(colour = c("white", rep("black", times =
length(y_labels_forest) - 1))),
        axis.ticks.y = element_line(colour = c("white", rep("black", times =
length(y_breaks_forest) - 1))),
        panel.grid.major.x = element_blank(),
        panel.grid.minor.x = element_blank(),
        panel.grid.major.y = element_line(),
        panel.grid.minor.y = element_blank(),
        plot.margin = margin(t = 5.5, r = 5.5, b = -15, l = 5.5, unit = "pt"))
```

```
### create subset size indicator
yrng <- range(c(2, max(specifications_full$k)))
ylimit <- c(2, max(specifications_full$k))

y_breaks_size <- round(seq(from = yrng[1], to = yrng[2], by = 100), 0)
y_labels_size <- format(y_breaks_size, nsmall = 0)
y_breaks_size <- c(ylimit[1], y_breaks_size)
y_labels_size <- c(ylabels[which.max(nchar(ylabels))], y_labels_size)

p_size <-
  ggplot(data = specifications_full, aes(x = xvar, y = k)) +
  geom_area(fill = "gray35", color = "black", size = 0.25) +
  scale_x_continuous(name = "") +
  scale_y_continuous(name = "# Samples", breaks = y_breaks_size, labels = y_labels_size) +
  coord_cartesian(ylim = ylimit, xlim = c(0.5, nrow(specifications_full) + 0.5), expand =
FALSE) +
  theme_bw() +
  theme(legend.position = "none",
        axis.text.x = element_blank(),
        axis.ticks.x = element_blank(),
        axis.text.y = element_text(colour = c("white", rep("black", times = length(y_labels_size)
- 1))),
        axis.ticks.y = element_line(colour = c("white", rep("black", times =
length(y_breaks_size) - 1))),
        panel.grid.major.x = element_blank(),
        panel.grid.minor.x = element_blank(),
        panel.grid.major.y = element_line(),
        panel.grid.minor.y = element_blank(),
        plot.margin = margin(t = 5.5, r = 5.5, b = -15, l = 5.5, unit = "pt"))

### combine specfication tile plot, subset size indicator and forest plot
p <- gridExtra::arrangeGrob(p_spec, p_size, p_forest,
                            layout_matrix = matrix(c(3, 3, 3, 2, 1, 1, 1, 1, 1), ncol = 1))
p <- ggpubr::as_ggplot(p)

ggsave("oneOMNM.jpg", p, width = 20, height =20, dpi = 1200, units = "cm")
#ggsave("oneMONM.tiff", p, width = 16*1.2, height = 25*1.2, dpi = 1200, units = "cm",
compression = "lzw+p")
```

 # combinatorial meta-analysis - GOSH plot ----

```
## two-sample-data MO-NM

png(filename="two_group_gosht_plot_MONM.png", res=350, width=3196, height=1648)

res.gosh_twoMONM <- gosh(two_sample_model)
```

```
plot(res.gosh_twoMONM, cex = 1.5, out = 1, alpha = 0.9, col = c("#94C154","#0063A6"))

dev.off()

## one-sample-data MO-NM

png(filename="one_group_gosht_plot_MONM.png", res=350, width=3196, height=1648)

res.gosh_oneMONM <- gosh(one_sample_model_MONM)
plot(res.gosh_oneMONM, cex = 1.5, xlim = c(-1, 2), col = "#0063A6", alpha = 0.6)

dev.off()

## one-sample-data OM-NM

png(filename="one_group_gosht_plot_OMNM.png", res=350, width=3196, height=1648)

res.gosh_oneOMNM <- gosh(one_sample_model_OMNM)
plot(res.gosh_oneOMNM, cex = 1.5, xlim = c(-1, 2), breaks = 3.5, col = "#0063A6", alpha =
0.6)

