

## References: Neuroplasticity and Development

Aadil, M., Cosme, R. M., & Chernaik, J. (2017). Mindfulness-Based Cognitive Behavioral Therapy as an Adjunct Treatment of Attention Deficit Hyperactivity Disorder in Young Adults: A Literature Review. *Cureus*, 9(5), e1269. doi:10.7759/cureus.1269

Adami R, Pagano J, Colombo M, Platonova N, Recchia D, Chiaramonte R, Bottinelli R, Canepari M, Bottai D (2018, May 23). Reduction of Movement in Neurological Diseases: Effects on Neural Stem Cell Characteristics. *Front. Neurosci* <https://doi.org/10.3389/fnins.2018.00336>

American Academy of Pediatrics (2014). Policy Statement: Literacy Promotion: An Essential Component of Primary Care Pediatric Practice Retrieved from <https://pediatrics.aappublications.org/content/pediatrics/134/2/404.full.pdf>

American Psychiatric Association. (2013). Diagnostic and statistical manual of mental disorders (5th ed) (p. 261). Arlington, VA: Author

Angeles Mairena M, Mora-Guiard J, Malinverni L, Padillo V, Valero L, Hervas A, Pares N (2019). A full-body interactive videogame used as a tool to foster social initiation conducts in children with Autism Spectrum Disorders. *Research in Autism Spectrum Disorders*; 67: 101438 DOI: 10.1016/j.rasd.2019.101438

Ashcraft, R., Lynch, A., and Tekell, L. (2019). Chapter 31: Best Practices in Supporting Students who have Experienced Trauma; Book: Best Practices for Occupational Therapy in Schools. Editors: Frolek Clark, G., Chandler, B.E., Rioux, J. AOTA Press, Bethesda, MD.

Barnes, Michael. (2004). Principles of neurological rehabilitation. *Journal of neurology, neurosurgery, and psychiatry*. 74 Suppl 4. iv3-iv7. 10.1136/jnnp.74.suppl\_4.iv3.

Besnard, S., Lopez, C., Brandt, T., Denise, P., & Smith, P. F. (2015). Editorial: The Vestibular System in Cognitive and Memory Processes in Mammals. *Frontiers in integrative neuroscience*, 9, 55. doi:10.3389/fnint.2015.00055

Bringas M, Zaldivar M, Rojas P, Martinez-Montes K, Chongo D, Ortega M, Galvizu R, Perez A, Morales L, Maragoto C, Vera H, Galan L, Besson M, Valdes-Sosa P (2015, Nov 4). Effectiveness of music therapy as an aid to neurorestoration of children with severe neurological disorders. *Front Neurosci*. <https://doi.org/10.3389/fnins.2015.00427>

Britton A, Arshad Q (2019, Mar 7). Vestibular and Multi-Sensory Influences Upon Self-Motion Perception and the Consequences for Human Behavior. *Front. Neurol*, <https://doi.org/10.3389/fneur.2019.00063>

Burns M., (2019, Feb 19). I'm a Neuroscientist. Here's How Teachers Change Kids' Brains. EdSurge Learning Research Blog entry, Retrieved from <https://www.edsurge.com/news/2019-02-19-i-m-a-neuroscientist-here-s-how-teachers-change-kids-brains>

Cioni, G., Inguaggiato, E. and Sgandurra, G. (2016). Early intervention in neurodevelopmental disorders: underlying neural mechanisms. *Dev Med Child Neurol*, 58: 61-66. doi:10.1111/dmcn.13050

Clear, J. (2019). *Atomic Habits: An Easy and Proven Way to Build Good Habits and Break Bad Ones*. London: Cornerstone.