dev.off()
```

Appendix H

References of excluded studies

Overview

A total of 7 databases were searched for relevant literature: *Google Scholar, PubMed, Isi Web of Science, PsycInfo, PubPsych, ProQuest, Open Access Thesis* and *Dissertations*. In deviation from the pre-registration, no literature search could be performed in *OpenGrey*. As pre-registered, a forward-search of Rauscher et al. (1993) as well as Pietschnig et al. (2010) was conducted. In addition, a backward search was performed using those studies that were identified as reviews/meta-analyses. All studies were searched as well as screened (titles and abstracts) from 06/22/2022 to 07/16/2022. In the following tables, the literature found is classified into different categories. Studies that were additionally considered in the individual phases of the literature search are marked with a "+" in the respective rows.

Classification of the found literature <u>before</u> coding full texts:

Total	**1.967**
Duplicates	394
Included	62
Included from forward search	0
Included from backward search	2
Reviews/Meta-analyses	81
Books/Essays	94
Non-human	50
Non-neurological disease	156
Irrelevant topic	1.128

Classification of the found literature <u>after</u> coding full texts:

Date: 12.08.2022

Total	**1.967**
Duplicates	394 + **3**
Included	**8**
Excluded due to other reasons (see Appendix E)	18
Included from forward search	0
Reviews/Meta-analyses	81 + **3**
Books/Essays	94 + **5**
Non-human	50
Non-neurological disease	156 + **2**
Irrelevant topic	1.128 + **22**
Non accessible	**3**

Classification of the literature <u>after literature update:</u>
Date: 10.10.2022

Total	**1.971**
Duplicates	397
Included	**8**
Excluded due to other reasons (see Appendix E)	18
Included from forward search	0
Reviews/Meta-analyses	84 + **2**
Books/Essays	99
Non-human	50
Non-neurological disease	158
Irrelevant topic	1.150 + **2**
Non accessible	3

Documentation

1. **Google Scholar**

   Date: 22.06.2022
   Hits: 474

2. **PubMed**

   Date: 22.06.2022
   Hits: 54

3. **Isi Web of Science**

   Date: 22.06.2022
   Hits: 247

4. **PsycInfo**

   Date: 22.06.2022
   Hits: 63

5. **PubPsych**

   Date: 22.06.2022
   Hits: 30

Total	**868**
Duplicates	338
Included	63
Reviews/Meta-analyses	77
Books/Essays	94
Non-human	42
Non-neurological	76
Irrelevant topic	180

6. **ProQuest**
   Database Not pre-registered
   Filter: Dissertations & Theses

   Date: 15.07.2022
   Hits: 977

Total	**977**
Duplicates	51
Included	0
Reviews/Meta-analyses	4
Books/Essays	0
Non-human	2
Non-neurological disease	80
Irrelevant topic	840

7. **Open Access Theses and Dissertations**

   Date: 16.07.2022
   Hits: 46.130
   Not pre-registered stopping rule: No relevant paper on 3 pages in a row with 30 hits per page
   Resulting Hits: 120

Total	**120**
Duplicates	5
Included	1
Reviews/Meta-analyses	0
Books/Essays	0
Non-human	6
Non-neurological disease	0
Irrelevant topic	108

8. **OpenGrey**

   Unfortunately, the service of Opengrey was terminated shortly before the time of my literature research. Accessing the OpenGrey MySQL file from DANS EASY Archive is also not possible, as EASY is out of service by the date of 07/17/2022.

9. **Forward search:**

   Rauscher et al. (1993): 0
   Pietschnig et al. (2010): 0

10. **Backward search (Category Reviews/Meta-Analyses):**

    Additionally Included: 2:

Coppola, G., Operto, F. F., Caprio, F., Ferraioli, G., Pisano, S., Viggiano, A., & Verrotti, A. (2017). Mozart's music in children with drug-refractory epileptic encephalopathies: comparison of two protocols. *Epilepsy & Behavior*, *78*, 100-103. https://doi.org/10.1016/j.yebeh.2017.09.028

Origin:

Dawit, S., & Crepeau, A. Z. (2020). When drugs do not work: alternatives to antiseizure medications. *Current Neurology and Neuroscience Reports*, *20*(9), 1-8. https://doi.org/10.1007/s11910-020-01061-3:

De Bartolo, D., Morone, G., Giordani, G., Antonucci, G., Russo, V., Fusco, A., ... & Iosa, M. (2020). Effect of different music genres on gait patterns in Parkinson's disease. *Neurological Sciences*, *41*(3), 575-582. https://doi.org/10.1007/s10072-019-04127-4

Origin

Victorino, D. B., Scorza, C. A., Fiorini, A. C., Finsterer, J., & Scorza, F. A. (2021). "Mozart effect" for Parkinson's disease: music as medicine. *Neurological Sciences*, *42*(1), 319-320. https://doi.org/10.1007/s10072-020-04537-9:

Included Literature

Bergomi, P., Chieppi, M., Maini, A., Mugnos, T., Spotti, D., Tzialla, C., & Scudeller, L. (2014). Nonpharmacological techniques to reduce pain in preterm infants who receive heel-lance procedure: A randomized controlled trial. *Research and theory for nursing practice*, *28*(4), 335-348. https://doi.org/10.1891/1541-6577.28.4.335

Coppola, G., Toro, A., Operto, F. F., Ferrarioli, G., Pisano, S., Viggiano, A., & Verrotti, A. (2015). Mozart's music in children with drug-refractory epileptic encephalopathies. *Epilepsy & Behavior*, *50*, 18-22. https://doi.org/10.1016/j.yebeh.2015.05.038

D'Alessandro, P., Giuglietti, M., Baglioni, A., Verdolini, N., Murgia, N., Piccirilli, M., & Elisei, S. (2017). Effects of music on seizure frequency in institutionalized subjects with severe/profound intellectual disability and drug-resistant epilepsy. *Psychiatria Danubina*, *29*(suppl. 3), 399-404.

Grylls, E., Kinsky, M., Baggott, A., Wabnitz, C., & McLellan, A. (2018). Study of the Mozart effect in children with epileptic electroencephalograms. *Seizure*, *59*, 77-81. https://doi.org/10.1016/j.seizure.2018.05.006

Paprad, T., Veeravigrom, M., & Desudchit, T. (2021). Effect of Mozart K. 448 on interictal epileptiform discharges in children with epilepsy: A randomized controlled pilot study. *Epilepsy & Behavior*, *114*, 107177. https://doi.org/10.1016/j.yebeh.2020.107177

Rafiee, M., Patel, K., Groppe, D. M., Andrade, D. M., Bercovici, E., Bui, E., ... & Valiante, T. A. (2020). Daily listening to Mozart reduces seizures in individuals with epilepsy: A randomized control study. *Epilepsia Open*, *5*(2), 285-294. https://doi.org/10.1002/epi4.12400

Štillová, K., Kiska, T., Koriťáková, E., Strýček, O., Mekyska, J., Chrastina, J., & Rektor, I. (2021). Mozart effect in epilepsy: Why is Mozart better than Haydn? Acoustic qualities-based analysis of stereoelectroencephalography. *European Journal of Neurology*, *28*(5), 1463-1469. https://doi.org/10.1111/ene.14758

Vibrašiūtė (2017). Muzikos klausymo poveikis būdrumui, psichoemocinei būsenai, kognityviosioms funkcijoms ir judesų mokymuisi po galvos smegenų insulto.

Excluded Literature

Excluded due to reasons shown in Appendix E

Attanasio, G., Cartocci, G., Covelli, E., Ambrosetti, E., Martinelli, V., Zaccone, M., ... & Cacciafesta, M. (2012). The Mozart effect in patients suffering from tinnitus. *Acta oto-laryngologica*, *132*(11), 1172-1177. https://doi.org/10.3109/00016489.2012.684398

Bedetti, Principi, M., Di Renzo, A., Muti, M., Frondizi, D., Piccirilli, M., D'Alessandro, P., Marchiafava, M., Baglioni, A., Menna, M., Gubbiotti, M., & Elisei, S. (2019). The Effect of Mozart's music in severe epilepsy: Functional and morphological features. *Psychiatria Danubina*, *31*(3), 467–474.

Bodner, M., Turner, R. P., Schwacke, J., Bowers, C., & Norment, C. (2012). Reduction of seizure occurrence from exposure to auditory stimulation in individuals with neurological handicaps: A randomized controlled trial. PLOS ONE, 7(10), e45303. https://doi.org/10.1371/journal.pone.0045303

Coppola, G., Operto, F. F., Caprio, F., Ferraioli, G., Pisano, S., Viggiano, A., & Verrotti, A. (2018). Mozart's music in children with drug-refractory epileptic encephalopathies: comparison of two protocols. *Epilepsy & Behavior*, *78*, 100-103. https://doi.org/10.1016/j.yebeh.2017.09.028

Hughes, J. R., Daaboul, Y., Fino, J. J., & Shaw, G. L. (1998). The “Mozart effect” on epileptiform activity. *Clinical Electroencephalography*, *29*(3), 109-119. https://doi.org/10.1177/155005949802900301

Hughes, J. R., Fino, J. J., & Melyn, M. A. (1999). Is there a chronic change of the “Mozart effect” on epileptiform activity? A case study. *Clin Electroencephalogr*, *30*(2), 44-45. https://doi.org./10.1177/155005949903000204

Kuester, G., Rios, L., Ortiz, A., & Miranda, M. (2010). Effect of music on the recovery of a patient with refractory nonconvulsive status epilepticus. *Epilepsy & Behavior*, *18*(4), 491-493. https://doi.org/10.1016/j.yebeh.2010.06.001

Lahiri, N., & Duncan, J. S. (2007). The Mozart effect: encore. *Epilepsy & Behavior*, *11*(1), 152-153. https://doi.org/10.1016/j.yebeh.2007.04.017

Lin, L. C., Lee, W. T., Wu, H. C., Tsai, C. L., Wei, R. C., Jong, Y. J., & Yang, R. C. (2010). Mozart K. 448 and epileptiform discharges: effect of ratio of lower to higher harmonics. *Epilepsy research*, *89*(2-3), 238-245. https://doi.org/10.1016/j.eplepsyres.2010.01.007

Lin, L. C., Lee, W. T., Wang, C. H., Chen, H. L., Wu, H. C., Tsai, C. L., ... & Yang, R. C. (2011a). Mozart K. 448 acts as a potential add-on therapy in children with refractory epilepsy. *Epilepsy & Behavior*, *20*(3), 490-493. https://doi.org/10.1016/j.yebeh.2010.12.044

Lin, L. C., Lee, W. T., Wu, H. C., Tsai, C. L., Wei, R. C., Mok, H. K., ... & Yang, R. C. (2011b). The long-term effect of listening to Mozart K. 448 decreases epileptiform discharges in children with epilepsy. *Epilepsy & Behavior*, *21*(4), 420-424. https://doi.org/10.1016/j.yebeh.2011.05.015

Lin, L. C., Lee, M. W., Wei, R. C., Mok, H. K., Wu, H. C., Tsai, C. L., & Yang, R. C. (2012). Mozart k. 545 mimics mozart k. 448 in reducing epileptiform discharges in epileptic children. *Evidence-Based Complementary and Alternative Medicine*, *2012*. https://doi.org/10.1155/2012/607517

Lin, L. C., Chiang, C. T., Lee, M. W., Mok, H. K., Yang, Y. H., Wu, H. C., ... & Yang, R. C. (2013). Parasympathetic activation is involved in reducing epileptiform discharges when listening to Mozart music. *Clinical Neurophysiology*, *124*(8), 1528-1535. https://doi.org/10.1016/j.clinph.2013.02.021

Lin, L. C., Lee, M. W., Wei, R. C., Mok, H. K., & Yang, R. C. (2014a). Mozart K. 448 listening decreased seizure recurrence and epileptiform discharges in children with first unprovoked seizures: a randomized controlled study. *BMC complementary and alternative medicine*, *14*(1), 1-8. https://doi.org/10.1186/1472-6882-14-17

Quon, R. J., Casey, M. A., Camp, E. J., Meisenhelter, S., Steimel, S. A., Song, Y., ... & Jobst, B. C. (2021). Musical components important for the Mozart K448 effect in epilepsy. *Scientific reports*, *11*(1), 1-13. https://doi.org/10.1038/s41598-021-95922-7

Ren, H., Jiang, X., Xu, K., Zou, L., Wang, L., Lu, C., ... & Chen, W. (2019, October). Evaluation of the effects of mozart music on cerebral hemodynamics in preterm infants. In *2019 IEEE Biomedical Circuits and Systems Conference (BioCAS)* (pp. 1-4). IEEE. https://doi.org/10.1109/BIOCAS.2019.8919100

Turner, R. P. (2004). The acute effect of music on interictal epileptiform discharges. *Epilepsy & Behavior*, *5*(5), 662-668. https://doi.org/10.1016/j.yebeh.2004.07.003

Ziv, N., Zagon-Rogel, M., Waisman, Y., Rom, E., Attias, J., & Krause, I. (2022). The effect of environmental Noise Isolation on Bronchiolitis Severity in Hospitalized Children. *Acta Paediatrica*. https://doi.org/10.1111/apa.16437

Reviews/Meta-analyses

Alqahtani F., Imran, I., Pervaiz, H., Ashraf, W., Perveen, N., Rasool, M. F., Alasmari, A. F., Alharbi, M., Samad, N., Alqarni, S. A., Al-Rejaie, S. S., & Alanazi, M. M. (2020). Non-pharmacological Interventions for Intractable Epilepsy. *Saudi Pharmaceutical Journal*, *28*(8), 951–962. https://doi.org/10.1016/j.jsps.2020.06.016

Ahmaniyah, A., & Indriyani, R. (2020). Literatur Review: Terapy Musik Terhadap Hipertensi Kehamilan. *Journal Of Health Science (Jurnal Ilmu Kesehatan)*, *5*(1), 37-41. https://doi.org/10.24929/jik.v5i1.945

Al-Shargie, F., & C. (2019, June 11). Cognitive enhancement techniques and their impact on performance improvements: A review. https://doi.org/10.31219/osf.io/jnhd3

Bahrami, S., Thomas, M. A., Bahrami, M., & Naghizadeh, A. (2017). Neurologic music therapy to facilitate recovery from complications of neurologic diseases. *Journal of Neurology and Neuroscience*, *8*(4). https://doi.org/10.21767/2171-6625.1000214

BAXENDALE, S. Non-pharmacological treatments for epilepsy. *A PRACTICAL GUIDE TO EPILEPSY*, 382.

Beauvais. (2015). The 'Mozart Effect': A Sociological Reappraisal. Cultural Sociology, 9(2), 185–202. https://doi.org/10.1177/1749975514557096

Benna, P. (2007). Musica ed epilessia.

Boso, M., Politi, P., Barale, F., & Emanuele, E. (2006). Neurophysiology and neurobiology of the musical experience. *Functional neurology*, *21*(4), 187.

Brackney, D. E., & Brooks, J. L. (2018). Complementary and alternative medicine: The Mozart Effect on childhood epilepsy—A systematic review. *The Journal of School Nursing*, *34*(1), 28-37. https://doi.org/10.1177/1059840517740940

Brattico, E., Bonetti, L., Ferretti, G., Vuust, P., & Matrone, C. (2021). Putting cells in motion: advantages of endogenous boosting of BDNF production. *Cells*, *10*(1), 183. https://doi.org/10.3390/cells10010183

Bressler, R. A. (2003). *Music and cognitive abilities: A look at the Mozart Effect*. The Chicago School of Professional Psychology.

Brooks, J. L. (2017). *The Mozart Effect for Epilepsy Treatment in Children* (Doctoral dissertation, Appalachian State University).

Bulaj, G., Clark, J., Ebrahimi, M., & Bald, E. (2021). From Precision Metapharmacology to Patient Empowerment: Delivery of Self-Care Practices for Epilepsy, Pain, Depression and Cancer Using Digital Health Technologies. *Frontiers in pharmacology*, *12*,

612602. https://doi.org/10.3389/fphar.2021.612602

Cantor Morales, D. P. Terapias mente-cuerpo y Dualismo Cartesiano, una perspectiva poco conocida.

Casey, M. A., Quon, R., & Jobst, B. C. (2022). Eliciting neural mechanisms of music medicine for epilepsy. *Interdisciplinary Science Reviews*, 1-18. https://doi.org/10.1080/03080188.2022.2036520

Casas, E. T. BÚSQUEDA ACTUAL.

Cervellin, G., & Lippi, G. (2011). A journey with Euterpe. Sinfonia concertante for music, heart and brain. *Recenti progressi in medicina*, *102*(9), 352-358. https://doi.org/10.1701/948.10377

Chanda, M. L., & Levitin, D. J. (2013). The neurochemistry of music. *Trends in cognitive sciences*, *17*(4), 179-193. https://doi.org/10.1016/j.tics.2013.02.007

Chirchiglia, D., Chirchiglia, P., & Marotta, R. (2019). When history meets neurology: neurological diseases of famous people. *The Neuroscientist*, *25*(5), 388-393. https://doi.org/10.1177/1073858419835542

Christopher, G. Ode to baroque and other musical genres.

Colombo, B. (2020). Is There an Artistic Treatment for Neurological Diseases? The Paradigm of Music Therapy. In *Brain and Art* (pp. 5-18). Springer, Cham. https://doi.org/10.1007/978-3-030-23580-2_2

Constantin, F. A., & Drăgulin, S. (2018). Perspectives on the Relevance of Interdisciplinary Music Therapy. In *International Conference on Interactive Collaborative Learning* (pp. 130-138). Springer, Cham. https://doi.org/10.1007/978-3-030-11935-5_13

Dastgheib, S. S., Layegh, P., Sadeghi, R., Foroughipur, M., Shoeibi, A., & Gorji, A. (2014). The effects of Mozart's music on interictal activity in epileptic patients: systematic review and meta-analysis of the literature. *Current neurology and neuroscience reports*, *14*(1), 1-11. https://doi.org/10.1007/s11910-013-0420-x

Dawit, S., & Crepeau, A. Z. (2020). When drugs do not work: alternatives to antiseizure medications. *Current Neurology and Neuroscience Reports*, *20*(9), 1-8. https://doi.org/10.1007/s11910-020-01061-3

Declich, P., Omazzi, B., Tavani, E., Bellone, S., Gozzini, C., rora Bortoli, A., & Prada, A. (2006). Fundic Gland Pol yps and PPI: the Mo zart Ef fect of Gas tro in tes ti nal Pa thol ogy?. *Pol J Pathol*, *57*(4), 181-182.

Dohnalová, P. L. Hudební podněty s uměle zakomponovanou fyziologickou komplexitou zaměřené na specifické rehabilitační strategie pro pacienty s demencí.

Dymnikowa, M. (2016). Physiological aspects of music and longevity. *Advances in gerontology*, *6*(2), 101-110. https://doi.org/10.1134/S207905701602003X

Evers, S. (2020). Musik als Anfallsauslöser und Therapieansatz. *DNP-Der Neurologe & Psychiater*, *21*(2), 32-39. https://doi.org/10.1007/s15202-020-0605-5

Galińska, E. (2015). Music therapy in neurological rehabilitation settings. *Psychiatria polska*, *49*(4), 835-846.

Gasenzer, E. R., Kanat, A., & Neugebauer, E. (2017). Neurosurgery and music; effect of Wolfgang Amadeus Mozart. *World neurosurgery*, *102*, 313-319. https://doi.org/10.1016/j.wneu.2017.02.081

Geetha, B., Sugunadevi, T., Srija, B., Laleethambika, N., & Balachandar, V. (2016). Art of Music, as Harmony of the Spheres and Autism Spectrum Disorder. https://doi.org/10.20944/preprints201609.0022.v1

Giannouli, V., Lytras, N., & Syrmos, N. (2012). Is there a place for music in nuclear medicine. *Hell J Nucl Med*, *15*(3), 188-189.

Goyal, A. K., Yadav, G., & Yadav, S. (2012). Music therapy: a useful therapeutic tool for health, physical and mental music therapy: a useful therapeutic tool for health, physical and mental growth. *Int J Music Ther*, *2*(1-2), 13-8.

Haut, S. R., Gursky, J. M., & Privitera, M. (2019). Behavioral interventions in epilepsy. *Current opinion in neurology*, *32*(2), 227-236. https://doi.org//10.1097/WCO.0000000000000661

Hernando Requejo, V. (2018). Epilepsia, Mozart y su sonata K. 448:¿ es terapéutico el «efecto Mozart»?. *Revista de Neurología*, *66*(9), 308-314.

Hetland, L. (2000). *The relationship between music and spatial processes: A meta-analysis* (Publication Number 9992322) [Ed.D., Harvard University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hughes, J. R. (2002). The Mozart effect: additional data. *Epilepsy & Behavior*, *3*(2), 182-184. https://doi.org/10.1006/ebeh.2002.0329

Ibrahim, H., Fakherdine, M., & Kamar, I. (2021). *Detecting Brain Activity and Brain Disorders using Machine Learning Algorithms Applied on EEG Recordings* (No. 5380). EasyChair.

Jaušovec, N., & Habe, K. (2003). The “Mozart effect”: an electroencephalographic analysis employing the methods of induced event-related desynchronization/synchronization

and event-related coherence. *Brain topography*, *16*(2), 73-84. https://doi.org/10.1023/B:BRAT.0000006331.10425.4b

Jorge, M. A. (2020). La música de Beethoven en la investigación fisiológica: del electrocardiograma a la imagen por resonancia magnética. *Cuadernos de Investigación Musical*, (11), 216-244. https://doi.org/10.18239/invesmusic.2020.11.11

Kalinowska, A., Kułakowska, A., Kułak, W., & Okurowska-Zawada, B. (2013). Effects of classical and heavy metal music on the cardiovascular system and brain activity in healthy students. Preliminary report. *Neurologia Dziecieca*, *22*(44), 17-22.

Kaufman, S., & Rubin, M. (2003). Complementary and Alternative Medicine in Neurology. In *Alternative Medicine for the Elderly* (pp. 441-450). Springer, Berlin, Heidelberg.

Leisman, G., & Melillo, R. (2015). Cognitive rehabilitation in developmental disabilities. *Handbook of Cognitive Rehabilitation*, 1-58.

Levitin, D. J., & Chanda, M. L. (2013). The neurochemistry of music: Evidence for health outcomes. *Trends in Cognitive Science*, *17*(4), 179-193. https://doi.org/10.1016/j.tics.2013.02.007.

Liao, H., Jiang, G., & Wang, X. (2015). Music therapy as a non-pharmacological treatment for epilepsy. *Expert review of neurotherapeutics*, *15*(9), 993-1003. https://doi.org/10.1586/14737175.2015.1071191

Lin, L. C., & Yang, R. C. (2015). Mozart's music in children with epilepsy. *Translational pediatrics*, *4*(4), 323. https://doi.org/10.3978/j.issn.2224-4336.2015.09.02

Lin, S. T., Yang, P., Lai, C. Y., Su, Y. Y., Yeh, Y. C., Huang, M. F., & Chen, C. C. (2011). Mental health implications of music: Insight from neuroscientific and clinical studies. *Harvard review of psychiatry*, *19*(1), 34-46. https://doi.org/10.3109/10673229.2011.549769

Maguire, M. (2017). Epilepsy and music: practical notes. *Practical neurology*, *17*(2), 86-95. http://dx.doi.org/10.1136/practneurol-2016-001487

Maguire, M. J. (2012). Music and epilepsy: a critical review. *Epilepsia*, *53*(6), 947-961. https://doi.org/10.1111/j.1528-1167.2012.03523.x

Maguire, M. J. (2022). Wired for Sound: The effect of sound on the epileptic brain. *Seizure*. https://doi.org/10.1016/j.seizure.2022.09.016

Martens, G. J. M. (2020). Een pad blijven volgen (?).

Marziali, M., & Palermo, M. T. (2021). Italian Journal of Prevention, Diagnostic and Therapeutic Medicine. *ijpdtm*, *4*(2), 37-45. https://doi.org/10.30459/2021-12

Maslova, N. N., Litvinova, A. A., Yuryeva, N. V., & Kovalev, P. S. (2021). Compliance in epileptology. How to change the situation for better. *Epilepsy and paroxysmal conditions*, *13*(2), 157-167. https://doi.org/10.17749/2077-8333/epi.par.con.2021.059

Miranda, M. C., Hazard, S. O., & Miranda, P. V. (2017). La música como una herramienta terapéutica en medicina. *Revista chilena de neuro-psiquiatría*, *55*(4), 266-277. http://dx.doi.org/10.4067/s0717-92272017000400266

Mishra, R., Florez-Perdomo, W. A., Shrivatava, A., Chouksey, P., Raj, S., Moscote-Salazar, L. R., ... & Agrawal, A. (2021). Role of music therapy in traumatic brain injury: a systematic review and meta-analysis. *World neurosurgery*, *146*, 197-204. https://doi.org/10.1016/j.wneu.2020.10.130

Osowska, K., Makowska, M., Gąsior, J. S., & i Pediatrii, K. K. W. D. Wpływ muzyki Mozarta na stan pacjentów pediatrycznych z padaczką-przegląd piśmiennictwa. https://doi.org/10.20966/chn.2020.58.462

Pauwels, E. K., Volterrani, D., Mariani, G., & Kostkiewics, M. (2014). Mozart, music and medicine. *Medical Principles and Practice*, *23*(5), 403-412. https://doi.org/10.1159/000364873

Pérez López, G. R. (2014). Aspectos neuropsicológicos de la música. https://dspace.usc.es/xmlui/handle/10347/12710

Prouty, S. E. (2008). *Waldorf Education and the neurodevelopment of intelligence: An integrative review* (Publication Number 3313995) [Psy.D., Antioch University New England]. ProQuest Dissertations & Theses Global. Ann Arbor.

Rafiee, M., Istasy, M., & Valiante, T. A. (2021). Music in epilepsy: Predicting the effects of the unpredictable. *Epilepsy & Behavior*, *122*, 108164. https://doi.org/10.1016/j.yebeh.2021.108164

Rahman, J. S., Caldwell, S., Jones, R., & Gedeon, T. (2022). Brain Melody Interaction: Understanding Effects of Music on Cerebral Hemodynamic Responses. *Multimodal Technologies and Interaction*, *6*(5), 35. https://doi.org/10.3390/mti6050035

Rahman, J. S., Gedeon, T., Caldwell, S., & Jones, R. (2020, July). Brain melody informatics: analysing effects of music on brainwave patterns. In *2020 international joint conference on neural networks (ijcnn)* (pp. 1-8). IEEE. https://doi.org/10.1109/IJCNN48605.2020.9207392

Rahman, J. S., Caldwell, S., Jones, R., & Gedeon, T. (2022). Brain Melody Interaction: Understanding Effects of Music on Cerebral Hemodynamic Responses. *Multimodal Technologies and Interaction*, *6*(5), 35. https://doi.org/10.3390/mti6050035

Rektor, I., Schachter, S. C., Arzy, S., Baloyannis, S. J., Bazil, C., Brázdil, M., ... & Korczyn, A. D. (2013). Epilepsy, behavior, and art (Epilepsy, Brain, and Mind, part 1). *Epilepsy & Behavior*, *28*(2), 261-282. https://doi.org/10.1016/j.yebeh.2013.03.011

Rotondo, E., Riva, A., Graziosi, A., Pellegrino, N., Di Battista, C., Di Stefano, V., & Striano, P. (2022). Non-pharmacological treatments for pediatric refractory epilepsies. *Expert Review of Neurotherapeutics*, *22*(4), 337-349. https://doi.org/10.1080/14737175.2022.2057847

Ruiz, M. L., Nieves, M. T. P., & Arce, S. A. (2019). Musicoterapia en neurorrehabilitación: el regalo de Apolo. *música (Fig. 2 A)*, *3*, 7.

Şayik, D., Acikgöz, A., & Yiğit, D. (2019). The Effect of Mozart's Music in Childhood Epilepsy: A Systematic Review. *Pediatric Practice and Research*, *7*(Ek), 251-258.

Schachter, S. C. (2008). Complementary and alternative medical therapies. *Current opinion in neurology*, *21*(2), 184-189. https://doi.org/10.1097/WCO.0b013e3282f47918

Scorza, F. A., Arida, R. M., de Albuquerque, M., & Cavalheiro, E. A. (2008). The role of Mozart's music in sudden unexpected death in epilepsy: A new open window of a dark room. *Epilepsy & Behavior*, *12*(1), 208-209. https://doi.org/10.1016/j.yebeh.2007.09.014

Sesso, G., & Sicca, F. (2020). Safe and sound: Meta-analyzing the Mozart effect on epilepsy. *Clinical Neurophysiology*, *131*(7), 1610-1620. https://doi.org/10.1016/j.clinph.2020.03.039

Shaw. (2001). The Mozart Effect: To the Editor. *Epilepsy & Behavior*, *2*(6), 611–613. https://doi.org/10.1006/ebeh.2001.0279

Shnayder, N., Narodova, E., Narodova, V., Narodov, A., & Erakhtin, E. (2018). The role of nondrug treatment methods in the management of epilepsy. In *Epilepsy-Advances in Diagnosis and Therapy*. IntechOpen. https://doi.org/10.5772/intechopen.81912

Skiba, Y. B., Odinak, M. M., Polushin, A. Y., Prokudin, M. Y., Selikhova, M. V., Bardakov, S. N., ... & Pustovoyt, V. I. (2021). Mozart effect in patients with epilepsy. *Epilepsy and paroxysmal conditions*, *13*(3), 264-273. https://doi.org/10.17749/2077-8333/epi.par.con.2021.061

Svec, C. L. (2015). *The effects of instruction on the singing ability of children ages 5 - 11: A meta-analysis* (Publication Number 10034412) [Ph.D., University of North Texas].

ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Sweeny, R. M. (2007). *Making sense of the Mozart effect: Correcting the problems created by null hypothesis significance testing* (Publication Number 3243295) [Ph.D., University of Notre Dame]. ProQuest Dissertations & Theses Global. Ann Arbor.

Tavira Sánchez, F. J. (2019). *Evaluación de terapias acústicas como tratamiento de tinnitus crónico y refractario* (Doctoral dissertation, Industriales)

Verrusio, W., Moscucci, F., Cacciafesta, M., & Gueli, N. (2015). Mozart effect and its clinical applications: a review. *Br J Med Med Res*, *8*(8), 639-650. https://doi.org/10.9734/BJMMR/2015/17192

Victorino, D. B., Scorza, C. A., Fiorini, A. C., Finsterer, J., & Scorza, F. A. (2021). "Mozart effect" for Parkinson's disease: music as medicine. *Neurological Sciences*, *42*(1), 319-320. https://doi.org/10.1007/s10072-020-04537-9

Wilson, G. D. (2018). Soothing the Savage Breast: Therapeutic Applications of Music. In *Psychotherapy, Literature and the Visual and Performing Arts* (pp. 191-202). Palgrave Macmillan, Cham. https://doi.org/10.1007/978-3-319-75423-9_11

Wilson, S. (2014). Comments on Hughes JR. The Mozart effect. Epilepsy & Behavior 2001; 2: 369–417. *Epilepsy & Behavior*, *40*, 42-44. https://doi.org/10.1016/j.yebeh.2014.08.142

Xu, C., Gong, Y., Wang, Y., & Chen, Z. (2021). New advances in pharmacoresistant epilepsy towards precise management-from prognosis to treatments. *Pharmacology & Therapeutics*, 108026. https://doi.org/10.1016/j.pharmthera.2021.108026

Yew, S., & Ng, A. W. (2020). Music as Medicine: a Literature Review on the Effectiveness of Mozart's Music on Epilepsy. *Intersect: The Stanford Journal of Science, Technology, and Society*, *14*(1).

Zhao, C., Lu, L., Liu, W., Zhou, D., & Wu, X. (2022). Complementary and alternative medicine for treating epilepsy in China: A systematic review. Acta Neurologica Scandinavica. https://doi.org/10.1111/ane.13701

Дымникова, М. В. (2015). Физиология музыки и эффект Моцарта. *Успехи горонтологии*, *28*, 645-655.

Скиба, Б. Я., Одинак, М. М., Полушин, А. Ю., Прокудин, М. Ю., Селихова, М. В., Бардаков, С. Н., ... & Пустовойт, В. И. (2021). Эффект Моцарта у пациентов с эпилепсией. *Эпилепсия и пароксизмальные состояния*, *13*(3), 264-273.

刘思雨, 黄秀美, 何月月, 尹安春, & 张世西. (2020). “莫扎特效应” 音乐干预癫痫患儿的应用进展. *护理学报*, *26*(24), 18-21. https://doi.org/10.16460/j.issn1008-9969.2019.24.018

Books/Essays

Aamodt, S., & Wang, S. (2009). *Welcome to your brain: Why you lose your car keys but never forget how to drive and other puzzles of everyday behavior*. Bloomsbury Publishing USA.

Alloway, T. P. (2011). *Training your brain for dummies*. John Wiley & Sons.

Altenmüller, E., Finger, S., & Boller, F. (2015). *Music, neurology, and neuroscience: Evolution, the musical brain, medical conditions, and therapies*. Elsevier.

Arias, M. (2014). Music and the brain: neuromusicology. *Neuroscience and history*, *2*(4), 149-155.

Ashley R., & Timmers, R. (2017). The Routledge companion to music cognition. Routledge.

Baxendale, S. (2012). *Epilepsy: Complementary and alternative treatments*. SPCK.

Berros, M. C. (2000). *Spatial cognition and musicality*. Carlos Albizu University.

Bulaj, G. (2014). Combining non-pharmacological treatments with pharmacotherapies for neurological disorders: a unique interface of the brain, drug–device, and intellectual property. *Frontiers in neurology*, 126. https://doi.org/10.3389/fneur.2014.00126

Baxendale, S. (2015). Complementary and alternative treatments for epilepsy. In *The Treatment of Epilepsy* (pp. 298-310). John Wiley & Sons, Ltd.

Bloom, F., Beal, F., & Kupfer, D. (2003). *The Dana guide to brain health*. Simon and Schuster.

Bowles, S. A. M. (2003). *Tune up the mind: The effect of orchestrating music as a reading intervention*. Indiana University of Pennsylvania.

Chintapalli, M. (2017). *Early Brain Sprouts from States to Traits*. Xlibris Corporation.

Chudler, E., & Johnson, L. A. (2017). *Brain Bytes: Quick Answers to Quirky Questions about the Brain*. WW Norton & Company.

Coleman, K., Weed, J. L., & Schapiro, S. J. (2013). *Animal Models for the Study of Human Disease: Chapter 4. Environmental Enrichment for Animals Used in Research*. Elsevier Inc. Chapters.

Colwell, R. (Ed.). (2006). *MENC handbook of musical cognition and development*. Oxford University Press on Demand.

Conway, D. J. (2011). *A little book of pendulum magic*. Crossing Press.

Cordón, L. A. (2005). *Popular psychology: an encyclopedia*. Greenwood Publishing Group.

Couturier, N. (2020). *Fiber Tract Stimulation of the Corpus Callosum for Focal Cortical Epilepsy*. Case Western Reserve University.

Crotti, E. (2017). *Integral 432 Hz Music-Awareness, music and meditation*. Lulu. com.

Dearborn, D. G. (2013). Biology of fungi. *Textbook of Children's Environmental Health*, 352.

Donald, G. (2012). *When the Earth Was Flat: All the bits of science we got wrong*. Michael O'Mara Books.

Donald, G. (2013). *They Got It Wrong: Science: All the Facts that Turned out to be Science Fiction*. Penguin.

Ellis, D. L. (2018). *Principals' perceptions of arts education in public elementary schools in southeastern Virginia*. Hampton University.

Eng, J. E. E. (2004). *A study of the effects of listening to Mozart on tasks of spatial reasoning, word fluency, and semantic fluency*. Fielding Graduate Institute.

Faber, J. (2015). *Auc medica-monogrpahia: CLY. 2014 Bulbo-thalamo-cortical structures and their activities simulated by" formator-complex" and" multilayered iterative algorithm" models*. Charles University in Prague, Karolinum Press.

Fauble, L. (2016). *Medicinal Music: An Anatomy of Music in the Healing Arts*. Prescott College.

Fletcher, S. (2004). *The Challenge of Epilepsy: Take Control of Your Seizures and Your Life Through Complementary and Alternative Solutions*. Aura Publishing Company.

Gershwin, G., Shebalin, V., & as Therapy, M. Gazette.

Giannouli, V. (2017). Mozart effect and music psychology: Recent developments and future research. *Problems of Psychology in the 21st Century*, *11*(1), 4-5.

Goldstein, R. (2005). Metaphor, the Inner Voice, and the Muse. *The Midnight Disease: The Drive to Write, Writer's Block, and the Creative Brain*, 224.

Gruhn, W., & Rauscher, F. (2002). The neurobiology of music cognition and learning. *The new handbook of research on music teaching and learning*, 445-460.

Hagner, W., Nowacka, K., & Zukow, W. (2012). *Humanities Dimension of Rehabilitation, Physiotherapy*. University of Health Sciences in Bydgoszcz, Poland.

Heaven, R. (2016). *Shamanic Plant Medicine-San Pedro: The Gateway to Wisdom*. John Hunt Publishing.

Henderson, E. Posts Tagged frequency.

Horden, P. (Ed.). (2017). *Music as medicine: The history of music therapy since antiquity*. Routledge.

Horstman, J. (2010). *The Scientific American Brave New Brain: How Neuroscience, Brain-Machine Interfaces, Neuroimaging, Psychopharmacology, Epigenetics, the Internet, and Our Own Minds are Stimulating and Enhancing the Future of Mental Power*. John Wiley & Sons.

Hupp, S. (Ed.). (2019). *Pseudoscience in child and adolescent psychotherapy: a skeptical field guide*. Cambridge University Press.

Illes, J., Racine, E., & Kirschen, M. P. (2006). A picture is worth 1000 words, but which 1000. *Neuroethics: Defining the issues in theory, practice, and policy*, 149-68.

Jäncke, L. (2008). *Macht Musik schlau?: neue Erkenntnisse aus den Neurowissenschaften und der kognitiven Psychologie*. Hans Huber.

Janka, Z. (2019). Musica et medicina. *Orvosi Hetilap*, *160*(11), 403-418. https://doi.org/10.1556/650.2019.31323

Johnson, D. A. (2000). *The development of music aptitude and effects on scholastic achievement of 8 to 12 year olds*. University of Louisville.

Johnson, L. S. M., & Rommelfanger, K. S. (Eds.). (2018). *The Routledge handbook of neuroethics*. Routledge.

Jones, S. M., & Zigler, E. (2002). The Mozart effect: Not learning from history. *Journal of Applied Developmental Psychology*, *23*(3), 355-372. https://doi.org/10.1016/S0193-3973(02)00113-2

Kim, Y., & Gilman, S. L. (Eds.). (2019). *The Oxford handbook of music and the body*. Oxford University Press.

Komianos, A. N. (2011). *Rapid entity attachment release*. Lulu. com.

Leisman, G. Auditory, visual, spatial aesthetic and artistic training facilitates brain plasticity. *Neuroplasticity in learning and rehabilitation*, 211.

Mallik, A. (2019). *Neurochemical and Social Aspects of Music*. McGill University (Canada).

Martini, B. (2022). *Ongoing Changes: Does Your Reflection, Reflect Who You Believe, You to Be*. Balboa Press.

Matell, G., & Theorell, T. (Eds.). (2004). *Musikens roll i barns utveckling*. TPB.

Millichap, J. G. (2011). Headache and Idiopathic Epilepsy. *Pediatric Neurology Briefs*, *25*(9), 67.

Miranda, M., Kuester, G., Ríos, L., Basaez, E., & Hazard, S. (2010). Refractory nonconvulsive status epilepticus responsive to music as an add-on therapy: a second case. Epilepsy

Mauro, D. G. (2005). Using music to tap into a universal neural grammar. In *XXVII Annual conference of the Cognitive Science Society* (pp. 21-23).

Mauro, T., & Cermak, S. A. (2006). *The Everything Parent's Guide to Sensory Integration Disorder: Get the Right Diagnosis, Understand Treatments, and Advocate for Your Child*. Simon and Schuster.

McCollum, J. D. A. (2001). *Audioscriptotherapy as an adjunct to psychotherapy for adult female survivors of childhood sexual abuse*. Walden University.

Menen, R. (2004). *The miracle of music therapy*. Pustak Mahal.

Milford, F. *Tuning Fork Therapy® and the Infinity Symbol*. Lulu. com.

Milford, F. (2010). *Tuning Fork Therapy® Level One Manual*. Lulu.com.

Miller, E. B. (2011). *Bio-guided music therapy: A practitioner's guide to the clinical integration of music and biofeedback*. Jessica Kingsley Publishers.

Misheva, E. (2021). *Child Neuropsychology in Practice: Perspectives from Educational Psychologists*. Springer Nature.

Montinaro, A. (2010). The musical brain: myth and science. *World neurosurgery*, *73*(5), 442-453.

Serino, D. Effetto Mozart ed epilessia. CIVITAS, 1.Mueller, J. R. (2002). *Music at work: a transdisciplinary model for individual and organizational renewal*. University of Phoenix.

Phillips, C. (2013). *Memory Booster Book: Never Forget Another Thing*. Simon and Schuster.

Ramachandran, H. Was the Mozart Effect evident before the birth of Wolfgang Amadeus Mozart?.

Ratey, J. J., & Galaburda, A. M. (2002). *A user's guide to the brain: Perception, attention, and the four theaters of the brain*. Vintage.

Rauscher F. (2006). The Neurobiology of Music. *MENC Handbook of Musical Cognition and Development*, 40.

Rose, F. C. (Ed.). (2004). *Neurology of the arts: Painting, music and literature*. World Scientific.

Rosenblatt, D. M. (2015). *Music Listening as Therapy*. Loma Linda University.

Sacks, O. W. (2007). *Tales of Music and the Brain*. London, UK:: Picador.

Sairam, T. V. (2008). *The Penguin Dictionary of Alternative Medicine*. Penguin UK.

Salkind, N. J. (Ed.). (2005). *Encyclopedia of human development*. Sage Publications.

Sartorius, N. (2002). *Fighting for mental health: a personal view*. Cambridge University Press.

Schmied, L. A. (2019). *The advance of neuroscience: twelve topics from the Victorian era to today*. McFarland.

Senanayake, M. P. (2012). Music and the paediatrician.

Shaw, G. L. (2003). *Keeping Mozart in mind*. Elsevier.

Singh, S. B., & Mishra, K. P. (2021). *Scientific Insights in Yoga (Prabhat Prakashan)*. Prabhat Prakashan.

Sousa, D. A. (Ed.). (2010). *Mind, brain, & education: Neuroscience implications for the classroom*. Solution Tree Press.

Sparr, S., & Tomaino, M. (2015). Music Therapy: The Poor Stepchild Whose Time has Come. *Int J Neurorehabilitation*, *2*, 2376-0281.

Sulzer, D. (2021). 9 Deep Brain Physiology of Sound. In *Music, Math, and Mind* (pp. 172-188). Columbia University Press. https://doi.org/10.7312/sulz19378-011

Sulzer, D. (2021). 10 Sound Disorders, Illusions, and Hallucinations. In *Music, Math, and Mind* (pp. 189-202). Columbia University Press. https://doi.org/10.7312/sulz19378-012

Terry, W. S. (2017). *Learning and memory: Basic principles, processes, and procedures*. Routledge.

Thomas-Antérion, C. (2014). *Neuropsychologie et art: Théories et applications cliniques*. De Boeck Superieur.

Thompson, R. F., & Madigan, S. A. (2013). *Memory: the key to consciousness* (Vol. 19). Princeton University Press.

Thoreau, H. D. Recognizing and Working Well with the Unconscious.

Tomaino, C. M. Music, Art, and Pet Therapies.

TOMAINO, C. M. (2005). Music Therapy. *Complementary and Alternative Therapies for Epilepsy*, 293.

Valenti, V. E., de Abreu, L. C., Guida, H. L., Vanderlei, L. C. M., Ferreira, L. L., & Ferreira, C. (2012). Musical auditory stimulation and cardiac autonomic regulation. *Complementary Therapies for the Contemporary Healthcare*, *111*.

Verny, T. R. (2007). *Pre-parenting*. Simon and Schuster.

Verny, T. R., & Weintraub, P. (2002). *Tomorrow's baby: The art and science of parenting from conception through infancy*. Simon and Schuster.

Wadhera, T., & Kakkar, D. (Eds.). (2022). *Enabling Technology for Neurodevelopmental Disorders: From Diagnosis to Rehabilitation*. Routledge.

Wadle, D. (2022). *Einstein's Violin: The Love Affair Between Science, Music, and History's Most Creative Thinkers*. Archway Publishing.

Wang, S., & Aamodt, S. (2012). *Welcome to Your Brain: The Science of Jet Lag, Love and Other Curiosities of Life*. Random House.

Wentworth, E. R. (2019). *Mathematics and Music: The Effects of an Integrated Approach on Student Achievement and Affect*. Teachers College, Columbia University.

Whitmarsh, T. E. (2004). Complementary and alternative treatments in epilepsy. *The Treatment of Epilepsy*, 269-276.

Wiebe, K., & Beckstrom, M. The rough draft of my research paper.

Williams, I., & Price, M. (2001). In his articleEvidence-based Art?'June 2001 JRSM, pp. 306±307), Professor Michael Baum dismisses the Exeter Evaluation asEssentially, staff and patients were asked whether they liked the environment and whether or not. *Journal of the Royal Society of Medicine*, *94*.

Williams, J. (2013). *Music and the social model: an occupational therapist's approach to music with people labelled as having learning disabilities*. Jessica Kingsley Publishers.

Zemánek, V. (2019). *Akustická analýza Mozartova efektu a jeho působení u pacientů s epilepsii: Acoustic analysis of Mozart effect and its effect in patients with epilepsy* Brno University of Technology].

Борисова, Е., & Ростовцева, П. (2021). *Meet The Famous Composers. Part 1*. Litres.

Шевырдяева, Л. (2022). *Английский язык для биологов. Naturally speaking (b1-b2) 2-е изд., испр. и доп. Учебное пособие для академического бакалавриата*. Litres.

Non-human

Akiyama K., & Den'etsu S. (2010). Music Enhances Drunkenness: A Phenomenon related to increased dopaminergic function. *Clinical Psychopharmacology and* Neuroscience, 8(3), 156–159.

Akiyama, K., & Den'etsu S. (2011). Effect of Different Frequencies of Music on Blood Pressure Regulation in Spontaneously Hypertensive Rats. *Neuroscience Letters*, *487*(1), 58-60. https://doi.org/10.1016/j.neulet.2010.09.073

Alworth, & Buerkle, S. C. (2013). The effects of music on animal physiology, behavior and welfare. *Lab Animal*, *42*(2), 54–61. https://doi.org/10.1038/laban.162

Amagdei, Balteş, F. R., Avram, J., & Miu, A. C. (2010). Perinatal exposure to music protects spatial memory against callosal lesions. *International Journal of Developmental Neuroscience*, *28(1)*, 105–109. https://doi.org/10.1016/j.ijdevneu.2009.08.017

Amanda, N. R. (2016). Pengaruh Paparan Musik Tradisional Jawa terhadap Fungsi Memori Spasial Tikus Putih (Rattus norvegicus).

Aoun, P., Jones, T., Shaw, G. L., & Bodner, M. (2005). Long-term enhancement of maze learning in mice via a generalized Mozart effect. *Neurological research*, *27*(8), 791-796. https://doi.org/10.1179/016164105X63647

Chikahisa, S., Sei, H., Morishima, M., Sano, A., Kitaoka, K., Nakaya, Y., & Morita, Y. (2006). Exposure to music in the perinatal period enhances learning performance and alters BDNF/TrkB signaling in mice as adults. *Behavioural brain research*, *169*(2), 312-319. https://doi.org/10.1016/j.bbr.2006.01.021

Coleman, K., Weed, J. L., & Schapiro, S. J. (2013). Environmental enrichment for animals used in research. In *Animal models for the study of human disease* (pp. 75-94). Academic Press. https://doi.org/10.1016/B978-0-12-415894-8.00004-X

Costa, L. F. (2019). Efeitos da estimulação musical nos déficits de memória decorrentes da hipóxia isquêmica encefálica em ratos (Rattus norvegicus).

Doğankaya, L., Gültekin, T., Coşkun, T., & Alptekin, E. (2020). Binaural beat stimulation-a non-invasive method for inducing zebrafish growth. *Iranian Journal of Fisheries Sciences*, *19*(5), 2308-2321.

Doğankaya, L., Gültekin, T., Coşkun, T., & Alptekin, E. (2018). A non-invasive novel method for inducing fish growth. *Iranian Journal of Fisheries Sciences*.

ErkenABCE, G., Bor-KucukatayACDEFG, M., ErkenBCE, H. A., KursunluogluBC, R., & GencADF, O. (2008). Influence of classical and rock music on red blood cell rheological properties in rats. *Med Sci Monit*, *14*, 1.

Escribano, B., Quero, I., Feijóo, M., Tasset, I., Montilla, P., & Túnez, I. (2014). Role of noise and music as anxiety modulators: Relationship with ovarian hormones in the rat. *Applied Animal Behaviour Science*, *152*, 73-82.

Falkenhorst, O. (2013). *Is Mice Behavior Influenced by Music?*(Doctoral dissertation).

Fekete, S. G., Lukacs, A., Horvath, K., Korsos, G., & Vezer, T. (2014). Effects of Mozart Sonata on the rats' learning and memory performance. *Magyar Allatorvosok Lapja*, *136*(3), 167-176.

Flores-Gutiérrez, E., Cabrera-Muñoz, E. A., Vega-Rivera, N. M., Ortiz-López, L., & Ramírez-Rodríguez, G. B. (2018). Exposure to patterned auditory stimuli during acute stress prevents despair-like behavior in adult mice that were previously housed in an enriched environment in combination with auditory stimuli. *Neural Plasticity*, *2018*.

Hoffmann, M. S. (2013). *AVALIAÇÃO DA SUPLEMENTAÇÃO DE CREATINA EM RATOS COM TRAUMATISMO CRANIOENCEFÁLICO SOBRE A SUSCETIBILIDADE A CRISES EPILÉPTICAS* Universidade Federal de Santa Maria; Programa de Pós-Graduação em Farmacologia; UFSM; BR; Farmacologia].

Israelian, L. (2018). *Evaluating the Glycogenic Activity and Therapeutic Capacity of PPP1R3D in a Mouse Model of Lafora Disease* University of Toronto].

Korsós, G., Horváth, K., Lukács, A., Vezér, T., Glávits, R., Fodor, K., & Fekete, S. G. (2018). Effects of accelerated human music on learning and memory performance of rats. *Applied animal behaviour science*, *202*, 94-99.

Lee, S., Yoo, G. E., Chong, H. J., Choi, S. H., & Park, S. (2020). The effects of Mozart's music on metabolic response upon stress. *Journal of the Korean Magnetic Resonance Society*, *24*(1), 23-29. https://doi.org/10.6564/JKMRS.2020.24.1.023

Lemmer, B. (2008). Effects of music composed by Mozart and Ligeti on blood pressure and heart rate circadian rhythms in normotensive and hypertensive rats. *Chronobiology International*, *25*(6), 971-986. https://doi.org/10.1080/07420520802539415

Leussis, M. P. (2005). *Seizure-prone EL mice: Elucidating the role of environment -gene interactions in the expression of their behavioral, neural, and seizure phenotype* (Publication Number 3181596) [Ph.D., Boston College]. ProQuest Dissertations & Theses Global. Ann Arbor.

Lilienfeld, S. O., Lynn, S. J., Ruscio, J., & Beyerstein, B. L. (2011). *50 great myths of popular psychology: Shattering widespread misconceptions about human behavior*. John Wiley & Sons.

Lin, L. C., Juan, C. T., Chang, H. W., Chiang, C. T., Wei, R. C., Lee, M. W., ... & Yang, R. C. (2013). Mozart K. 448 attenuates spontaneous absence seizure and related high-voltage rhythmic spike discharges in Long Evans rats. *Epilepsy research*, *104*(3), 234-240. https://doi.org/10.1016/j.eplepsyres.2012.11.005

Lu, Y., Liu, M., Shi, S., Jiang, H., Yang, L., Liu, X., ... & Pan, F. (2010). Effects of stress in early life on immune functions in rats with asthma and the effects of music therapy. *Journal of Asthma*, *47*(5), 526-531. https://doi.org/10.3109/02770901003801964

Mahavongtrakul, M. (2018). *Levetiracetam prevents age-related cognitive impairment in a sex-specific manner in mice lacking synaptic zinc* University of California – Irvine].

Metcalf, C. S., Huntsman, M., Garcia, G., Kochanski, A. K., Chikinda, M., Watanabe, E., ... & Bulaj, G. (2019). Music-enhanced analgesia and antiseizure activities in animal models of pain and epilepsy: toward preclinical studies supporting development of digital therapeutics and their combinations with pharmaceutical drugs. *Frontiers in neurology*, *10*, 277. https://doi.org/10.3389/fneur.2019.00277

O'Toole, K. (2012). Of Mice and Mozart: Testing Spatial Reasoning and Memory of Rats.

Panjaitan, H. M. B., & Joewono, H. T. (2019). Default sequence of Mozart's compositions during pregnancy gave higher dendritic density in the cerebrum and cerebellum of Rattus norvegicus offsprings compared with reversed sequence and control. *Majalah Obstetri dan Ginekologi*, *27*(1), 5-11.

Papadakakis, A., Sidiropoulou, K., & Panagis, G. (2019). Music exposure attenuates anxiety- and depression-like behaviors and increases hippocampal spine density in male rats. *Behavioural brain research*, *372*, 112023.

Papoutsoglou, S. E., Karakatsouli, N., Batzina, A., Papoutsoglou, E. S., & Tsopelakos, A. (2008). Effect of music stimulus on gilthead seabream Sparus aurata physiology under different light intensity in a re-circulating water system. *Journal of fish biology*, *73*(4), 980-1004. https://doi.org/10.1111/j.1095-8649.2008.02001.x

Papoutsoglou, S. E., Karakatsouli, N., Louizos, E., Chadio, S., Kalogiannis, D., Dalla, C., ... & Papadopoulou-Daifoti, Z. (2007). Effect of Mozart's music (Romanze-Andante of "Eine Kleine Nacht Musik", sol major, K525) stimulus on common carp (Cyprinus

carpio L.) physiology under different light conditions. *Aquacultural engineering*, *36*(1), 61-72. https://doi.org/10.1016/j.aquaeng.2006.07.001

Papoutsoglou, S. E., Karakatsouli, N., Papoutsoglou, E. S., & Vasilikos, G. (2010). Common carp (Cyprinus carpio) response to two pieces of music ("Eine Kleine Nachtmusik" and "Romanza") combined with light intensity, using recirculating water system. *Fish physiology and biochemistry*, *36*(3), 539-554. https://doi.org/10.1007/s10695-009-9324-8

Papoutsoglou, S. E., Karakatsouli, N., Psarrou, A., Apostolidou, S., Papoutsoglou, E. S., Batzina, A., ... & Sakellaridis, N. (2015). Gilthead seabream (Sparus aurata) response to three music stimuli (Mozart—"Eine Kleine Nachtmusik," Anonymous—"Romanza," Bach—"Violin Concerto No. 1") and white noise under recirculating water conditions. *Fish physiology and biochemistry*, *41*(1), 219-232. https://doi.org/10.1007/s10695-014-0018-5

Papoutsoglou, S. E., Karakatsouli, N., Skouradakis, C., Papoutsoglou, E. S., Batzina, A., Leondaritis, G., & Sakellaridis, N. (2013). Effect of musical stimuli and white noise on rainbow trout (Oncorhynchus mykiss) growth and physiology in recirculating water conditions. *Aquacultural engineering*, *55*, 16-22. https://doi.org/10.1016/j.aquaeng.2013.01.003

Peiffer, A. M. (2004). *Behavioral consequences of induced microgyria: Advancing the application of the rat model for rapid auditory processing impairments* (Publication Number 3138400) [Ph.D., University of Connecticut]. ProQuest Dissertations & Theses Global. Ann Arbor.

Pong, A. (2016). *Characterizing rat brain tissue properties during postnatal development and in experimental hydrocephalus using magnetic resonance imaging and light sheet microscopy* University of New South Wales].

Steele, K. M. (2003). Do rats show a Mozart effect?. *Music Perception*, *21*(2), 251-265. https://doi.org/10.1525/mp.2003.21.2.251

Strange, J. (2019). Text watch. *British Journal of Music Therapy*, *33*(1), 56-58. https://doi.org/10.1177/1359457519842508

Su, Y. (2020). Effect and mechanism of music therapy on neural restoration in patients with epilepsy. *Revista Argentina de Clínica Psicológica*, *29*(2), 1493.

Tasset, I., Quero, I., García-Mayórgaz, Á. D., Del Río, M. C., Túnez, I., & Montilla, P. (2012). Changes caused by haloperidol are blocked by music in Wistar rat. *Journal of*

physiology and biochemistry, *68*(2), 175-179. https://doi.org/10.1007/s13105-011-0129-8

University of Lethbridge. Faculty of, A., & Science. (2019). *Pre-clinical trials: the impact of tactile stimulation on the development of Alzheimer's Disease pathology in APP mice* University of Lethbridge].

University of Lethbridge. Faculty of, A., & Science. (2020). *Effect of high dietary sugar and metformin in a mouse model of Alzheimer's disease* University of Lethbridge].

Xing, Y., Qin, Y., Jing, W., Zhang, Y., Wang, Y., Guo, D., ... & Yao, D. (2016). Exposure to Mozart music reduces cognitive impairment in pilocarpine-induced status epilepticus rats. *Cognitive neurodynamics*, *10*(1), 23-30. https://doi.org/10.1007/s11571-015-9361-1

Xing, Y., Xia, Y., Kendrick, K., Liu, X., Wang, M., Wu, D., ... & Yao, D. (2016). Mozart, Mozart rhythm and retrograde Mozart effects: evidences from behaviours and neurobiology bases. *Scientific Reports*, *6*(1), 1-11. https://doi.org/10.1038/srep18744

Xing, Y., Chen, W., Wang, Y., Jing, W., Gao, S., Guo, D., ... & Yao, D. (2016). Music exposure improves spatial cognition by enhancing the BDNF level of dorsal hippocampal subregions in the developing rats. *Brain research bulletin*, *121*, 131-137. https://doi.org/10.1016/j.brainresbull.2016.01.009

Xiong, X., Han, L., Liu, S., Miao, J., Luo, M., Xue, M., ... & Huang, C. (2018). Music intervention improves spatial learning and memory and alters serum proteomics profiling in rats. *Journal of Neuroscience Research*, *96*(10), 1727-1736. https://doi.org/10.1002/jnr.24275

Xu, C. L., Nao, J. Z., Shen, Y. J., Gong, Y. W., Tan, B., Zhang, S., ... & Chen, Z. (2022). Long-term music adjuvant therapy enhances the efficacy of sub-dose antiepileptic drugs in temporal lobe epilepsy. *CNS Neuroscience & Therapeutics*, *28*(2), 206-217. https://doi.org/10.1111/cns.13623

Yao, J. G., Xia, Y., Dai, S. J., Fang, G. Z., Guo, H., & Yao, D. Z. (2009). Enhancement of spatial learning-memory in developing rats via Mozart music. *Journal of Electronic Science and Technology*, *7*(1), 47-50.

Zhang, Y., Vatanpour, M., Vatanpour, M., Tayyebi, S., Baghani, O., & Abbasnejad, M. (2022). Prenatal exposure to classical music improves learning and memory in adult rats: Possible anxiolytic or antistress effects. *European Journal of Psychology Open*. https://doi.org/10.1024/2673-8627/a000018

Non-neurological disease

Anders. (2011). The effects of classical background music on the behavior of children in the elementary school classroom: An interdisciplinary approach. ProQuest Dissertations Publishing.

Arnaud, C., Perlovsky, L., Bonniot-Cabanac, M. C., & Cabanac, M. (2013). Music and academic performance. *Behavioural Brain Research*, *256*, 257–260. https://doi.org/10.1016/j.bbr.2013.08.023

Ader, M. J. (2008). *Mozart Effect: Exploring the relationship between classical music and improvement in the spatial -temporal cognitive abilities of elementary school children* (Publication Number 3326583) [Ph.D., Lynn University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Akombo, D. O. (2006). *Effects of listening to music as an intervention for pain and anxiety in bone marrow transplant patients* (Publication Number 3248953) [Ph.D., University of Florida]. ProQuest Dissertations & Theses Global. Ann Arbor.

Brust, J. C. (2008). Musicophilia. Tales of Music and the Brain. *Neurology Today*, *8*(7), 41.

Brust, J. C. (2008). This Is Your Brain on Music: The Science of a Human Obsession. *Neurology Today*, *8*(7), 41.

Banerjee, M. (2003). *Effect of music on cognitive dysfunction in chronic schizophrenic patients* (Publication Number 10164807) [D.P.M., Central Institute of Psychiatry (India)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Betshahbazadeh, Y. (2001). *The effects of Mozart and Tejano music on community college student math test performance* (Publication Number 3043584) [Ed.D., Texas A&M University - Kingsville]. ProQuest Dissertations & Theses Global. Ann Arbor.

Booksh, R. L. (1999). *The effect of Mozart on spatial representations* (Publication Number EP26455) [M.A., Southeastern Louisiana University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Carlson, A. M. M. (2015). *Classical music, writing, and anxiety*(Doctoral dissertation, California State University, Sacramento).

Castillo-Pérez, S., Gómez-Pérez, V., Velasco, M. C., Pérez-Campos, E., & Mayoral, M. A. (2010). Effects of music therapy on depression compared with psychotherapy. *The Arts in psychotherapy*, *37*(5), 387-390. https://doi.org/10.1016/j.aip.2010.07.001

Chairinkam, W. (2018). Effects of music embedded with superimposed binaural beats on anxiety in university health science students.

Chang, S. (2011). *The effects of music playing on cognitive task performance* (Doctoral dissertation, University of British Columbia).

Chavous-Kambach, J. (2016). *The Effects of Music Treatments in Managing Workforce Stress with Women in Leadership*(Doctoral dissertation, Brandman University).

Costa, A. C. P. R. D. (2018). Análise tempo-frequência de sinais eletroencefalográficos normais antes, durante e após estímulo musical.

Chakrabarthi, S. (2003). *Music therapy in rehabilitation of chronic schizophrenia* (Publication Number 10164838) [D.P.M., Central Institute of Psychiatry (India)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Charles, J. L., Jr. (2013). *Evaluating the effects of tenth grade students' music ensemble participation in relationship to the Graduation Exit Examinations mathematics and reading scores* (Publication Number 3596099) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database; Social Science Premium Collection. Ann Arbor.

Chou, P. (2007). *The effects of background music on the reading performance of Taiwanese ESL students* (Publication Number 3293448) [Ph.D., Indiana State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Cleckley, R. D. (2016). *Does music matter? A study of music instruction and math achievement in kindergarten students* (Publication Number 10032413) [D.Ed., Capella University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Curtis, L. J. (2007). *The role of music in early literacy learning: A kindergarten case study* (Publication Number 3274536) [Ph.D., Kansas State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Custer, R. S. (2003). *Effect of passive classroom listening on students' preferences toward classical /concert music* (Publication Number 3117317) [Ph.D., University of Florida]. ProQuest Dissertations & Theses Global. Ann Arbor.

Daud, S. N. S. S., & Sudirman, R. (2017). Brain Signal Analysis to Investigate Sound Effect on Memorization. *Advanced Science Letters*, *23*(11), 11119-11123. https://doi.org/10.1166/asl.2017.10233

Daud, S. N. S. S., & Sudirman, R. (2022). Effect of audiovisual stimulation on adult memory performance based electroencephalography wavelet analysis. *Biomedical Signal Processing and Control*, *76*, 103659. https://doi.org/10.1016/j.bspc.2022.103659

Daud, S. S., & Sudirman, R. (2016, December). Discovering sound effect on visual memory performance based on electroencephalography. In *2016 IEEE EMBS Conference on Biomedical Engineering and Sciences (IECBES)* (pp. 210-215). IEEE. https://doi.org/10.1109/IECBES.2016.7843444

Delimar, V., Miloš, O., Hančević, M., Bilić, H., Krbot Skorić, M., Milivojević, I., ... & Bilić, E. (2019). Factors Contributing to the Reduction of Pain during Electromyography and Nerve Conduction Studies. *Psychiatria Danubina*, *31*(suppl 5), 774-780.

Demarin, V., Roje Bedeković, M., Bosnar Puretić, M., & Bošnjak Pašić, M. (2016). Arts, brain and cognition. *Psychiatria Danubina*, *28*(4), 343-348.

Díaz, J. I. P., González, D. A. B., Jordán, J. S., & Marín, P. J. B. (2018). Artículo de revision música perioperatoria: estado del arte y aplicabilidad en la prática anestética perioperative music therapy: state of the art and applicability in anesthesia.

Díaz, J. I. P., González, D. B., Jordán, J. S., & Marín, P. J. B. (2019). Música perioperatoria: estado del arte y aplicabilidad en la práctica anestésica. *Revista Repertorio de Medicina y Cirugía*, *28*(1).

Dabiran, Y. (2017). *The Effect of Background Music on Cognitive Task Performance* (Publication Number 10622588) [M.E.S., Lamar University - Beaumont]. ProQuest Dissertations & Theses Global. Ann Arbor.

Dawson, D. (2003). *Listening to music and increasing reading achievement scores in vocabulary and comprehension and total reading ability* (Publication Number 3116329) [Ed.D., Widener University]. ProQuest Dissertations & Theses Global. Ann Arbor.

de Lima Pinheiro, P. G. (2014). *O Impacto da Música Na Regulação Emocional: Exploração de Mecanismos Subliminares* (Publication Number 29112803) [M.Sc., Universidade do Porto (Portugal)]. ProQuest Dissertations & Theses Global. Ann Arbor.

deBeus, R. J. (1999). *The effects of music training on electroencephalographic coherence of preschool children* (Publication Number 9945797) [Ph.D., University of North Texas]. ProQuest Dissertations & Theses Global. Ann Arbor.

Deere, K. B. (2010). *The impact of music education on academic achievement in reading and math* (Publication Number 3425720) [Ed.D., Union University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Emmerson, J. (2011). Your mind on music: muffins, magic, mozart, myth. *Magic, Mozart, Myth*.

Franco, F., Swaine, J. S., Israni, S., Zaborowska, K. A., Kaloko, F., Kesavarajan, I., & Majek, J. A. (2014). Affect-matching music improves cognitive performance in adults and young children for both positive and negative emotions. *Psychology of Music*, *42*(6), 869-887. https://doi.org/10.1177/0305735614548500

Fudin, R., & Lembessis, E. (2004). The Mozart effect: Questions about the seminal findings of Rauscher, Shaw, and colleagues. *Perceptual and Motor Skills*, *98*(2), 389-405. https://doi.org/10.2466/pms.98.2.389-405

Fager, E. T. V. (2006). *A study of English language learners' empowerment through music* (Publication Number 3237891) [Ed.D., Seattle University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Falcetta, D. E. (2014). *The effect of background music on second-grade children's rhythmic and tonal pattern recognition* (Publication Number 3581021) [D.M.A., Boston University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Falcon, E. (2017). *The relationship between background classical music and reading comprehension on seventh and eighth grade students* (Publication Number 10256837) [Ed.D., St. Thomas University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Felix, C. N. (2018). *Effects of Listener-Selected Music on Writing Readability of Intensive Reading Students* (Publication Number 13428071) [Ph.D., Barry University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Flores, V. A. (2011). *Effects of Positive Music in Psychotherapy: An Analog Study* (Publication Number 3467147) [Psy.D., Alliant International University, San Francisco Bay]. ProQuest Dissertations & Theses Global. Ann Arbor.

Frick, J. W. (2000). *A qualitative study of music and communication in a musically rich early childhood special education classroom* (Publication Number 9940757) [Ph.D., George Mason University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Georgescu, M. A. R. I. U. S., Georgescu, D. A. N. I. E. L., Alexandru, D. R. A. G. O. Ş., Tatu, C., & Iancău, M. (2012). Analysis of the evolution in time of the effects of monotonous auditory stimulation on cortical biopotentials. *Fiziologia–Physiology*, *23*(75), 18-22.

Georgescu, M., Haidar, L., Serb, A. F., Puscasiu, D., & Georgescu, D. (2021). Mathematical modeling of brain activity under specific auditory stimulation. *Computational and Mathematical Methods in Medicine*, *2021*. https://doi.org/10.1155/2021/6676681

Georgiev, V., & Manca, M. L. (2019). Is there a Link between the Golden Section and Mozart's Piano Sonatas? *Disputationes Scientificae Universitatis Catholicae in Ružomberok*, *3*, 137-152.

Giannouli, V., Kolev, V., & Yordanova, J. (2019). Is there a specific Vivaldi effect on verbal memory functions? Evidence from listening to music in younger and older adults. *Psychology of Music*, *47*(3), 325-341. https://doi.org/10.1177/0305735618757901

Griffith, K. (2021). The Effect of Different Music Styles on Attention and Cognitive Control. https://doi.org/10.17615/1k67-ez37

Gupta, A., Bhushan, B., & Behera, L. (2018). Short-term enhancement of cognitive functions and music: A three-channel model. *Scientific reports*, *8*(1), 1-12. https://doi.org/10.1038/s41598-018-33618-1

Gerdner, L. A. (1998). *The effects of individualized vs classical "relaxation" music on the frequency of agitation in elderly persons with Alzheimer's disease and related disorders* (Publication Number 9904295) [Ph.D., The University of Iowa]. ProQuest Dissertations & Theses Global. Ann Arbor.

Greenslit, N. A. (2003). *Mozartian music listening in the classroom: Its effect on the academic performance of junior high students in English, science, and mathematics* (Publication Number 1415067) [M.S.E., Southwest Minnesota State University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Hausmann, M., Hodgetts, S., & Eerola, T. (2016). Music-induced changes in functional cerebral asymmetries. *Brain and cognition*, *104*, 58-71. https://doi.org/10.1016/j.bandc.2016.03.001

Hilal, A. D. İ. L., & Öztürk, G. Mozart etkisi. *Haliç Üniversitesi Sağlık Bilimleri Dergisi*, *4*(1), 17-23. https://doi.org/10.48124/husagbilder.799929

Ho, C., Mason, O., & Spence, C. (2007). An investigation into the temporal dimension of the Mozart effect: Evidence from the attentional blink task. *Acta psychologica*, *125*(1), 117-128. https://doi.org/10.1016/j.actpsy.2006.07.006

Hughes, J. R., & Fino, J. J. (2000). The Mozart effect: distinctive aspects of the music—a clue to brain coding?. *Clinical Electroencephalography*, *31*(2), 94-103. https://doi.org/10.1177/155005940003100208

Huy, H. Q. M., Khoa, T. Q. D., & Toi, V. V. (2011). Investigating the Mozart Effect on Brain Function by Using Near Infrared Spectroscopy. In *5th Kuala Lumpur International*

Conference on Biomedical Engineering 2011 (pp. 678-681). Springer, Berlin, Heidelberg.

Heimerman, J. T. (2013). *Music in the Classroom: Effects on Math Anxiety and Mathematics Achievement* (Publication Number 1523828) [M.S.E., Southwest Minnesota State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Humphrey, J. C. (2014). *The Effects of Mozart's Sonata in D Major on Fourth Graders' Reading Scores* (Publication Number 3582789) [Ed.D., Union University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor

Husain, G. (2001). *Re-examination of the Mozart effect: Effects of music tempo and mode on arousal, mood, and spatial performance* (Publication Number MQ66385) [M.A., York University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ignacio, D. A. (2015). *The effects of music and auditory affective priming on cognition* (Publication Number 1526374) [M.S., California State University, Fullerton]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ilari, B. S. (2002). *Music cognition in infancy: Infants' preferences and long -term memory for complex music* (Publication Number NQ85713) [Ph.D., McGill University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Insalaca, M. G. (2007). *The relationship between listening to music and high school students' levels of mathematics anxiety and mathematics achievement* (Publication Number 3273546) [Ph.D., Union Institute and University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Iwuji, S. O. (2020). *Differential Effects of Background-Music on the Fluid Abilities of College Undergraduate Students* (Publication Number 28094851) [Ph.D., Grand Canyon University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Jaušovec, N., & Habe, K. (2005). The influence of Mozart's sonata K. 448 on brain activity during the performance of spatial rotation and numerical tasks. *Brain topography*, *17*(4), 207-218. https://doi.org/10.1007/s10548-005-6030-4

Jaušovec, N., & Habe, K. (2004). The influence of auditory background stimulation (Mozart's sonata K. 448) on visual brain activity. *International journal of psychophysiology*, *51*(3), 261-271. https://doi.org/10.1016/S0167-8760(03)00227-7

Joewono, H. T. (2020). The Evidence For The Influence of Musical Compositions During Pregnancy to the Structure and Functions of the Offsprings' Brain. *Majalah Obstetri dan Ginekologi*, *28*(1), 44-51. http://repository.unair.ac.id/id/eprint/99244

Jones, C. Y. (2021). *The effects of music therapy frequency on children with autism spectrum disorder (ASD); The therapists point of view* (Doctoral dissertation, Northcentral University).

Kells, Ian Thomas, "The Effect of Auditory Stimuli on Test Performance: Testing the Arousal Hypothesis" (2017). *Masters Theses*. 1996. https://scholarworks.wmich.edu/masters_theses/1996

Lubetzky, R., Mimouni, F. B., Dollberg, S., Reifen, R., Ashbel, G., & Mandel, D. (2010). Effect of music by Mozart on energy expenditure in growing preterm infants. Pediatrics, 125(1), e24-e28. https://doi.org/10.1542/peds.2009-0990

McClure, L. E. (2004). *The Mozart effect: The role of periodicity and musical structure*. The Chicago School of Professional Psychology.

Milošev, Z. (2020). *Utjecaj glazbe na razvoj i plastičnost mozga*(Doctoral dissertation, University of Zagreb. Faculty of Science. Department of Biology).

Mitas, A. W., Lipowicz, A. M., Wijata, A. M., & Bieńkowska, M. J. (2016, June). Impact of music on the effectiveness of performing mathematical-logical tasks. In *Conference of Information Technologies in Biomedicine* (pp. 409-420). Springer, Cham. https://doi.org/10.1007/978-3-319-39796-2_34

Müller, W., Haffelder, G., Schlotmann, A., Schaefers, A. T., & Teuchert-Noodt, G. (2014). Amelioration of psychiatric symptoms through exposure to music individually adapted to brain rhythm disorders–a randomised clinical trial on the basis of fundamental research. *Cognitive neuropsychiatry*, *19*(5), 399-413. https://doi.org/10.1080/13546805.2013.879054

Moore, A.-F. (2012). *The impact of instrumental music programs on student achievement in an urban-suburban fringe school district* (Publication Number 3512418) [Ed.D., University of Missouri - Kansas City]. ProQuest Dissertations & Theses Global. Ann Arbor.

Moser, S. R. (2003). *Beyond the Mozart effect: Age-related cognitive functioning in instrumental music participants* (Publication Number 3084208) [Ph.D., The University of Southern Mississippi]. ProQuest Dissertations & Theses Global. Ann Arbor.

Murray, M. M. (2007). *Developing self-esteem through connections to music: Assessing effects on self-esteem in grade 3 students through learning to play the ukulele* (Publication Number MR38141) [M.Ed., Nipissing University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Nar, K. K. Inaugural-Dissertation zur Erlangung des Doktorgrades der Medizin einer Hohen Medizinischen Fakultät.

Nichols, T. W. (2015). Music as Medicine: The Science of How Music Can Help Induce Sleep, Relieves Anxiety and Pain in Patients. *J Biomusic Eng*, *3*(110), 2. http://dx.doi.org/10.4172/2090-2719.1000110

Namwamba, J.-B. O. (2012). *The effect of classical instrumental background music volume on performance in mathematics tests, self efficacy, and test anxiety of college students* (Publication Number 3521993) [Ph.D., Southern University and Agricultural and Mechanical College]. ProQuest Dissertations & Theses Global. Ann Arbor.

Nantais, K. M. (1997). *Spatial-temporal skills and exposure to music: Is there an effect, and if so, why?* (Publication Number MQ30979) [M.A., University of Windsor (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Nering, M. E. (2002). *The effect of piano and music instruction on intelligence of monozygotic twins* (Publication Number 3045435) [Ph.D., University of Hawai'i at Manoa]. ProQuest Dissertations & Theses Global. Ann Arbor. Neuharth, R. H. (2000). *A comparison of achievement test scores of band and non -band students in a rural public school* (Publication Number 9978848) [D.Ed., University of South Dakota]. ProQuest Dissertations & Theses Global. Ann Arbor.

Noonan, P. (2011). *Tempo, arousal and the underlying mechanisms of the Mozart Effect* (Publication Number MR79569) [M.A., Carleton University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

O'Donnell, E. D. (2010). *Integrating middle school mathematics into the music classroom* (Publication Number 3419590) [Ed.D., Walden University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Overy, K., NORTON, A., CRONIN, K., WINNER, E., & SCHLAUG, G. (2005). Examining rhythm and melody processing in young children using fMRI. *Annals of the New York Academy of Sciences*, *1060*(1), 210-218. https://doi.org/10.1196/annals.1360.014

Palmiero, M., Nori, R., Rogolino, C., D'amico, S., & Piccardi, L. (2016). Sex differences in visuospatial and navigational working memory: The role of mood induced by background music. *Experimental Brain Research*, *234*(8), 2381-2389. https://doi.org/10.1007/s00221-016-4643-3

Perlovsky, L., Cabanac, A., Bonniot-Cabanac, M. C., & Cabanac, M. (2013). Mozart effect, cognitive dissonance, and the pleasure of music. *Behavioural brain research*, *244*, 9-14. https://doi.org/10.1016/j.bbr.2013.01.036

Picazio, S., Oliveri, M., Koch, G., Caltagirone, C., & Petrosini, L. (2013). Continuous theta burst stimulation (cTBS) on left cerebellar hemisphere affects mental rotation tasks during music listening. *PLoS One*, *8*(5), e64640. https://doi.org/10.1371/journal.pone.0064640

Picazio, S., Oliveri, M., Koch, G., Caltagirone, C., & Petrosini, L. (2013). Continuous theta burst stimulation (cTBS) on left cerebellar hemisphere affects mental rotation tasks during music listening. *PLoS One*, *8*(5), e64640.

Piro, J. M., & Ortiz, C. (2009). The effect of piano lessons on the vocabulary and verbal sequencing skills of primary grade students. *Psychology of Music*, *37*(3), 325-347. https://doi.org/10.1177/0305735608097248

Plange, N. (2017). Musik und Glaukom. *Klinische Monatsblätter für Augenheilkunde*, *234*(02), 170-174. https://doi.org/10.1055/s-0042-118462

Park, S. (2010). *Effect of preferred music on agitation after traumatic brain injury* (Publication Number 3429339) [Ph.D., University of Michigan]. ProQuest Dissertations & Theses Global. Ann Arbor.

Pelayo, J. M. G., III. (2010). *The Effect of Mozart's Music on Social Learning Behavior of High School Students* Social Science Premium Collection.

Prokop, K. L. (2011). *The relationship between studying music and mathematics performance on the New Jersey High School Proficiency Assessment* (Publication Number 3471685) [Ed.D., Montclair State University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Ramirez, N., Padilla, L. A., Contreras, D. G., & Montelongo, R. (2018, September). Physiological responses in heart rate with classical Music. In *2018 15th International Conference on Electrical Engineering, Computing Science and Automatic Control (CCE)* (pp. 1-4). IEEE. https://doi.org/10.1109/ICEEE.2018.8533917

Rose, S. R. (2004). *The psychological effects of anxiolytic music/imagery on anxiety and depression following cardiac surgery* (Doctoral dissertation, Walden University).

Rosenfeld Keidar, H., Mandel, D., Mimouni, F. B., & Lubetzky, R. (2014). Bach music in preterm infants: no 'Mozart effect'on resting energy expenditure. *Journal of Perinatology*, *34*(2), 153-155. https://doi.org/10.1038/jp.2013.138

Rossi, A., Molinaro, A., Savi, E., Micheletti, S., Galli, J., Chirico, G., & Fazzi, E. (2018). Music reduces pain perception in healthy newborns: A comparison between different music tracks and recoded heartbeat. *Early human development*, *124*, 7-10. https://doi.org/10.1016/j.earlhumdev.2018.07.006

Rafferty, K. N. (2003). *Will a music and spatial -temporal math program enhance test scores? An analysis of second -grade students' mathematics performance on the Stanford -9 Test and the Capistrano Unified School District CORE Level Test* (Publication Number 3116772) [Ed.D., University of Southern California]. ProQuest Dissertations & Theses Global. Ann Arbor.

Sarnthein, J., VonStein, A., Rappelsberger, P., Petsche, H., Rauscher, F., & Shaw, G. (1997). Persistent patterns of brain activity: an EEG coherence study of the positive effect of music on spatial-temporal reasoning. *Neurological research*, *19*(2), 107-116. https://doi.org/10.1080/01616412.1997.11740782

Schellenberg, E. G. (2001). Music and nonmusical abilities. *Annals of the New York Academy of Sciences*, *930*(1), 355-371. https://doi.org/10.1111/j.1749-6632.2001.tb05744.x

Schellenberg, E. G., & Hallam, S. (2005). Music listening and cognitive abilities in 10-and 11-year-olds: The blur effect. *Annals of the New York Academy of Sciences*, *1060*(1), 202-209. https://doi.org/10.1196/annals.1360.013

Seo, H. S., Gudziol, V., Hähner, A., & Hummel, T. (2011). Background sound modulates the performance of odor discrimination task. *Experimental Brain Research*, *212*(2), 305-314. https://doi.org/10.1007/s00221-011-2729-5

Shaw, G. L., & Bodner, M. (1999). Music enhances spatial-temporal reasoning: towards a neurophysiological basis using EEG. *Clinical Electroencephalography*, *30*(4), 151-155. https://doi.org/10.1177/155005949903000407

Shore, R. A. (2010). Music and cognitive development: From notes to neural networks. *NHSA DIALOG*, *13*(1), 53-65. https://doi.org/10.1080/15240750903458113

Simpson, M. (2002). Will listening to Mozart make you smarter?. *BMJ*, *324*. https://doi.org/10.1136/sbmj.020364

Selland, R. (2013). *The effects of classical background music on the moods and concentration levels of third grade students* (Publication Number 1544920) [M.A.T., Saint Mary's College of California]. ProQuest Dissertations & Theses Global. Ann Arbor.

Sharpe, N. N. (2013). *The Relationship Between Music Instruction and Academic Achievement in Mathematics* (Publication Number 3604333) [Ed.D., Walden University]. ProQuest Dissertations & Theses Global. Ann Arbor

Sobol, E. S. (2014). *Autism research: Music aptitude's effect on developmental/academic gains for students with significant cognitive/language delays* (Publication Number

3581407) [Ed.D., St. John's University (New York), School of Education and Human Services]. ProQuest Dissertations & Theses Global. Ann Arbor.

Stanutz, S. (2010). *Pitch discrimination and melodic memory in children with autism* (Publication Number NR66536) [Ph.D., McGill University (Canada)]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Stephenson, V. P. (2001). *The effect of classical background music on spatial reasoning skills as measured by completion of a spatial task: A study of selected college undergraduates* (Publication Number 3043266) [Ph.D., University of Idaho]. ProQuest Dissertations & Theses Global. Ann Arbor.

Suda, M., Morimoto, K., Obata, A., Koizumi, H., & Maki, A. (2008). Cortical responses to Mozart's sonata enhance spatial-reasoning ability. *Neurological Research*, *30*(9), 885-888. https://doi.org/10.1179/174313208X319143

Talero-Gutiérrez, C., & Saade-Lemus, S. (2018). Demystifying the Mozart effect: Facts beyond the controversy. *Psychobiological, clinical, and educational aspects of giftedness*, 67-85.

Talero-Gutiérrez, C., Zarruk-Serrano, J. G., & Espinosa-Bode, A. (2004). Musical perception and cognitive functions. Is there such a thing as the Mozart effect?. *Revista de neurologia*, *39*(12), 1167-1173.

Tóth-Bakos, A., & Csehiová, A. (2016). Music and Brain-Music Training Transfer. In *INTED 2016 Proceedings: 10th International Technology, Education and Development Conference. Valencia: IATED* (pp. p1726-1732).

Toukhsati, S. R., & Rickard, N. S. (2012). The Mozart Effect: An opportunity to examine the cognitive neuroscience of music listening.

Trappe, H. J., & Breker, I. M. (2014). Effekte von Musik auf das Herz-Kreislauf-System: Was ist gesichert, was nicht, was ist neu?. *Musik-, Tanz und Kunsttherapie*, *25*(1), 26-33. https://doi.org/10.1026/0933-6885/a000134

Trappe, H. J., & Breker, I. M. (2018). Differential effects of Bach's Orchestral Suite No. 3 on blood pressure and heart rate-a prospective controlled study. *Music and Medicine*, *10*(1), 7-12. https://doi.org/10.47513/mmd.v10i1.553

Tanner, J. (2007). *Participation in music education and student academic achievement at grade 10* (Publication Number 3242142) [Ed.D., The University of Texas at El Paso]. ProQuest Dissertations & Theses Global. Ann Arbor.

Thariath, B. (2003). *The effect of Mozart's music on the behavior of children with autism.* Available from ProQuest Dissertations & Theses Global. Ann. Arbor.

Thompson, D. J. (2005). *The impact of classical music on the developmental skills of preschool children* (Publication Number 3184341) [Ph.D., Mississippi State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Thompson, T. M. (2020). *Examining sequential instrumental music instruction differences in academic achievement: A case study of one rural public high school* (Publication Number 28256469) [Ed.D.Ed.Lead., Union University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Tomboulian, J. (2020). *Music and art: Impact and influence of diverse music genres on student art* (Publication Number 28400813) [M.A., East Carolina University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Tomei, M. C. (2010). *The relationship between musical aptitude and academic achievement of third-grade students* (Publication Number 1480763) [M.A., Northern Illinois University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Townsend, C. (2006). *Effects of background music in art class: Observing on-task behavior* (Publication Number EP30541) [M.A., Chapman University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Uchiyama, M., Jin, X., Zhang, Q., Hirai, T., Amano, A., Bashuda, H., & Niimi, M. (2012). Auditory stimulation of opera music induced prolongation of murine cardiac allograft survival and maintained generation of regulatory CD4+ CD25+ cells. *Journal of Cardiothoracic Surgery*, *7*(1), 1-8. https://doi.org/10.1186/1749-8090-7-26

Usui, C., Kirino, E., Tanaka, S., Inami, R., Nishioka, K., Hatta, K., ... & Inoue, R. (2020). Music intervention reduces persistent fibromyalgia pain and alters functional connectivity between the insula and default mode network. *Pain Medicine*, *21*(8), 1546-1552. https://doi.org/10.1093/pm/pnaa071

Verrusio, W., Ettorre, E., Vicenzini, E., Vanacore, N., Cacciafesta, M., & Mecarelli, O. (2015). The Mozart effect: a quantitative EEG study. *Consciousness and cognition*, *35*, 150-155. https://doi.org/10.1016/j.concog.2015.05.005

Waterhouse, L. (2006). Inadequate evidence for multiple intelligences, Mozart effect, and emotional intelligence theories. *Educational psychologist*, *41*(4), 247-255. https://doi.org/10.1207/s15326985ep4104_5

Waterhouse, L. (2006). Multiple intelligences, the Mozart effect, and emotional intelligence: A critical review. *Educational Psychologist*, *41*(4), 207-225. https://doi.org/10.1207/s15326985ep4104_1

Wiebe, J. E. (2007). *ADHD, the classroom and music: A case study* (Doctoral dissertation).

Wade, C. E. (2011). *Exploring the development of mathematics patterning skills and concepts in young children who experience integrated music and math lessons* (Publication Number 3485050) [Ed.D., University of Houston]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Waller, G. D. (2007). *The impact of music education on academic achievement, attendance rate, and student conduct on the 2006 senior class in one southeast Virginia public school division* (Publication Number DP19265) [Ph.D., Virginia Polytechnic Institute and State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Walter, T.-L. (2002). *A case study of the effects of classical background music on student behavior and/or creative writing* (Publication Number 1415687) [M.A., Caldwell College]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Walters, B. P. (2003). *"The Mozart effect": A listening experience with developmental mathematics students at a community college* (Publication Number 3082710) [Ph.D., University of Kentucky]. ProQuest Dissertations & Theses Global. Ann Arbor.

Walworth, D. D. (2007). *The effect of developmental music groups for parents and premature or typical infants under two years on parental responsiveness and infant social development* (Publication Number 3327266) [Ph.D., The Florida State University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Ward, D. D. (2013). *An investigation of the relationships between musical training and mathematical problem solving* (Publication Number 3577808) [Ph.D., Texas State University - San Marcos]. ProQuest Dissertations & Theses Global. Ann Arbor.

Watson, R. (2013). *Music as a useful strategy for teaching academics in elementary school education* (Publication Number 3607048) [Ed.D., Cambridge College]. ProQuest Dissertations & Theses Global. Ann Arbor.

Watson, S. S. (2004). *Effective music training for preschool-aged children with autism* (Publication Number 1421523) [M.A., California State University, Long Beach]. ProQuest Dissertations & Theses Global. Ann Arbor.

Webster, J. (2015). *The effects of music education on academic, social and emotional outcomes: An investigation into the perceptions of high school students and their parents* (Publication Number 10007201) [Ed.D., Texas Wesleyan University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Weine, L. J. (2017). *Age-related differences between knowledge, beliefs, and metacognitive skills* (Publication Number 10603407) [Ph.D., Fordham University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Wells, S. P. (1995). *The effect of music on abstract/visual reasoning performance in high school music and non-music students* (Publication Number 9600110) [Ed.D., East Texas State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Wentling, N. R. (2011). *From Mozart to "Priestess": Is music a memory enhancer or distracter?* (Publication Number 1504376) [M.S., Texas A&M University - Kingsville]. ProQuest Dissertations & Theses Global. Ann Arbor.

Wheat, B. M. (2005). *Creating and teaching the arts -infused curriculum: A case study of art, music and drama in an exemplary elementary classroom* (Publication Number 3204191) [Ph.D., The University of Texas at Austin]. ProQuest Dissertations & Theses Global. Ann Arbor.

Whitehead, B. J. (2001). *The effect of music -intensive intervention on mathematics scores of middle and high school students* (Publication Number 3023878) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Williams, A. D. (2015). *The development of a music program to improve the attention span of school-aged children* (Publication Number 3734176) [Psy.D., Capella University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Williams, F. J. (2003). *The effect of background classical music on testing* (Publication Number 1415664) [Ed.Sp., Central Missouri State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Williams, S. E. (2013). *Attitudinal factors of teachers regarding arts integration* (Publication Number 3577632) [Ph.D., The University of Southern Mississippi]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Wu, S.-M. (2005). *A survey of taiwanese parents' attitudes toward early childhood music education and their participation in music activities at home* (Publication Number 3180371) [D.M.A., University of Southern California]. ProQuest Dissertations & Theses Global. Ann Arbor.

Xie, C., Zhao, L., Miao, D., Wang, D., Wei, Z., & Zhang, H. (2010). A study of Mozart effect on arousal, mood, and attentional blink. In *International Conference on Brain Informatics*(pp. 224-231). Springer, Berlin, Heidelberg. https://doi.org/10.1007/978-3-642-15314-3_21

Yaprak, P. S. (2019). *The effect of different musical genres on the text recall of turkish EFL learners and involuntary mental rehearsal* (Publication Number 28736435) [M.A., Bursa Uludag University (Turkey)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Yuré, B. (2020). *The effects of spoken versus sung discriminative stimuli on the intraverbal repertoire in children with autism* (Publication Number 28095105) [Ph.D., The Chicago School of Professional Psychology]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Zhu, W., Zhang, J., Ding, X., Zhou, C., Ma, Y., & Xu, D. (2009). Crossmodal effects of Guqin and piano music on selective attention: An event-related potential study. *Neuroscience letters*, *466*(1), 21-26. https://doi.org/10.1016/j.neulet.2009.09.026

Zhu, W., Zhao, L., Zhang, J., Ding, X., Liu, H., Ni, E., ... & Zhou, C. (2008). The influence of Mozart's sonata K. 448 on visual attention: An ERPs study. *Neuroscience letters*, *434*(1), 35-40. https://doi.org/10.1016/j.neulet.2008.01.043

Zanni, C. A. A. (2004). *Attention and music: Understanding young children's attention and the potential of music to increase attention* (Publication Number NR06355) [Ph.D., McGill University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Zarate, R. (2012). *The Sounds of Anxiety: A Quantitative Study of Music Therapy and Anxiety* (Publication Number 3509411) [Ph.D., Lesley University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Zehr, M.-J. (2005). *Exploring the relationship between music preference and aggression* (Publication Number 3166263) [Ph.D., Ball State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Zhu, N. W. (2008). *Brain research of music cognition and mathematic analysis* (Publication Number H210137) [Ph.D., Xiamen University (People's Republic of China)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Zimmermann, L. S. (2006). *Descriptive study of the relationship between language reading proficiency and the age at which music lessons are begun* (Publication Number EP31739) [M.A., Silver Lake College]. ProQuest Dissertations & Theses Global. Ann Arbor.

Γιαννούλη, Β., Τσολάκη, Μ., & Καργόπουλος, Φ. (2010). Ερευνητική εργασία Research article. *PSYCHIATRIKI*, *21*, 1.

Irrelevant topic

Abramaviciute, & Aleksiene, V. (2012). Music therapy in the psychosocial rehabilitation of people with epilepsy. *SHS Web of Conferences*, 2, 1. https://doi.org/10.1051/shsconf/20120200001

Afra, P., Bruggers, C. S., Sweney, M., Fagatele, L., Alavi, F., Greenwald, M., Huntsman, M., Nguyen, K., Jones, J. K., Shantz, D., & Bulaj, G. (2018). Mobile Software as a Medical Device (SaMD) for the Treatment of Epilepsy: Development of Digital Therapeutics Comprising Behavioral and Music-Based Interventions for Neurological Disorders. *Frontiers in Human Neuroscience*, 12, 171–171. https://doi.org/10.3389/fnhum.2018.00171

Alonso-Valerdi, L. M., Torres-Torres, A. S., Corona-González, C. E. & Ibarra-Zárate, D. I. (2022). Clustering Approach Based on Psychometrics and Auditory Event-Related Potentials to Evaluate Acoustic Therapy Effects. *Biomedical Signal Processing and Control*, *76*. https://doi.org/10.1016/j.bspc.2022.103719

Acquah, E. O. (2016). Choral Singing and Wellbeing: Findings from a Survey of the Mixed-Chorus Experience from Music Students of the University of Education Winneba, Ghana. *Legon Journal of the Humanities*, *27*(2), 1-13. https://doi.org/10.4314/ljh.v27i2.1

Akiyama, K., & Sutoo, D. (2011, June). Music-dependent changes in dopaminergic brain function. In Basic & clinical pharmacology & toxicology (Vol. 109, pp. 161-162).

Almeida Silva, L. F. (2020). *Characterisation of the effect of genetic deletion of MicroRNA-22 on brain structure and functional outcomes in experimental epilepsy* Royal College of Surgeons in Ireland].

Appleton, R., et al. "Paediatric Epilepsy."

Abney, J. L. (2019). *Effects of Music Program Participation on Adolescent Students' Academic Performance* (Publication Number 13808015) [Ed.D., Grand Canyon University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Aceves, C. L. (2021). *Exploring the Predictive Ability of Adolescent-Parent Relationships on Level of Emotion Perception in Adulthood* (Publication Number 28548415) [Psy.D., The Chicago School of Professional Psychology]. ProQuest Dissertations & Theses Global. Ann Arbor.

Acuna, E. (2008). *The Impact of Teachers' Perceptions of Music integration on Student Achievement* (Publication Number 10663092) [Ed.S., Troy University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Adal, J. (2013). *Bringing Play Therapy into the New Millennium: Incorporating Video Game Technology into Mental Health Treatment* (Publication Number 3567499) [Psy.D., Alliant International University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Adams, B. G. (2009). *Coping with traumatic experiences: An analysis of the health benefits of combining music listening with the expressive writing paradigm* (Publication Number 3386109) [Ph.D., Columbia University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Adams, T. L. (2013). *Leader emotional intelligence and workgroup engagement: A quantitative correlational study* (Publication Number 3572896) [D.M., University of Phoenix]. ProQuest Dissertations & Theses Global; ProQuest One Business. Ann Arbor.

Addison, D. W. (2010). *Music in education and in life: Melding two threads through historical inquiry to enhance literacy and learning in a non-musical setting* (Publication Number 3451079) [Ph.D., Texas A&M University - Corpus Christi]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Aden, L. A. P. (2010). *Effects of learning styles on online professional development with educators* (Publication Number 3404558) [Ed.D., Walden University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Aghapour, A. A. (2017). *Religion Made Flesh: Modernity, Ideology, and the New Sciences of the Brain* (Publication Number 10604155) [Ph.D., The University of North Carolina at Chapel Hill]. ProQuest Dissertations & Theses Global. Ann Arbor.

Airulla, B. J. (2004). *The benefits of arts education: An investigation of causality and individual perceptions* (Publication Number 3144832) [Ph.D., The Ohio State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Al-Ali, O. E. (2011). *Police selection via psychological testing: A United Arab Emirates study* (Publication Number 10701261) [Ph.D., Sheffield Hallam University (United Kingdom)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Albright, R. E. (2012). *The Impact of Music on Student Achievement in the Third and Fifth Grade Math Curriculum* (Publication Number 3492175) [Ed.D., Northcentral University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Alekno, S. M. (2012). *Teachers' beliefs and practices regarding neuromyths* (Publication Number 3505764) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Aleksić, V. (2017). *Веза играња дигиталних игара са профилом вишеструких интелигенција ученика виших разреда основне школе* (Publication Number 27819743) [Ph.D., University of Novi Sad (Serbia)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Alexander, C. D. (2010). *Personal intelligences and interrole conflict in working mothers* (Publication Number 3396547) [Ph.D., Walden University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Alexander, D. (2017). *Addressing the Significance of Distractibility During the Encoding and Retrieval Process Concurrently with Music, as Experienced Through the Lens of Culture and Gender: A Quantitative Study* (Publication Number 10241970) [Psy.D., Azusa Pacific University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Allen, D. R. (2015). *Emotional Intelligence and Commitment of Registered Nurses: Impact on Patient Safety Culture* (Publication Number 3688275) [Ph.D., The Chicago School of Professional Psychology]. ProQuest Dissertations & Theses Global. Ann Arbor.

Allen, H. L. (2011). *Postsecondary developmental mathematics teaching, 1965–2009: Objectives as stated in periodical literature* (Publication Number 3483147) [Ed.D., Texas A&M University - Commerce]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Almeida, A. (2002). *The impact of increased music notation instruction on the perceptual speed of third-grade students in a public school setting* (Publication Number 3042941) [Ed.D., University of Central Florida]. ProQuest Dissertations & Theses Global. Ann Arbor.

Alston, A. N. (2021). *Music Integration in High School English Classes in Relation to Teacher Self-Efficacy* (Publication Number 28860571) [Ed.D., Grand Canyon University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

An, S. (2012). *The effects of music-mathematics integrated curriculum and instruction on elementary students' mathematics achievement and dispositions* (Publication Number 3524697) [Ph.D., Texas A&M University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Anderson, D. E. (2003). *An assessment of interdisciplinary university visual and performing arts programs in the United States* (Publication Number 3100250) [Ed.D., Pepperdine University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Anderson, K. B. (2004). *Who could ask for anything more?: An analysis of rhythm and Dalcroze eurhythmics and their place in the communication arts of speech, forensics, and theater* (Publication Number EP74461) [M.A., University of Nebraska at Omaha]. ProQuest Dissertations & Theses Global. Ann Arbor.

Anderson, M. A., Sr. (2014). *Emotional Intelligence, Transformational Leadership, and Leader Derailment in the Military-Industrial Complex* (Publication Number 3617330) [Ph.D., Walden University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Anderson, S. A. (2007). *The effect of music on the reading comprehension of junior high school students* (Publication Number 3245966) [Ph.D., Walden University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Andrews, S. K. (2011). *An Examination of the Integration of Traditional Core Content Areas in a Kindergarten Music Classroom: A Music Specialist's Rationale, Understandings, and Perceptions* (Publication Number 3479976) [Ph.D., The University of Texas at Austin]. ProQuest Dissertations & Theses Global. Ann Arbor.

Andrus, W. H. (2009). *The allure of online education for the Millennial student* (Publication Number 3395325) [Ed.D., University of La Verne]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Angert, J. (2020). *The Impact of Helicopter Parenting on Secondary Educators* (Publication Number 27833011) [Ed.D., Northcentral University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Angle, M. A. (2002). *Does music matter? Using school -wide student participation in elective music programs to predict variability in school achievement* (Publication Number 3044905) [Ed.D., University of Virginia]. ProQuest Dissertations & Theses Global. Ann Arbor.

Armstrong, J. P., Jr. (2021). *Hidden Giftedness, Racial Inequity, and Underidentification in Gifted Programming Across a Large Northeastern Metropolitan Area* (Publication Number 28644760) [Ph.D., Temple University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Arthington, C. A. (2001). *Celebrating the arts: A bridge to the emotional brain* (Publication Number 3034507) [Ph.D., The Union Institute]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ashbee, W. S. (2013). *Nonlinear epilepsy forewarning by support vector machines* (Publication Number 1604736) [M.S., University of South Alabama]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Ashrafzadeh, N. (2010). *A qualitative study of the application of music lyrics as a therapeutic technique with adolescent clients* (Publication Number 3415801) [Psy.D., Alliant International University, San Diego]. ProQuest Dissertations & Theses Global. Ann Arbor.

Atherton, V. G. (2003). *Instrumental music at independent (private) preparatory schools: Attitudes and expectations of administrators, members of the board, parents, and faculty including instrumental music teachers* (Publication Number 1416532) [M.M., University of Southern California]. ProQuest Dissertations & Theses Global. Ann Arbor.

Attias, E. M. (2020). *The Intersection between Social-Emotional Teacher Beliefs and Constructivist Pedagogical Decision-Making: A Case Study* (Publication Number 27830935) [Ed.D., Northeastern University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Atwood, S. E. (2012). *The relationship between emotional intelligence and decision-making style among healthcare leaders in Iowa* (Publication Number 3539138) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Avalon, A. (2006). *Arts in new directions: The development and application of a construct that uses the arts to promote transformation and self -actualization in health care and education /therapy* (Publication Number 3240360) [Ph.D., University of South Florida]. ProQuest Dissertations & Theses Global. Ann Arbor.

Avşalak, K. (2008). *Okul Öncesi Dönem 60-72 Aylık Çocuklara Uygulanan Müzik Eğitiminin Kavram Gelişimi Üzerindeki Etkisinin İncelenmesi* (Publication Number 28550214) [Master's, Marmara Universitesi (Turkey)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ameri Sefideh, F. (2019). *The role of extracellular ferritin in ferroptosis: Implications for neurodegenerative disease* University of Melbourne].

Aly, A. E.-E. (2017). *An intranasal GDNF gene therapy approach for treating Parkinson's disease* Northeastern University].

Anagnostou, M.-E. (2018). *The role of POLG mutations in human disease* University of Newcastle upon Tyne].

Azzopardi, K. E. (2012). *The Effect of Music on Joint Visual Attention Behaviors in Children with Autism* (Publication Number 1519532) [M.S., The William Paterson University of New Jersey]. ProQuest Dissertations & Theses Global. Ann Arbor.

Baird, A., & Samson, S. (2009). Memory for music in Alzheimer's disease: Unforgettable? *Neuropsychology Review*, *19*(1), 85–101. https://doi.org/10.1007/s11065-009-9085-2