## References: Neuroplasticity and Development

- Cognitive Neuroscience Society. (2018, March 26). Prenatal stress changes brain connectivity in-utero: New findings from developmental cognitive neuroscience. *ScienceDaily*. Retrieved from [www.sciencedaily.com/releases/2018/03/18032611012](http://www.sciencedaily.com/releases/2018/03/18032611012)
- Cullinane D, Gurry S, Solomon R,(2017, July). Research evidence re: Developmental-Relationship Based Interventions for Autism Retrieved from <http://www.pcdteam.org/wp-content/uploads/2018/02/Research-evidence-for-DRBI.pdf>
- De Bellis, M. D., & Zisk, A. (2014). The biological effects of childhood trauma. *Child and adolescent psychiatric clinics of North America*, 23(2), 185–vii. doi:10.1016/j.chc.2014.01.002
- Desarkar, P., Rajji, T. K., Ameis, S. H., & Daskalakis, Z. J. (2015). Assessing and Stabilizing Aberrant Neuroplasticity in Autism Spectrum Disorder: The Potential Role of Transcranial Magnetic Stimulation. *Frontiers in psychiatry*, 6, 124. doi:10.3389/fpsy.2015.00124
- Drollette E, Scudder M, Raine L, Davis Moore R, Saliba B, Pontifex M, Hillman C (2014, Jan). Acute exercise facilitates brain function and cognition in children who need it most: An ERP study of individual differences in inhibitory control capacity. *Dev Cog Neurosci* 7, 53-64. Retrieved from <https://www.sciencedirect.com/science/article/pii/S1878929313000911>
- Dumont, E., Syurina, E. V., Feron, F., & van Hooren, S. (2017). Music Interventions and Child Development: A Critical Review and Further Directions. *Frontiers in psychology*, 8, 1694. doi:10.3389/fpsyg.2017.01694
- Dunning D, Griffiths K, Kuyken W, Crane C, Foulkes L, Parker J, Dalgleish T (2018, Oct 22). Research Review: The effects of mindfulness-based interventions on cognition and mental health in children and adolescents – a meta-analysis of randomized controlled trials. *Journal of Child Psychology* retrieved from <https://doi.org/10.1111/jcpp.12980>
- Eckert, M.A., Vaden, K.I., Maxwell, A.B. *et al.* (2017). Common Brain Structure Findings Across Children with Varied Reading Disability Profiles. *Sci Rep* 7, 6009 doi:10.1038/s41598-017-05691-5
- Engelhardt, C. R., Mazurek, M. O., & Hilgard, J. (2017). Pathological game use in adults with and without Autism Spectrum Disorder. *PeerJ*, 5, e3393. doi:10.7717/peerj.3393
- Fine J.G., Musielak K.A., Semrud-Clikeman M. (2014). Smaller splenium in children with nonverbal learning disability compared to controls, high-functioning autism and ADHD *Child Neuropsychology: A Journal On Normal and Abnormal Development in Childhood and Adolescence* 20:641-61  
PMID 24215424 DOI: 10.1080/09297049.2013.854763
- Firth J, Stubbs B, Vancampfort D, Schuch F, Lagopoulos J, Rosenbaum S, Ward P (2018). Effect of aerobic exercise on hippocampal volume in humans: A systematic review and meta-analysis. *NeuroImage*, 166:230 DOI: 10.1016/j.neuroimage.2017.11.007
- Gordon, R. L., Fehd, H. M., & McCandliss, B. D. (2015). Does Music Training Enhance Literacy Skills? A Meta-Analysis. *Frontiers in psychology*, 6, 1777. doi:10.3389/fpsyg.2015.01777