Ball N.J., Mercado, E.I., & Orduña, I. (2019). Enriched Environments as a potential treatment for developmental disorders: A critical Assessment. *Frontiers in Psychology*, *10*, 466–466. https://doi.org/10.3389/fpsyg.2019.00466

Beilock, S., & Hill, R. (2014). Beilock, Sian. How the Body Knows Its Mind: The Surprising Power of the Physical Environment To Influence How You Think and Feel [Review of Beilock, Sian. How the Body Knows Its Mind: The Surprising Power of the Physical Environment To Influence How You Think and Feel]. *Library Journal*, *139*(17), 115.

Ben-Nun, L. (2015). Music therapy in the Bible, Israel: BN Publications House.

Berciano, M. (2002). A Bibliography on Kairos and Related Concepts. *Rhetoric and Kairos: Essays in History, Theory, and Praxis*, 237.

Bereza, S. (2017). *The Right Kind of Music: Fundamentalist Christianity as Musical and Cultural Practice* (Doctoral dissertation, Duke University).

Bertsch, S., Knee, H. D., & Webb, J. L. (2011). Functional cerebral distance and the effect of emotional music on spatial rotation scores in undergraduate women and men. Psychological Reports, 108(1), 14-22. https://doi.org/10.2466/04.23.27.PR0.108.1.14-22

Bernas, A. (2020). Resting-State fMRI Neurodynamics in Neuropsychiatric Disorders. Gildeprint Drukkerijen. https://doi.org/10.26481/dis.20200929abe

Bodner, M., Shaw, G. L., Gabriel, R., Johnson, J. K., Murias, M., & Swanson, J. (1999). Detecting symmetric patterns in EEG data: A new method of analysis. Clinical Electroencephalography, 30(4), 143-150. https://doi.org/10.1177/155005949903000406

Breda, X. M., Fodor, D. M., Verdes, R., Tartamus ,D., Muresan, D. A., Stanescu, I. C., & Capusan, C. (2019). The Mozart effect combined with specific kinetic treatment in patients with Parkinson's disease. *Balneo Research Journal*, *10*(3), 294 – 299. http://dx.doi.org/10.12680/balneo.2019.271

Brown, W. C. (2016). *Influence of Musical Engagement on Symptoms of Tourette's Disorder* (Doctoral dissertation, University of South Florida).

Betts, K., Miller, M., Tokuhama-Espinosa, T., Shewokis, P. A., Anderson, A., Borja, C., ... & Dekker, S. (2019). International Report: Neuromyths and Evidence-Based Practices in Higher Education. *Online Learning Consortium*.

Bhandari, A. S., Gourie-Devi, M., Kumar, P., & Khanna, L. (2021). A Case of Musicogenic Epilepsy. *Journal of Pediatric Epilepsy*, *10*(04), 160-163. https://doi.org/10.1055/s-0041-1725993

Billig, A. J., Lad, M., Sedley, W., & Griffiths, T. D. (2022). The hearing hippocampus.

Bohlin, E. Healing the Mind: The Nexus between Contemporary Psychology and Eastern Christian Practice.

Brandt, M., Bright, G., Brown, V., Carmen, J., Congedo, M., DeLuca, J. W., & Doppelmayr, M. Efthymios Angelakis Elsa Baehr Lisa Black Kenneth Blum. https://doi.org/10.1300/J184v07n01_05

Brempelis, K. J., Cowan, C. M., Kreuser, S. A., Labadie, K. P., Prieskorn, B. M., Lieberman, N. A., ... & Crane, C. A. (2020). Genetically engineered macrophages persist in solid tumors and locally deliver therapeutic proteins to activate immune responses. *Journal for immunotherapy of cancer*, *8*(2). https://doi.org/10.1136/jitc-2020-001356

Brestin, D. (2009). *The God of All Comfort: Finding Your Way Into His Arms*. Harper Collins.

Brown, E. S. (2019). *Science of Human Nature and Art of Sustainable Happiness: Arrive 2 BU*. Lulu. com.

Brown, S., & Theorell, T. (2006). The social uses of background music for personal enhancement. *Music and manipulation: On the social uses and social control of music*, 126-160.

Babo, G. D. (2001). *The impact of a formal public school instrumental music instruction program on an eighth grade middle school student's reading and mathematics achievement* (Publication Number 3011645) [Ed.D., Seton Hall University, College of Education and Human Services]. ProQuest Dissertations & Theses Global. Ann Arbor.

Bailey, G. B. (2021). *The Association of Emotional Intelligence and Transformational Leadership to Job Satisfaction of Social Work Leaders* (Publication Number 28317253) [Ph.D., North Carolina Agricultural and Technical State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Bailey, J. A. (2009). *Rhythm synchronization performance and auditory working memory in early and late-trained musicians* (Publication Number MR63042) [M.A., Concordia University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Bailey, L. W. (2006). *A study of motivation and self -regulation among high school instrumental music students* (Publication Number 3216029) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Bailey, R. M. (2012). *Square pegs, round holes: An exploration of teaching methods and learning styles of millennial college students* (Publication Number 3545599) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Bailey, V. (2009). *Using techniques of music therapy: Lyric and journal writing as a form of expression for adolescents during grief: A comprehensive literature review* (Publication Number 3360683) [Psy.D., Alliant International University, San Diego]. ProQuest Dissertations & Theses Global. Ann Arbor.

Baker, G. (2011). *Strategic uses of music in the U.S. history classroom* (Publication Number 3510468) [Ed.D., The University of Alabama]. ProQuest Dissertations & Theses Global. Ann Arbor.

Baker, K. (2001). *A study of the effects of therapeutic interventions upon nighttime wandering behaviors of residents diagnosed with dementia of the Alheimer's type and related disorders in a long -term care facility* (Publication Number 3031499) [Ed.D., Temple University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Baldwin, C. R. (2014). *Emotionally Intelligent Conflict: The Influence of Emotional Intelligence, Individual Traits, and Human Capital Characteristics on the Conflict Preference of Collaborating* (Publication Number 27740371) [D.P.S., Pace University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Baldwin, P. (2014). *The effectiveness of an academic literacy intervention to help university freshmen recognize and resolve inconsistencies across multiple texts* (Publication Number 3633499) [Ed.D., University of San Francisco]. ProQuest Dissertations & Theses Global. Ann Arbor.

Balmer, C. A. (2009). *Sensibility: An education of pain in music* (Publication Number MR62246) [M.A., York University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Banfield, K. P. (2003). *Beyond the written page: Appreciating multiple meanings through culture and song* (Publication Number 3109916) [Ed.D., University of St. Thomas (Minnesota)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Barbeau, A.-K. (2017). *Is Performing Music Soothing or Stressful? Two Perspectives: Music Performance Anxiety among Musicians and the Effect of Active Music-Making on Seniors' Health* (Publication Number 28250195) [Ph.D., McGill University (Canada)]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Barnes, M. P. (2002). *Individual differences in undergraduate reading comprehension as a function of extraversion -introversion level and background music complexity* (Publication Number 3046285) [Ph.D., Hofstra University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Baron, D. M. (2013). *Social and emotional learning: An argument for religious pluralism* (Publication Number 3566515) [Ph.D., Loyola University Chicago]. ProQuest Dissertations & Theses Global; Publicly Available Content Database; Social Science Premium Collection. Ann Arbor.

Barretta, P. G. (2013). *Perceived creative partnership: A consequence of music's social use* (Publication Number 3598489) [Ph.D., The University of Texas - Pan American]. ProQuest Dissertations & Theses Global. Ann Arbor.

Bartholomew, M. K. (2014). *College Students' Attachment and Their Observed Community Blogging Activity* (Publication Number 3670671) [Ph.D., The Ohio State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Bates, S. (2021). *Exploring Teachers' Confidence Levels, Preparedness and Professional Development for Brain-Based Learning: A Qualitative Narrative Inquiry Study* (Publication Number 28714285) [Ed.D., Northcentral University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Bates, V. C. (2005). *Moral concepts in the philosophy of music education* (Publication Number 3182608) [Ph.D., The University of Arizona]. ProQuest Dissertations & Theses Global. Ann Arbor.

Batty, M. L. E. (1999). *Pattern identification and expanding consciousness during the transition of "low-risk" pregnancy. A study embodying Newman's Health as Expanding Consciousness* (Publication Number MQ54603) [M.S.N., University of New Brunswick (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Baxley, P., & Fletcher, O. (2022). **Barriers to Developing Effective Music Programs in the River City School System: An Analysis of Staff Perceptions* (Publication Number 29165994) [Ed.D., Augusta University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Bear, J. R. (2005). *The relationship between teaching kindergarten students' reading, writing, and performance of rhythmic notation and increased spatial skills* (Publication Number 3196190) [Ph.D., Wayne State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Beatty, S. (2019). *An Exploration of Deaf Education through the Experiences of Culturally Deaf Adults* (Publication Number 13425147) [Ph.D., Walden University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Becknell, B. (2019). *Mentor Matching for New Teachers Using Emotional Intelligence* (Publication Number 27666096) [Ed.D., Lamar University - Beaumont]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Beegle, J. (1998). *Suzuki Piano School: Support from contemporary music learning research* (Publication Number 1389357) [M.A., California State University, Dominguez Hills]. ProQuest Dissertations & Theses Global. Ann Arbor.

Been, K. R. (2000). *Collection of folk songs and a Kodaly-Based curriculum for use in keyboard training in the general music classroom - Grade 5* (Publication Number EP31745) [M.A., Silver Lake College]. ProQuest Dissertations & Theses Global. Ann Arbor.

Begay, P. M. (2002). *Drum and sing out the language: A teacher action research study* (Publication Number 3064038) [Ed.D., Fielding Graduate Institute]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Bench, S. A. (2000). *The therapeutic impact of therapist enthusiasm and scientific credibility on the relaxation response* (Publication Number 9991031) [Ph.D., Hofstra University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Bender, S. M. (2004). *Study of infant development and compilation of song activities for parent and infant interaction* (Publication Number EP31746) [M.A., Silver Lake College]. ProQuest Dissertations & Theses Global. Ann Arbor.

Benedetto, A. (2006). *The creative process of personal transformation: Using multicultural sound as a guide for contemplation, creativity, and personal transformation* (Publication Number 3234896) [Ph.D., Union Institute and University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Bennett, R. K. M. (2009). *The anxiety of appreciation: Virgil Thomson wrestles with a "racket"* (Publication Number 3386368) [Ph.D., Northwestern University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Berbeco, S. (2011). *Effects of non-linear curriculum design on Arabic proficiency* (Publication Number 3463118) [Ed.D., Boston University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Berry, M. (2003). *Interactions between older persons with cognitive impairment and staff in an adult day care setting* (Publication Number 3116270) [Ph.D., University of Maryland, Baltimore]. ProQuest Dissertations & Theses Global. Ann Arbor.

Beyazıt, H. (2012). *Hareketli müzik Etkinliklerinin anasınıfı çocuklarında Beden Koordinasyonu gelişimine Etkisi* (Publication Number 28521800) [Master's, Marmara Universitesi (Turkey)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Birkholz, A. D. (2003). *An investigation of student, faculty, and administration perceptions of the application of accelerated learning strategies in the Wisconsin Technical College System* (Publication Number 3102093) [Ed.D., University of Minnesota]. ProQuest Dissertations & Theses Global. Ann Arbor.

Blackner, D. M. (2000). *Prediction of community college students' success in developmental math with traditional classroom, computer -based on -campus and computer -based at a distance instruction using locus of control, math anxiety and learning style* (Publication Number 3064379) [Ph.D., University of North Texas]. ProQuest Dissertations & Theses Global. Ann Arbor.

Bland, R. J. (2010). *An exploration of the use of jazz and classical music to support focus, creativity & quality of writing in first grade* (Publication Number 1488464) [M.Ed., The William Paterson University of New Jersey]. ProQuest Dissertations & Theses Global. Ann Arbor.

Blatz, L. (2007). *The Progressive movement in music education: Influences on the turn of the 21st century* (Publication Number 1444584) [M.A., Florida Atlantic University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Boggs, J. (2018). *The Roles of Biophilic Attitudes and Auditory Stimuli Within Attention Restoration Theory* (Publication Number 13423186) [Ph.D., University of Nevada, Las Vegas]. ProQuest Dissertations & Theses Global. Ann Arbor.

Boggs, J. G. (2001). *Social application of the arts: Making a difference through art* (Publication Number 3036445) [Ph.D., University of Washington]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Bonertz, C. M. (2010). *The effect of visual, verbal, and auditory instruction on motor performance and learning for persons with Down syndrome* (Publication Number

MR68049) [M.S., University of Alberta (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Boone-Smith, B. L. (2020). *The Power of Music Education in the Lives of First Year College Students Experience: A Narrative Inquiry* (Publication Number 27832025) [EDD/CI, University of Phoenix]. ProQuest Dissertations & Theses Global. Ann Arbor.

Boren, N. D. (2002). *The relationship of selected variables to student achievement in a rural Missouri high school* (Publication Number 3052148) [Ed.D., University of Missouri - Columbia]. ProQuest Dissertations & Theses Global. Ann Arbor.

Borgonovi, F. (2005). *Public policy and the performing arts: Intended and unintended consequences of public subsidies* (Publication Number U206256) [Ph.D., London School of Economics and Political Science (United Kingdom)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Boshoff, A. E. M. J. (2014). *Professional development of academic staff in private higher education* (Publication Number 3713832) [Ph.D., University of Pretoria (South Africa)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Bowe, R. C. J. (2020). *Core Subject Integration in the K-6 Music Classroom* (Publication Number 28026115) [Ph.D., The University of Southern Mississippi]. ProQuest Dissertations & Theses Global. Ann Arbor.

Bowen, R. C. (2010). *Effects of pre-kindergarten music instruction on kindergarten reading and math scores for low SES ELL students* (Publication Number 3413118) [Ed.D., Trevecca Nazarene University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Boyce, W. M. (1998). *Where do I go from here? A brief introduction to gifted education for the beginning teacher* (Publication Number 1391197) [M.A., Pacific Lutheran University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Boyes, S. E. (2003). *A balancing act: The effects of participation in a school musical on its performers* (Publication Number NQ78323) [Ed.D., University of Toronto (Canada)]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Boyle, A. (2017). *Developing Spatial Reasoning Skills: The Effects of Socialized Block Play* (Publication Number 10666058) [Psy.D., Pace University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Boyle, D. (2011). *Exploring a university teacher's approach to incorporating music in a cognition psychology course* (Publication Number NR78600) [Ph.D., McGill University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Brand, E. K. (2016). *Humanistic Vocal Pedagogy: Exploring a Voice Teacher's Scope of Practice through a Perspective of Wellness* (Publication Number 10169070) [D.M.A., The Ohio State University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Brandl, L. M. (2000). *Neurological research and its implications for a Kodaly-Based elementary general music program* (Publication Number EP31748) [M.A., Silver Lake College]. ProQuest Dissertations & Theses Global. Ann Arbor.

Braunreuther, J. (2010). *Public school arts classes and academic achievement: A study of the relationship between middle school outcome measures and the extent to which students engage in art courses* (Publication Number 3402746) [Ph.D., University of South Carolina]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Brickle, J. (2010). *Exploring direct-care professionals' perception of the effect of supervisors' emotional intelligence on practice* (Publication Number 3448378) [D.M., University of Phoenix]. ProQuest Dissertations & Theses Global. Ann Arbor.

Brooks, M. R., Estes, J. S., & Mitchell, D. R. (2019). *Effects of an After-School Theater Program on Student Attendance, Behavior, Academic Achievement and Social and Emotional Skills* (Publication Number 27664541) [Ed.D., Lipscomb University]. ProQuest Dissertations & Theses Global; ProQuest One Literature; Social Science Premium Collection. Ann Arbor.

Brown, B. J. (1999). *A study of the seven strands of soul-making in the musicals of Andrew Lloyd-Webber* (Publication Number 9934584) [D.Min., Fuller Theological Seminary, Doctor of Ministry Program]. ProQuest Dissertations & Theses Global. Ann Arbor.

Brown, B. M. (2017). *An Inquiry into the Relationship Between Student Music Background and Academic Science Achievement -A Correlational Study* (Publication Number 10636364) [Ph.D., Northcentral University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Brown, D. (2018). *Quantitative Study of the Effect of Fourth Graders' Comprehension Integrating Literacy Songs in Texas* (Publication Number 13425098) [Ed.D., Northcentral University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Brown, H. (2010). *I must walk through the gate: An ontological necessity* (Publication Number NR64565) [Ph.D., Brock University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Brown, L. A. (2008). *Perceiving and communicating love: A grounded exploration of recalled leader -follower interactions from middle-childhood* (Publication Number 3346632) [Ed.D., University of Phoenix]. ProQuest Dissertations & Theses Global. Ann Arbor.

Brown, N. (2021). *Authentic Leadership in Crisis Scenarios: A Phenomenological Examination of the Lived Experience of Corporate Leaders During the COVID-19 Pandemic* (Publication Number 28775888) [Ph.D., Pepperdine University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Brun, S. (2021). *Sonic Stretching: Listening for Shadow in Depth Psychological Inquiry* (Publication Number 28966989) [Ph.D., Pacifica Graduate Institute]. ProQuest Dissertations & Theses Global. Ann Arbor.

Bruschi, M. (2021). *Hearing the Tonality in Microtonality* (Publication Number 28321192) [Ph.D., Yale University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Bryant, C. (2000). *The life -world of the primary teacher: The lived body* (Publication Number 9979153) [Ed.D., Oklahoma State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Buckley, D. L. (2019). *Part-Time College Instructors' Perceptions of Multiple Intelligence Theory* (Publication Number 13861009) [Ed.D., Endicott College]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Buckner, L. Y. (2020). *The Impact of Little Kids Rock Modern Band Programs on Elementary Mathematics Achievement* (Publication Number 28690985) [D.Ed., University of North Texas]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Burdman, N. (2007). *Teaching staff notation in fourth grade General Music: Exploring the effectiveness of a multisensory approach* (Publication Number 3307983) [Ed.D., Cambridge College]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Bures, R. (2009). *How non -music majors experience the value of participating in music* (Publication Number 3358977) [Ed.D., Saint Mary's University of Minnesota]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Bury-Kamińska, M. (2020). Zastosowanie metody Tomatisa w terapii dziecka z zespołem Guillaina-Barrégo. *Logopedia*, *49*(1), 197-218.

Burns, M. A. (2002). *ArtsBridge: An exploration of collaborative outreach in the arts* (Publication Number 3061364) [Ed.D., University of California, Irvine]. ProQuest Dissertations & Theses Global. Ann Arbor.

Burris, L. A. (2011). *A Case Study of Differentiated Instruction in Upper Elementary Mathematics and Reading Classrooms* (Publication Number 3469057) [Ed.D., Walden University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database; Social Science Premium Collection. Ann Arbor.

Buzzelli-Clarke, E. (2008). *The academic environment of one junior high school in northeastern Pennsylvania as perceived by the administration and the English, mathematics, and music faculty: An ethnography* (Publication Number 3303590) [D.Ed., Indiana University of Pennsylvania]. ProQuest Dissertations & Theses Global; Publicly Available Content Database; Social Science Premium Collection. Ann Arbor.

Byers, K. L. (2012). *A philosophical inquiry of music therapy: Seeking points of unification* (Publication Number NR89512) [Ph.D., The University of Western Ontario (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Byrne, D. A. (2009). *The effects of service learning and reflection on the pre-service teacher education student's emotional intelligence* (Publication Number 3356893) [Ph.D., Union Institute and University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Becker, C. (2016). *Molecular Mechanisms Underlying the Failures of Therapeutics in the Treatment of Malignant Glioma* University of Minnesota].

Benway, T. A. (2017). *Investigation of SAP, NPTX1 and their interaction on synaptic function and microglia activity and their possible role in Alzheimer's disease* University College London (University of London)].

Bicsak, B. (2015). *Use of an Atg16l1 mouse model to study the role played by autophagy in neuroprotection* University of East Anglia].

Cabanac, A., Perlovsky, L., Bonniot-Cabanac, M. C., & Cabanac, M. (2013). Music and academic performance. *Behavioural brain research*, *256*, 257-260. https://doi.org/10.1016/j.bbr.2013.08.023

Calder, B. D. (2008). *The Selection and Evaluation of Audio-visual Media for Supporting Learners with Behavioral Problems (LBP)* (Doctoral dissertation, University of South Africa).

Canbeyli, R. (2013). Sensorimotor modulation of mood and depression: in search of an optimal mode of stimulation. *Frontiers in human neuroscience*, *7*, 428. https://doi.org/10.3389/fnhum.2013.00428

Carlyle, T. Excellent Self-Programming with the Unconscious.

Cezar, R. A. G. (2019). *Musical and Religious Experiences: Their Relationship and Influences on Humanity* (Doctoral dissertation, University of Wales Trinity Saint David (United Kingdom)).

Chaichan, W. (2004). Olanzapine plus fluvoxamine and olanzapine alone for the treatment of an acute exacerbation of schizophrenia. *Psychiatry and clinical neurosciences*, *58*(4), 364-368. https://doi.org/10.1111/j.1440-1819.2004.01269.x

Chen, J., Su, R., Lv, Z., Xiao, J., Zhao, Y., Wang, D., & Jiang, E. (2021). The Effect of Acute Aerobic Exercise with Music on Executive Function: The Major Role of Tempo Matching. *Physical Activity and Health*, *5*(1).

Chou, C. C., Provost, J. J., Waye, M. M. Y., Yu, G. F. B., & Macaulay, J. O. (2020). Tools for teaching biochemistry and molecular biology: A parallel session at the IUBMB/PSBMB 2019 "Harnessing Interdisciplinary Education in Biochemistry and Molecular Biology" conference. *Biochemistry and Molecular Biology Education*, *48*(6), 608-614. https://doi.org/10.1002/bmb.21445

Chow, R., Noly-Gandon, A., Moussard, A., Ryan, J. D., & Alain, C. (2021). Effects of transcranial direct current stimulation combined with listening to preferred music on memory in older adults. *Scientific Reports*, *11*(1), 1-13. https://doi.org/10.1038/s41598-021-91977-8

Congreve, W. Soothing the savage breast Professor Glenn Wilson Visiting Gresham Professor of Psychology.

Cacciafesta, M., Ettorre, E., Amici, A., Cicconetti, P., Martinelli, V., Linguanti, A. E. E. A., ... & Marigliano, V. (2010). New frontiers of cognitive rehabilitation in geriatric age: the Mozart Effect (ME). *Archives of gerontology and geriatrics*, *51*(3), e79-e82. https://doi.org/10.1016/j.archger.2010.01.001

Conrad, C., Niess, H., Jauch, K. W., Bruns, C. J., Hartl, W. H., & Welker, L. (2007). Overture for growth

Curtis, D., Unit, E. M., & Conservatorium, E. (2007). Binaural beats, brain wave entrainment and the hemi-sync process. *Electronic Music Unit. Elder Conservatorium. University of Adelaide*.

Cacchiotti, R. J. (2011). *A study in fostering student engagement through guided developmental critical reflection skills and critical thinking skills* (Publication Number 3487198) [D.Ed., Capella University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Callahan, H. (2016). *Emotional Intelligence: A Leader's Impact on Productivity in a Distribution Environment* (Publication Number 10103537) [Ed.D., Brandman University]. ProQuest Dissertations & Theses Global; ProQuest One Business; Social Science Premium Collection. Ann Arbor.

Calle Albert, I. (2013). *Fundamentos histórico-artísticos de la música como medio terapéutico en europa: Desde la edad media hasta el prerromanticismo* (Publication Number 10126330) [Dr., Universitat de Valencia (Spain)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Calloway, J. (2009). *In search of music equity in an urban middle school* (Publication Number 3362521) [Ed.D., University of San Francisco]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Callwood, A. (2015). *Developing and evaluating the multiple mini interview in student midwife selection* (Publication Number 10088258) [Ph.D., University of Surrey (United Kingdom)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Came, K. D. (2021). *Songs from the Geomythical Realm: An Eco-Psychological Interpretation of the Auditory Mind* (Publication Number 28966999) [Ph.D., Pacifica Graduate Institute]. ProQuest Dissertations & Theses Global; ProQuest One Literature; Publicly Available Content Database. Ann Arbor.

Campagna, G. (2012). *Household density and academic standing among community college students: The effects of time orientation and spatial self-regulation* (Publication Number 3541769) [Ph.D., City University of New York]. ProQuest Dissertations & Theses Global. Ann Arbor.

Campbell, C. L. (2000). *Classical music compact discs and books for Georgia's infants: Use and relationship to infant development one year later as reported by low -income caregivers* (Publication Number 9976690) [Ph.D., Georgia State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Campbell, K. (1999). *Music in the Foreign Language Classroom: Can it Enhance Vocabulary Comprehension?* (Publication Number EP75791) [M.E.T., Eastern Oregon University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Cane, P. M. (2000). *Trauma healing and transformation: Body -mind -spirit practices for grassroots people* (Publication Number 9970487) [Ph.D., The Union Institute]. ProQuest Dissertations & Theses Global. Ann Arbor.

Caniglia-Robiolio, M. (2021). *Arts Education: An Essential Experience* (Publication Number 28412028) [D.Litt., Drew University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Capraro, R. J. (2016). *The relationship between emotional intelligence and job satisfaction: A quantitative study of residential home construction managers* (Publication Number 10239955) [D.B.A., Capella University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Cardarelli, D. M. (2003). *The effects of music instrumental training on performance on the reading and mathematics portions of the Florida Comprehensive Achievement Test for third -grade students* (Publication Number 3110046) [Ed.D., University of Central Florida]. ProQuest Dissertations & Theses Global. Ann Arbor.

Carpentier, S. M. (2018). *It's Not Simple or Brain Signal Complexity as an Index of Neural Information Processing Described via Music Perception, Complexity and Reward* (Publication Number 10937176) [Ph.D., University of Toronto (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Carrier, N. (2014). *What Catches On? The Role of Evidence in the Promotion and Evaluation of Educational Innovations* (Publication Number 3709050) [Ph.D., University of Toronto (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Carson-Swift, K. J. (2022). *Move to Read: Entrainment Activities and Pre-reading Skills of Kindergarteners* (Publication Number 28776473) [D.M.A., Boston University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Casassa, K. (2020). *The Role of a Summer Arts-Based Immersion Program in Creating Access and Opportunity for Middle School Students* (Publication Number 28410171) [Ph.D., San Diego State University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Castillo, D. (2007). *Music fun land: Computer-assisted music instruction* (Publication Number 1451158) [M.A., California State University, Long Beach]. ProQuest Dissertations & Theses Global. Ann Arbor.

Cavanaugh, L. K. (2005). *A study of the effects of music on middle school students' math test scores* (Publication Number 3194216) [Ph.D., Barry University - Adrian Dominican School of Education]. ProQuest Dissertations & Theses Global. Ann Arbor.

Caviness, L. B. (2001). *Educational brain research as compared with E. G. White's counsels to educators* (Publication Number 3019334) [Ph.D., Andrews University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ceylan, F. (2012). *Okul öncesi Dönem öğretme Engellilerde Müzik Eğitimi Ile çocukların Gelişim özellikleri üzerine Terapötik Bir çalışma* (Publication Number 28582912) [Master's, Marmara Universitesi (Turkey)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Chacona, S. M. (2007). *Effect of world music drumming on auditory and visual attention skills of ADHD elementary students* (Publication Number 3274167) [Ph.D., Lynn University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Chambers, J. (2014). *Japanese student perception on ambient Western classical music and conversational English education* (Publication Number 3708589) [Ph.D., University of Phoenix]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Champagne, J. T. (2010). *The effects of music on attention and vigilance during a continuous performance test* (Publication Number 1487329) [M.S., University of South Alabama]. ProQuest Dissertations & Theses Global. Ann Arbor.

Chand O'Neal, I. (2017). *The Cognitive and Attitudinal Effects of Arts Integrated Instruction On 4th and 5th Grade Elementary School Students* (Publication Number 10615154) [Ph.D., The Claremont Graduate University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Chatterjee, I. (2015). *Impact of Music Therapy using Hindustani Ragas and Social Skills Training on Negative Symptoms in Patients with Schizophrenia* (Publication Number 10169130) [M.&S.P., Central Institute of Psychiatry (India)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Chavez, G. A. (2008). *The effect of metal music on male adolescent anger, aggression, and alienation, moderated by parent -child attachment and parent -child relationship* (Publication Number 3306685) [Ph.D., Fielding Graduate University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Chavez, J. D. (2016). *Analyzing the satisfaction with life of drum corps and marching band alumni* (Publication Number 10106090) [Ph.D., Indiana State University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Chen, G. (2018). *The Effects of Listening to Music at Work on the Perceived Stress and Performance Levels of Organizational Development Professionals* (Publication

Number 13418828) [M.S., Pepperdine University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Cheung, S. K. (2012). *The effects of the music-with-movement intervention of the cognitive functions of people with moderate dementia* (Publication Number 3574109) [Ph.D., Hong Kong Polytechnic University (Hong Kong)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Chevalier, L. (2005). *Music: A voice in the classroom* (Publication Number 1430038) [M.A., Pacific Lutheran University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Chew, D. Y. (2005). *Computer-assisted instruction for music theory education: Rhythm in music* (Publication Number 1430814) [M.A., California State University, Dominguez Hills]. ProQuest Dissertations & Theses Global. Ann Arbor.

Chiu, P.-Y. (2017). *A Comparative Evaluation of Group and Private Piano Instruction on the Musical Achievements of Young Beginners* (Publication Number 10250902) [D.M.A., University of Washington]. ProQuest Dissertations & Theses Global. Ann Arbor.

Christiansen, L. N. (2003). *Breaking barriers in classical music: A public relations plan for the Music Academy of the West* (Publication Number 1416543) [M.A., University of Southern California]. ProQuest Dissertations & Theses Global; ProQuest One Business. Ann Arbor.

Chybowski, J. J. (2008). *Developing American taste: A cultural history of the early twentieth-century music appreciation movement* (Publication Number 3314214) [Ph.D., The University of Wisconsin - Madison]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ciesko, D. L. (2009). *Emotional intelligence and college-readiness: A study* (Publication Number 3378412) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Clark, A. (2019). *Implementing the Australian Curriculum in Music: An Initial Study Assessing its Praxial Potential in Secondary Schools in Canberra* (Publication Number 28758844) [Ph.D., The Australian National University (Australia)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Claros, E. (2010). *The relationship between emotional intelligence and abuse of alcohol, marijuana, and tobacco among college students* (Publication Number 3398861) [Ph.D., Walden University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Clary, A. A. (2021). *Music as Complementary and Alternative Medicine (CAM) Therapy: An Exploratory Literature Review* (Publication Number 28771786) [D.M.A., University of South Carolina]. ProQuest Dissertations & Theses Global. Ann Arbor.

Cleavinger, H. B. (2004). *Quantitative magnetic resonance image analysis of the cerebellum in macrocephalic and normocephalic children and adults with autism* (Publication Number 3118996) [Ph.D., Brigham Young University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Cochran, K. H. (2008). *The effects of singing and chanting on the reading achievement and attitudes of first graders* (Publication Number 3316398) [Ph.D., Clemson University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Colbert, D. (2019). *Relational Skills and Intelligence: Developing a Functional Account of Intellectual Performance and its Enhancement* (Publication Number 28392487) [Ph.D., National University of Ireland, Maynooth (Ireland)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Coleclough, S. (2014). *Film Performance: The Role of the Actor within Cinematic Expression* (Publication Number 28465421) [Ph.D., University of Salford (United Kingdom)]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Coleman, V. M. (2013). *National Music Education Standards and Adherence to Bloom's Revised Taxonomy* (Publication Number 3552682) [Ed.D., Walden University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database; Social Science Premium Collection. Ann Arbor.

Collins, S. (2012). *The emotional intelligence profiles and cognitive measures of nurse anesthesia students in the Southeastern United States* (Publication Number 3523102) [Ph.D., Andrews University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Collischonn, R. A. (2015). *The mediator's understanding of the environment's effect on affect* (Publication Number 3680363) [Psy.D., The University of the Rockies]. ProQuest Dissertations & Theses Global. Ann Arbor.

Conger, A. C. (2015). *Bodies of knowledge Cultures of embodied knowing in American university dance majors* (Publication Number 3716681) [Ph.D., Indiana University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Connell, M. W. (2005). *Foundations of educational neuroscience: Integrating theory, experiment, and design* (Publication Number 3207712) [Ed.D., Harvard University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Conrad, L. E. (2015). *Understanding the relationship of a multiple intelligences framework and differentiated instruction: A qualitative research study of the Chapel Hill-Chauncy Hall school faculty* (Publication Number 3723103) [Ed.D., University of Pennsylvania]. ProQuest Dissertations & Theses Global. Ann Arbor.

Conroy, R. J. (2017). *Beyond Emotional Intelligence: A Correlational Study of Multifactor Measures of Performance and Law Enforcement Leadership Styles* (Publication Number 10643144) [Ph.D., Dallas Baptist University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Cook, P. M. (2005). *Ghost healer: Music healing in a North Indian village* (Publication Number 3199797) [Ph.D., University of Washington]. ProQuest Dissertations & Theses Global. Ann Arbor.

Copeland, N. C. (2010). *The relationship between melody and prosody: Perception and production capabilities of musicians and non-musicians* (Publication Number 3430853) [Ph.D., University of Illinois at Urbana-Champaign]. ProQuest Dissertations & Theses Global. Ann Arbor.

Corboy, P. A. (1999). *The transpersonal aspect of guided imagery and music and addiction recovery* (Publication Number 1396861) [M.A., Prescott College]. ProQuest Dissertations & Theses Global. Ann Arbor.

Cotton, C. (2013). *Appreciation of Music Education Benefits for At-Risk Middle School Students* (Publication Number 3568244) [Ed.D., Walden University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Courson, R. W. (2018). *A Causal-Comparative Analysis of Performance-based Music Classes and Act Scores* (Publication Number 10788139) [Ed.D., Liberty University]. ProQuest Dissertations & Theses Global; ProQuest One Literature; Social Science Premium Collection. Ann Arbor.

Cox, R. W. (2001). *Effects on academic achievement for fifth-grade students in a band pull-out program* (Publication Number 1405730) [M.A., California State University, Fresno]. ProQuest Dissertations & Theses Global. Ann Arbor.

Cramen, L. K. (2009). *Emotional intelligence: The catalyst for leadership development in dental hygienists* (Publication Number MR55872) [M.A., Royal Roads University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Craner, P. M. (1999). *A monotonal analysis of Brahms' Intermezzo Op. 117 No. 2 based upon a selective exegesis of Arnold Schoenberg's pedagogical writings* (Publication Number 9923682) [Ph.D., The Florida State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Cranmore, J. L. (2014). *Experiences and perceptions of students in music and mathematics* (Publication Number 3691146) [Ph.D., University of North Texas]. ProQuest Dissertations & Theses Global. Ann Arbor.

Craston, P. (2008). *Applying Cognitive Electrophysiology to Neural Modelling of the Attentional Blink* (Publication Number U518904) [Ph.D., University of Kent (United Kingdom)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Crittenden, M. A. (2000). *The role of the instructional supervisor since the implementation of the Kentucky Education Reform Act of 1990* (Publication Number 9964906) [Ed.D., Peabody College for Teachers of Vanderbilt University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Cross, J. M. G. (2001). *Educating the visual imagination: Paradigm and process* (Publication Number 9992296) [Ph.D., The University of Texas at Dallas]. ProQuest Dissertations & Theses Global. Ann Arbor.

Crowley, W. (2022). *How Former Music Students Perceive Secondary Music Ensemble Education as It Influences Their Social-Emotional Competencies: A Qualitative Case Study* (Publication Number 29165941) [Ed.D., Concordia University Texas]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Crump, L. V. (2008). *Exploratory study of retention and emotional intelligence in public health: The case of the Coastal Health District, GA* (Publication Number 3329823) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global; ProQuest One Business. Ann Arbor.

Cruz, H. C. (2021). *Music Therapy and Anxiety in an Urgent Care Setting* (Publication Number 28646501) [D.N.P., Brandman University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Cueva, D. (2019). *A Survey of Western Music for Mathematically Inclined Students* (Publication Number 13862516) [M.A., Arizona State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Culham, T. E. (2012). *Ethics Education of Business Leaders* (Publication Number NS22549) [Ph.D., Simon Fraser University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Cohen, B. S. (2014). *Epizootiology of cranial abscess disease in white-tailed deer* University of Georgia].

Collins, J. M. (2016). *The effect of traumatic brain injury in experimental models of Alzheimer's disease* University of Tasmania].

Conner, L. B. (2013). *The Association of Amyloid Plaque Count with a Decrease in the Complexity of the BOLD Signal Observed in Alzheimer's Disease* University of California – San Francisco].

Courchesne-Loyer, A. (2017). *Étude de la stimulation cétogénique chez l'adulte en bonne santé : impact sur le métabolisme énergétique cérébral: Study of a ketogenic stimulation in healthy adults : effect of ketosis on brain energy metabolism* University de Sherbrooke].

Daud, S. N. S. S., & Sudirman, R. (2022). Effect of audiovisual stimulation on adult memory performance based electroencephalography wavelet analysis. *Biomedical Signal Processing and Control*, *76*, 103659. https://doi.org/10.1016/j.bspc.2022.103659

Dennis, E. (2016). Music, Dementia and Everyday Life within a Community Day Care Setting.

Descloux, C. (2011). *Hippocampus size predicts fluid intelligence in musically trained people* (Doctoral dissertation, Université de Lausanne, Faculté de biologie et médecine).

Dingman, L. L. (2003). *Music, mind, and the total éducation of the developing child* (Doctoral dissertation, State University of New York Empire State College).

dos Reis Lestard, N., Valente, R. C., Lopes, A. G., & Capella, M. A. (2013). Direct effects of music in non-auditory cells in culture. *Noise and Health*, *15*(66), 307.

Douglas, D. (1997). Alaska's Children, 1997. *Alaska's Children*.

Dueck, J. R. (2003). *Issues of inclusion: The relationship between teacher attitudes towards inclusion and teacher practice*(Doctoral dissertation, Lethbridge, Alta.: University of Lethbridge, Faculty of Education, 2003).

Dahl, S. (2004). *Divine dialogue: A mystic's exploration of embodied wisdom* (Publication Number MQ97322) [M.A., St. Stephen's College (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Dalin, J. (2010). *Gurdjieff and the secret society in New York* (Publication Number EP72063) [M.F.A., Fashion Institute of Technology, State University of New York]. ProQuest Dissertations & Theses Global. Ann Arbor.

Daniels, M. L. (2006). *The impact of performing on the performing musician* (Publication Number 3244183) [Ph.D., Union Institute and University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Dartt, K. M. (2009). *Effects of background music on preschoolers' attention* (Publication Number 3399413) [Ed.D., University of North Texas]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Davids, K. P. (2016). *Sine Qua Non: Emotional Intelligence as the Key Ingredient to Effective Principal Leadership* (Publication Number 10142764) [Ed.D., Brandman University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

De Bartolo, D., Morone, G., Giordani, G., Antonucci, G., Russo, V., Fusco, A., ... & Iosa, M. (2020). Effect of different music genres on gait patterns in Parkinson's disease. *Neurological Sciences*, *41*(3), 575-582. https://doi.org/10.1007/s10072-019-04127-4

Davis, J. (2011). *Evaluating a social skills training protocol in a private setting: Outcomes and issues* (Publication Number 3498176) [Ph.D., University of Nevada, Las Vegas]. ProQuest Dissertations & Theses Global. Ann Arbor

Davis, J. B. (2004). *Capable of a miracle: Meanings and purposes in an urban community school of music* (Publication Number 3152390) [D.M.A., Arizona State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Davis, M. C. (2007). *A study of a youth music center: Out -of -school time programs, music and positive youth development* (Publication Number 3239980) [Ph.D., University of Virginia]. ProQuest Dissertations & Theses Global. Ann Arbor.

Davis, R. E. (2019). *Approaches to Teaching Music Reading to Piano Students with Autism Spectrum Disorder* (Publication Number 27546247) [D.M.A., University of South Carolina]. ProQuest Dissertations & Theses Global. Ann Arbor.

Dean, S. (2006). *Understanding an achievement gap: Exploring the relationship between attention, working memory, and academic achievement* (Publication Number 3209993) [Ed.D., University of Pennsylvania]. ProQuest Dissertations & Theses Global. Ann Arbor.

DeCaro, R. E. (2020). *Unbelieving the Believable: Confidence and the Correction of Psychology-related Misconceptions* (Publication Number 28089235) [Ph.D., Tufts University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Demuru, M. (2015). *Topology matters: characteristics of functional brain networks in healthy subjects and patients with Epilepsy, Diabetes, or Amyotrophic Lateral Sclerosis during a resting-state paradigm* Università di Cagliari].

DeJesns-Rueff, M. (2016). *Beautiful, Beautiful Math: Using Objects of Art as Catalysts for Higher-Order Thinking in Mathematics Lessons* (Publication Number 10165486) [Ed.D., University of Rochester]. ProQuest Dissertations & Theses Global; Publicly Available Content Database; Social Science Premium Collection. Ann Arbor.

DeLong, L. D. (2002). *The effects of EEG neurofeedback and neuro -cognitive processing in the educational environment of an arts -based private elementary /middle school* (Publication Number 3057828) [Ph.D., Union Institute and University]. ProQuest Dissertations & Theses Global. Ann Arbor.

DePape, A.-M. R. (2007). *Musical expertise, bilingualism and executive functioning* (Publication Number MR31986) [M.A., York University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

DePons, L. (2010). *Co-meditative singing at the time of death: A depth perspective* (Publication Number 1482028) [M.A., Pacifica Graduate Institute]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Deppe, S. (2012). *An investigation of the relationships between mathematics and music skills of students participating in successful high school instrumental music programs* (Publication Number 3510144) [Ed.D., Lamar University - Beaumont]. ProQuest Dissertations & Theses Global. Ann Arbor.

Di Terlizzi, M. A. (2015). *A Reading Intervention Programme for Adolescents* (Publication Number 28305729) [D.Ed., University of Johannesburg (South Africa)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Diakou, M. (2013). *Using Songs to Enhance Language Learning and Skills in the Cypriot Primary EFL Classroom* (Publication Number U612542) [Ed.D., Open University (United Kingdom)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Dial, S. E. (1995). *The effects of background music on initial counseling sessions* (Publication Number 9616859) [Ed.D., Western Michigan University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Diaz, A. L. (2008). *Leadership training and emotional intelligence in school nurses* (Publication Number 3319126) [Ph.D., University of Nevada, Las Vegas]. ProQuest Dissertations & Theses Global. Ann Arbor.

Dickie, A. M. (2014). *The effects of extracurricular activity involvement on developmental experiences and student achievement* (Publication Number MS25342) [M.Ed., Nipissing University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Dillon, N. E. (2013). *The relationship between emotional intelligence and leadership practices of human services adminstrators* (Publication Number 3602838) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global; ProQuest One Business. Ann Arbor.

Dingman, L. L. (2003). *Music, mind, and the total education of the developing child* (Publication Number 1415501) [M.A.L.S., State University of New York Empire State College]. ProQuest Dissertations & Theses Global. Ann Arbor.

DiRaimondo, D. C. (2002). *The magic within the music: Exploring the use of music in psychotherapy with adolescents* (Publication Number 3052970) [Psy.D., Alliant International University, San Francisco Bay]. ProQuest Dissertations & Theses Global. Ann Arbor.

Dlouhy-Stevenson, S. (2007). *Dancing to the beat of a different drummer: The lived experiences of elementary school band teachers in urban Saskatchewan: A phenomenological inquiry* (Publication Number MR42453) [M.Ed., The University of Regina (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Dolceamore, V. (2020). *The Influence of Music and Performing Arts Education in K-12: A Qualitative Case Study Analysis* (Publication Number 28095250) [Ed.D., Drexel University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Domingos, C. d. S. (2020). *Eeg Neurofeedback in Active Athlete Students: A Methodological Approach* (Publication Number 28784364) [Ph.D., Universidade de Lisboa (Portugal)]. Biological Science Collection; ProQuest Dissertations & Theses Global. Ann Arbor.

Domingos, C. d. S. (2020). *Eeg Neurofeedback in Active Athlete Students: A Methodological Approach* (Publication Number 28784364) [Ph.D., Universidade de Lisboa (Portugal)]. Biological Science Collection; ProQuest Dissertations & Theses Global. Ann Arbor.

Dosso, J. L. (2004). *Coming home to the self through freeing the singing voice* (Publication Number MQ97323) [M.A., St. Stephen's College (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Douglas, K. A. (2011). *A descriptive analysis of the psychological needs of adults participating in music ensembles: A survey of the New Horizon International Music Association ensemble participants* (Publication Number 3473456) [Ph.D., The University of North Carolina at Greensboro]. ProQuest Dissertations & Theses Global. Ann Arbor.

Dove, M. K. (2009). *The relationship of rhythmic and melodic perception with background music distraction in college level students* (Publication Number 3358711) [Ph.D., University of Kansas]. ProQuest Dissertations & Theses Global. Ann Arbor.

Dow, G. T. (2008). *An investigation of the influence of media modality (text, radio, and television) on creativity, problem solving, and recall: An information processing perspective* (Publication Number 3315915) [Ph.D., Indiana University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Downey, M. M. (2006). *An investigation on the education and use of complementary and alternative therapies by nurses in personal and professional practice* (Publication Number 3265571) [Ph.D., University of Idaho]. ProQuest Dissertations & Theses Global. Ann Arbor.

Downing, J. S. (2003). *What TV taught: Children's television and consumer culture from "Howdy Doody" to "Sesame Street"* (Publication Number 3129700) [Ph.D., The University of North Carolina at Chapel Hill]. ProQuest Dissertations & Theses Global. Ann Arbor.

Doyle, P. A. (2020). *A Study of Grit and Self-Regulation in Students, Instructor Effectiveness, and Purposeful Course Design of Asynchronous Online Statistic Courses in Higher Education* (Publication Number 28149659) [Ph.D., State University of New York at Buffalo]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Drakeford, J. G. (2010). *The Howard Gardner School: A portrait of a small progressive, independent and alternative high school for bright, creative non-traditional learners* (Publication Number 3397311) [Ed.D., The George Washington University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Draper, L. H. (2009). *The relationship between teacher efficacy and multiple learning competencies with arts and non-arts educators* (Publication Number 3388673) [Ph.D., Lynn University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Dryver, H. M. (2012). *The impact of music education on the retention and academic achievement of African American students in the urban public school setting* (Publication Number 1516884) [M.M.Ed., University of Nebraska at Omaha]. ProQuest Dissertations & Theses Global. Ann Arbor.

Dubitsky, J. (2014). *An Investigation to Evaluate the Benefits of the Integrated Listening Systems (iLs) in Primary/Early Elementary Classrooms (Kindergarten-Third Grade): The Case of Valley View Academy in Northern California* (Publication Number 3646278) [Ed.D., University of California, Davis]. ProQuest Dissertations & Theses Global. Ann Arbor.

Dublar-Moss, J. A. (2015). *A quantitative study of orchestra education and academic achievement* (Publication Number 3701595) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ducas, J. (2014). *Using Trait Self-Distancing to Predict Affective States* (Publication Number 28389128) [M.Sc., Queen's University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Duffy, H. (2013). *Music and Transformation: Healing While Creating, Sharing, and Listening* (Publication Number 1522689) [M.A., Pacifica Graduate Institute]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Duggan, T. J. (2003). *Uses of music in the high school English/language arts classroom in South Dakota: Teacher perceptions and practices* (Publication Number 3114013) [Ed.D., University of South Dakota]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Dunbar, L. L. (2014). *The effect of music on impulsivity in college undergraduate students with attention deficits* (Publication Number 3626128) [Ph.D., The University of Arizona]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Duncan, D. J. (2007). *The relationship between creativity and the Kindermusik experience* (Publication Number 1448360) [M.S., University of Central Missouri]. ProQuest Dissertations & Theses Global. Ann Arbor

Duvall, H. C. (2005). *Relationships among rhythmic achievement in music, mathematics achievement, and selected variables of third-, fourth-, and fifth-grade students* (Publication Number 3206295) [Ph.D., The University of North Carolina at Greensboro]. ProQuest Dissertations & Theses Global. Ann Arbor.

Denenea, S. E. E., & Loyo, J. R. Meaestro en ciencia del comportamiento.

Dickie, D. A. (2014). *Methods to assess changes in human brain structure across the lifecourse* University of Edinburgh].

Dong, A. (2017). *Analyzing Heterogeneity In Neuroimaging With Probabilistic Multivariate Clustering Approaches* University of Pennsylvania].

Dwyer, S. T. (2021). *Oligodendrocyte dysfunction in dementia and Alzheimer's disease* University of Tasmania]

Edwards, R. D. (2008). *The neurosciences and music education: An online database of brain imaging neuromusical research*(Doctoral dissertation, The University of North Carolina at Greensboro).

Eldor, J. (2019). Extensive Piano Practicing has Regionally Specific Effects on White Matter Development in Autism. *J Biomed Res Rev*, *2*, 45-54.

Eastes, B. (2016). *Fluid and Crystallized g vs. Multiple Intelligence: A Structural Equation Modeling Study of Human Intelligence Theories & Measurement* (Publication Number 10140345) [M.S., George Mason University]. Biological Science Collection; ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Edgington, U. (2013). *Performativity and Affectivity: Lesson Observations in England's Further Education Colleges* (Publication Number 28165647) [Ph.D., Canterbury Christ Church University (United Kingdom)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Edstrand, C. S. (2015). *A Comparative Analysis of Students' Involved and Not Involved in High School Band and Academic Achievement* (Publication Number 3702597) [Ed.D., Concordia University Chicago]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Edwards, C. G. (2002). *Auditory stimulation and its effect on spatial temporal ability* (Publication Number EP31897) [M.S., Embry-Riddle Aeronautical University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ellis, N. R. (2007). *The effect of nutrition knowledge on food choices and body mass index percentile rankings of elementary school children: Results from an in-school nutrition education program* (Publication Number 3276356) [Ph.D., University of Central Florida]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ellis, R. J. (2009). *The effect of musical tempo on subjective and physiological indices of affective response* (Publication Number 3378263) [Ph.D., The Ohio State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Elpus, K. (2011). *Justifying Music Education: Econometric Analyses of Issues in Music Education Policy* (Publication Number 3456550) [Ph.D., Northwestern University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Emmett, D. W. (2018). *Individual Ability to Learn a Parallel Processing Technique and Musical Aptitude* (Publication Number 10828839) [Ph.D., Walden University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Englehardt, P. O. (2005). *The effect of the Yamaha Music In Education keyboard instructional approach on the musical and nonmusical outcomes of middle school students* (Publication Number 3198737) [Ph.D., University of Miami]. ProQuest Dissertations & Theses Global. Ann Arbor.

Erdimez, O. (2017). *Turkish Pre-Service Elementary School Teachers' Perceptions of Giftedness and Factors Affecting Their Referral Decisions* (Publication Number 10274998) [Ph.D., The University of Arizona]. ProQuest Dissertations & Theses Global. Ann Arbor.

Erickson, D. A. (2005). *Language, ineffability and paradox in music philosophy* (Publication Number MR13300) [M.A., Simon Fraser University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Eröz, S. S. (2011). *Duygusal Zeka ve İletişim Arasindaki İlişki: Bir Uygulama* (Publication Number 28742821) [Ph.D., Bursa Uludag University (Turkey)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Erwin, D. (2016). *Fine Arts Coursework and Student Achievement Among African-American Students in a Midwest Setting* (Publication Number 10244375) [Ed.D., Lindenwood University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database; Social Science Premium Collection. Ann Arbor.

Erz, L. F. (2001). *Speaking our peace: Communicating partnership in deed and word. A curriculum for teacher education* (Publication Number 3039559) [Ph.D., The Union Institute]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Esping, A. (2007). *The search for meaning in graduate school: Viktor Frankl's existential psychology and academic life in a school of education* (Publication Number 3307567) [Ph.D., Indiana University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Estes, J. S., Brooks, M. R., & Mitchell, D. R. (2019). *Effects of an After-School Musical Theater Program on Student Attendance, Behavior, Academic Achievement, and Social and Emotional Skills* (Publication Number 27664510) [Ed.D., Lipscomb University]. ProQuest Dissertations & Theses Global; ProQuest One Literature; Social Science Premium Collection. Ann Arbor.

Evans, K. C. (2016). *Does studying music and sound design enhance academic abilities in undergraduate non-music majors? A phenomenological approach* (Publication Number 10307056) [Ph.D., The University of Texas at Dallas]. ProQuest Dissertations & Theses Global. Ann Arbor.

Evans, T. L. (2001). *Does systematic exposure to classical music in a learning environment improve standardized test scores of young adolescents? An empirical test of the "Mozart effect"* (Publication Number 1407177) [M.A., Southern Connecticut State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Everett-Brown, R. (2017). *Implications of Using Live Vocal Music as a Teaching Method in the Middle School Classroom* (Publication Number 10641326) [Ed.D., Grand Canyon University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Folgieri, R., & Lucchiari, C. (2015). The musical mind: a Brain Computer Interface approach. *Journal of Basic and Applied Research International*, 1-9.

FROM, S. E. "Inkwell."

Fargues, D. (2017). Les émotions évoquées par la musique chez les enfants présentant une épilepsie.

Faber, R. S. (2003). *Motivational and developmental stages in piano study* (Publication Number 3085759) [Ph.D., Vanderbilt University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Fagan, L. M. (2015). *Elementary School Teachers' Perception of Art Integration to Improve Student Learning* (Publication Number 3707622) [Ed.D., Walden University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Farlow, M. J. (2009). *The possible relationship between emotional intelligence and performance in Small Business Development Center regional groups in Texas*

(Publication Number 3385447) [Ph.D., University of the Incarnate Word]. ProQuest Dissertations & Theses Global. Ann Arbor.

Faronii-Butler, K. O. (2013). *The use of music and other forms of organized sound as a therapeutic intervention for students with auditory processing disorder: providing the best auditory experience for children with learning differences* (Publication Number 3603783) [Ed.D., Fielding Graduate University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Fashun, C. H. (2012). *Developing musicianship from the podium: Adapting the Theory of Multiple Intelligences to the instrumental rehearsal* (Publication Number 3526815) [D.M.A., The University of Iowa]. ProQuest Dissertations & Theses Global. Ann Arbor.

Faust, M. G. (2020). *The Role of Parents in the Continuation of Children's Instrumental Music Participation* (Publication Number 28153533) [Ed.D., Western Illinois University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Feldman, J. C. (2011). *The more we listen: Towards a depth psychological understanding of sound as image* (Publication Number 1499054) [M.A., Pacifica Graduate Institute]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Fennie, K. M. (2011). *Mandating pre-kindergarten for culturally and linguistically diverse children* (Publication Number 3467932) [Ed.D., D'Youville College]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Ferguson, L. S. (2004). *I see them listening: A teacher's understanding of children's expressive movements to music in the classroom* (Publication Number 3131069) [Ed.D., University of Illinois at Urbana-Champaign]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ferrin, C. E. (2003). *Music reading calisthenics: The effect of a consistent regimen of sightreading and the effect of Educational Kinesiology upon the music sightreading skills of high school music students* (Publication Number 3100977) [Ph.D., The University of Utah]. ProQuest Dissertations & Theses Global. Ann Arbor.

Fioranelli, D. I. (2001). *The effects of background classical music on the problem -solving skills of third graders in a computer lab setting* (Publication Number 3010943) [Ed.D., The University of Mississippi]. ProQuest Dissertations & Theses Global. Ann Arbor.

Fisher, V. J. (1999). *Social workers' knowledge and perceptions of alternative treatment modalities* (Publication Number 1394431) [M.S.W., California State University, Long Beach]. ProQuest Dissertations & Theses Global. Ann Arbor.

Flanagan, M. E. (2009). *Emotional intelligence and beliefs about children, discipline and classroom practices among pre-service teachers* (Publication Number 3395650) [Psy.D., Pace University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Fleming, S. (2021). *A Qualitative Case Study that Explores Principals' Emotional Intelligence and Its Influence on Teacher Self-Efficacy in the Classroom* (Publication Number 28317873) [Ed.D., University of La Verne]. ProQuest Dissertations & Theses Global. Ann Arbor.

Fletcher, A. N. (2017). *A Realist Evaluation of Participatory Music Interventions for Wellbeing: What Works, for Whom and in What Circumstances* (Publication Number 13876090) [Ph.D., University of Northumbria at Newcastle (United Kingdom)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Floate, J. W., II. (2011). *The effects of physical activity choice on physical fitness of Northern Mississippi middle school students* (Publication Number 3482399) [Ed.D., Liberty University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Flocco, D. C. (2005). *School schedules and how they impact student perceptions of stress* (Publication Number 3156491) [Ed.D., Seton Hall University, College of Education and Human Services]. ProQuest Dissertations & Theses Global. Ann Arbor.

Floyd, A. H. L. (2009). *The randomized controlled trial under investigation: Threats to validity posed by participant preferences* (Publication Number 3401703) [Ph.D., State University of New York at Stony Brook]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Franklin, G. M. (2008). *An examination of factors that changed the impetus of music education advocacy in American society* (Publication Number 1456724) [M.S., Tennessee State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Freeman, C. A. (2000). *The crystallizing experience: Antecedents of musical excellence* (Publication Number 9976722) [Ed.D., Teachers College, Columbia University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Fry, B. (2003). *A qualitative study of verbal vs. musical experience* (Publication Number 3112149) [Psy.D., The Chicago School of Professional Psychology]. ProQuest Dissertations & Theses Global. Ann Arbor.

Fuller, B. (2015). *The effectiveness of virtual music resources in meeting the needs of early childhood teachers* (Publication Number 1591348) [M.Ed., University of Lethbridge (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Fulton, C. J. M. (2001). *A comparison of multicultural music education concepts in American -based international schools and corresponding host country schools: Thailand, China, and Outer Mongolia* (Publication Number 3021553) [Ph.D., The Florida State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Fu, L. (2022). *Evaluation of the biophysical characteristics of upconversion nanoparticle-based nano-bio hybrids for blood-brain barrier crossing* Macquarie University].

Gardell, J. L., Matsumoto, L. R., Chinn, H., DeGolier, K. R., Kreuser, S. A., Prieskorn, B., ... & Crane, C. A. (2020). Human macrophages engineered to secrete a bispecific T cell engager support antigen-dependent T cell responses to glioblastoma. *Journal for immunotherapy of cancer*, *8*(2). https://doi.org/10.1136/jitc-2020-001202

Garza Villarreal, E. A., Brattico, E., Vase, L., Østergaard, L., & Vuust, P. (2012). Superior analgesic effect of an active distraction versus pleasant unfamiliar sounds and music: the influence of emotion and cognitive style. *PLoS One*, *7*(1), e29397. https://doi.org/10.1371/journal.pone.0029397

Gasenzer, E. R., Kanat, A., & Nakamura, M. (2021). The influence of music on neurosurgical cases: a neglected knowledge. *Journal of Neurological Surgery Part A: Central European Neurosurgery*, *82*(06), 544-551. https://doi.org/10.1055/s-0040-1721017

Gasenzer, E. R., Kanat, A., & Neugebauer, E. (2017). The unforgettable neurosurgical operations of musicians in the last century. *World Neurosurgery*, *101*, 444-450. https://doi.org/10.1016/j.wneu.2016.11.144

Gasenzer, E. R., Kanat, A., & Neugebauer, E. A. (2017). First report of awake craniotomy of a famous musician: suprasellar tumor surgery of pianist Clara Haskil in 1942. *Journal of Neurological Surgery Part A: Central European Neurosurgery*, *78*(03), 260-268. https://doi.org/10.1055/s-0036-1597895

Goldenberg, M. A., Floyd, A. H., & Moyer, A. (2013). No Effect of a Brief Music Intervention on Test Anxiety and Exam Scores in College Undergraduates. *Journal of articles in Support of the Null Hypothesis*, *10*(1).

Gabor, E. (2009). *When work starts in childhood: The anticipatory socialization process of classical musicians* (Publication Number 3379336) [Ph.D., Purdue University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Gale, S. (2008). *Resisting functional -critical divides: Literacy education at Moor's Indian Charity School and Tuskegee Institute* (Publication Number 3344288) [Ph.D., The University of Texas at Austin]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Galliford, J. A. S. (2003). *The effects of music experience during early childhood on the development of linguistic and non -linguistic skills* (Publication Number 3081285) [Ph.D., University of Miami]. ProQuest Dissertations & Theses Global. Ann Arbor.

Gambler, M. B. (2003). *The importance of music education and reasons why administrators should develop curriculum, schedules, budgets, and staffing to meet the needs of the music program and its students* (Publication Number EP21295) [M.P.A., Kutztown University of Pennsylvania]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ganus, M. (2009). *A construct validity study of the Mayer -Salovey -Caruso Emotional Intelligence Test V2.0 with CASE /Carnegie U.S. "Professor of the Year" award winners* (Publication Number 3400216) [Ed.D., Seattle University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Garabello, V. (2020). *An Investigation of Musical Intelligence for a Positive Pedagogical Approach* (Publication Number 27837290) [M.A., Wayne State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Garcia, M. S. (2011). *Music in Endangered Languages* (Publication Number 10305694) [M.A., The American University of Paris (France)]. ProQuest Dissertations & Theses Global; ProQuest One Literature; Publicly Available Content Database. Ann Arbor.

Garth, K. D. (2015). *Preventing teacher attrition: Expert teachers' sources of stress and coping strategies* (Publication Number 3737194) [Ph.D., Mississippi State University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Gaulke, D. W. (1998). *The revival of traditional animal tracking: A sensory and spiritual homecoming* (Publication Number 1391471) [M.A., Prescott College]. ProQuest Dissertations & Theses Global. Ann Arbor.

Gawlick, B. S. (2003). *Early childhood music education in four preschool settings: The influence of classroom musical environment, music instruction and home musical environment on young children's developmental music aptitude and music performance competence* (Publication Number 3116645) [D.M.A., New England Conservatory of Music]. ProQuest Dissertations & Theses Global. Ann Arbor.

Gerling, S. (2003). *Adapting the Kodaly approach for use in the public elementary schools of Long Beach, California with thirty-four lesson plans for first graders* (Publication Number EP31755) [M.A., Silver Lake College]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ghaffari, M. (2000). *Intelligence: E pluribus unum. An ontological and epistemological inquiry* (Publication Number 9995573) [Ph.D., Cleveland State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ghanbari, S. (2014). *Integration of the Arts in STEM: A Collective Case Study of Two Interdisciplinary University Programs* (Publication Number 3626635) [Ed.D., University of California, San Diego]. ProQuest Dissertations & Theses Global; Publicly Available Content Database; Social Science Premium Collection. Ann Arbor.

Gibson, J. A. (2015). *Elementary school male aggression: Teacher behavioral intervention strategies* (Publication Number 3700977) [Ph.D., Hampton University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Gibson, R. E. (2009). *Musical parenting: An ethnographic account of musical interactions of parents and young children* (Publication Number 3377340) [Ph.D., University of Washington]. ProQuest Dissertations & Theses Global; Publicly Available Content Database; Social Science Premium Collection. Ann Arbor.

Gil, A. M. (2021). *Developing a Method of Identifying Distractions in Surgery with Eye-Tracking Technology* (Publication Number 28263776) [M.H.Sc., University of Toronto (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Gill, D. V. (2019). *Unmasking the Noise Within: An Exploration of the Integration of Music and Mental Processing and Its Effect on Enhanced Learning* (Publication Number 22583287) [Ed.D., Pepperdine University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Gilleta, K. S. (2007). *Sex, handedness, and spatial ability affect laterality for mental rotation* (Publication Number NR31000) [Ph.D., The University of Saskatchewan (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Given-King, E. J. (2003). *Glenn Gould's philosophy of recording and its implications for a theory of active musical listening* (Publication Number MQ84519) [M.A., University of Toronto (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Godelie, H. (2009). *Taking living-learning communities to the next level: Meeting the health and wellness needs of first-year students* (Publication Number MR61784) [M.A.,

Royal Roads University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Goldberg, J. L. (2002). *Beyond ledgers and bar lines: Relational visions of music and education through the voices of seven teachers* (Publication Number 3055855) [Ed.D., Harvard University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Goldman, E. (2011). *Performance ensemble participation and music preferences of high school students: A descriptive study* (Publication Number 3451773) [D.M.A., Boston University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Goslin-Jones, T. (2010). *The perceived effects of Person -Centered Expressive Arts on one's work experience* (Publication Number 3418926) [Ph.D., Saybrook University]. ProQuest Dissertations & Theses Global; ProQuest One Business. Ann Arbor.

Gottlieb-Tanaka, D. (2006). *Creative expression, dementia and the therapeutic environment* (Publication Number NR19880) [Ph.D., The University of British Columbia (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Govel, L. S. M. (2004). *An examination of the types of parental involvement among piano student dropouts* (Publication Number 3155411) [D.M.A., University of Southern California]. ProQuest Dissertations & Theses Global. Ann Arbor.

Gracia, A. Y. M. i. (1998). *Music as a Mnemonic and Didactic Device for Language Instruction* (Publication Number 28391799) [M.A., University of Hawai'i at Manoa]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Graham, R. (2014). *The impact of language and music experience on auditory inhibitory control* (Publication Number 1566890) [M.A., Southern Illinois University at Carbondale]. ProQuest Dissertations & Theses Global; ProQuest One Literature; Social Science Premium Collection. Ann Arbor.

Grainger, B. (2019). *Empowering Transformative Learning in Adult Education Through Music and Theatre* (Publication Number 27819912) [Master's, National University of Ireland, Maynooth (Ireland)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Grant, B. J. (2018). *How Current Mood State Influences Song Selection Behaviors* (Publication Number 10827008) [Ph.D., The University of Alabama]. ProQuest Dissertations & Theses Global. Ann Arbor.

Green, M. (2002). *A case study: The impact of using a musical approach for storytime on emerging reading skills of special education preschool students* (Publication Number 3049776) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Green, T. (2010). *Effects of teaching with brain-compatible strategies on the developmental and academic achievement of low socioeconomic pre-K students at a rural elementary magnet school* (Publication Number 3413102) [Ed.D., Trevecca Nazarene University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Greenwood, R. G. W. (2006). *Educator acquisition and application of recent neurological and cognitive research* (Publication Number NR21817) [Ed.D., University of Toronto (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Greunke, S. C. (2016). *Developing the Identity of an Elementary General Music Teacher: Perspectives of Veteran Music Educators* (Publication Number 10249915) [M.M., The University of Wisconsin - Milwaukee]. ProQuest Dissertations & Theses Global. Ann Arbor.

Grunspan, D. Z. (2016). *A Biocultural Examination of Student Learning Behaviors in Large Undergraduate Lectures* (Publication Number 10162407) [Ph.D., University of Washington]. Biological Science Collection; ProQuest Dissertations & Theses Global. Ann Arbor.

Guarasci, C. M. (2017). *When the Going Gets Tough: New Teachers Perceptions of Emotional Intelligence Skills and Grit While Participating in a Support Program* (Publication Number 10273239) [Ed.D., Teachers College, Columbia University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Gulledge, D. D. (2004). *"GRIEFSONG": One mother's experience that transformed her narrative after the death of her daughter* (Publication Number 3146433) [Ph.D., Union Institute and University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Gunnell, J. P. (2017). *Relevant Versus Extraneous Music in Multimedia Instruction: A Study of the Coherence Principle* (Publication Number 10640803) [Ed.D., Duquesne University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Guy, S. (2018). *Examining the Relationship between Trait Emotional Intelligence, Personality Traits, and Perceived Career Success* (Publication Number 27541427) [Ph.D., Keiser University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Galinsky, R. (2017). *The effect of intrauterine inflammation on the perinatal cardiovascular system: consequences for renal, cardiopulmonary and neural systems* Monash University].

Ganesan, P. (2017). *The neonatal anti-viral response fails to control measles virus spread in neurons despite interferon-gamma expression and a Th1-like cytokine profile* Duquesne University].

Ghazaleh, S. (2017). *Stochastic Vestibular Stimulation in Dopamine Related Disorders* University of Gothenburg / Göteborgs Universitet].

Gilmore, G. (2015). *Deep brain stimulation and its effects on Parkinson disease spatiotemporal gait parameters* University of Western Ontario]

Gmel, G. (2016). *Evoked brain neural potentials: towards clinical applications and a novel biomarker for subthalamic deep brain stimulation for Parkinson's disease* University of New South Wales].

Gracie, D. J. (2018). *The prevalence and impact of irritable bowel syndrome-type symptoms and psychological co-morbidity on inflammatory bowel disease* University of Leeds].

Grant, D. A. (2015). *The effect of repeat mild traumatic brain injury in the adolescent rat on Alzheimer's disease pathogenesis* UCLA].

Greenhalgh, A. (2011). *Actions of interleukin-1 receptor antagonist in cerebral ischaemia* University of Manchester].

Hall, A. (1999). "The Encyclopedia."

He, H., Yang, M., Duan, M., Chen, X., Lai, Y., Xia, Y., ... & Yao, D. (2018). Music intervention leads to increased insular connectivity and improved clinical symptoms in schizophrenia. *Frontiers in neuroscience*, *11*, 744. https://doi.org/10.3389/fnins.2017.00744

Hall, L. J. (2005). *The effect of sound-based treatment as a home program on 10 children with sensory processing deficits and visual motor delays* (Doctoral dissertation, The Ohio State University).

Hamada, M., Zaidan, B. B., & Zaidan, A. A. (2018). A systematic review for human EEG brain signals based emotion classification, feature extraction, brain condition, group comparison. *Journal of medical systems*, *42*(9), 1-25. https://doi.org/10.1007/s10916-018-1020-8

Harris, L. J. (2019). Does music matter? A look at the issues and the evidence. *Developmental neuropsychology*, *44*(1), 104-145. https://doi.org/10.1080/87565641.2016.1274316

Henderson, E. Posts Tagged neuroscience.

Heyse, J., Carlier, S., Verhelst, E., Vander Linden, C., De Backere, F., & De Turck, F. (2022). From Patient to Musician: A Multi-Sensory Virtual Reality Rehabilitation Tool for Spatial Neglect. *Applied Sciences*, *12*(3), 1242. https://doi.org/10.3390/app12031242

Hilliard, S. E., Robbins, A. N., & Sabolich, L. L. The Effects of Music and Gender on Attraction. *Stellar*, 49.

Höller, Y., Thomschewski, A., Schmid, E. V., Höller, P., Crone, J. S., & Trinka, E. (2012). Individual brain-frequency responses to self-selected music. *International Journal of Psychophysiology*, *86*(3), 206-213. https://doi.org/10.1016/j.ijpsycho.2012.09.005

Huang, Q. (1999). *Ideology and Social Construction of Reality---A Case Study on Music Therapy* (Doctoral dissertation, Oklahoma State University).

Hubert, L. "Howard wainer."

Hughes, J. R. (2001). The Mozart Effect Reply. *EPILEPSY & BEHAVIOR*, *2*(6), 613-613.

Hüther, G. (2009). The significance of exposure to music for the formation and stabilisation of complex neuronal relationship matrices in the human brain: implications for the salutogenetic effects of intervention by means of music therapy. In *Music that works* (pp. 119-130). Springer, Vienna. https://doi.org/10.1007/978-3-211-75121-3_7

Huttula, L. (2019). “I started to feel again.”: an individually guided dance rehabilitation intervention may enhance mood, abstract reasoning, and quality of life in traumatic brain injury: a pilot study.

Hwang, M. H. (2018). *Health practitioners’ understanding and use of relaxation techniques (rts), mindfulness meditation (mm) and relaxation music (rm) in the UK and South Korea: A qualitative case study approach* (Doctoral dissertation, University of the West of England).

Haffner, K. (2004). *The Improv Church: A qualitative, theoretical, and interdisciplinary explanation of its appeal to collegians* (Publication Number 3138894) [Ph.D., Andrews University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Haggard, D. A. (2010). *Inquiry-Based Instruction Implementation: A District's Learning Experience through Teacher Input* (Publication Number 13869869) [D.Ed., University of Missouri - Columbia]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hakoda, K. (2018). *High School Instrumental Students Compose for Band and Orchestra* (Publication Number 10823635) [Ed.D.C.T., Teachers College, Columbia University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Haley, J. A. (2001). *The relationship between instrumental music instruction and academic achievement in fourth-grade students* (Publication Number 3026550) [Psy.D., Pace University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hall, W. D. (2010). *Kinesthetic perception of music: A thematic analysis of musicians' descriptions* (Publication Number 3418927) [Ph.D., Saybrook University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hallmark, E. (2011). *Arts as Collaborative Inquiry: Re-Defining and Re-Centering Quality Arts Practice in Schools* (Publication Number 3442800) [Ph.D., University of Rochester]. ProQuest Dissertations & Theses Global; Publicly Available Content Database; Social Science Premium Collection. Ann Arbor.

Han, S. S. (2006). *The baby in the body: Pregnancy practices as kin and person making experience in the contemporary United States* (Publication Number 3224896) [Ph.D., University of Michigan]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hanks, C. (2009). *Education, reason, and the self: George Herbert Mead and the philosophy of mind* (Publication Number 3358916) [Ph.D., Indiana University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hannon, E. E. (2005). *Infants' perception of musical rhythm and meter: Early abilities and developmental change* (Publication Number 3192133) [Ph.D., Cornell University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hanson, M. K. (2001). *An investigation of the effects of sequenced Kodály literacy-based music instruction on the spatial reasoning skills of kindergarten students* (Publication Number 1406182) [M.A., University of St. Thomas (Minnesota)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Harmon, K. C. (2015). *Junior Level Baccalaureate Nursing Students' Lived Experiences with Test Anxiety: Can Music Serve as a Means to Reduce Test Anxiety and Increase Self-Efficacy?* (Publication Number 29120156) [Ph.D., Louisiana State University and Agricultural & Mechanical College]. ProQuest Dissertations & Theses Global. Ann Arbor.

Harmon-Robins, A. Y. (2016). *Understanding teachers' perceptions of the role of emotional intelligence on the academic experiences of economically disadvantaged students* (Publication Number 10192356) [Ed.D., Lamar University - Beaumont]. ProQuest Dissertations & Theses Global. Ann Arbor.

Harper, T. S. (2014). *Investigating Relationships between the Subscales of the Mayer-Salovey-Caruso Emotional Intelligence Test and the General Ability Measure for Adults General Intelligence Test* (Publication Number 3626683) [Ph.D., The Catholic University of America]. ProQuest Dissertations & Theses Global. Ann Arbor.

Harris, M. (2005). *Differences in mathematics scores between students who receive traditional Montessori instruction and students who receive music enriched Montessori instruction* (Publication Number MR17046) [M.Ed., University of Windsor (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Harris, T. D. (2017). *The Effect of Rhythmicity on Student Test Scores and Attitude* (Publication Number 10262305) [EDD/CI, University of Phoenix]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor

Harrison, A. (2012). *When Language Fails: Using Expressive Arts to Facilitate Being-with When Working with Survivors of Mass Trauma* (Publication Number 3515254) [Psy.D., The Chicago School of Professional Psychology]. ProQuest Dissertations & Theses Global. Ann Arbor.

Harrison, C. J. (2004). *The influence of brain -compatible strategies on self -efficacy and learning anxiety in aging adult learners* (Publication Number 3123508) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Harrison, E. Y. (2016). *The relationship between music test attitude and test anxiety: An action research study* (Publication Number 10144306) [D.Ed., Capella University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Harshbarger, D. K. (2015). *Exploring preservice teachers' perceptions of differentiated science instruction* (Publication Number 3716433) [Ed.D., The University of Nebraska - Lincoln]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hart, J. B. (2017). *Development and Application of Self-Awareness in Project Leadership: A Multiple Case Study of Department of Defense Project Managers* (Publication Number 10282346) [Ph.D., Andrews University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Harvey, G. J. (2012). *The Impact of Environmental Cues in a Corporate Environment* (Publication Number 27609754) [Ph.D., Bangor University (United Kingdom)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hash, P. M. (2006). *Development of school bands in Illinois: 1863–1930* (Publication Number 3250254) [Ed.D., University of Illinois at Urbana-Champaign]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hazel Obarow, S. E. (2004). *The impact of music on the vocabulary acquisition of kindergarten and first -grade students* (Publication Number 3120733) [Ed.D., Widener University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Healey, D. P. (2016). *E pluribus unum: An evaluation of student engagement and learning in the college marching band* (Publication Number 10076306) [Ph.D., Boston College]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Hearnsberger, K. A. (2013). *The effect of choral music education on literacy achievement* (Publication Number 3587615) [Ed.D., University of Arkansas at Little Rock]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Heckler, S. M. (2010). *The effects of siblings on attachment formation in foster children* (Publication Number 3424338) [Ph.D., Regent University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Heeb, S. K. (2017). *Enhancing the Spiritual Well-Being of Alzheimer's Patients Utilizing Music* (Publication Number 10273031) [M.A., Liberty University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Heise, N. (2021). *Evaluating Curricular Implementation Techniques to Enhance Anatomy Education* (Publication Number 28411682) [Ph.D., Colorado State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Heiskell, J. D. (2010). *Measure to Measure: Additional Lengths Using Educative Music Therapy to Increase the Math Aptitude and Social Competency of the Forgotten Middle* (Publication Number 1483435) [M.M., Arizona State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Helmrich, B. H. (2008). *In concert: The relationship between middle school formal music instruction and adolescent algebra achievement* (Publication Number 3302711) [Ph.D., College of Notre Dame of Maryland]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Hendershott, H. A. (2004). *School of rap: The politics and pedagogies of rap music* (Publication Number 3147625) [Ph.D., The Pennsylvania State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Henderson, L. C. (2003). *Voices from the circle: Women's ritual art* (Publication Number 3101133) [Ph.D., Union Institute and University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hendriks, M. (2014). *Die invloed van agtergrondmusiek rakende graad 6-leerders se gedragspatrone* (Publication Number 1600921) [M.Mus., University of Pretoria (South Africa)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Henry, A. P. (2019). *Effects of Musical Ability on Flight Planning, Situational Awareness, and Flight Path Deviations* (Publication Number 27668545) [M.S.A., Embry-Riddle Aeronautical University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Henry, M. (1999). *The player and the playing: An interpretive study of Richard Courtney's texts on learning through drama* (Publication Number 9935639) [Ph.D., New York University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Henry, T. C. (2011). *The effects of high school performing arts participation on educational and occupational attainment* (Publication Number 3466564) [Ph.D., Mississippi State University]. ProQuest Dissertations & Theses Global; ProQuest One Business. Ann Arbor.

Herdtner, S. L. (1999). *The experience of knowing self and others in therapeutic touch* (Publication Number 9917169) [Ph.D., New York University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Heyn, P. (2002). *A meta-analysis of the effects of exercise training and physical activity on health-related physical fitness, cognitive and physical functioning, and behavior of individuals with Alzheimer's disease and related cognitive disorders* (Publication Number 3069447) [Ph.D., University of Central Florida]. ProQuest Dissertations & Theses Global. Ann Arbor.

Higgins, A. (2015). *Labor of care: Spectacular fetuses, healthy, smart babies, and cosmopolitan pregnancy in middle class Beijing* (Publication Number 3715226) [Ph.D., University of California, Santa Cruz]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Higgins, N. T. (1999). *Educating early childhood educators to empower children: Analysis of current instruction and proposed new curriculum design* (Publication Number 9969038) [Ph.D., The Union Institute]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hindman, J. (2013). *The Useful Arts* (Publication Number 3674063) [Ph.D., University of North Texas]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hinkle, W. H. (2013). *Neural Mechanisms Mediating the Effects of Food Cues and Acute Exercise: a functional Magnetic Resonance Imaging and Functional Connectivity Investigation* (Publication Number 3549198) [Ph.D., Columbia University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hinrichs, A. F. (2013). *Instructional design implications about comprehension of listening to music before and during reading* (Publication Number 3589242) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hirokawa, E. (2004). *Effects of music and relaxation instructions on arousal and a working memory task with older and younger adult females* (Publication Number 3141473) [Ph.D., University of Kansas]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hocanson, C. D. (2019). *The Utilization of Music to Teach Phonics in Kindergarten: A Multiple Case Study* (Publication Number 13863157) [Ed.D., Liberty University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Hodges, J. A. (2013). *The Impact of Brain-based Strategies: One School's Perspective* (Publication Number 3601734) [Ed.D., Walden University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Hoffman, D. K. (2002). *Auditory imagery of conductors: An examination of the electroencephalographic correlates of score reading before and after score study* (Publication Number 3037473) [Ph.D., University of Minnesota]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hogue, J. D. (2013). *"Take a sad song and make it better": Exploring rewards related to liking unfamiliar sad music* (Publication Number 1552469) [M.S., Illinois State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Holmberg, S. D. (2010). *Music teachers' perceptions: The role of music education in early literacy* (Publication Number 3419577) [Ph.D., Kansas State University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Home Gun, M. A. (2019). *Aesthetics Thinking* (Publication Number 27547464) [Ed.D., Montana State University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Hood-Mincey, H. (2005). *An analysis of the influence of music on academic achievement in urban education* (Publication Number 3167131) [Ed.D., Morgan State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hoover, A. K. (2010). *Spiritual formation for holistic human health: Connections between weight loss and women's creativity* (Publication Number 3504838) [D.Min., United Theological Seminary]. ProQuest Dissertations & Theses Global. Ann Arbor

Horne, A. J. (2002). *Examining relationships among rhythm aptitude, rhythm achievement, and reading achievement* (Publication Number 3052043) [Ph.D., University of South Carolina]. ProQuest Dissertations & Theses Global. Ann Arbor.

Horton, R. W. (2012). *Differences in academic achievement among Texas high school students as a function of music enrollment* (Publication Number 3536724) [Ed.D., Sam Houston State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hosick, J. H. (2002). *An understanding of a contribution of metaphor and music in the healing of the isolation dynamic of shame* (Publication Number 3059034) [Ph.D., Luther Seminary]. ProQuest Dissertations & Theses Global. Ann Arbor.

Housker, J. E. (2000). *Houston's Model of Guided Imagery Combined with Music: Strengthening Couples' Relationships* (Publication Number 9991646) [Ph.D., University of South Dakota]. ProQuest Dissertations & Theses Global. Ann Arbor.

Houston, R. D. (2009). *A model of compelled nonuse of information* (Publication Number 3373152) [Ph.D., The University of Texas at Austin]. ProQuest Dissertations & Theses Global. Ann Arbor.

Howell, D. L. (2011). *Volume I: Dalcroze and the 21st Century Composer Volume II: The Wanderer: A Rock Opera Based on the Life and Music of Franz Schubert* (Publication Number 3472580) [Ph.D., University of California, Los Angeles]. ProQuest Dissertations & Theses Global. Ann Arbor.

Howze, C. (2018). *The Relationship between Employees' Perceptions of Supervisors' Emotional Intelligence and Employees' Altruism and Conscientiousness in Telecommunications Industry Call Centers* (Publication Number 10828776) [D.B.A., Capella University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Huang, Y.-T. (2012). *Music integration in the elementary school community: An investigation of integration styles and collaborative modes in Pennsylvania and Taiwan* (Publication Number 3534665) [Ph.D., The Pennsylvania State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Huber, J. J. (2010). *Music instruction and the reading achievement of middle school students* (Publication Number 3390981) [Ed.D., Liberty University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hudnall, C. R. (2012). *Teaching relaxed, healhty posture an investigation of pedagogical approaches and string musicians' performance-related problems* (Publication Number 3528443) [Ph.D., Mercer University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hughes, J.-M. (2010). *Take a leap and shimmy on down: An ex post facto study on the differences between community college students who do and don't study dance* (Publication Number 3408458) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Hunsaker, R. (2013). *Journaling, emotional intelligence, and health benefits* (Publication Number 1589225) [M.A., University of South Dakota]. ProQuest Dissertations & Theses Global. Ann Arbor

Hunt, L. D. (2011). *Predictors of student outcomes in developmental math at a public community and technical college* (Publication Number 3487297) [Ed.D., Marshall University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Hunter, P. G. (2011). *The malleability of music preferences: Effects of individual differences and the listening context* (Publication Number NR77826) [Ph.D., University of Toronto (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hurley, S. L. (2012). *Singers and Sound: An Introduction to Tomatis-Based Listening Training for Singers* (Publication Number 3547661) [D.M.A., Arizona State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Hutchison, B. (2016). *The role of music among healthy older performance musicians* (Publication Number 10195457) [Ph.D., North Dakota State University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Hald, E. (2016). *Microfabrication Approaches for Understanding the Role of Vascular Mechanics in Progressive Diseases* University of Minnesota].

Hatch, R. J. (2014). *Genetic and environmental modulation of neuronal excitability* University of Melbourne]

Hau, E. (2017). *Evaluating and improving the radiotherapy outcomes in high grade gliomas* University of New South Wales].

Heise, V. (2013). *How can magnetoencephalography and magnetic resonance imaging improve our understanding of genetic susceptibility to Alzheimer's disease?* University of Oxford].

Henley, B. (2018). *Characterising the anti-convulsant effects of CBD and CBDV on layer II of the medial entorhinal cortex of rat and human brain tissue in vitro* Aston University].

Hibar, D. P. (2013). *Genetic Determinants of Brain Structure* UCLA].

Hoang, T. (2012). *Role of the 39-kDa receptor-associated protein (RAP) in Alzheimer's disease* University of Tasmania].

Houston, B. (2017). *Neural Closed-loop Deep Brain Stimulation for Tremor Mitigation* University of Washington].

Huang, R. (2017). *The effect of Amyloid Precursor Protein (APP) and APP-cleavage Products on Spinal Locomotive Circuit* UCLA].

Hunter, H. J. A. (2016). *Brain-skin interactions* University of Manchester].

Im, S. H. (2015). The Role of an Educational Psychology Course in Enhancing Neuroscience Literacy and Reducing Beliefs in Neuromyths in US and Korean Pre-Service Teachers.

Invitto, S., Calcagnì, A., Mignozzi, A., Scardino, R., Piraino, G., Turchi, D., ... & de Tommaso, M. (2017). Face recognition, musical appraisal, and emotional crossmodal bias. *Frontiers in Behavioral Neuroscience*, *11*, 144. https://doi.org/10.3389/fnbeh.2017.00144

Ione, A. (2005). Neurology of the arts: painting, music, literature. *Leonardo*, *38*(1), 69-70.