## References: Neuroplasticity and Development

- Ha, S., Sohn, I. J., Kim, N., Sim, H. J., & Cheon, K. A. (2015). Characteristics of Brains in Autism Spectrum Disorder: Structure, Function and Connectivity across the Lifespan. *Experimental neurobiology*, 24(4), 273–284. doi:10.5607/en.2015.24.4.273
- Habibi A, Damasio A, Ilari B, Elliott Sachs M, Damasio H (2018, Mar 6). Music Training and child development: a review of recent findings from a longitudinal study. *Ann NY Acad Sci* DOI: 10.1111/nyas.13606
- Harris, S. R., Mickelson, E., & Zwicker, J. G. (2015). Diagnosis and management of developmental coordination disorder. *CMAJ : Canadian Medical Association journal = journal de l'Association medicale canadienne*, 187(9), 659–665. doi:10.1503/cmaj.140994
- Hölzel, B. K., Carmody, J., Vangel, M., Congleton, C., Yerramsetti, S. M., Gard, T., & Lazar, S. W. (2011). Mindfulness practice leads to increases in regional brain gray matter density. *Psychiatry research*, 191(1), 36–43. doi:10.1016/j.psychres.2010.08.006
- Hendricks M.A., Buchanan T.W. (2016, Aug). Individual differences in cognitive control processes and their relationship to emotion regulation *Cognition & Emotion* 30(5) 912-24 doi: 10.1080/02699931.2015.1032893. Epub 2015 May 7
- Housman D.K., Denham S.A., Cabral H., (2018). Building young children's emotional competence and self-regulation from birth. *International Journal of Emotional Education* 10(2). <https://www.um.edu.mt/library/oar/handle/123456789/36463>
- Hutton JS, Dudley J, Horowitz-Kraus T, DeWitt T, Holland SK. (2019). Associations Between Screen-Based Media Use and Brain White Matter Integrity in Preschool-Aged Children. *JAMA Pediatr*. Published online November 04, 2019. doi: <https://doi.org/10.1001/jamapediatrics.2019.3869>
- King's College London. (2019, October 8). Prenatal stress could affect baby's brain. *ScienceDaily*. Retrieved from [www.sciencedaily.com/releases/2019/10/191008094309.htm](http://www.sciencedaily.com/releases/2019/10/191008094309.htm)
- Kisiel, C.L., Fehrenbach, T., Torgersen, E., Stolbach, B., McClelland, G., Griffin, G., Burkman, K.. (2014). Constellations of interpersonal trauma and symptoms in child welfare: Implications for a developmental trauma framework. *Journal of Family Violence*, 29 (1), 1-14.
- Kleim, J. A., & Jones, T. A. (2008). Principles of experience-dependent neural plasticity: Implications for rehabilitation after brain damage. *JSLHR*, 51(1), S225- S239.
- Kolb, B., & Gibb, R. (2011). Brain plasticity and behaviour in the developing brain. *Journal of the Canadian Academy of Child and Adolescent Psychiatry = Journal de l'Academie canadienne de psychiatrie de l'enfant et de l'adolescent*, 20(4), 265–276.
- LoBue V., (2019, July 10). Why Children Like Repetition, and How It Helps Them Learn. Psychology Today blog, Retrieved from <https://www.psychologytoday.com/us/blog/the-baby-scientist/201907/why-children-repetition-and-how-it-helps-them-learn>
- Lubans D, Richards J, Hillman C, Faulkner G, Beauchamp M, Nilsson M, Kelly P, Smith J, Raine L, Biddle S (2016, Sep). Physical Activity for Cognitive and Mental Health in Youth: A Systematic Review of Mechanisms. *Pediatrics* 138(3) e20161642; DOI 10.1542/peds.2016-1642