Iosa, M., Aydin, M., Candelise, C., Coda, N., Morone, G., Antonucci, G., ... & Tieri, G. (2021). The michelangelo effect: art improves the performance in a virtual reality task developed for upper limb neurorehabilitation. *Frontiers in psychology*, *11*, 611956. https://doi.org/10.3389/fpsyg.2020.611956

Iribarne, L. (2021). Música, emociones y Neurociencias: influencia de la música en las emociones y sus efectos terapéuticos.

Iușcă, D. G. (2022). Neuro-physiological benefits of music. *Review of Artistic Education*, (23), 1-8.

Iñaguazo Cartuche, S. G., & Yánez Cabrera, X. D. R. (2017). Influencia de la aplicación de un programa de musicoterapia en pacientes prematuros hospitalizados en la Unidad de Neonatología del Hospital Pablo Arturo Suárez, sobre la respuesta fisiológica, ganancia de peso y menor estancia hospitalaria en el periodo de febrero a 30 mayo del 2017. http://repositorio.puce.edu.ec/handle/22000/13727

Ivanitskii, G. R. (2019). X-men: humans with an unusual interaction between receptor systems who construct a world of new images within themselves (on the 140th anniversary of the birth of Academician PP Lazarev). *Physics-Uspekhi*, *62*(7), 711.

Ilie, G. (2006). *The role of rate, pitch height, and intensity in the perception and experience of affect: A music and speech evaluation* (Publication Number NR22029) [Ph.D.,

University of Toronto (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ireland-Cleghorne, W. E. N. (2016). *Musical listening interest, socio-demographic and socio-psychological factors as predictors of test anxiety among students of a Christian university in Jamaica* (Publication Number 10162857) [Ph.D., Andrews University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Jackson, V. (2016). Number of Ohio's Vital School Professionals Dwindling Student Health, Career Preparation, Art Exposure Suffer. K-12 Education. *Policy Matters Ohio*.

Jóźwiak, K., Bujacz, M., & Królak, A. (2018, September). The Design of Digital Filter System Used in Stimulation with Tomatis Method. In *2018 Federated Conference on Computer Science and Information Systems (FedCSIS)* (pp. 1069-1072). IEEE.

Jackson, W. G. (2003). *The effects of brain -compatible instruction on reading achievement* (Publication Number 3106551) [Ph.D., Walden University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Jacobs, J. M. (2012). *Fostering and foreclosing student learning potential: Portraits of performativity, emotion, and relationality in the classroom* (Publication Number 3512270) [Ph.D., University of Denver]. ProQuest Dissertations & Theses Global. Ann Arbor.

Jafferian, S. L. (2016). *Perceptions of Leader Emotional Intelligence and Subordinate Turnover Intentions in Substance Abuse Treatment Centers* (Publication Number 3741444) [Ph.D., Walden University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Jagow, S. M. (2005). *Nurturing musicianship: A conceptual paradigm for rehearsing instrumental music; a theoretical, psychological, and emotional perspective on music -making* (Publication Number 3162987) [Ph.D., Union Institute and University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Janbaz, E. (2009). *The effects of music on attention to task* (Publication Number 1481337) [M.A., Texas Woman's University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Jansen, K. (2021). *Pre-Service Teachers' Knowledge of the Brain: Implications for Autonomy-Supportive and Controlling Motivational Styles* (Publication Number 28643707) [Ph.D., University of South Florida]. ProQuest Dissertations & Theses Global. Ann Arbor.

Jantzen, M. G. (2004). *Specific and non-specific cognitive operations as language options for memory questions: An fMRI study* (Publication Number 3151194) [Ed.D., Florida Atlantic University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Jaquez, T. G. (2012). *Participation in instrumental music as a predictor of success in a collegiate level aviation flight course* (Publication Number 1514585) [M.S., The University of North Dakota]. ProQuest Dissertations & Theses Global. Ann Arbor.

Jenkins, J. R. (2003). *"Who will buy?": An examination of historical and contemporary practices of operatic patronage in twentieth-century America* (Publication Number 3087927) [Ph.D., Northwestern University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Jennings, M. (2018). *Effect of Attentional Capture and Cross-Modal Interference in Multisensory Cognitive Processing* (Publication Number 10745096) [Ph.D., Walden University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Jerles, J. F. (2004). *TerraNova scores and elementary arts classes* (Publication Number 3158441) [Ed.D., Tennessee State University]. ProQuest Dissertations & Theses Global. Ann Arbor

Jerling, P. A. (2013). *Music Therapy for second language English-speaking learners in an English-medium school: A case study* (Publication Number 1595695) [M.Mus., University of Pretoria (South Africa)]. ProQuest Dissertations & Theses Global. Ann Arb

John, B. A. (2002). *Music in early childhood and consciousness: A philosophical analysis of intersections* (Publication Number NQ74744) [Ph.D., University of Toronto (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Johnson, C. M. (1999). *Auditory integration training: Its effect on the perception of English of native and nonnative speakers* (Publication Number 9957941) [Ph.D., The University of Arizona]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Johnson, L. M. (2013). *Emotional intelligence and leader-member exchange: Do emotional competencies matter?* (Publication Number 3602340) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global; ProQuest One Business. Ann Arbor.

Johnson, M. R. (2018). *Using Mobilage Thinking to Study Healthcare Students' Experiences of Using and Learning to Use Mobile Phones for Academic Work* (Publication Number 28277263) [Ph.D., Lancaster University (United Kingdom)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Johnson, S., Jr. (2016). *An exploration of belongingness: Experiences of African-American males in high school and the impact of choir participation on academic achievement* (Publication Number 10189279) [Ed.D., Howard University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Johnson-Green, E. A. (2012). *Ordinary Magic: The musical foundations of transition in family life* (Publication Number 3508508) [Ed.D., Teachers College, Columbia University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Jones, C. T. (2008). *Balancing the scales of music: A quantitative study of music education and academic achievement in a southeastern state public school district* (Publication Number 3316418) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Jones, V. D. (2012). *The relationship between emotional intelligence and leadership effectiveness among sponsored research administrators* (Publication Number 3514683) [Ph.D., The University of Southern Mississippi]. ProQuest Dissertations & Theses Global. Ann Arbor.

Joseph, A. (2014). *The Effects of Creative Dramatics on Vocabulary Achievement of Fourth Grade Students in a Language Arts Classroom: An Empirical Study* (Publication Number 3579799) [Ed.D., Seattle Pacific University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Joseph, C. K. (2011). *Integrating Music Education, Music Therapy and Special Education in a Music Classroom* (Publication Number 3475951) [Ph.D., Union Institute and University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor

Joyce, V. L. M. (2003). *Bodies that sing: The formation of singing subjects* (Publication Number NQ78458) [Ph.D., University of Toronto (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Justice, L. K. (2008). *Mother (nature) knows best: Effect of a Bio-integrative visual motor approach on the academic performance of "at-promise" college freshmen* (Publication Number 3313098) [Ph.D., Kent State University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Justus, L. B. (2002). *Factors that contribute to enrollment in band programs* (Publication Number 3110273) [Ed.D., Virginia Polytechnic Institute and State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Kennaway, J. (2018). Anna O.'s Nervous Cough: Historical Perspectives on Neurological and Psychological Approaches to Music. In *The Routledge Companion to Music, Mind and Well-Being* (pp. 121-134). Routledge.

Kluball, J. L. (2000). *The relationship of instrumental music instruction and academic achievement for the senior class of 2000 at Lee County High School, Leesburg, Georgia* (Doctoral dissertation, University of Sarasota).

Kobets, A. J. (2011). Bicentennial: Harmonic Medicine: The Influence of Music Over Mind and Medical Practice. *The Yale journal of biology and medicine*, *84*(2), 161.

Kopańska, M., Ochojska, D., Dejnowicz-Velitchkov, A., & Banaś-Ząbczyk, A. (2022). Quantitative Electroencephalography (QEEG) as an Innovative Diagnostic Tool in Mental Disorders. *International Journal of Environmental Research and Public Health*, *19*(4), 2465.

Korsakova-Kreyn, M. (2005). Tonal processing and musical imagery: The tonal chronotope of music.

Klapman, S. (2021). The Memory of All That': The Effects of Music on Paradoxical Lucidity in Older Adults. *Electronic Thesis and Dissertation Repository*. 7983. https://ir.lib.uwo.ca/etd/7983

Kuschpel, M. S., Liu, S., Schad, D. J., Heinzel, S., Heinz, A., & Rapp, M. A. (2015). Differential effects of wakeful rest, music and video game playing on working memory performance in the n-back task. *Frontiers in psychology*, *6*, 1683. https://doi.org/10.3389/fpsyg.2015.01683

Kalabza, D. A. (2007). *A study of the current issues facing music education: An examination of Long Island public school music programs* (Publication Number 3272795) [Ed.D., St. John's University (New York), School of Education and Human Services]. ProQuest Dissertations & Theses Global. Ann Arbor.

Kang, A. (2017). *Emotional Intelligence, Environment, and Teacher Self-Efficacy: A Look into the Effects of Teacher Emotional Intelligence and Socioeconomic Status of School on Teacher Self-Efficacy in K-12 Public Schools* (Publication Number 10619111) [Ph.D., The College of William and Mary]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Kananen, J. (2021). *Increased effect of physiological respiratory brain pulsations in focal-onset epilepsy* University of Oulu].

Koepp, M. J., Caciagli, L., Pressler, R. M., Lehnertz, K., & Beniczky, S. (2016). Reflex seizures, traits, and epilepsies: from physiology to pathology. *The Lancet Neurology*, *15*(1), 92-105. https://doi.org/10.1016/S1474-4422(15)00219-7

Kaplan, C. D. (1999). *The short term effects of small group hand drumming on mood, group cohesiveness and rhythm perception* (Publication Number 9949659) [Ph.D., University of Connecticut]. ProQuest Dissertations & Theses Global. Ann Arbor.

Karşal, E. (2004). *Okul Öncesi Dönemi Çocuklarda Müzik Yeteneği Ve Matematik Yeteneği Ilişkisi Ve Müzik Eğitiminin Matematik Performansı Üzerine Etkileri* (Publication Number 28558403) [Ph.D., Marmara Universitesi (Turkey)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Kautzman, R. W. (2011). *An examination of the relationship between emotional intelligence and leadership practices in a healthcare organization* (Publication Number 3474602) [Ed.D., Grand Canyon University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Kazem, M. (2016). *Effects of Co-curricular Activities on Second Language Learners in Higher Education* (Publication Number 29172654) [Master's, Sakarya Universitesi (Turkey)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Keller, M. E. (2002). *Technology applications for the 4th–8th grade Kodaly music class based on the national standards of music education* (Publication Number EP31779) [M.A., Silver Lake College]. ProQuest Dissertations & Theses Global. Ann Arbor.

Kelly, B. S. (2001). *Psychophysiological responses to classical, new age, and Native American music* (Publication Number 3015996) [Ph.D., Walden University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Kemmerer, K. P. (2003). *Relationship between the number of hours spent in general music class and reading skills in kindergarten through grade 3* (Publication Number 3117160) [Ed.D., Lehigh University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Kennedy, C. K. (2010). *Nonresponse and measurement error in mobile phone surveys* (Publication Number 3406315) [Ph.D., University of Michigan]. ProQuest Dissertations & Theses Global. Ann Arbor.

Kennerly, D. E. (2009). *Runesinger: A demonstration of coupling Korean phonics and spelling to a videogame* (Publication Number 1464271) [M.F.A., University of Southern California]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Kiernan, J. M. (2021). *Mitigation of Chemotherapy-Induced Nausea Using a Music-Listening Intervention* (Publication Number 28318736) [Ph.D., Wayne State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Kim, D. Y. (2005). *The effects of music on pain of individuals with musculoskeletal disorders* (Publication Number 1478416) [M.S., Touro College]. ProQuest Dissertations & Theses Global. Ann Arbor.

Kim, H. K. (2007). *Early childhood preservice teachers' beliefs about music, developmentally appropriate practice, and the relationship between music and developmentally appropriate practice* (Publication Number 3425483) [Ph.D., University of Florida]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Kim, J. (2013). *The effect of visual and auditory coherence on judgments of tranquility to simulated nature experiences* (Publication Number 3593501) [Ph.D., The University of Utah]. ProQuest Dissertations & Theses Global. Ann Arbor.

Kindall Smith, M. (2002). *Comparison of Arts PROPEL and teacher -directed approaches to teaching music education to preservice teachers* (Publication Number 3040709) [Ed.D., Boston University]. ProQuest Dissertations & Theses Global. Ann Arbor

King, M. E. (2016). *Comparing the effects of elementary music and visual arts lessons on standardized mathematics test scores* (Publication Number 10111230) [Ed.D., Liberty University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Kiran, F. (2020). *Exploring Effects of Background Music in a Serious Game on Attention by Means of EEG Signals in Children* (Publication Number 29114248) [M.Sc., Louisiana State University and Agricultural & Mechanical College]. ProQuest Dissertations & Theses Global. Ann Arbor.

Kirsten, J. D. (2006). *Pre -Kindergarten Music Education Standards and the Opportunity -to -Learn Standards as applied to preschool settings in the United States* (Publication Number 3243145) [Ph.D., University of Miami]. ProQuest Dissertations & Theses Global. Ann Arbor.

Kishida, M., Yamada, Y., Inayama, E., Kitamura, M., Nishino, T., Ota, K., ... & Ikenoue, T. (2019). Effectiveness of music therapy for alleviating pain during haemodialysis access cannulation for patients undergoing haemodialysis: a multi-facility, single-blind, randomised controlled trial. *Trials*, *20*(1), 1-12. https://doi.org/10.1186/s13063-019-3773-x

Klein, K. E. (2003). *Career readiness and preparation criteria in undergraduate dance degree programs* (Publication Number 3106373) [Ph.D., Lynn University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ko, Y. S. (1999). *The effect of neurological research on aesthetic music education for young children* (Publication Number 9936913) [D.M.A., Boston University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Koca, E. (2010). *6 Yaş Grubunda Geri Planda Dinletilen Müziğin Çoklu Zeka Alanlarına Etkisi* (Publication Number 28521877) [Master's, Marmara Universitesi (Turkey)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Koll, K. J. (2004). *Rubric and learning targets for National Standard one for Kimberly Area School District in a Kodaly-based curriculum: grades 1–4* (Publication Number EP31759) [M.A., Silver Lake College]. ProQuest Dissertations & Theses Global. Ann Arbor.

Kong, T. (2013). *Socioemotional Competencies, Cognitive Ability, and Achievement in Gifted Students* (Publication Number 3604369) [Ph.D., Arizona State University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Kovari, E. M. (2016). *Don't Worry, Be Emotionally Intelligent: Hotel Functional Managers' Trait Emotional Intelligence and Its Relation to Task and Contextual Performance Within Organisational Culture in Hungary* (Publication Number 28460546) [Ph.D., University of Derby (United Kingdom)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Krikorian, M. (2016). *The Development of the Scale of Contemplative Practice in Higher Education* (Publication Number 10113306) [Ph.D., Chapman University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database; Social Science Premium Collection. Ann Arbor.

Kriznar, D. L. (2011). *The relationship between middle level grade configuration and model practices on student achievement in urban school districts* (Publication Number 3514901) [Ph.D., University of Florida]. ProQuest Dissertations & Theses Global. Ann Arbor.

Kumler, K. (2006). *Being touched by music: A phenomenological-hermeneutical approach to understanding transformational musical experience* (Publication Number 3218082) [Ph.D., Duquesne University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Kurt, J. T. (2010). *Factors Affecting Literacy Achievement of Eighth Grade Middle School Instrumental Music Students* (Publication Number 3428470) [Ed.D., University of

Nebraska at Omaha]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Kaeser, G. E. (2017). *Single-Cell Assessment of Genomic Mosaicism and Transcriptomic Heterogeneity in the Human Brain* University of California – San Diego].

Kain, N. (2016). *Investigation of the Sphingolipid pathway in the early stages of Alzheimer's disease* University of New South Wales].

Karakatsani, M. E. (2020). *Quantitative analysis of the focused ultrasound-induced blood-brain barrier opening with applications in neurodegenerative disorders* Columbia University].

Khalil, A. (2016). *The role of Transient Receptor Potential Melastanin 7 (TRPM7) channels in epilepsy* University College London (University of London)].

Kim, B. J. (2021). *THE RELATIONSHIP BETWEEN STRESS AND QUALITY OF LIFE IN PEOPLE WITH MULTIPLE SCLEROSIS: THE MEDIATING ROLE OF RESILIENCE* University of Kentucky].

Kong, G. S. H. (2020). *The Microbiome-Gut-Brain Axis in Huntington's Disease* University of Melbourne].

Kruyer, A. (2015). *The Effect of Chronic Hypertension on Neuropathology in the TGSWDI Mouse Model of Alzheimer's Disease* Rockefeller University].

Laksmidewi, A. A. A. P., Mahadewi, N. P. A. P., Adnyana, I. M. O., & Widyadharma, I. P. E. (2019). Instrumental Balinese flute music therapy improves cognitive function and serum dopamine level in the elderly population of West Denpasar Primary Health Care Center. *Open Access Macedonian Journal of Medical Sciences*, *7*(4), 553. https://doi.org/10.3889/oamjms.2019.116

Lawlis, F. (2005). *The ADD answer: How to help your child now*. Penguin.

Lawrence, D. K. (2019). Effectiveness of a filtered music listening programme to improve communication, social abilities, and behaviours in children with autistic spectrum condition: a randomised, controlled trial.

Lečić-Toševski, D., Ćurčić, V., Grbeša, G., Išpanović-Radojković, V., Jović, V., Kokora, G., ... & Vučković, N. (2005). Mental health care in Serbia: Challenges and solutions. *Psihijatrija danas*, *37*(1), 9-25.

Lee, A. R., & Gwee, F. Q. E. (2019). *The effects of music and gender difference on attention and memory test performance among undergraduates in Malaysia: a feasibility study* (Doctoral dissertation, UTAR).

Leisman, G., & Melillo, R. (2016). What functional neurology can offer the treatment of developmental disabilities. *Functional Neurology, Rehabilitation, and Ergonomics*, *6*(3), 233.

Leonardi, S., Cacciola, A., De Luca, R., Aragona, B., Andronaco, V., Milardi, D., ... & Calabrò, R. S. (2018). The role of music therapy in rehabilitation: improving aphasia and beyond. *International Journal of Neuroscience*, *128*(1), 90-99. https://doi.org/10.1080/00207454.2017.1353981

Lidji, P., & Kolinsky, R. (2008). Hauteurs musicales: Quand l'espace s' en mêle. *Revue de Neuropsychologie*, *18*(1-2), 7-32.

Linke, D. B. (2004). ""Jeder Mensch ist ein Künstler&quot." Psychologie heute **31**(7): 42-47.

Liu, Z. H., & Ding, J. Y. (2010). Clinical observation on combined tuina and medicated bath for early intervention of neonatal brain injuries. *Journal of Acupuncture and Tuina Science*, *8*(5), 310-314. https://doi.org/10.1007/s11726-010-0435-7

Loock, C. (2012). *Using scent and music in a waiting room to positively influence patients' healthcare experience-A field experiment in a plastic surgery practice* (Master's thesis, University of Twente).

Ly, N. (2020). *Reducing Anxiety in Pediatric Dental Patient Through Music Listening* (Doctoral dissertation, The University of Texas School of Dentistry at Houston).

Lyen, K. BEAUTIFUL MINDS. *Depression*, *56*, 14.

LaBarge, O. R. (2014). *Howard Gardner's Theory of Multiple Intelligences in Art Museum Education* (Publication Number 1589381) [M.A., The University of the Arts]. ProQuest Dissertations & Theses Global. Ann Arbor.

Lacerda, T. M. R. D. d. O. C. d. (2015). *Understanding leadership effectiveness in organizational settings: An integrative approach* (Publication Number 3691467) [Ph.D., Universidade Tecnica de Lisboa (Portugal)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ladipo, J. L. (2014). *An action research of teachers' perceptions and attitudes of professional development: Integrating music into mathematics* (Publication Number 3621591)

[D.Ed., Capella University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Lalonde, R. D. (2008). *Consulting students about consulting students: Overcoming adult barriers to hearing and appreciating student voice* (Publication Number NR44378) [Ed.D., University of Calgary (Canada)]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Larsen, C. W. (2005). *The Influence of Solo Performance Opportunities on Self-Reported Levels of Musical Performance Anxiety Among Undergraduate College Music Majors* (Publication Number 29125264) [M.S., Louisiana State University and Agricultural & Mechanical College]. ProQuest Dissertations & Theses Global. Ann Arbor.

Lasky, N. C. (2011). *"Ding dika ding dika ding dika ding" Jazz, arts education and the creation of a community of learners* (Publication Number 3484337) [Ed.D., Teachers College, Columbia University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Lazowski, V. (2017). *Using Music to Reverse Effects of Loneliness in Elders with Neurocognitive Disorders in Nursing Homes* (Publication Number 10271579) [M.S.W., Southern Connecticut State University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Lee, D. (2015). *Personalized learning practice, technology use, and academic performance in K-12 learner centered schools in the U.S* (Publication Number 3712588) [Ph.D., Indiana University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Lee, J. D., III. (2020). *Increasing State Accountability: An ex post facto study on the relationship between participation in band and measures of student progress* (Publication Number 27835002) [Ed.D., Texas A&M University - Commerce]. ProQuest Dissertations & Theses Global. Ann Arbor.

Lee, N. R. (2014). *The networked playground* (Publication Number 1567154) [M.F.A., State University of New York at Buffalo]. ProQuest Dissertations & Theses Global. Ann Arbor.

Lee, T. S.-K. (2011). *Music as a birthright: Chicago's Old Town School of Folk Music and participatory music making in the twenty-first century* (Publication Number 3479142) [Ph.D., University of Illinois at Urbana-Champaign]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

LeHecka, C. F. (2002). *How the experts define accelerated learning: A Delphi study* (Publication Number 3060358) [Ph.D., The University of North Carolina at Greensboro]. ProQuest Dissertations & Theses Global. Ann Arbor.

Leong, T. N.-H. (2010). *Symphonic engagement a case Study of extra-curricular engagement in string orchestras* (Publication Number NR73138) [Ph.D., University of Toronto (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Lesiuk, T. L. (2003). *The effect of music listening on the quality -of -work of computer information systems developers* (Publication Number NQ96701) [Ph.D., The University of Western Ontario (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Levykh, M. G. (2008). *Personality, emotions, and behavioural mastery in the thought of Lev Vygotsky* (Publication Number NR58717) [Ph.D., Simon Fraser University (Canada)]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Lewis, D. J. (2016). *Adult perceptions of participating in high school orchestra and its influence on life skills* (Publication Number 10190832) [D.M.A., Boston University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Lewis, D. R. (2016). *Jump up and condomize: HIV/AIDS, music genres, and public health in Trinidad and Tobago* (Publication Number 10181769) [Ph.D., Indiana University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Lichtenwalner, P. (2015). *Ethnographic study of Nigerian early childhood educators' implementation of constructivist curriculum* (Publication Number 3737240) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Lidji, P. (2008). *Musique et langage: Spécificités, interactions et associations spatiales* (Publication Number NR57502) [Ph.D., Universite de Montreal (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Lima, I. d. S. (2021). *Expressão Facial da Emoção a Tocar Violino: Estudo de Caso Sobre Performance em Dueto Com Codificação Através do F-M Facs 4.0 e do Facereader 8.1* (Publication Number 29010348) [Master's, Universidade Fernando Pessoa (Portugal)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Linan, R. G. (2006). *The effect of music instruction on student success in the age of high - stakes testing and accountability* (Publication Number 3250008) [Ed.D., Texas A&M University - Kingsville]. ProQuest Dissertations & Theses Global. Ann Arbor.

Linden, A. H. (2019). *Heterogeneity of Research Results: New Perspectives on Psychological Science* (Publication Number 27992026) [Ph.D., University of Northumbria at Newcastle (United Kingdom)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Lindsey-North, J. L. (1999). *Fanning the flame: Transforming teachers by fostering transpersonal understandings through the arts* (Publication Number 9923134) [Ph.D., University of Dayton]. ProQuest Dissertations & Theses Global. Ann Arbor.

Linsin, T. N. (2016). *Music Learning Networks: Supporting the Music Learning of Adolescents* (Publication Number 10162237) [Ph.D., University of Washington]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Lissner, P. A. (2007). *Chi-thinking: Chiasmus and cognition* (Publication Number 3297307) [Ph.D., University of Maryland, College Park]. ProQuest Dissertations & Theses Global. Ann Arbor.

Lin, L. C., Ouyang, C. S., Chiang, C. T., Wu, H. C., & Yang, R. C. (2014b). Early evaluation of the therapeutic effectiveness in children with epilepsy by quantitative EEG: A model of Mozart K. 448 listening—a preliminary study. *Epilepsy research*, *108*(8), 1417-1426. https://doi.org/10.1016/j.eplepsyres.2014.06.020

Lin, L. C., Ouyang, C. S., Chiang, C. T., Wu, R. C., Wu, H. C., & Yang, R. C. (2014c). Listening to Mozart K. 448 decreases electroencephalography oscillatory power associated with an increase in sympathetic tone in adults: a post-intervention study. *JRSM open*, *5*(10), 2054270414551657. https://doi.org/10.1177/2054270414551657

Lithander, M. P. G. (2022). *Neuromyths: Corrections and the Continued Influence Effect* (Publication Number 28862372) [Ph.D., University of Massachusetts Lowell]. ProQuest Dissertations & Theses Global. Ann Arbor.

Little, C. (2009). *Do we practice what we preach? An analysis of the classroom practices of music educators in New York State* (Publication Number 1484340) [M.A., State University of New York Empire State College]. ProQuest Dissertations & Theses Global. Ann Arbor.

Locke, M. E. (2000). *Effects of somatic movement and music upon the psychophysiology of children* (Publication Number 9986800) [Ed.D., The Fielding Institute]. ProQuest Dissertations & Theses Global. Ann Arbor.

Locklear, A. L. M. (2020). *Concept Maps as Sites of Rhetorical Invention: Teaching the Creative Act of Synthesis as a Cognitive Process* (Publication Number 28153661) [Ph.D., Old Dominion University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Logsdon, L. F. (2011). *Re-imagining arts-centered inquiry as pragmatic instrumentalism* (Publication Number 3471641) [Ph.D., Georgia State University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Louca, K. (2018). *The Effects of Classical Music to Reduce Off Task Behavior during the Writing Process* (Publication Number 10812461) [M.A.S.E., Caldwell University]. ProQuest Dissertations & Theses Global. Ann Arbor

Lovett, K. M. (2003). *Texas public school superintendents' attitudes and perceptions of the utilization of *research in decision-making* (Publication Number 3081134) [Ed.D., Baylor University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Lowe, G. A. (2016). *Eighth grade perspectives: The relationship between students' attitudes towards math and students' attitudes toward music* (Publication Number 10162754) [Ed.D., Liberty University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Luchinski, R. J. (2005). *Fetal alcohol syndrome: Challenges in the classroom* (Publication Number MR18898) [M.Ed., The University of Regina (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Luebke, L. (2010). *The specialist in communities of practice: Lessons in leadership for elementary general music* (Publication Number 3406158) [Ph.D., Gonzaga University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Luís, C. H. N. D. S. (2013). *A Aprendizagem Musical Como Elemento De Aperfeiçoamento De Competências Matemáticas* (Publication Number 28477779) [Ph.D., Universidade de Aveiro (Portugal)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Luke-Killam, A. (2000). *The subjunctive in American English at the turn of the twenty-first century* (Publication Number 1400667) [M.A., San Jose State University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Lyons, L. M. (2008). *The integration of music with reading concepts to improve academic scores of elementary students* (Publication Number 3332747) [Ph.D., Colorado State University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Leatherwood, J. M. (2021). *INVESTIGATIONS ON NOVEL CYP26A1/B1 INHIBITOR, DX308: USING atRA RESPONSE AS A THERAPUTIC TARGET FOR TRAUMATIC BRAIN INJURY AND PARKINSON'S DISEASE* University of Montana].

Lenz, Q. F. (2014). *Envolvimento dos receptores CysLT1 nas crises induzidas por pentilenotetrazol em camundongos, na permeabilidade da barreira hematoencefálica e na modulação da enzima na+,k+-ATPase em hipocampo* Universidade Federal de Santa Maria; Programa de Pós-Graduação em Farmacologia; UFSM; BR; Farmacologia].

Li, B. (2015). *Longitudinal Morphometric Study of Genetic Influence of APOE e4 Genotype on Hippocampal Atrophy - An N=1925 Surface-based ADNI Study* Arizona State University].

Li, C. (2021). *Effect of anti-amyloid β antibody on Aβ trafficking at the blood-brain barrier* University of Minnesota].

Li, D. (2017). *Effect of 6OHDA-induced dopaminergic neuron loss on level of astakine 1 cytokine in crayfish brain and blood cells* Uppsala University].

Loane, C. (2015). *Neuroimaging studies of brain networks in Parkinson's disease* Imperial College London]

Loane, C. (2016). *Neuroimaging studies of brain networks in Parkinson's disease* Imperial College London].

Lu, Y. (2014). *Noninvasive Functional Neuroimaging of Electrophysiological Brain Activities in Epilepsy Patients* University of Minnesota].

Mansouri, F. A., Acevedo, N., Illipparampil, R., Fehring, D. J., Fitzgerald, P. B., & Jaberzadeh, S. (2017). Interactive effects of music and prefrontal cortex stimulation in modulating response inhibition. *Scientific reports*, *7*(1), 1-13. https://doi.org/10.1038/s41598-017-18119-x

Magee, W. L., Clark, I., Tamplin, J., & Bradt, J. (2017). Music interventions for acquired brain injury. *Cochrane Database of Systematic Reviews*, (1). https://doi.org/10.1002/14651858.CD006787.pub3

Mangoulia, P., & Ouzounidou, A. (2013). The role of music to promote relaxation in intensive care unit patients. *Hospital Chronicles*, *8*(2), 78-85. https://doi.org/10.2015/hc.v8i2.537

Maggioni, E., Arienti, F., Minella, S., Mameli, F., Borellini, L., Nigro, M., ... & Ardolino, G. (2021). Effective Connectivity During Rest and Music Listening: An EEG Study on

Parkinson's Disease. *Frontiers in aging neuroscience*, *13*, 657221. https://doi.org/10.3389/fnagi.2021.657221

Martínez, T. P., & Médica, R. Musicoterapia, una útil herramienta papa el mejoramiento de la salud humana.

Mastnak, W. (2015). Musiktherapie und Neurologie. *Musik-, Tanz-und Kunsttherapie*, *26*(3), 121-122.

Mater, A. Share Link. *Variations*, *7*, 93.

McLemore, M. P. (2000). *Uses of music therapy with Alzheimer's patients and those with related dementias in Mississippi, Louisiana, and Alabama*. The University of Southern Mississippi

Medina, J. (2011). *Brain rules: 12 principles for surviving and thriving at work, home, and school*. ReadHowYouWant. com.

Melillo, R., & Leisman, G. (2009). Therapeutic Theory and Strategy. In *Neurobehavioral Disorders of Childhood* (pp. 305-365). Springer, New York, NY. https://doi.org/10.1007/978-1-4419-1231-2_11

Michael Chikinda 5, 6, Eugene Watanabe5, Tristan Underwood Misty D. Smith 1, 7, H. Steve

Misuraca, R., Miceli, S., & Teuscher, U. (2017). Three effective ways to nurture our brain: Physical activity, healthy nutrition, and music. A review. *European Psychologist*, *22*(2), 101. https://doi.org/10.1027/1016-9040/a000284

Morgenstern, M. (2009). The influence of musical rhythm on cardiovascular, respiratory and electrodermal activity.

Mountcastle, V. B. (1957). Modality and topographic properties of single neurons of cat's somatic sensory cortex. *Journal of neurophysiology*, *20*(4), 408-434.

Munoz, F. J. R. (2013). "Scientific Discourse on the Mozart Effect." Situarte **8**(15): 66-69.

Murdock, M. C., Morgan, J. A., & Laverghetta, T. S. (2012). The Music Student with Epilepsy. *Music Educators Journal*, *99*(1), 47-53. https://doi.org/10.1177/0027432112451142

MUSIC, G. B. O. "Music and Emotions."

Music, W. "Music and the child."

MacLean, W. P. (2010). *Participation in a professional association's annual national conference: A phenomenological inquiry into the perceptions of underrepresented educational leadership faculty* (Publication Number 3421637) [Ph.D., Washington State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Maguire, L. E. (2020). *Cognitive, Functional and Narrative Improvements after Individualized Singing Interventions in Dementia Patients* (Publication Number 27963214) [Ph.D., George Mason University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Mallett, C. A. (2000). *An examination of parent /caregiver attitudes toward music instruction, the nature of the home musical environment, and their relationship to the developmental music aptitude of preschool children* (Publication Number 9967391) [Ph.D., The University of Nebraska - Lincoln]. ProQuest Dissertations & Theses Global. Ann Arbor.

Mallett, S. J. J. (2010). *Preventing Predictions: The Political Possibilities of Play and Aesthetics in Contemporary Installation Art and Works by Carsten Höller and Gabriel Orozco* (Publication Number MR68029) [M.A., University of Alberta (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Maloney-Codrington, D. (2020). *The Experiences of Baccalaureate Nursing Students with Emotional Intelligence: A Basic Qualitative Study* (Publication Number 28152785) [D.Ed., Capella University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Maloy, L. A. (2017). *Spinning the child: How records made for children construct childhood* (Publication Number 28018345) [Ph.D., The University of Liverpool (United Kingdom)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Maloy, M. E. (2016). *The effects of music on mathematical performance for three girls with attention deficit hyperactivity disorder* (Publication Number 10132873) [Ph.D., Indiana University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Malski, S. L. (2012). *The healing quality of art* (Publication Number 1513935) [M.F.A., Long Island University, The Brooklyn Center]. ProQuest Dissertations & Theses Global. Ann Arbor.

Mann, J. A. (2017). *"In all the factious humours you have bred": Music as political propaganda in seventeenth-century england* (Publication Number 10272914) [Ph.D., The Catholic University of America]. ProQuest Dissertations & Theses Global; ProQuest One Literature; Social Science Premium Collection. Ann Arbor.

Manning, E. F. (2003). *The effects of instruction utilizing the arts on the academic achievement of fourth-grade students* (Publication Number 3084540) [Ed.D., Louisiana Tech University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Manouvrier, L. (2014). *Attitudes of hispanic parents toward the visual arts in the curriculum* (Publication Number 3577943) [Ed.D., Long Island University, C. W. Post Center]. ProQuest Dissertations & Theses Global. Ann Arbor.

Mantie, R. A. (2009). *Stylizing lives: Selected discourses in instrumental music education* (Publication Number NR61025) [Ph.D., University of Toronto (Canada)]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Maranzano, C. (2002). *Evaluating music teachers in Virginia: Practices and perceptions* (Publication Number 3041366) [Ed.D., The College of William and Mary]. ProQuest Dissertations & Theses Global. Ann Arbor.

Marciano, D. L. (2001). *Interpretations of schooling in contemporary children's picture books* (Publication Number 3014662) [Ph.D., The Pennsylvania State University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Marie, S. D. (2012). *Leadership of the artist* (Publication Number 3510690) [Ph.D., Gonzaga University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Marple, C. M. (2021). *Select eighth-grade chorister and choir director views of why the students may continue in high school curricular choir* (Publication Number 28650184) [Ph.D., The University of Iowa]. ProQuest Dissertations & Theses Global. Ann Arbor.

Marsh, J. E. (2006). *Auditory-semantic distraction : a process-oriented approach* (Publication Number U584127) [Ph.D., Cardiff University (United Kingdom)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Marsh, T. (2013). *The effect of music on stress reduction in MSW students* (Publication Number 1522906) [M.S.W., Southern Connecticut State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Martel, C. (2008). *The effect of teaching metacognitive learning skills on the performance of online learners demonstrating different levels of self -regulated learning* (Publication Number NR63440) [Ph.D., Concordia University (Canada)]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Martignetti, F. A., III. (2017). *In their own voices: An ethnographic study of an urban public high school music program* (Publication Number 10622036) [Ph.D., New York University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Martin, K. E. (2006). *Perceptions of brain -based learning from principals in the bulloch county school system, Georgia* (Publication Number 3244187) [Ph.D., Union Institute and University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Martin, L. J. (2017). *Alabama classroom teachers who participated in arts integration workshops and their implementation of music into the core curriculum* (Publication Number 10642533) [Ph.D., The University of Southern Mississippi]. ProQuest Dissertations & Theses Global. Ann Arbor.

Martins da Silva, K. (2018). *Language and Music: The influences on ESOL proficiency achievement* (Publication Number 13424002) [M.S., Regent University]. ProQuest Dissertations & Theses Global; ProQuest One Literature; Social Science Premium Collection. Ann Arbor.

Mason, R. A. (2001). *Audiation, cochlear function, and the musical ear of Alfred Tomatis* (Publication Number 3008169) [Ph.D., University of Miami]. ProQuest Dissertations & Theses Global. Ann Arbor.

Matthews, F. (2006). *(MI) Squared: Multiple intelligences in math instruction* (Publication Number 1444387) [M.A.E., Pacific Lutheran University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Matthews, S. (2005). *Voice: Gateway to the numinous* (Publication Number 3205598) [Ph.D., Pacifica Graduate Institute]. ProQuest Dissertations & Theses Global. Ann Arbor.

Mayes, D. J. C. (2014). *School leadership beliefs about factors influencing decision-making on music programming in urban schools* (Publication Number 3666739) [Ed.D., Northcentral University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Mazeh, Y. Y. (2011). *Community college leaders' perceptions of personal implementation of Emotional Intelligence (EI) skills* (Publication Number 3454618) [Ph.D., Colorado State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

McArdle-Knudsen, K. E. (1999). *Music and curricular inclusion: A history, cognitive research findings, and Nebraska superintendent survey* (Publication Number EP74414) [M.M., University of Nebraska at Omaha]. ProQuest Dissertations & Theses Global. Ann Arbor.

McAteer, T. C. (2010). *Connecting brain research to classroom learning: A mixed-method study on how teachers apply brain research to their instruction* (Publication Number 3447760) [Ed.D., University of La Verne]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

McCammon, W. G. L., Jr. (2008). *Chemistry to music: Discovering how Music-based Teaching affects academic achievement and student motivation in an 8th grade science class* (Publication Number 3329304) [Ph.D., North Carolina State University].

ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

McCarter, K. M. (2008). *The effect of auditory stimulation on learners with different learning styles* (Publication Number 3320827) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

McClure, M. D. (2009). *The effects of an arts-based curriculum on academic achievement* (Publication Number 3404705) [Ed.D., Tennessee State University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database; Social Science Premium Collection. Ann Arbor.

McConnell, M. M. (2009). *Circadian and emotional fluctuations in the efficiency of alerting, orienting, and executive function measures* (Publication Number NR58254) [Ph.D., McMaster University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

McCuin, D. (2012). *Teachers working with social emotional competence: Students' perspectives on the positive effects* (Publication Number 3509595) [Ph.D., Colorado State University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database; Social Science Premium Collection. Ann Arbor.

McCullough, P. J. H. (2009). *Relationships among elementary teachers' self -perceptions of musical intelligence, perceived value of instruction through music, and classroom instructional practices* (Publication Number 3383753) [Ph.D., The University of Southern Mississippi]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

McDaniel, B. (2011). *Academic achievement differences between Title I students enrolled in music classes and Title I students who are not* (Publication Number 3468849) [Ed.D., University of Redlands]. ProQuest Dissertations & Theses Global; Publicly Available Content Database; Social Science Premium Collection. Ann Arbor.

McDonel, J. S. (2013). *Exploring the relationship between music learning and mathematics learning in an interdisciplinary Pre-K curriculum* (Publication Number 3598710) [Ph.D., State University of New York at Buffalo]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

McDowell, C. J. (1998). *A descriptive qualitative case study of two middle school environments concerning students', music teachers', and administrators' written responses regarding why music should or should not be included in their schools* (Publication Number 9839770) [Ph.D., The Florida State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

McGuire, L. (2010). *The effects of text presentation (sung/chanted/spoken) on reading comprehension of children with developmental disabilities* (Publication Number 1494627) [M.M.E., University of Kansas]. ProQuest Dissertations & Theses Global. Ann Arbor.

McKinstry-Edwards, D. (2006). *Singing: Soul's mythic mirror. An exploration of myth's musical nature* (Publication Number 3302066) [Ph.D., Pacifica Graduate Institute]. ProQuest Dissertations & Theses Global. Ann Arbor.

McLelland, M. J. (2005). *The impact of instrumental music on student academic achievement* (Publication Number 3156552) [Ed.D., Wilmington College (Delaware)]. ProQuest Dissertations & Theses Global. Ann Arbor.

McQueen, A. L. (2002). *The effects of self -affirmation and positive mood on the reduction of defensiveness after exposure to personally relevant health -risk information* (Publication Number 3064106) [Ph.D., University of Houston]. ProQuest Dissertations & Theses Global. Ann Arbor.

McVay, V. J. (2005). *The effectiveness of color -coding for learning music theory rudiments, aural skills, and keyboard skills in persons aged 60 and older* (Publication Number 3173697) [Ph.D., University of Kentucky]. ProQuest Dissertations & Theses Global. Ann Arbor.

Mears, G. S. (2012). *Examining the relationship between emotional schemas, emotional intelligence, and relationship satisfaction* (Publication Number 3539213) [Ph.D., Liberty University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Mehr, S. A. (2017). *Social Functions of Music in Infancy* (Publication Number 10627420) [Ed.D., Harvard University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Meidl, K. (2014). *Growth and stability: The maturing of the Wisconsin Choral Directors Association, 1985–1999* (Publication Number 3662683) [D.M.A., Boston University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Merida-Gonzalez, L. (2017). *Effect of a Music Education Intervention on Fifth-Grade Students' Ability to Learn Fractions* (Publication Number 10256281) [Ed.D., Northcentral University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Merrill, J. B. (2008). *Making it, not making it: Creating music in everyday life* (Publication Number 3337133) [Ph.D., University of Colorado at Boulder]. ProQuest Dissertations & Theses Global. Ann Arbor.

Mesoudi, A. (2005). *The transmission and evolution of human culture* (Publication Number 10166247) [Ph.D., University of St. Andrews (United Kingdom)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Metaxa, X. T. (2013). *The effect of authentic songs on vocabulary acquisition in the English foreign language classroom* (Publication Number 3587358) [Ph.D., Saint Louis University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Mezzetti, J. C. (2016). *Running a successful arts nonprofit a technical communicator's guide to creating and sustaining business success* (Publication Number 10146753) [M.A.P., Alaska Pacific University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Miller, C. (2009). *The use of sound in pregnancy: Promotes pregnant mothers' self-regulation and fetal development* (Publication Number EP40089) [M.A., The Chicago School of Professional Psychology]. ProQuest Dissertations & Theses Global. Ann Arbor.

Miller, C. (2013). *Music Instruction's effect on african american Students' academic achievement in mathematics on standardized tests* (Publication Number 3604724) [Ed.D., Walden University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Miller, E. B. (2007). *Getting from psy-phy (psychophysiology) to medical policy via music and neurofeedback for ADHD children* (Publication Number 3258205) [Ph.D., Bryn Mawr College, Graduate School of Social Work and Social Research]. ProQuest Dissertations & Theses Global. Ann Arbor.

Miller, K. G. (1997). *Music reading activities using pitched and non-pitched percussion instruments and their effect on the general reading comprehension of third-grade students* (Publication Number EP74406) [M.M., University of Nebraska at Omaha]. ProQuest Dissertations & Theses Global. Ann Arbor.

Mims, H. C. (2017). *Concerto for cello and orchestra and a comparative study of the pedagogical methods of Nadia Boulanger and Dr. Dinos Constantinides* (Publication Number 29117560) [Ph.D., Louisiana State University and Agricultural & Mechanical College]. ProQuest Dissertations & Theses Global. Ann Arbor.

Min, K. S. (2013). *Toward a holistic pedagogy of art integration* (Publication Number NR96183) [Ph.D., University of Toronto (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Mintz, E. D. (2003). *Toward a new "stage theory": An exploration of the work of teachers who educate through drama* (Publication Number 3100154) [Ed.D., Harvard

University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Miranda, D. (2007). *Les préférences musicales et la dépression à l'adolescence: Une perspective développementale tenant compte également des traits de personnalité, des pairs et du coping* (Publication Number NR37406) [Ph.D., Universite de Montreal (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Miranda, J. Y. (2001). *A study of the effect of school -sponsored, extra-curricular activities on high school students' cumulative grade point average, SAT score, ACT score, and core curriculum subject grade point average* (Publication Number 3072254) [Ph.D., University of North Texas]. ProQuest Dissertations & Theses Global. Ann Arbor.

Miranda, R. (2007). *Double dissociation between rules and memory in the neurocognition of music* (Publication Number 3283076) [Ph.D., Georgetown University Medical Center]. Biological Science Collection; ProQuest Dissertations & Theses Global. Ann Arbor.

Mitchell, D. R., Brooks, M. R., & Estes, J. S. (2019). *Effects of an after-school musical theater program on student attendance, behavior, academic achievement, and social and emotional skills* (Publication Number 27664513) [Ed.D., Lipscomb University]. ProQuest Dissertations & Theses Global; ProQuest One Literature; Social Science Premium Collection. Ann Arbor.

Mobbs, R. I. (2013). *Partners for early intervention and healthy child development: Linking attributes and charcteristics of stakeholder networks to performance* (Publication Number 3562652) [Ph.D., University of Colorado at Denver]. ProQuest Dissertations & Theses Global. Ann Arbor.

Mohd Salleh, L. (2007). *Communication competence of Malaysian leaders as a function of emotional intelligence and cognitive complexity* (Publication Number 3272908) [Ph.D., Ohio University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Mohler, J. L. (2006). *Examining the spatial ability phenomenon from the student's perspective* (Publication Number 3371400) [Ph.D., Purdue University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Moisan, J. M. (2003). *An investigation of mother -infant interactions as a context for the construction of pre -language problem -solving strategies* (Publication Number 3085093) [Ph.D., Loyola University Chicago]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Molacek, L. J. (2008). *Innovation meets change: Improving the spatial temporal abilities of students in grades K–3* (Publication Number 3323495) [Ph.D., The University of Nebraska - Lincoln]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Montague, E. (2001). *Moving to music: A theory of sound and physical action* (Publication Number 3031697) [Ph.D., University of Pennsylvania]. ProQuest Dissertations & Theses Global. Ann Arbor.

Monti, L. S. (2002). *Seri Indian adaptive strategies in a desert and sea environment: Three case studies. A navigational song map in the Sea of Cortés; the ironwood tree as habitat for medicinal plants; desert plants adapted to treat diabetes* (Publication Number 3090003) [Ph.D., The University of Arizona]. ProQuest Dissertations & Theses Global. Ann Arbor.

Moore, T. J. (2012). *Effects of Preschools on the Academic Outcome of Children from Low-Income Homes* (Publication Number 3507435) [Ed.D., Walden University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Moreno, M. (2020). *Andante, Allegro o Silenzio: An Examination of Background Music Tempo on Facial Emotions, Electrodermal Responses, and Reading Task Performance* (Publication Number 27737493) [Ph.D., University of Toronto (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Mori-Inoue, S. (2010). *The effect of a music exercise and healthy eating habits program on children's weight loss* (Publication Number 3462334) [Ph.D., The Florida State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Morin, A. L. (2013). *Les besoins d'adolescentes et d'adolescents fréquentant un centre alternatif et la prise en compte de ceux-ci dans les stratégies d'intervention déployées* (Publication Number MS00271) [M.A.Ed., Universite de Moncton (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Morse, L. L. (2010). *Involvement in sixth-grade beginner band: A relational study of the impact on mathematics achievement* (Publication Number 3447104) [Ph.D., The University of Mississippi]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Morton, C. L. (2014). *Exploring teacher emotional intelligence and its impact on school climate* (Publication Number 3627760) [Ed.D., Kansas State University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Morton, C. M. (2019). *Perceptions of youth about how cultural art programs stop them from committing crimes* (Publication Number 27547661) [Ph.D., Ashford University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Mueller, J. K. (2000). *Millennium musical puzzle: an integrated arts project based on the Constructivist theory of learning* (Publication Number EP31764) [M.A., Silver Lake College]. ProQuest Dissertations & Theses Global. Ann Arbor.

Mukhopadhyay, A. (2017). *Preparing Teachers for Social Emotional Learning Driven Instruction and Practice* (Publication Number 10801907) [Ph.D., University of Southern California]. ProQuest Dissertations & Theses Global. Ann Arbor.

Mulcahy, K. (2004). *Concept of musicianship* (Publication Number U584649) [Ph.D., Cardiff University (United Kingdom)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Mulligan, T. P. (2009). *The relationship of music preference and music function with coping in university students* (Publication Number 3372184) [Ph.D., Oklahoma State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Mullins, E. J. (2011). *A critical perspective on the national arts and humanities youth program award criteria for assessing exemplary afterschool arts programs* (Publication Number 1495497) [M.A., Tufts University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Mundra, A. R. (2003). *The differences in emotional awareness between musically trained and untrained young adults* (Publication Number 3106578) [Psy.D., University of Hartford]. ProQuest Dissertations & Theses Global. Ann Arbor.

Murdoch, S. C. J. (2015). *The effect of leaders' and subordinates' emotional intelligence and the effect of their similarity of emotional intelligence on leader-member exchange quality* (Publication Number 3688515) [Ph.D., The Chicago School of Professional Psychology]. ProQuest Dissertations & Theses Global. Ann Arbor.

Murphy-Kahn, M. (2014). *An exploratory study of teachers' emotional intelligence and the school climate profile of their schools* (Publication Number 3644849) [Ed.D., Wilkes University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Murtaugh, A. L. (2016). *Myth to Reality? The pedagogical connection between neuromyths and classroom instruction* (Publication Number 27606845) [Ed.D., The Johns Hopkins University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Muyia, M. H. A. (2008). *A leadership training program and its effects of participants' emotional intelligence scores* (Publication Number 3341244) [Ed.D., University of Arkansas]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Ma, D. (2016). *Automated morphometry for mouse brain MRI through structural parcellation and thickness estimation* University College London (University of London)].

Maiovis, P. (2016). *Το νοητικό απόθεμα σε ασθενείς με μετωποκροταφική άνοια: συσχέτιση με τα ευρήματα του SPECT εγκεφάλου* Aristotle University Of Thessaloniki (AUTH); Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης (ΑΠΘ)].

Matveychuk, D. (2015). *Novel properties of the multifaceted drug phenelzine and its metabolite β-phenylethylidenehydrazine* University of Alberta].

Mavrakis, A. (2014). *Η μελέτη της επίδρασης του οξειδωτικού στρες στην οκλουδίνη, βασικού δομικού μορίου των στενών δεσμών (tight junctions) του αιματοεγκεφαλικού φραγμού σε επίμυες: μελέτη της πιθανής προφυλακτικής επίδρασης αντιοξειδωτικών παραγόντων* University of Patras; Πανεπιστήμιο Πατρών].

McLaughlin, L. (2011). *The role of tachykinins in depression, mood disorders and epilepsy* University of Liverpool].

McManus, R. M. (2015). *Role of infection and T cells in disease pathogenesis in a model of Alzheimer's disease* Trinity College (Dublin, Ireland). School of Biochemistry and Immunology].

Mohan, U. R. (2021). *Characterization and modulation of neural signals that support human memory* Columbia University].

Mohandas, N. (2020). *An epigenomic and omics approach to neurodevelopmental disorders* University of Melbourne].

Mpitimpiti, A. N. (2014). *Synthesis and evaluation of chromone derivatives as inhibitors of monoamine oxidase / Annah Nyasha Mpitimpiti* North-West University].

Mullen, T. (2014). *The Dynamic Brain: Modeling Neural Dynamics and Interactions From Human Electrophysiological Recordings* University of California – San Diego].

Murray, A. D. (2012). *Brain white matter hyperintensities : correlates in normal ageing and relevance in Alzheimer's disease* University of Aberdeen].

Neuroimaging, H. About Neuroscience at Royal Holloway.

Newton, H. B. (2015). The neurology of creativity: Focus on music. In *Creativity and Innovation among Science and Art* (pp. 3-52). Springer, London. https://doi.org/10.1007/978-1-4471-6624-5_2

Nieto, F. R., et al. (2020). "Cameron S. Metcalf 1*, Merodean Huntsman2†, Gerry Garcia

Nigro Filho, A. C. R. (2018). Habilidades cognitivas de adolescentes em projeto social de música em Recife.

Nakashima, J. (2009). *"Experiencing Music 2200" online: A critical case study of the curriculum transfer process* (Publication Number MR57449) [M.Ed., Memorial University of Newfoundland (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Naranjo, J. (2013). *A case study: One public school's endeavor to revive arts education* (Publication Number 3563962) [Ed.D., University of Southern California]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Navon, J. (2019). *The making of modern musical expertise: German conservatories and music education, 1843-1933* (Publication Number 13902115) [Ph.D., Columbia University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Nazario, A. (2018). *The Relation between music Integration and academic achievement in elementary schools in southwest Puerto Rico* (Publication Number 10837929) [Ed.D., Northcentral University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database; Social Science Premium Collection. Ann Arbor.

Neal, A. M. (2007). *Traveling of the Mind: An Interview with Michael Colgrass and an Analysis of Raag Mala* (Publication Number 10060594) [D.M., Northwestern University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Neil-Palmer, K. (2009). *Effects of music instruction on perceptions and academic achievement of middle school students* (Publication Number 1466686) [M.S.E., Southwest Minnesota State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Nekola, A. E. (2009). *Between this world and the next: The musical "worship wars" and evangelical ideology in the United States, 1960–2005* (Publication Number 3368031) [Ph.D., The University of Wisconsin - Madison]. ProQuest Dissertations & Theses Global. Ann Arbor.

Nelson, C. (2021). *Emotional intelligence and academic achievement in primary schools: Development and initial evaluation of the EMIL programme* (Publication Number

28854777) [Ph.D., University of South Wales (United Kingdom)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Neuharth, R. H. (2000). *A comparison of achievement test scores of band and non -band students in a rural public school* (Publication Number 9978848) [D.Ed., University of South Dakota]. ProQuest Dissertations & Theses Global. Ann Arbor.

Nicholls, A. J. (2017). *The impact of mood-state and emotion regulation on negative appraisal and neutralising motivations in obsessive-compulsive disorder* (Publication Number 10802001) [D.Psych., The Australian National University (Australia)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Nicholson, K. (1999). *Music therapy in cancer care: A study of the music therapy program at the British Columbia Cancer Agency (Vancouver Cancer Centre)* (Publication Number MQ57916) [M.A., British Columbia Open University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Nicol, J. J. (2002). *In the company of music and illness: The experience and meaning of music listening for women living with chronic illness* (Publication Number NQ73221) [Ph.D., The University of British Columbia (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor

Nicolo, J.-P. (2021). *Glutamate as a biomarker of post-stroke epilepsy* University of Melbourne].

Nikles, C. D., II. (2004). *The relationship between absorption and responses to a word association task* (Publication Number 3154064) [Ph.D., University of Minnesota]. ProQuest Dissertations & Theses Global. Ann Arbor.

Nelvagal, H. R. (2017). *Spinal cord pathology in CLN1 disease : a novel therapeutic target* King's College London (University of London)].

Nikitidou, L. (2013). *Neuropeptides and neurotrophic factors in epilepsy: seizure suppressant actions of VEGF, NPY and galanin* University of Lund].

Oosterbeek, E. G. H. (2018). *The Representation of Neuroscientific Research in Dutch Newspapers* (Master's thesis).

O'Donnell, E. D. (2010). *Integrating middle school mathematics into the music classroom* (Publication Number 3419590) [Ed.D., Walden University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Obre, M. (2010). *Attitudes, self-efficacy, and frequency of use of the arts by secondary-level teachers in schools deemed successful or in-need-of-improvement under the No Child*

Left Behind Act (Publication Number 10258394) [Ed.D., Western Connecticut State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Okudan, Z. V., & Özkara, Ç. (2018). Reflex epilepsy: triggers and management strategies. *Neuropsychiatric disease and treatment*, *14*, 327. https://doi.org/10.2147/NDT.S107669

Odorfer-Butterfield, M. A. (2004). *Students' conceptions of the brain and learning* (Publication Number MQ93390) [M.Sc., University of Calgary (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ogden, H. C. (2008). *Vivid moments long remembered: The lifetime impact of elementary school musical theatre* (Publication Number MR42912) [M.Ed., Queen's University (Canada)]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Ortega, R. (2019). Musicoterapia en Polimicrogiria. Una propuesta de intervención. *Revista de Investigación en Musicoterapia*, *3*, 131-147. https://doi.org/10.15366/rim2019.3.008

Ozkalayci, O., Araz, C., Cehreli, S. B., Tirali, R. E., & Kayhan, Z. (2016). Effects of music on sedation depth and sedative use during pediatric dental procedures. *Journal of clinical anesthesia*, *34*, 647-653. https://doi.org/10.1016/j.jclinane.2016.07.001

Ojeda, S. L. (2005). *The impact of culturally relevant music on the classroom behaviors of special education Latino students* (Publication Number 3179438) [Psy.D., Widener University, Institute for Graduate Clinical Psychology]. ProQuest Dissertations & Theses Global. Ann Arbor.

Okonkwo, E. C. (2017). *Spiritual Redemption through Rap Music* (Publication Number 10604763) [Ph.D., Saybrook University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Oledzki, M. R. (2005). *An investigation into the use of multimedia for electronic learning* (Publication Number 10183527) [M.Phil., Nottingham Trent University (United Kingdom)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ollen, J. E. (2006). *A criterion -related validity test of selected indicators of musical sophistication using expert ratings* (Publication Number 3238158) [Ph.D., The Ohio State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Olszewski, L. E. (2015). *Screen Time Exposure and Children's Behavioral Correlates* (Publication Number 3663954) [Psy.D., Pace University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Opincar, J. T. (2012). *Exploring ethical intelligence through ancient wisdom and the lived experiences of senior business leaders* (Publication Number 3531372) [D.M., University of Phoenix]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Opper, B. (2013). *Exploring the value and limits of using outdoor adventure education in developing emotional intelligence during adolescence* (Publication Number 3716383) [Ph.D., University of Pretoria (South Africa)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Orakwe, J. T. (2015). *Joyful noise and violent prayer: Music and charismatic worship performance in Nigerian Catholic communities in Rome, Italy* (Publication Number 3712778) [Ph.D., Indiana University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Orders, S. A. (2012). *Unwrapping Giftedness: How Mothers of Elementary School-Aged Children Assessed as Intellectually Gifted Make Meaning of the Gifted Construct and Participate in Educational Decision Making* (Publication Number NR98038) [Ph.D., University of Ottawa (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Osterman, M. D. (2015). *Exploring relationships between thinking style and sex, age, academic major, occupation, and levels of arts engagement among professionals working in museums* (Publication Number 10165996) [Ed.D., Florida International University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ottmar, J. M. (2012). *The effects of music on autonomic arousal* (Publication Number 1511285) [M.A., Northern Arizona University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Oussi, N. (2020). *Is it all about the money?: The effects of low and high cost simulator training scenarios in surgical training* (Publication Number 28420776) [Ph.D., Karolinska Institutet (Sweden)]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

O'Donoghue, M. C. (2018). *Risk and resilience in cognitive ageing* University of Oxford].

Oliveira, C. V. d. (2017). *Efeito da atorvastatina sobre as alterações comportamentais, histológicas e bioquímicas em camundongos C57BL/6 com status epilepticus induzido por pilocarpina* Universidade Federal de Santa Maria; Centro de Ciências da Saúde; Programa de Pós-Graduação em Farmacologia; UFSM; Brasil; Farmacologia].

Overgaard, S. (2020). *Development of a Neuroinformatics Pipeline and its Application to Gene-environment Interaction in Neurodegenerative Disease* University of Minnesota].

Papp, G., Kovac, S., Frese, A., & Evers, S. (2014). The impact of temporal lobe epilepsy on musical ability. *Seizure*, *23*(7), 533-536. https://doi.org/10.1016/j.seizure.2014.03.018

Pérez Lloret, S., Diez, J. J., Domé, M. N., Alvarez Delvenne, A., Braidot, N., Cardinali, D. P., & Vigo, D. E. (2014). Effects of different" relaxing" music styles on the autonomic nervous system.

Petsche, H., Linder, K., Rappelsberger, P., & Gruber, G. (1988). The EEG: An adequate method to concretize brain processes elicited by music. *Music Perception*, *6*(2), 133-159. https://doi.org/10.2307/40285422

Palisson, J., Roussel-Baclet, C., Maillet, D., Belin, C., Ankri, J., & Narme, P. (2015). Music enhances verbal episodic memory in Alzheimer's disease. *Journal of clinical and experimental neuropsychology*, *37*(5), 503-517. https://doi.org/10.1080/13803395.2015.1026802

Parada, J., & Chaffee, L. R. (2021). Neuroscience in the Psychology Curriculum. In *International Handbook of Psychology Learning and Teaching* (pp. 1-29). Cham: Springer International Publishing. https://doi.org/10.1007/978-3-030-26248-8_19-2

Pasternak, C. (2011). Placebo: no longer a phantom response. *Interdisciplinary Science Reviews*, *36*(1), 72-82. https://doi.org/10.1179/030801811X12941390545762

Pece, P. A. (2003). The effects of brain trauma on the memory skills of musicians.

Perez-Arjona, E. A., Delproposto, Z., Sehgal, V., & Fessler, R. D. (2002). New techniques in cerebral imaging. *Neurological Research*, *24*(sup1), 17-26. https://doi.org/10.1179/016164102101199990

Poćwierz-Marciniak, I. (2018). Muzyka i muzykoterapia a zdrowie i rozwój dzieci. *Aspekty Muzyki*, *8*, 235-261. https://doi.org/10.34861/aspmuz8-11_muz-i-muzyko

Preidt, R. (2014). That was really surprising. That is what you find in people...

PROTECTION, S. (2013). Physical Hazards. *Textbook of Children's Environmental Health*, 362.

Proverbio, A. M., & De Benedetto, F. (2018). Auditory enhancement of visual memory encoding is driven by emotional content of the auditory material and mediated by superior frontal cortex. *Biological Psychology*, *132*, 164-175. https://doi.org/10.1016/j.biopsycho.2017.12.003

Proverbio, A. M., De Benedetto, F., Ferrari, M. V., & Ferrarini, G. (2018). When listening to rain sounds boosts arithmetic ability. *Plos one*, *13*(2), e0192296. https://doi.org/10.1371/journal.pone.0192296

Padron, C. L. (2020). *Rural music teacher job satisfaction, retention, and music education's career ladder* (Publication Number 27831065) [M.M., Colorado State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Pagan-Melendez, J. (2012). *Instructional technology and the post-test results of college learners* (Publication Number 3529354) [Ed.D., University of Phoenix]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Palos-Tuley, B. (2003). *An examination of the relationship between fine arts experiences and creative thinking, academic self-concept, and academic achievement of Hispanic students in grades 3, 4, and 5 in selected south Texas schools* (Publication Number 3115310) [Ed.D., Texas A&M University - Corpus Christi and Texas A&M University - Kingsville]. ProQuest Dissertations & Theses Global. Ann Arbor.

Pare-Blagoev, E. J. (2006). *Connecting neuroscience and education: The neural correlates of phonemic awareness in normal reading children* (Publication Number 3221615) [Ed.D., Harvard University]. Biological Science Collection; ProQuest Dissertations & Theses Global. Ann Arbor.

Park, N. (2004). *Assessment of parental motivation for enrolling a child in early childhood music instruction* (Publication Number 1424719) [M.Mus., Michigan State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Parkhurst, S. J. (1998). *Mi, my self and E.I.: Effects of vibroacoustic music on symptom reduction of patients with environmental illness* (Publication Number 9910831) [Ph.D., The Union Institute]. ProQuest Dissertations & Theses Global. Ann Arbor.

Pascale, L. M. (2002). *Dispelling the myth of the non-singer: Changing the ways singing is perceived, implemented and nurtured in the classroom* (Publication Number 3193398) [Ph.D., Lesley University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Patteson, A. K. (2005). *Present moments, present lives: Teacher transformation through art - making* (Publication Number NQ99849) [Ph.D., Queen's University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Payton, D. M. (2015). *Effective teaching in higher education for the 21st century adult learner* (Publication Number 3702023) [Ed.D., Walden University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Peifer, N. (2012). *Development and field test of the multiple intelligences learning instruction congruency impact scale* (Publication Number 3517267) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Pellow, D. G. (2019). *The Rabbath Method: Philosophy and Technique in Current Double Bass Pedagogy* (Publication Number 22589914) [Ph.D., The University of Southern Mississippi]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Pennington, E. P. (2010). *Brain -based learning theory: The incorporation of movement to increase the learning of grammar by high school students* (Publication Number 3389881) [Ed.D., Liberty University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Peoples-Marwah, A. M. (2005). *A study of the effects of visual /spatial and musical intelligences on sixth-grade Ohio Proficiency Test (OPT) math scores* (Publication Number 3199649) [Ed.D., The George Washington University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Percival, I. (2004). *The use of cultural perspectives in the elementary school mathematics classroom* (Publication Number NR03176) [Ph.D., Simon Fraser University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor

Perry Deegan, B. D. (2018). *Exploring the Effects of Piano Study on Cognitive Function in Senior Adults* (Publication Number 10747282) [D.M.A., Boston University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Peters, B. (2011). *A formative study of rhythm and pattern: Semiotic potential of multimodal experiences for early years readers* (Publication Number NR78930) [Ph.D., University of Manitoba (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Peterson, M. J. (2009). *Human 2.0? Conceptual metaphors of human beings in technologists' discourse: A study of the MIT Media Lab's Human 2.0 Symposium* (Publication Number 3351801) [Ph.D., Fielding Graduate University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Petrone, K. (2014). *How Young Adults Make Meaning of Their Family Intergenerational Solidarity Through The Use of Music* (Publication Number 3680484) [Psy.D., Antioch University New England]. ProQuest Dissertations & Theses Global. Ann Arbor.

Pettinato, M. C. (2013). *Instructional design strategies to support research subjects with traumatic brain injury* (Publication Number 3601890) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Phalen, A. G. (2003). *Measuring human milk intake in preterm infants: Correlation of the preterm infant breastfeeding behavior scale (PIBBS) and test weighing* (Publication Number 3087450) [Ph.D., University of Pennsylvania]. ProQuest Dissertations & Theses Global. Ann Arbor.

Philbin, K. A. (2007). *A therapeutic model for grief and bereavement: Exploring the efficacy of a transpersonal multidimensional protocol* (Publication Number 3319838) [Ph.D., Institute of Transpersonal Psychology]. ProQuest Dissertations & Theses Global. Ann Arbor.

Phillips, J. K. (2020). *Using current brain research to guide instructional strategies* (Publication Number 28155225) [M.A.P., Alaska Pacific University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Pidot, S. T. (2019). *Communication in the role of conflict manager: Perspectives of private high school principals identified as emotionallyiIntelligent* (Publication Number 27735304) [Ed.D., Saint Joseph's University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Piekarz, F. J. (2006). *An examination of high school choral music students' perceptions of musical and extramusical outcomes: Implications for advocacy* (Publication Number 3251023) [Ed.D., Northern Illinois University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Pinnock, G. (2014). *Intervention program data for reducing math anxiety and fostering positive social change* (Publication Number 3646855) [Ed.D., Walden University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Pintão, R. P. S. e. S. (2013). *O ensino de piano em grupo para uma nova literacia musical. Impactos de um projeto de investigação-ação numa escola pública* (Publication Number 28605500) [Ph.D., Universidade do Minho (Portugal)]. ProQuest Dissertations & Theses Global. Ann Arbor

Pirayesh, B. (2018). *A critical interrogation of the mind, brain, and education movement: Toward a social justice paradigm* (Publication Number 10933968) [Ed.D., Loyola Marymount University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Placeres, A. (2006). *The use of music therapy in psychotherapy* (Publication Number 1438424) [M.A., Long Island University, The Brooklyn Center]. ProQuest Dissertations & Theses Global. Ann Arbor.

Plouffe, R. T. (1999). *Terminal illness and the experience of God: A qualitative study of the transitional space* (Publication Number NQ48816) [D.Min., St. Stephen's College (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Plumlee, M. M. (2015). *Special educators' perceptions of using educational rap music to build phonemic awareness skills for students identified with mild intellectual disabilities: A phenomenological study* (Publication Number 3732636) [Ed.D., Liberty University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Plumridge, D. (2018). *Crazy by design: Brain research and adolescence: implications for classroom teaching, teacher learning and possibilities of teacher research* (Publication Number 13895117) [Ed.D., Western Sydney University (Australia)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Pon, A. (2012). *Vuzik: Exploring a medium for painting music* (Publication Number MR92670) [M.Mus., University of Calgary (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Pon, A. (2018). *Designing for the mindbody in technology-mediated music-making* (Publication Number 10835021) [Ph.D., University of Calgary (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Powell, D. L. (2001). *Relationships among elementary generalist teachers' experiences, beliefs, and practices in visual arts education* (Publication Number 3030218) [Ed.D., University of San Francisco]. ProQuest Dissertations & Theses Global. Ann Arbor.

Prager, J. J. (2006). *Through the eyes of art: Uncovering promising practices in arts -themed learning in California charter elementary schools* (Publication Number 3257672) [Ed.D., University of Southern California]. ProQuest Dissertations & Theses Global. Ann Arbor.

Presley, Z. K. (2010). *Songwriting the soul: A phenomenological study of the creative process of songwriting and performing* (Publication Number 1478789) [M.A., Pacifica Graduate Institute]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Preston, C. A. (2010). *An investigation into the nature and quality of children's experiences of group composing in the secondary classroom based on the concept of flow*

(Publication Number 13837624) [Ed.D., Open University (United Kingdom)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Preston, M. I. (2009). *The value of music education to school administrators: Quality music programs as avenues for reaching campus goals* (Publication Number 1481335) [M.A., Texas Woman's University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Price, J. F. (2002). *Music ministry as pastoral ministry* (Publication Number 3057244) [D.Min., Princeton Theological Seminary]. ProQuest Dissertations & Theses Global. Ann Arbor.

Price, T. (2013). *Emotional intelligence in medical laboratory science* (Publication Number 3565682) [Ph.D., Utah State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Prince, B. L. (2011). *Teacher perceptions of differentiated instruction* (Publication Number 3460876) [Ed.D., Walden University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Purnell, P. G. (2008). *The collaboration of teacher /artist teams: A qualitative analysis of selected interpersonal components influencing a partnership -model artist residency* (Publication Number 3303555) [D.Ed., Indiana University of Pennsylvania]. ProQuest Dissertations & Theses Global. Ann Arbor.

Parker, W. E. (2014). *Insights From Pretzel Syndrome: The Role of STRADA in Neuronal Migration and Cortical Development* University of Pennsylvania].

Parthasarathy, V. (2012). *Alzheimer's disease decreases surface glutamate receptors by regulating actin stabilization* University of California – San Diego].

Päsler, D. (2015). *Effect of background potassium channels on potassium homeostasis in healthy and epileptic hippocampus* Freie Universität Berlin].

Patel, Y. (2013). *DNA methylation analysis of Alzheimer's disease* King's College London (University of London)].

Pillai, B. S. B. (2019). *NEUROPROTECTIVE EFFECT OF EMBELIN IN EXPERIMENTAL MODELS OF ALZHEIMER'S DISEASE* Monash University].

Plunkett, L. G. (2016). *Brain Reserve in Multiple Sclerosis: The Impact of Maximal Lifetime Brain Growth on Fine Motor Functioning* Columbia University].

Quintana, A., Agra, C., Outeiral, L., Devesa, A., Llorente, D., & Devesa, J. (2018). Cognitive evolution of a patient who suffered a subarachnoid haemorrhage eight years ago, after

being treated with growth hormone, melatonin and neurorehabilitation. *Reports*, *1*(1), 2. https://doi.org/10.3390/reports1010002

Ren, H., Zou, L., Wang, L., Lu, C., Yuan, Y., Dai, C., & Chen, W. (2021). Evaluation of the Short-Term Music Therapy on Brain Functions of Preterm Infants Using Functional Near-Infrared Spectroscopy. *Frontiers in neurology*, 1634. https://doi.org/10.3389/fneur.2021.649340

Rojek, C. (2013). Celanthropy, music therapy and 'big-citizen'Samaritans. *Celebrity Studies*, *4*(2), 129-143. https://doi.org/10.1080/19392397.2013.791039

Rollison, J., Partikian, A., Akinniranye, G., Yagyu, S., Motala, A., & Hempel, S. (2019). Infantile Epilepsy. *Patient-Centered Outcomes Research Institute*.

Rayner, G. (2015). *Neurocognitive and psychiatric markers of network disease in epilepsy* University of Melbourne].

Rabipour, S. (2012). Computerized attention training for childhood behavior disorders: a non-pharmaceutical treatment approach.

Rabipour, S., & Raz, A. (2012). Training the brain: Fact and fad in cognitive and behavioral remediation. *Brain and cognition*, *79*(2), 159-179. https://doi.org/10.1016/j.bandc.2012.02.006

Rodríguez, S. C. P. (2017). *O papel da música na promoção da saúde em idade pediátrica* (Doctoral dissertation).

Route, S. (2012). *All students deserve music: developing a modified music curriculum* (Doctoral dissertation).

Ramos, A. C. (2014). *A case study exploring the use of computer assisted software to provide student centered instruction in a high school piano course* (Publication Number 10185051) [Ed.D., Northeastern University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ramos Gonzalez, R. (2004). *The effects of the use of songs and music on Puerto Rican 4th graders' attitudes toward the English class* (Publication Number 1423748) [M.A., University of Puerto Rico, Rio Piedras (Puerto Rico)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ravuri, S. P. (2017). *Tinnitus And Temporomandibular Joint Disorder Subtypes* (Publication Number 10598797) [Master's, University of Washington]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ray, J. J. (1997). *For the love of children: Using the power of music in "English as a Second Language" programs* (Publication Number 9803489) [Ed.D., University of California,

Los Angeles]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Raymond, M. H. (2005). *The effect of exploratory classes and other factors on student achievement in Colorado middle schools* (Publication Number 3199617) [Ph.D., University of Colorado at Denver]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ready, T. (2011). *Music as container* (Publication Number 3486447) [Ph.D., Pacifica Graduate Institute]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Realista, K. (2013). *Community college performing arts students perceptions of persistence: A phenomenological study* (Publication Number 3575410) [Ed.D., California State University, Fullerton]. ProQuest Dissertations & Theses Global; ProQuest One Literature; Publicly Available Content Database. Ann Arbor.

Reed, S. M. (2008). *Sentimental journey: The role of music in the meaning-making processes of older performing musicians* (Publication Number 3325972) [D.Ed., The Pennsylvania State University]. ProQuest Dissertations & Theses Global. Ann Arbor

Reis, A. A. (2001). *Singing a story: Exploring the effects of music-based reading activities on emergent readers* (Publication Number 1406553) [M.A., Pacific Lutheran University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Reyes, M. R. (2008). *Pathways through childhood: The role of poverty, the family environment, and children's regulatory capacities in trajectories of academic achievement* (Publication Number 3318237) [Ph.D., Fordham University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Rhee, S. (2012). *The Bassoon in Australia: Repertoire and Contemporary Relevance* (Publication Number 10308874) [Ph.D., University of Western Sydney (Australia)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Rhoden, M. K. (2008). *A history of the Tara Winds Community Band, Jonesboro, Georgia, 1988–2008* (Publication Number 3326722) [D.M.A., The University of Southern Mississippi]. ProQuest Dissertations & Theses Global. Ann Arbor.

Rhoton, C. E. (2014). *A multiple regression and concurrent validity analysis of high school seniors' social competence, ability to manage emotions, and their time spent on Facebook* (Publication Number 3618375) [Ed.D., Liberty University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ribble, M. S. (1999). *Finding Fibonacci: An interdisciplinary liberal arts course based on mathematical patterns* (Publication Number 9962299) [Ed.D., The University of Tennessee]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ribeiro, S. P. M. (2014). *Digital storytelling: Student ID in higher education* (Publication Number 10590973) [Ph.D., Universidade de Aveiro (Portugal)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Richard, M. (2009). *Finding the key to dance in elementary schools: A study of the current status of dance education in one Ontario school board* (Publication Number MR51586) [M.A., York University (Canada)]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Richards, G. P. (2009). *Relating engineering technology students' experiences in electromagnetics with performance in communications coursework: A mixed-methods study* (Publication Number 3379717) [Ph.D., Purdue University]. ProQuest Dissertations & Theses Global. Ann Arbor

Richards, S. C. (2011). *The effectiveness of separate pitch and rhythm training interventions on the phonological awareness of Kindergarten learners* (Publication Number 3472255) [Ed.D., Northcentral University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Richter, K. G. (2014). *Second language teacher education: The development of pre-service teacher cognitions about the characteristics and practices of effective ESL instructors* (Publication Number 3648485) [Ph.D., The University of Memphis]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Rickwood, J. A. (2013). *"We Are Australian": An ethnographic investigation of the convergence of community music and reconciliation* (Publication Number 10587468) [Ph.D., The Australian National University (Australia)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Riener, C. R. (2007). *An effect of mood on the perception of geographical slant* (Publication Number 3263515) [Ph.D., University of Virginia]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ries, C. (2008). *Kindergarten children and the effects of music and movement on retention of the 50 states* (Publication Number 1454271) [M.A., Caldwell College]. ProQuest Dissertations & Theses Global. Ann Arbor.

Rives, J. A. (2006). *Coordinated organizations, activities, and personnel: An ethnographic study of organizational behavior in the Wichita, Kansas String Education Plan*

(WSEP). An educational program for the development of symphony orchestra musicians and audiences (Publication Number 3215159) [Ph.D., University of Kansas]. ProQuest Dissertations & Theses Global. Ann Arbor.

Rizzo, R. M. (2021). *The Arts' Advantage: Why the arts exist and using them for optimal performance* (Publication Number 28412265) [Ph.D., California Institute of Integral Studies]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Roberson, J. (2014). *Effects of school-based music education on third grade students' math and reading aims scores* (Publication Number 3681291) [Ed.D., Northern Arizona University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Roberts, K. J. (2007). *Participation in musical theater as a vehicle for understanding of interdisciplinary work in the arts, improvement of self-concept, and music achievement among fifth-grade students* (Publication Number 3283491) [Ph.D., Northwestern University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Robinson, D. D. (2013). *The effect of using rap music lyrics to solve mathematical polynomial equations in a suburban small city* (Publication Number 3581626) [Ed.D., St. John's University (New York), School of Education and Human Services]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Robinson-Cseke, M. (2011). *Real multiplicities: Post-identity and the changing face of arts education* (Publication Number NR89216) [Ph.D., University of Alberta (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Robitaille, C. A. (2008). *Emotional intelligence and teachers: An exploratory study of differences between general and special education teachers* (Publication Number 3300400) [Ph.D., Union Institute and University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Rodetis, S. (2020). *The Effect of Four Specific Sound Types on the Word Recall of College Students* (Publication Number 27957187) [M.A.C.I., Caldwell University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Rodgers, L. M. (1999). *The effects and perceptions of early musical training on high school students* (Publication Number 9955929) [Ed.D., Pepperdine University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Rodriguez, A. M. (2020). *"I Am Doing This Just for You!": Musical parenting and parents' experiences in an early childhood music Class* (Publication Number 28256737) [Ph.D., Michigan State University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Rodriguez, X. I. (2022). *An exploration of how school leaders make decisions about music programs in suburban schools* (Publication Number 28863165) [Ed.D., St. John's University (New York)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Rogers, R. (2018). *Music for the mind: A study into musical preferences, personality traits and memory retention* (Publication Number 10957295) [M.Res., Western Sydney University (Australia)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Root, R. L. (2001). *Choral rehearsal memory techniques* (Publication Number 3014111) [D.M.A., University of Washington]. ProQuest Dissertations & Theses Global. Ann Arbor.

Root Wilson, K. A. (2009). *The effect of music education on early adolescents' adaptive skills, health -enhancing behaviors, and self -efficacy* (Publication Number 3372721) [Ph.D., University of Northern Colorado]. ProQuest Dissertations & Theses Global. Ann Arbor.

Rose, A. (2014). *The relationship between team emotional intelligence and team interpersonal process effectiveness* (Publication Number 3610700) [D.B.A., Capella University]. ProQuest Dissertations & Theses Global; ProQuest One Business. Ann Arbor.

Rosenthal, A., Jr. (2019). *The correlation between teacher emotional intelligence and academic performance of students with lower socioeconomic status* (Publication Number 13902706) [Ed.D.Ed.Lead., Union University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Ross, T. S. (2001). *Learning with hearts and hands and voices: Bringing Navajo wisdom to the college classroom for students with learning disabilities* (Publication Number 3012750) [Ph.D., The Union Institute]. ProQuest Dissertations & Theses Global. Ann Arbor.

Rossini, M. D. (2005). *An investigation of the psychosocial and behavior changes experienced by children participating in the Gallery 37 Connections art program* (Publication Number 3180961) [Ph.D., Loyola University Chicago]. ProQuest Dissertations & Theses Global. Ann Arbor.

Rothfork, A. (2015). *The effect of music on disruptive behavior in students with emotional/behavioral disorders* (Publication Number 3705458) [Ed.D., Northern Arizona University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Rovers, A. (2007). *Core French as a second language: A learning through the arts approach* (Publication Number MR35056) [M.Ed., University of Windsor (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Rowntree Black, L. (2012). *Relationship among demographic, academic, and curriculum characteristics, emphasizing arts education, and critical thinking in 12th grade high school students* (Publication Number 3515742) [Ph.D., Lynn University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Roy, S. R. (2013). *Leading with trait emotional intelligence in the higher education classroom: An exploratory study investigating trait emotional intelligence in higher education faculty members* (Publication Number 3563237) [D.E.Lead., University of Charleston - Beckley]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Rudman, R. M. (2016). *Instruction informed by social cognitive theory: Implementation with differently abled students* (Publication Number 10801146) [Ed.D., University of Southern California]. ProQuest Dissertations & Theses Global. Ann Arbor.

Rufino, V. J. (2002). *Mozart from "A" to "Z": An interdisciplinary study of Wolfgang Amadeus Mozart* (Publication Number 3064191) [D.Litt., Drew University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ruggeri, S. M. (2003). *Passionate devotion: A study of aesthetic learning among amateurs, in four movements* (Publication Number 3106317) [D.Ed., The Pennsylvania State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Ryan, T. E. (2014). *The effect of auditory integration training on the working memory of adults with different learning preferences* (Publication Number 3613829) [Psy.D., Capella University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Rydstrom, B. (2007). *Bridging neuroscience and education* (Publication Number EP75928) [M.S.E., Eastern Oregon University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Rees, E. M. (2014). *Development and evaluation of biomarkers in Huntington's Disease : furthering our understanding of the disease and preparing for clinical trials* University College London (University of London)].

Rezaei, A. (2021). *Forward and Inverse Modeling via Finite Elements in EEG/MEG Source Localization : Application to Event Related Responses* Tampere University].

Ruderfer, D. (2013). *Inferring schizophrenia biology from genome-wide data* Cardiff University].

Smith, D. (2015). *Methamphetamine and Post-traumatic Epileptogenesis: Investigating the Neuroprotective Effect of Methamphetamine on Post-traumatic Seizures Caused by Traumatic Brain Injury* Montana Tech].

Sutoo, D. E., & Akiyama, K. (2004). Music improves dopaminergic neurotransmission: demonstration based on the effect of music on blood pressure regulation. *Brain research*, *1016*(2), 255-262. https://doi.org/10.1016/j.brainres.2004.05.018

Swirsky-Sacchetti, T., Gilrain, K., Mandel, E., Tracy, J., & Mandel, S. (2005). Music and the brain. *Voice Science*, 13.

Szewczyk, A. K., Mitosek-Szewczyk, K., & Dworzańska, E. Where words are powerless to express: Use of music in paediatric neurology. *Journal of Pediatric Rehabilitation Medicine*, (Preprint), 1-16. https://doir.org/10.3233/PRM-200802

Särkämö, T., Tervaniemi, M., Laitinen, S., Forsblom, A., Soinila, S., Mikkonen, M., ... & Hietanen, M. (2008). Music listening enhances cognitive recovery and mood after middle cerebral artery stroke. *Brain*, *131*(3), 866-876. https://doi.org/10.1093/brain/awn013

Sabbatelli, T. November 18, 2004 Mr. Gregg Rogers Evaluation The Sound of Science.

Saleem, G. T., Ewen, J. B., Crasta, J. E., Slomine, B. S., Cantarero, G. L., & Suskauer, S. J. (2019). Single-arm, open-label, dose escalation phase I study to evaluate the safety and feasibility of transcranial direct current stimulation with electroencephalography biomarkers in paediatric disorders of consciousness: a study protocol. *BMJ open*, *9*(8), e029967.

Santucci, D. (2007). *Frontal Assessment Battery and cognitive functioning in Parkinson's disease and Parkinson-plus syndromes* (Doctoral dissertation, Adler School of Professional Psychology).

Scarborough, J. L. "The third edition of A Guide to Practicum and Internship for School Counselors-in-Training continues and expands its influence on the professional development of school counselors. As a distinct mental health-and education-focused

profession, school counseling requires unique expertise and training experiences. This guide aids not only those of us in counselor education programs, but also the professionals in the field who are mentoring our next generation of.

Schenkel, M. (2011). The Clavinova.

See, B. H., & Kokotsaki, D. (2016). Impact of arts education on children's learning and wider outcomes. *Review of Education*, *4*(3), 234-262. https://doi.org/10.1002/rev3.3070

Sekhar, J., & Passi, G. R. (2020). Wearing face masks do no harm. *Annals of the American Thoracic Society*.

Sergeant, E. S. G. (2001). Ovine Johne's disease in Australia-the first 20 years. *Australian veterinary journal*, *79*(7), 484-491. https://doi.org/10.1111/j.1751-0813.2001.tb13021.x

Shaw, G., Bodner, M., & Patera, J. (2003). Innate brain language and grammar: Implications for human language and music. *Stochastic Point Processes (eds Srinivasan SK and Vihayakumar A). Narosa Publishing, New Dehli*, 287-303.

Shi, W. (2018). Visualization of Abstract Audio-visual Information: An Analysis of Art Cognitive Activity Based on Electroencephalogram. *NeuroQuantology*, *16*(5). https://doi.org/10.14704/nq.2018.16.5.1362

Shreeve, J. (1996). Music of the hemispheres. Discover, 10, 90-100.

Simon, K. C., McDevitt, E. A., Ragano, R., & Mednick, S. C. (2022). Progressive muscle relaxation increases slow-wave sleep during a daytime nap. *Journal of Sleep Research*, e13574. https://doi.org/10.1111/jsr.13574

Soós, G., Csernák, J., Lakatos, L., Zsófi, Z., & Palotás, A. (2019). Cognitive disposition to wine consumption: how the brain is wired to select the perfect bottle with a novel musical twist. *Frontiers in Neuroscience*, *13*, 1157. https://doi.org/10.3389/fnins.2019.01157

Spivak, I. M., Smirnova, T. Y., Urazova, A. S., Runov, A. L., Vasilishina, A. A., Kropotov, A. V., & Spivak, D. L. (2018). Influence of music therapy on the telomere length: a brief review and a pilot study. *Biologija*, *64*(4). https://doi.org/10.6001/biologija.v64i4.3902

Staricoff, R. L. (2004). Arts in health: a review of the medical literature.

Strýček, Lamoš, M., Klimeš, P., & Rektor, I. (2020). Cognitive task-related functional connectivity alterations in temporal lobe epilepsy. *Epilepsy & Behavior*, *112*, 107409–107409. https://doi.org/10.1016/j.yebeh.2020.107409

STUDENȚILOR, A. and R. Ș. T. CERCETĂTORI "CULEGERE."