## References: Neuroplasticity and Development

- Maitre N.L., Key A.P., Chorna O.D., Slaughter J.C., Matusz P.J., Wallace M.T., Murray M.M. (2017, April). The Dual Nature of Early-Life Experience on Somatosensory Processing in the Human Infant Brain *Current Biology* 27(7), 1048-1054 Retrieved from <https://www.sciencedirect.com/science/article/pii/S096098221730204X>
- Mateos-Aparicio P and Rodríguez-Moreno A (2019). The Impact of Studying Brain Plasticity. *Front. Cell. Neurosci.* 13:66. doi: 10.3389/fncel.2019.00066 Retrieved from <https://www.frontiersin.org/articles/10.3389/fncel.2019.00066/full>
- Mulligan LaRossa M., Carter S.L. (2019). Understanding How the Brain Develops. Emory University School of Medicine, Retrieved Nov 22, 2019 from <https://med.emory.edu/departments/pediatrics/divisions/neonatology/dpc/brain.html>
- Mundkur, N. *Indian J Pediatr* (2005). Neuroplasticity in Children 72: 855. <https://doi.org/10.1007/BF02731115>
- NIH/National Institute of Mental Health. (2019, January 17). New findings reveal surprising role of the cerebellum in reward and social behaviors. *ScienceDaily*. Retrieved December 2, 2019 from [www.sciencedaily.com/releases/2019/01/190117142151.htm](http://www.sciencedaily.com/releases/2019/01/190117142151.htm)
- Norris, C. J., Creem, D., Hendler, R., & Kober, H. (2018). Brief Mindfulness Meditation Improves Attention in Novices: Evidence From ERPs and Moderation by Neuroticism. *Frontiers in human neuroscience*, 12, 315. doi:10.3389/fnhum.2018.00315
- Palau M, Marron EM, Viejo-Sobera R and Redolar-Ripoll D (2017). Neural Basis of Video Gaming: A Systematic Review. *Front. Hum. Neurosci.* 11:248. doi: 10.3389/fnhum.2017.00248
- Purvis, K. B., Cross, D. R., Dansereau, D. F., & Parris, S. R. (2013). Trust-Based Relational Intervention (TBRI): A Systemic Approach to Complex Developmental Trauma. *Child & youth services*, 34(4), 360–386. doi:10.1080/0145935X.2013.85990
- Rabinowicz S, Pizzutillo B, (2018). Academy of Pediatric Physical Therapy: Weaving Relationship-based Practices into Intervention: A Guide for Pediatric Physical Therapists. American Physical Therapy Association, Alexandria, VA retrieved from <https://www.pediatricapta.org>
- Radboud University Nijmegen Medical Centre. (2017, February 16). Brain differences in ADHD. *ScienceDaily*. Retrieved from [www.sciencedaily.com/releases/2017/02/170216105919.htm](http://www.sciencedaily.com/releases/2017/02/170216105919.htm)
- Richards T.L., Grabowski T.J., Boord P., Yagle K., Askren M., Mestre Z., Robinson P., Welker O., Gulliford D., Nagy W., Berninger V. (2015). Contrasting brain patterns of writing-related DTI parameters, fMRI connectivity, and DTI-fMRI connectivity correlations in children with and without dysgraphia or dyslexia *NeuroImage: Clinical* Volume 8, 408-421 <https://doi.org/10.1016/j.nicl.2015.03.018>
- Romeo, R. R., Leonard, J. A., Robinson, S. T., West, M. R., Mackey, A. P., Rowe, M. L., & Gabrieli, J. D. E. (2018). Beyond the 30-Million-Word Gap: Children’s Conversational Exposure Is Associated With Language-Related Brain Function. *Psychological Science*, 29(5), 700–710. <https://doi.org/10.1177/0956797617742725>

## References: Neuroplasticity and Development

Romeo R.R., Segaran J., Leonard J.A., Robinson S.T., West M.R., Mackey A.P., Yendiki A., Rowe M.L., Gabrieli J.D.E. (2018, Sept 5). Language Exposure Relates to Structural Neural Connectivity in Childhood *Journal of Neuroscience* 38(36) 7870-7877; DOI 10.1523/JNEUROSCI.0484-18.2018

Semrud-Clikeman M., Fine J.G., Bledsoe J., Zhu D.C., (2013). Magnetic resonance imaging volumetric findings in children with Asperger syndrome, nonverbal learning disability, or healthy controls *J Clin Exp Neuropsychol* 35(5):540-50 doi: 10.1080/13803395.2013.795528. Epub 2013 May 14

Shaffer J. (2016). Neuroplasticity and Clinical Practice: Building Brain Power for Health. *Frontiers in psychology*, 7, 1118. doi:10.3389/fpsyg.2016.01118

Sinha, Y., Silove, N., Wheeler, D., & Williams, K. (2006). Auditory integration training and other sound therapies for autism spectrum disorders: a systematic review. *Archives of disease in childhood*, 91(12), 1018–1022. doi:10.1136/adc.2006.094649

Spear L. P. (2013). Adolescent neurodevelopment. *The Journal of adolescent health : official publication of the Society for Adolescent Medicine*, 52(2 Suppl 2), S7–S13. doi:10.1016/j.jadohealth.2012.05.006