S, V. K. R. (2018). *A comparative study of effect of music with lyrics and music without lyrics on concentrating ability of students* (Publication Number 28507812) [M.D., Dr. NTR University of Health Sciences (India)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Sağlam, E. B. (2010). *The effects of music on english language learners' speaking fluency and on their motivation* (Publication Number 29046100) [M.A., Bilkent Universitesi (Turkey)]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Samahito, C. (2001). *"Success for Life" in Thailand: Educational and cultural implementation* (Publication Number 3065599) [Ed.D., University of North Texas]. ProQuest Dissertations & Theses Global. Ann Arbor.

Santone, T. (2018). *The effects of formal instrumental music lessons on the New Jersey Grade 8 PARCC Assessment* (Publication Number 13423730) [Ed.D., Wilmington University (Delaware)]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Sanyal, T. (2013). *Effect of prenatal chronic noise exposure on chick brainstem auditory nuclei and hippocampus* (Publication Number 11008393) [Ph.D., All India Institute of Medical Sciences, New Delhi (India)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Saulson, E. M. (1999). *The experience of inner peace in relation to past-, present-, and future-centered orientations* (Publication Number 1397104) [M.S.W., California State University, Long Beach]. ProQuest Dissertations & Theses Global. Ann Arbor.

Sauve, M.-L. (2004). *The therapeutic effects of vocal improvisation* (Publication Number MQ98998) [M.A., Carleton University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Scavella, A. J. N. (2018). *The relationship between district concert band music performance assessment participation and student achievement in Miami-Dade County public middle schools* (Publication Number 10976887) [Ed.D., Florida International University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Schiavone, V. (2018). *The impacts of social-emotional competence and other student, parent, and school influences on Kindergarten achievement* (Publication Number 13819501) [Ph.D., Kent State University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Schneider, C. E. (2018). *Music training as a neuro-cognitive protector for brain aging: Cognitive and neuropsychological profiles in professional musicians* (Publication Number 10954443) [Ph.D., University of Kentucky]. Biological Science Collection; ProQuest Dissertations & Theses Global. Ann Arbor.

Schultz, K. A. (2011). *Reciprocal cognitive transfer between high school students' artistic interpretation skills and their reading interpretation skills* (Publication Number 3434190) [Ed.D., Walden University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Schwartz, H. M. (2017). *An exploratory mixed-methods examination of empathy and multiple intelligences among youth involved in bullying* (Publication Number 10606130) [Ph.D., The University of Nebraska - Lincoln]. ProQuest Dissertations & Theses Global. Ann Arbor.

Scimonelli, P. K. (2003). *A history of the Benjamin T. Rome School of Music of the Catholic University of America, 1950–2002* (Publication Number 3084445) [D.M.A., The Catholic University of America]. ProQuest Dissertations & Theses Global. Ann Arbor.

Scott, G. J. (1999). *Spiritual moments with precious people: A look at music and transformation in a long -term care center* (Publication Number 9950742) [Ph.D., The Fielding Institute]. ProQuest Dissertations & Theses Global. Ann Arbor.

Sears, E. I. C. (2001). *The public construction of democracy in education: Civic identity and discourse in school board meetings* (Publication Number 3009634) [Ph.D., The University of Iowa]. ProQuest Dissertations & Theses Global. Ann Arbor.

Sechrist, M. F. (2016). *Setting the stage for emotional and academic success: The relationship between theater arts extracurricular activities and students, a mixed methods perspective of theater arts extracurricular activities in secondary and post-secondary schools* (Publication Number 10172589) [Ph.D., Robert Morris University]. ProQuest Dissertations & Theses Global; ProQuest One Literature; Social Science Premium Collection. Ann Arbor.

Semos, D. M. (2013). *Music as a mechanism for motivation* (Publication Number 3568320) [Ed.D., Walden University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Senske, J. J. (2008). *The potential for music to elicit and facilitate autobiographical memory* (Publication Number 3338116) [Psy.D., Argosy University/Seattle]. ProQuest Dissertations & Theses Global. Ann Arbor.

Serifsoy, I. (2012). *The leader's muse: An exploration of how artistic sensibilities inform organizational leadership* (Publication Number 3509462) [Ph.D., Saybrook University]. ProQuest Dissertations & Theses Global; ProQuest One Business. Ann Arbor.

Seymour, D. J. (2020). *"Even if the research says it doesn't work, it works:" Teachers' epistemic beliefs and enactment* (Publication Number 27828455) [Ph.D., Mississippi State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Seymour, K. (2018). *The Buddha's voice: Ritual sound and sensory experience in medieval chinese religious practice* (Publication Number 10829309) [Ph.D., University of Pennsylvania]. ProQuest Dissertations & Theses Global. Ann Arbor.

Shaffer, C. L. (2011). *The efficacy of multiple intelligences (MI) as an instructional planning tool in an elementary education environment* (Publication Number 3440253) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Shaked, V. (2013). *The meaning of music-making for computer scientists with a serious music-making avocation: A phenomenological case study* (Publication Number 3554739) [Ph.D., Lesley University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Shakhshir, P. S. (2008). *The lived experience of Latinas who listen to music for chronic pain* (Publication Number 3362618) [Ph.D., Azusa Pacific University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Sharpe, S. M. (2020). *Being a primary school special educational needs co-ordinator: Perceptions and experiences* (Publication Number 28224913) [Ph.D., Sheffield Hallam University (United Kingdom)]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Shaw, C. R. (2018). *An assessment tool for participant groupings for human neuroimaging research: Measuring musical training* (Publication Number 10751803) [Ph.D., The University of North Carolina at Greensboro]. Biological Science Collection; ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Shenasi, S. Y. (2015). *The roots of music therapy: Healing the wounds of the Psyche* (Publication Number 1692137) [M.A., Pacifica Graduate Institute]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Shivharrao, P. K. (2013). *Psychology and performance: an analytical study with special reference to sportspersons in s. r. t. m. university, nanded* (Publication Number

13848498) [Ph.D., Swami Ramanand Teerth Marathwada University (India)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Sholl, M. E. (2016). *Maintaining administrative support for public school fine arts programs in an era of high stakestTesting and accountability* (Publication Number 10294682) [Ph.D., The Ohio State University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Sim, S. M. (2002). *Music as art or music for living? Disrupting the dominant discourse that marginalizes music in education* (Publication Number NQ68147) [Ph.D., University of Victoria (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Simms, D. M. (2002). *The use of music to reduce anxiety in first year and veteran teacher* (Publication Number EP12185) [M.A., Kean University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Simon, S. J. (2005). *A multi -dimensional entropy model of jazz improvisation for music information retrieval* (Publication Number 3206107) [Ph.D., University of North Texas]. ProQuest Dissertations & Theses Global. Ann Arbor.

Singh, A. (2003). *Efficacy of adjuvant music therapy in major depressive episode* (Publication Number 10170249) [C.P., Central Institute of Psychiatry (India)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Sitaram, S. (2012). *Effectiveness of group musical activity of cognitive flexibility and working memory in schizophrenia* (Publication Number 10170262) [P.S.W., Central Institute of Psychiatry (India)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Sittler, R. L. (2015). *The effects of audio and gender within a 3D gaming environment on the achievement of different educational objectives* (Publication Number 3689991) [Ph.D., Indiana University of Pennsylvania]. ProQuest Dissertations & Theses Global. Ann Arbor.

Slaten, A. (2020). *Role of emotional intelligence (EI) in leader perceptions of leadership style and practices according to multifactor leadership* (Publication Number 27543749) [Ph.D., The Chicago School of Professional Psychology]. ProQuest Dissertations & Theses Global. Ann Arbor.

Smallidge, D. L. (2017). *An investigation of the relationship between dental hygiene instructors' emotional intelligence and clinical teaching effectiveness* (Publication Number 10934217) [Ed.D., Plymouth State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Smartt, M. J. (2014). *The relationship of spiritual intelligence to achievement of secondary students* (Publication Number 3617537) [Ed.D., Liberty University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Smith, J. G. (2004). *The luminas™ mind -body -spirit program: A clinical model of spiritual care for cancer patients* (Publication Number 3144030) [Ph.D., Union Institute and University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Smith, J. S. (2016). *Perceptions and beliefs of selected music education research studies* (Publication Number 10191475) [D.M.A., Boston University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Smith, K. A. (2010). *Impact of animal assisted therapy reading instruction on reading performance of homeschooled students* (Publication Number 3430235) [Ed.D., Northcentral University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database; Social Science Premium Collection. Ann Arbor.

Smith, M. E. (2004). *A mixed paradigm: Study of a transformational learning program for at-risk high school students* (Publication Number 3152489) [Ph.D., Texas A&M University - Corpus Christi]. ProQuest Dissertations & Theses Global. Ann Arbor.

Smith, O. A. (2015). *The combined influence of music function and preference on cognitive attention: A cross cultural comparison* (Publication Number 10296860) [M.Sc., University of Glasgow (United Kingdom)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Smith, S. K. (2005). *Arts in education and organizational culture: The impact of the arts on the culture of a school* (Publication Number 3196894) [Ed.D., University of Southern California]. ProQuest Dissertations & Theses Global. Ann Arbor.

Solomonson, G. T. (2011). *Segue: Entering into a legacy* (Publication Number 3479352) [Ph.D., University of Illinois at Urbana-Champaign]. ProQuest Dissertations & Theses Global. Ann Arbor.

Somers, L. E. (2000). *The effects of rhythm, music, song, and chant in the Korean English language classroom* (Publication Number 9970501) [Ph.D., The Union Institute]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Soufineyestani, M. (2020). *Physiological and psychological effects of listening to nursery rhymes* (Publication Number 28260009) [M.S., University of Minnesota]. ProQuest Dissertations & Theses Global. Ann Arbor.

Sousa, F. J. B. (2019). *The effects of preference and familiarity of background music on word encoding* (Publication Number 29150532) [M.Sc., Universidade do Porto (Portugal)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Speer, S. (2011). *The effect of background music, speech and silence on office workers' selective attention* (Publication Number 1508417) [M.M., The Florida State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Spencer-Chapman, B. J. (2008). *An examination of changes in teachers' attitudes, teaching practice, and perceptions toward student achievement as a result of professional development in arts integration* (Publication Number 3305912) [Ph.D., George Mason University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Stanutz, S. (2010). *Pitch discrimination and melodic memory in children with autism* (Publication Number NR66536) [Ph.D., McGill University (Canada)]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Stark, D. L. (2004). *A comparison of multiple intelligence profiles in college singers and non -singers with implications for teachers of singing* (Publication Number 3127103) [D.A., Ball State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Stawowczyk, T. (2018). *The relationship between emotional intelligence, trust, and organizational commitment in call centers* (Publication Number 10830929) [Ph.D., Grand Canyon University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Stearns, T. M. (2015). *Impact of music instruction of second-language phonological perception and production* (Publication Number 1592070) [M.A., Southern Illinois University at Edwardsville]. ProQuest Dissertations & Theses Global; ProQuest One Literature; Publicly Available Content Database; Social Science Premium Collection. Ann Arbor.

Steckel, A. (2005). *Background music in high school French I and French II classrooms* (Publication Number 1431033) [M.S., University of Houston-Clear Lake]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Steelman, D. A. K. (2002). *The extra mile club project: Developing effective christian outreach to fifth and sixth grade children* (Publication Number 3047935) [D.Min., Drew University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Stevenson, D. A. (2007). *The impact of the national standards for music education on the perception and pedagogy of the discipline: A philosophical inquiry* (Publication Number 3240641) [D.M.A., Boston University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Stewart, J. M. (2013). *The effects of music on the cognitive processes of adults with mild cognitive impairment in the evening, the time of day they typically experience more difficulty* (Publication Number 1541832) [M.S., The William Paterson University of New Jersey]. ProQuest Dissertations & Theses Global. Ann Arbor.

Stewart, L. M. (2003). *Neurocognitive studies of music reading* (Publication Number U641985) [Ph.D., University of London, University College London (United Kingdom)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Su, D. C.-C. (2017). *Myths or facts about preschool and kindergarten male teachers: Perceptions from Chinese and Taiwanese parents* (Publication Number 10259679) [M.Ed., Azusa Pacific University]. ProQuest Dissertations & Theses Global. Ann Arbor

Suarez, N. H. (2004). *The effect of a memory intervention on short -term memory with children diagnosed with mild neurological deficits* (Publication Number 3138621) [Ph.D., University of South Florida]. ProQuest Dissertations & Theses Global. Ann Arbor.

Sullivan, K. N. (2006). *The responses of preschool children to early childhood music instruction containing texted and non-texted songs and chants* (Publication Number 1434373) [M.M., Michigan State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Summers, E. S. (2018). *The effects of parental involvement and computer-based music technology on developing independent musicianship* (Publication Number 13812266) [Ed.D., Concordia University Irvine]. ProQuest Dissertations & Theses Global; Publicly Available Content Database; Social Science Premium Collection. Ann Arbor.

Summers, S. G. (1999). *A tapestry of voices: Community building with a geriatric choir reflected in a music therapy model of practise* (Publication Number MQ57917) [M.A., British Columbia Open University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Svenningsen, S. R. (2009). *Multiple Intelligence curriculum in the physical education setting* (Publication Number 1466692) [M.S., Southwest Minnesota State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Swarlis, L. L. (2008). *Enhancement of spatial ability in girls in a single -sex environment through spatial experience and the impact on information seeking* (Publication Number 3376054) [Ph.D., University of North Texas]. ProQuest Dissertations & Theses Global. Ann Arbor.

Swickard, R. A. (2008). *The use of music with preaching: Toward a new homiletic* (Publication Number 3305922) [D.Min., University of Dubuque Theological Seminary]. ProQuest Dissertations & Theses Global. Ann Arbor.

Switzer, S. C. (2003). *Home environment factors influencing literacy development: A group of Brazilian immigrant Head Start children* (Publication Number 3117011) [Ph.D., Lesley University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Szabo, M. E. (2001). *For the love of music: Avenues of entry into the world of Western art music* (Publication Number 3014034) [Ph.D., University of Washington]. ProQuest Dissertations & Theses Global. Ann Arbor.

Šálková, M. (2019). *Výživa a mozková neurodegenerativní onemocnění: Nutrition and cerebral neurodegenerative diseases* Brno University of Technology].

Sauerbeck, A. D. (2011). *TRICHLOROETHYLENE EXPOSURE AND TRAUMATIC BRAIN INJURY INTERACT AND PRODUCE DUAL INJURY BASED PATHOLOGY AND PIOGLITAZONE CAN ATTENUATE DEFICITS FOLLOWING TRAUMATIC BRAIN INJURY* University of Kentucky]

Schwanzer, M. (2019). *Studium vlivu akustických podnětů na člověka: Study of the influence of acoustic stimuli on man* Brno University of Technology].

Simpson, F. (2015). *The effect of in vitro derived microglia transplantation on astrocyte population in Alzheimer's disease* Loughborough University].

Smith, M. A. (2014). *The dynamics of the hydroxymethylome and methylome during the progression of Alzheimer's disease* Boston University].

Sodero, A. O., Rodriguez-Silva, M., Salio, C., & Sassoè-Pognetto, M. (2017). *Sab is differentially expressed in the brain and affects neuronal activity* Universidad Católica Argentina].

Song, Y. (2016). *Molecular Pathways Leading to Development of Epilepsy After Brain Injury and Advanced Optical Methods for Epilepsy Study* Lehigh University].

Spears, W. E. (2014). *Model Hirano bodies differentially modulate cell death induced by tau and the amyloid precursor protein intracellular domain* University of Georgia].

Svensson, M. (2020). *Physical exercise as a preventive strategy for disorders affecting the brain. The effect on neuroinflammation* University of Lund].

Thompson, B. M., & Andrews, S. R. (2000). An historical commentary on the physiological effects of music: Tomatis, Mozart and neuropsychology. *Integrative physiological and behavioral science*, *35*(3), 174-188. https://doi.org/10.1007/BF02688778

Tramo, M. J. (2001). Music of the hemispheres. *Science*. https://doir.org/10.1126/science.10.1126/SCIENCE.1056899

Trappe, H. J. (2014). Johann Sebastian Bach: Leben, Werke und seine Bedeutung für die Kardiologie. *DMW-Deutsche Medizinische Wochenschrift*, *139*(51/52), 2619-2625.

Trappe, H. J. (2017). Musik und Herz. *Der Kardiologe*, *11*(6), 486-496.

Tuganbekova, C. M., Kudarinova, A. S., & Sagynbekova, S. B. (2018). Correction of anxiety in children with special needs with the help of kinesiotherapy. *Education & Science Without Borders*, *9*(18).

Tackett-Newburg, K. (2018). *A correlational study of fortune 500 leader emotional intelligence and millennial-subordinate job engagement and turnover intentions* (Publication Number 10837708) [Ph.D., The Chicago School of Professional Psychology]. ProQuest Dissertations & Theses Global. Ann Arbor.

Taetle, L. D. (1999). *The effect of active and passive music instruction on the spatial ability of kindergarten children* (Publication Number 9927519) [Ph.D., The University of Arizona]. ProQuest Dissertations & Theses Global. Ann Arbor.

Tai, S. K., & Kuo, Y. J. (2019, October). Alterations in brainwaves caused by different Music Genres. In *2019 IEEE 10th International Conference on Awareness Science and Technology (iCAST)* (pp. 1-4). IEEE. https://doi.org/10.1109/ICAwST.2019.8923257

Tashiro, L. N. S. (2021). *Der Einfluss auditorischer Stimulation auf die Häufigkeit fokaler Spikes im Schlaf-EEG von Kindern mit Rolando-Epilepsie* (Doctoral dissertation, Eberhard Karls Universität Tübingen).

Tai, T.-C. (2010). *The effect of violin, keyboard, and singing instruction on the spatial ability and music aptitude of young children* (Publication Number 3426409) [Ph.D., University of Maryland, College Park]. ProQuest Dissertations & Theses Global; Publicly Available Content Database; Social Science Premium Collection. Ann Arbor.

Talada, M. (2015). *Setting the right tone: Benefits of music-based instruction in the ESL classroom* (Publication Number 1588149) [M.A., West Virginia University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Tankard, M. W. (2000). *The effects of instructional context (rhythmic movement instructional context and nonrhythmic movement instructional context) on spelling performance among African American elementary school children* (Publication Number 9981783) [Ph.D., Howard University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Tate, K. D. (2007). *Artward bound: The lived experience of creativity* (Publication Number 3261816) [Ed.D., University of Southern California]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Taylor, A. (2017). *The psychology of business exits: Measuring entrepreneurial role-identity fusion* (Publication Number 10637313) [Ph.D., The Chicago School of Professional Psychology]. ProQuest Dissertations & Theses Global; ProQuest One Business. Ann Arbor.

Taylor, C. (2020). *In search of a relationship between dance training and spatial reasoning* (Publication Number 27964440) [M.A., Northern Arizona University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Tendall, R. A. (2009). *The effects of singing and movement in a K–1 Reading First program* (Publication Number 3383174) [Ph.D., The University of Iowa]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Terrell, G. D. (2001). *How has having a learning disability affected your work experience* (Publication Number 9992719) [Ph.D., The Union Institute]. ProQuest Dissertations & Theses Global. Ann Arbor.

Thiam, P. B. (2006). *Effects of school band experience on the motivation of high school students* (Publication Number 3220606) [Ed.D., University of San Francisco]. ProQuest Dissertations & Theses Global. Ann Arbor.

Thiermann, A. (2011). *Rising into song: Voicework in psychotherapy* (Publication Number 1492814) [M.A., Pacifica Graduate Institute]. ProQuest Dissertations & Theses Global. Ann Arbor.

Thomas, D. L. (2014). *Teachers' perspectives about infusing music into language arts instruction* (Publication Number 3669693) [Ed.D., Walden University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Thomas, T. D. (2011). *The impact of musical performing arts on the academic achievement of black males* (Publication Number 3461727) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Thompson, B. T. (2010). *The rage to master: Case studies of early Learning Experiences of Highly Gifted and Prodigious Young musicians* (Publication Number 3436230) [Ed.D., Teachers College, Columbia University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Thram, D. J. (1999). *Performance as ritual - performance as art: Therapeutic efficacy of Dandanda song and dance in Zimbabwe* (Publication Number 9932713) [Ph.D., Indiana University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Thrasher, L. D. (2020). *Examining emotional intelligence in principals* (Publication Number 27996793) [Ed.D., Ball State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Tibke, J. (2019). *The case of teachers and neuroscience: How do teachers mediate information about the brain?* (Publication Number 28277661) [Ph.D., Lancaster University (United Kingdom)]. Biological Science Collection; ProQuest Dissertations & Theses Global. Ann Arbor.

Tilton, W. (2011). *Adult professional development: Can brain-based teaching strategies increase learning effectiveness?* (Publication Number 3464876) [Ed.D., Fielding Graduate University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Todd, M. R. S. (2005). *The interface of the percussive arts, religious experience, and sacred association* (Publication Number MR15224) [M.A., Trinity Western University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Tokuhama-Espinosa, T. N. (2008). *The scientifically substantiated art of teaching: A study in the development of standards in the new academic field of neuroeducation (mind, brain, and education science)* (Publication Number 3310716) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database; Social Science Premium Collection. Ann Arbor.

Tolwinski, K. E. (2017). *Under the skin and into the social: Examining the neuroscience of social problems and inequality* (Publication Number 10682281) [Ph.D., Cornell University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Tom, D. M. (2012). *Impact on achievement with ST math after school instruction* (Publication Number 3530680) [Ed.D., California State University, Long Beach]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Tomlinson, S. E. (2020). *Representing classical music to children and young people in the United States: Critical histories and new approaches* (Publication Number 27837361) [Ph.D., The University of North Carolina at Chapel Hill]. ProQuest Dissertations & Theses Global. Ann Arbor.

Tonkovich, J. M. K. (2002). *Teachers' perceptions of instructional leadership characteristics of principals in schools with quality music programs* (Publication Number 3054208)

[Ed.D., Montana State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Tooch, T. (2020). *Second, third, and fourth grade teachers' perceptions and use of arts integration strategies* (Publication Number 27833496) [Ph.D., Robert Morris University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Toohey, M. J. (2012). *Effects of Peaceful and Angry Music, and Music Enjoyment, on Angry Thoughts and Feelings* (Publication Number 3508865) [Ph.D., Hofstra University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Topaç, N. (2008). *Okulöncesi öğretmenlerinin ve okul öncesi dönem cocuklarının ebeveynlerinin müzik eğitimi hakkındaki düşüncelerinin incelenmesi* (Publication Number 28534573) [Master's, Marmara Universitesi (Turkey)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Topaç, N. (2022). *ŞArkı ağırlıklı değerler eğitimi programının (ŞAdep) 5-6 yaş çOcuklarının sosyal becerilerine etkisi* (Publication Number 29155761) [Ph.D., Bursa Uludag University (Turkey)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Trapp, C. S. (2010). *The association among emotional intelligence, resilience, and academic performance of preservice teachers* (Publication Number 3425727) [Ed.D., University of Phoenix]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Trimmer, C. G. (2006). *Decoding speech prosody: Do musicians have heightened sensitivity to emotion in speech?* (Publication Number MR18829) [M.A., Queen's University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Trocco, F. (2000). *Worthless knowledge: Science at the fringes of credibility* (Publication Number 9958875) [Ph.D., The Union Institute]. ProQuest Dissertations & Theses Global. Ann Arbor.

Tupper, C. Y. (2003). *Expressive arts-based learning for leadership development in complex, emergent environments* (Publication Number MQ79190) [M.A., Royal Roads University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Twaite, J. T. (2016). *Examining relationships between basic emotion perception and musical training in the prosodic, facial, and lexical channels of communication and in music* (Publication Number 10146591) [Ph.D., City University of New York]. Biological Science Collection; ProQuest Dissertations & Theses Global. Ann Arbor.

Tan, M. S. H. (2019). *Investigating Aβ toxicity and binding to neurons from differentiated human stem cells* University of Melbourne].

Teoh, S. L. (2017). *Neuroprotective effect of metallothionein* Monash University].

Torab Parhiz, S. (2021). *Effect of Levodopa on EEG Connectivity in Parkinson's Patients* University of Western Ontario].

Trabzuni, D. (2013). *The role of genetic variations on gene expression and splicing in control human brain : dissection of the aetiology of complex neurological diseases* University College London (University of London)].

Traini, E. (2015). *Cholinergic enhancing strategies and brain neuroplasticity. From preclinical evidence to clinical applications* Università degli Studi di Catania].

Tripoliti, E. (2011). *Effects of deep brain stimulation on speech in patients with Parkinson's disease and dystonia* University College London (University of London)].

Trivedi, S. (2018). *Topoisomerase I is required for the expression of long genes in glial cells and is dysregulated in ASD brain* University of New South Wales].

Urakami, Y., Kawamura, K., Washizawa, Y., & Cichocki, A. (2013). Electroencephalographic gamma-band activity and music perception in musicians and non-musicians. *Activitas Nervosa Superior Rediviva*, *55*(4), 149-157.

Uzun, G. (2018). LİSE ÖĞRENCİLERİNİN RUHSAL GELİŞİMİ VE ERGENLİĞE BAĞLI NEGATİF ETKİLERİN GİDERİLMESİNDE MÜZİĞİN ROLÜ

Underwood, E. B. (2000). *An analysis of the achievement patterns of high school students who participate in instrumental music and those who do not participate in instrumental music* (Publication Number 9971212) [Ph.D., University of Illinois at Urbana-Champaign]. ProQuest Dissertations & Theses Global. Ann Arbor.

Underwood, R. J. (2021). *An Empirical Study of the R-Factor and Its impact on social and emotional learning, school climate, and student discipline* (Publication Number 28730768) [Ed.D., The University of Findlay]. ProQuest Dissertations & Theses Global. Ann Arbor.

Uyeda, K. A. (2020). *Tutti: Music and physical activity curriculum for older adults* (Publication Number 28002896) [M.S., California State University, Long Beach]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

University of Lethbridge. Faculty of, A., & Science. (2013). *Transgenerational programming of brain and behaviour by prenatal stress* University of Lethbridge].

Vaidya, S., Devaliya, R., & MohanSahu, C. (2011). Treatment for various diseases by new therapies: A review. *International Journal of Pharmacy & Life Sciences*, *2*(9).

Venkatesan, S. Assistive Technology and Neurodevelopmental Disorders: An Indian Perspective. In *Enabling Technology for Neurodevelopmental Disorders* (pp. 1-16). Routledge.

Vertongen, J., & Kamper, D. Posts Tagged rebotics.

Violence, D., & Care, R. E. The Sixteen Laws of Emotions: Recognizing Moods and Emotions to Return to Healthy Feeling Processing.

Van Bergen, N. T. (2017). *Contextual effects on perceived and actual product efficacy* (Publication Number 10268424) [Ph.D., University of Miami]. ProQuest Dissertations & Theses Global. Ann Arbor.

Van der Vossen, M. R. (2012). *Mathematics achievement among secondary students in relation to enrollment/nonenrollment in music programs of differing content or quality* (Publication Number 3518841) [Ph.D., Notre Dame of Maryland University]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Varnell, M. (2013). *The effect of tonality and rhythm on memory recall in elementary general education classrooms: A quasi-experimental study* (Publication Number 3596814) [Ph.D., The University of Texas at Arlington]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Vásquez Rosati, A. (2018). *Estudio de la interacción de estados emocionales, corporales y la flexibilidad cognitiva : Aproximaciones en primera y tercera persona* (Publication Number 28182680) [Ph.D., Pontificia Universidad Catolica de Chile (Chile)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Vass, M. G. (2010). *The effect of brain based instruction on student achievement in algebra I* (Publication Number 3578581) [Ed.D., University of Phoenix]. ProQuest Dissertations & Theses Global. Ann Arbor.

Vaughn, S. L. (2010). *Kirtan as a spiritual practice in addiction recovery: A phenomenological study* (Publication Number 1474240) [M.T.P., Institute of Transpersonal Psychology]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Venecia, G. (2013). *Individuation, music, and memory: A connection with songs of the top 40* (Publication Number 1522960) [M.A., Pacifica Graduate Institute]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Ventura, J. A. (2018). *Predicting working memory and fluid intelligence from measures of musicality* (Publication Number 29115366) [M.A., Louisiana State University and

Agricultural & Mechanical College]. ProQuest Dissertations & Theses Global. Ann Arbor.

Vernon, P. R. (2014). *State of the arts: Factors influencing ontario elementary teachers' performing arts instruction* (Publication Number 10156821) [M.E., Queen's University (Canada)]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Versace, A. (2013). *The evolution of Sacred Jazz as reflected in the music of Mary Lou Williams, Duke Ellington, John Coltrane and recognized contemporary Sacred Jazz artists* (Publication Number 3564059) [D.M.A., University of Miami]. ProQuest Dissertations & Theses Global. Ann Arbor.

Viebrock, A. J. L. (2009). *Effects of grade level, gender, and music class enrollment on elementary and secondary students' self-reported preference for video presentations of selected opera excerpts* (Publication Number 1470910) [M.M.E., University of Missouri - Kansas City]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Villanueva, K. N. (2013). *Invoking the blessings of the Tibetan Buddhist Goddess Tara through chanting her mantra to overcome fear* (Publication Number 3606937) [Ph.D., California Institute of Integral Studies]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Villegas, F. (2015). *Mind, Brain and Education in the Digital Era: Applications for Online Learning* (Publication Number 1602063) [M.A., Royal Roads University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Vinay, C. (2016). *Quantitative eeg correlates of the effect of music on cognitive interference* (Publication Number 11008519) [M.D., All India Institute of Medical Sciences, New Delhi (India)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Viriyangkura, Y. (2014). *Understanding the support needs of people with intellectual and related developmental disabilities through cluster analysis and factor analysis of statewide data* (Publication Number 3623477) [Ed.D., Illinois State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Virk, N. (2012). *Sexual intelligence: Development and validation of a construct* (Publication Number 3532677) [Ph.D., Widener University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Verduzco-Flores, S., Ermentrout, B., & Bodner, M. (2009). From working memory to epilepsy: Dynamics of facilitation and inhibition in a cortical network. *Chaos: An*

Interdisciplinary Journal of Nonlinear Science, *19*(1), 015115. https://doi.org/10.1063/1.3080663

van Esch, R. J., Shi, S., Bernas, A., Zinger, S., Aldenkamp, A. P., & Van den Hof, P. M. (2020). A Bayesian method for inference of effective connectivity in brain networks for detecting the Mozart effect. *Computers in Biology and Medicine*, *127*, 104055. https://doi.org/10.1016/j.compbiomed.2020.104055

Vivadelli, J. M. (2013). *Social-Emotional Learning: The interplay between responsive classroom, girls' circle, and academic performance in one small urban school district* (Publication Number 3558984) [Ed.D., Wilmington University (Delaware)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Vogel, D. J. (2011). *"To put beauty into the world": The musical content of "The Ladies' Home Journal", 1890–1919* (Publication Number 3463246) [D.M.A., Boston University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Veld, R. W. i. t. (2012). *Modulation of brain activity by electrical stimulation and external cues to treat Parkinson's disease symptoms* Universiteit Utrecht].

Vendel, E. (2019). *Prediction of spatial-temporal brain drug distribution with a novel mathematical model* Leiden University].

Vera Rojas, J. V. (2014). *Exploring microglial activation in treated HIV-infected individuals* Imperial College London].

vonWurmb, E. C. (2013). *A study of the associations between conditions of performance and characteristics of performers and New York State solo performance ratings* (Publication Number 3568300) [Ph.D., State University of New York at Albany]. ProQuest Dissertations & Theses Global; Publicly Available Content Database; Social Science Premium Collection. Ann Arbor.

White 8 and Grzegorz Bulaj 2* 3, Adam K. Kochanski 4." Mechanisms and New Targets for the Treatment of Chronic Pain.

White, K. D. (2004). *BA, Trinity Western University, 1990*(Doctoral dissertation, ROYAL ROADS UNIVERSITY).

Wiebe, K., & Beckstrom, M. The final copy of my research paper: how music affects people.

Wiebe, K., & Beckstrom, M. Monthly Archives: April 2014.

Wake, B. E. (2000). *Education in the information age: Why computers should be a cautious addition to teachers' tool kits* (Publication Number MQ57765) [M.J., Carleton University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Walker, J. (2022). *New Jersey Public School Teachers' Perceptions of SEL Programming* (Publication Number 29213518) [Ed.D.Ed.Lead., Centenary University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Walker, R. I. (2020). *Work satisfaction through person-environment fit: Integrating ability, personality, and interest* (Publication Number 28261369) [Ph.D., Michigan State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Wallace, M. (2010). *The influence of acoustic background on visual stroop task performance* (Publication Number MR69639) [M.A., University of Manitoba (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Walton, C. W. (2015). *Performing arts education and the academic identity development of African American male high school students* (Publication Number 3744316) [Ph.D., The University of North Carolina at Charlotte]. ProQuest Dissertations & Theses Global. Ann Arbor.

Warrenburg, L. A. (2019). *Subtle semblances of sorrow: Exploring music, emotional theory, and methodology* (Publication Number 27929865) [Ph.D., The Ohio State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Watson, K. J. (2018). *You can't teach what you don't know and you can't lead where you won't go: Professional development as artists for* (Publication Number 28108044) [M.A., Brigham Young University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Weaver, A. J. (2015). *The influence of musical training and maturation on pitch perception and memory* (Publication Number 13917394) [Ph.D., Ohio University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Webb, K. W. (2009). *Does change in timbre alter stereotypy movements exhibited by three persons with diagnoses of mental retardation and autism spectrum disorder: Three case studies* (Publication Number 3383765) [Ph.D., The University of Southern Mississippi]. ProQuest Dissertations & Theses Global. Ann Arbor.

Wei, E.-C. (2010). *A guide for prospective piano studio teachers* (Publication Number 3406038) [D.M.A., University of Washington]. ProQuest Dissertations & Theses Global; ProQuest One Literature; Publicly Available Content Database. Ann Arbor.

Weine, L. J. (2017). *Age-related differences between knowledge, beliefs, and metacognitive skills* (Publication Number 10603407) [Ph.D., Fordham University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Wells, J. M. H. (2011). *Millennials strike back: Students' reports of knowledge transfer from high school to college* (Publication Number 3466593) [Ph.D., Indiana University of Pennsylvania]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Wernet, L. F. (2002). *Transcending discourse stereotypes: Audience sense -making of elite and mass culture* (Publication Number 3039542) [Ph.D., The Ohio State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Wheeler, A. M. (2022). *An investigation of case-based instruction with feedback in a research methods module* (Publication Number 29165508) [Ph.D., University of South Alabama]. ProQuest Dissertations & Theses Global. Ann Arbor.

Wheeler, E. R. (2015). *What are faculty perceptions of using emotional intelligence in pedagogy and andragogy?* (Publication Number 3743560) [Ed.D., West Virginia University]. ProQuest Dissertations & Theses Global. Ann Arbor.

White, K. D. (2004). *Multiple intelligences and student perception of online learning success* (Publication Number MQ93826) [M.A., Royal Roads University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

White, P. A. (2012). *Thinking-in-music-with-music: Students' musical understanding and learning in two interactive online music general education courses* (Publication Number 3576694) [Ph.D., Oakland University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Wiggins, B. E. (2011). *The impact of cultural dimensions and the coherence principle of multimedia instruction on the achievement of educational objectives within an online learning environment* (Publication Number 3460541) [Ph.D., Indiana University of Pennsylvania]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Williamson, M. A. (2008). *Deconstructing visual-spatial cognition in typically developing children* (Publication Number MR53711) [M.A., McGill University (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Willie, M. L. (2002). *Using culture and personal attributes to enhance learning among low -performing early adolescents in St. Croix, United States Virgin Islands* (Publication Number 3069752) [Ph.D., Union Institute and University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Willingham, T. L. (2001). *A community of voices: A qualitative study of the effects of being a member of the Bell'Arte Singers* (Publication Number NQ63635) [Ph.D., University of Toronto (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Winborne, S. L. (2006). *Examining military credentialing knowledge for the civilian workforce: Using rhythmic language and jazz* (Publication Number 3230016) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Wind, K. M. (2001). *Brain-based learning for preschoolers* (Publication Number EP77108) [M.P.A., University of Michigan-Flint]. ProQuest Dissertations & Theses Global. Ann Arbor.

Winston, S. D. (2007). *A descriptive study of an intergenerational beginning instrumental music instruction program for elementary school girls and well elderly adults* (Publication Number 3292929) [D.M.A., Shenandoah University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Wolven, M. R. (2003). *Thrown overboard: A heuristic journey of an alternative school and its principal* (Publication Number 3084691) [Ed.D., Arizona State University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Woodruff, J. (2014). *A musical analysis of the people's microphone: Voices and echoes in protest and sound art and occupation 1 for string quartet* (Publication Number 3582734) [Ph.D., University of Pittsburgh]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Worts, F. P. (2014). *Using educational technology to deliver differentiated instruction to enhance academic achievement* (Publication Number 3629265) [Ed.D., Walden University]. ProQuest Dissertations & Theses Global; Social Science Premium Collection. Ann Arbor.

Wams, E. J. (2012). *Neurodegeneration and brain cancer : a longitudinal field study of rest-activity and sleep* University of Oxford].

Wang, X. (2014). *The role of blood brain barrier failure in progression of cerebral small vessel disease : a detailed magnetic resonance imaging study* University of Edinburgh].

Wang, X., & Nedergaard, M. (2020). *Studies of the Function of Na+, K+ Cl-, Cotransporter-1 in the Central Nervous System in Health and Disease* University of Rochester].

Wang, J., Xu, R., Guo, X., Guo, S., Zhou, J., Lu, J., & Yao, D. (2022). Different Music Training Modulates Theta Brain Oscillations Associated with Executive Function. *Brain Sciences*, *12*(10), 1304. https://doi.org/10.3390/brainsci12101304

Woodley, E. (2016). *Enhancement of a novel gene therapy approach for Sandhoff disease through complimentary drug therapy* Queens University].

Wright, C. J. (2019). *Initiating Alpha-Synuclein Pathology: A Novel Animal Model Characterising The Progression Of Alpha-Synuclein From The Enteric Nervous System And Its Ability To Propagate To The Central Nervous System And The Initiation Of Downstream Pathologies* University of Sydney].

Yu, H. Mozart Effect: A Brief Retrospective.

Yao, Y., He, H., Duan, M., Li, S., Li, C., Chen, X., ... & Luo, C. (2020). The effects of music intervention on pallidum-DMN circuit of schizophrenia. *BioMed Research International*, *2020*. https://doi.org/10.1155/2020/4107065

Yu, Z. (2015). *Bayesian Modeling for fMRI Brain Activation and Connectivity* University of California – Irvine].

Yuvaraj, Y. (2016). *Brain-Derived Neurotrophic Factor's Neuroprotective Effects in Entorhinal Cortex* University of California – San Diego].

Yang, E. (2000). *Supplemental material for the suzuki cello core repertoire, as used by selected american teachers* (Publication Number 9967169) [D.M.A., Boston University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Yıldızhan, B. (2019). *Sanat temalı matematik etkinlikleri Ile öğretimin öğrencilerin matematik başarılarına ve sanata yönelik tutumlarına etkisi* (Publication Number 28245060) [M.Ed., Marmara Universitesi (Turkey)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Yoo, A. H. (2020). *Exploring the Life-Stories of Female African American Orchestra Teachers* (Publication Number 28153114) [Ed.D., Piedmont College]. ProQuest Dissertations & Theses Global; Publicly Available Content Database. Ann Arbor.

Yorke-Viney, S. A. (2007). *An examination of the effectiveness of arts integration in education on student achievement, creativity, and self perception* (Publication Number 3275700) [Ph.D., Marywood University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Young, B. C. (2013). *Eloquence and music: the querelle des bouffons in rhetorical context* (Publication Number 3555155) [Ph.D., Columbia University]. ProQuest Dissertations & Theses Global; ProQuest One Literature. Ann Arbor.

Young, E. C. (2005). *Play: The shaman's way for personal myth* (Publication Number 3205603) [Ph.D., Pacifica Graduate Institute]. ProQuest Dissertations & Theses Global. Ann Arbor.

Young, K. M. (2011). *Integrating history and music: The teachers' and students' perspective* (Publication Number 3482477) [Ed.D., Azusa Pacific University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Young-Griffin, J. L. (2012). *The effectiveness of music mentoring at the true music workshop, incorporated in an eastern city* (Publication Number 3549471) [Ph.D., Capella University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Yu, H. M. (2014). *Songs gone unheard: Complicating the myth of korean immigrant experiences through the examination of a children's community chorus* (Publication Number 3621812) [Ed.D., Teachers College, Columbia University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Zueva, M. V. (2015). Fractality of sensations and the brain health: the theory linking neurodegenerative disorder with distortion of spatial and temporal scale-invariance and fractal complexity of the visible world. *Frontiers in aging neuroscience*, *7*, 135. https://doi.org/10.3389/fnagi.2015.00135

Zendel, B. R. (2007). *Musical expertise and concurrent sound segregation* (Publication Number MR27409) [M.A., University of Toronto (Canada)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Zhou, F. (2009). *Using songs in efl classroom in secondary schools* (Publication Number 10523708) [Master, Hunan Normal University (People's Republic of China)]. ProQuest Dissertations & Theses Global. Ann Arbor.

Zuk, J. M. (2018). *Sowing seeds of literacy: Factors that promote language and reading acquisition along the neurodevelopmental trajectory from Infancy to school age* (Publication Number 28220610) [Ph.D., Harvard University]. ProQuest Dissertations & Theses Global. Ann Arbor.

Zhang, C. (2019). *BRAIN CONNECTOME NETWORK PROPERTIES VISUALIZATION* Purdue University].

Zheng, P. (2017). *Tau based mechanisms in acquired epilepsy and neurodegeneration post brain injuries* University of Melbourne].

Γκέμου, Ζ. Σ. (2022). Η ΣΥΜΒΟΛΗ ΤΗΣ ΜΟΥΣΙΚΗΣ ΣΤΗΝ ΦΥΣΙΚΟΘΕΡΑΠΕΙΑ.

Дымникова, М. (2015). Физиологические аспекты музыки и долголетие. *Успехи геронтологии*, *28*(4), 645-655.

Иваницкий, Г. Р. (2019). Люди-Х, обладающие необычным взаимодействием рецепторных систем, конструируют внутри себя мир новых образов (к 140-

летию со дня рождения академика ПП Лазарева). *Успехи физических наук*, *189*(7), 759-784.

Маслова, Н. Н., Литвинова, А. А., Юрьева, Н. В., & Ковалев, П. С. (2021). Комплаентность в эпилептологии. Как изменить ситуацию к лучшему. *Эпилепсия и пароксизмальные состояния*, *13*(2), 157-167.

Нестерова, Ю. В., Каркашадзе, Г. А., Намазова-Баранова, Л. С., Вишнева, Е. А., Кайтукова, Е. В., Яцык, Л. М., ... & Кратько, Д. С. (2021). Лечение когнитивных и поведенческих расстройств у детей с помощью транскраниальной магнитной стимуляции: обзор литературы. *Педиатрическая фармакология*, *18*(6), 498-506.

呉東進. (2009). 医学的音楽療法の基礎と臨床. *音楽医療研究*, *2*(1), 1-8

Not accessible

Shaafi, & Gaemian, N. (2017). The Mozart effect comparing in children and adults with intractable epilepsy. *Journal of the Neurological Sciences*, *381*, 687–687. https://doi.org/10.1016/j.jns.2017.08.1932

Sekhar, J. and G. R. Passi (2020). "Classical music improves epilepsy: The Mozart effect." Indian Pediatrics **57**(11): 1091-1091.

林龍昌. (2011). 音樂在兒童癲癇治療上的應用.