Spek AA, van Ham NC, Nyklicek I (2013, Jan). Mindfulness-based therapy in adults with an autism spectrum disorder: A randomized controlled trial. *Res Dev Disabilities* 34(1); 246-253; <https://doi.org/10.1016/j.ridd.2012.08.009>

Spiegel A., Mentch J., Haskins A.J., Robertson C.E., (2019, Aug 15). Slower Binocular Rivalry in the Autistic Brain *Current Biology* 29(17), 2948-2953, doi:10.1016/j.cub.2019.07.026

Ting, V. & Weiss, J.A. (2017). Emotion Regulation and Parent Co-Regulation in Children with Autism Spectrum Disorder. *J Autism Dev Disord* 47: 680. <https://doi.org/10.1007/s10803-016-3009-9>

Titler M.G., (2008, Apr). The Evidence for Evidence-Based Practice Implementation, Patient Safety and Quality: An Evidence-Based Handbook for Nurses. Agency for Healthcare Research and Quality (US), Rockville, MD; Hughes R.G., Retrieved from <https://www.ncbi.nlm.nih.gov/books/NBK2659/>

Twenge, J. M., & Campbell, W. K. (2018). Associations between screen time and lower psychological well-being among children and adolescents: Evidence from a population-based study. *Preventive medicine reports*, 12, 271–283. doi:10.1016/j.pmedr.2018.10.003

Vanderauwera J, Wouters J, Vandermosten M, Ghesquiere P (2017, Oct). Early dynamics of white matter deficits in children developing dyslexia. *Dev Cog Neurosci* 27: 69-77, <https://doi.org/10.1016/j.dcn.2017.08.003>

Van den Bergh, B., Dahnke, R., & Mennes, M. (2018). Prenatal stress and the developing brain: Risks for neurodevelopmental disorders. *Development and Psychopathology*, 30(3), 743-762. doi:10.1017/S0954579418000342

Varma, V. R., Chuang, Y. F., Harris, G. C., Tan, E. J., & Carlson, M. C. (2015). Low-intensity daily walking activity is associated with hippocampal volume in older adults. *Hippocampus*, 25(5), 605–615. doi:10.1002/hipo.22397

## References: Neuroplasticity and Development

Voss P, Thomas ME, Cisneros-Franco JM and de Villers-Sidani É (2017). Dynamic Brains and the Changing Rules of Neuroplasticity: Implications for Learning and Recovery. *Front. Psychol.* 8:1657. doi: 10.3389/fpsyg.2017.01657

Wan Y, Fu H (2019). Temporal predictability promotes prosocial behavior in 5-year-old children. *PLoS ONE* 14(5): e0217470. <https://doi.org/10.1371/journal.pone.0217470>

White, R (2013). The Power of Play: A Research Summary on Play and Learning. Minnesota Children's Museum Retrieved from <https://www.childrensmuseums.org/images/MCMResearchSummary.pdf>

Wilkins RW, Hodges DA, Laurienti PJ, Steen M, Burdette JH (2014). Network Science and the Effects of Music Preference on Functional Brain Connectivity: From Beethoven to Eminem. *Scientific Reports*, 4: 6130 DOI: 10.1038/srep06130

Wood G, Miles CAL, Coyles G, Alizadehkhayat O, Vine SJ, Vickers JN, et al. (2017). A randomized controlled trial of a group-based gaze training intervention for children with Developmental Coordination Disorder. *PLoS ONE* 12(2): e0171782. <https://doi.org/10.1371/journal.pone.0171782>

Yawno, T., Sutherland, A. E., Pham, Y., Castillo-Melendez, M., Jenkin, G., & Miller, S. L. (2019). Fetal Growth Restriction Alters Cerebellar Development in Fetal and Neonatal Sheep. *Frontiers in Physiology*, 10. doi: 10.3389/fphys.2019.00560

Yogman M, Garner A, Hutchinson J, Hirsh-Pasek K, Michnick Golinkoff R, (2018, Aug). The Power of Play: A Pediatric Role in Enhancing Development in Young Children. *Pediatrics* e20182058 doi: 10.1542/peds.2018-2058