

A Small Selection of References

Many more references for Neurofeedback can be found on iSNR.org

Basic Textbook

- Thompson, M. & Thompson, L. (2003) *The Neurofeedback Book: An Introduction to Basic Concepts in Applied Psychophysiology*, Wheat Ridge, CO: Association for Applied Psychophysiology. Polish translation 2012.

**Second Edition as: The Companion to the Neurofeedback Book
to be Published Fall 2013 or Winter 2014**

References For a New Article: Heart-Brain Neuroanatomy Underlies Effective Neurofeedback plus Biofeedback Interventions

Thompson M., Thompson L., Reid A., Thompson J., Hagedorn D. (In press)

- Baguley, I.J., Heriseanu, R.E., Felmingham, K.L., & Cameron, I.D. (2006). Dysautonomia and heart rate variability following severe traumatic brain injury. *Brain Injury*, 20(4),437–444.
- Benedetti, F., Mayberg, H. S., Wager, T. D., Stohler, C. S., & Zubieta, J-K. (2005). Neurobiological Mechanisms of the Placebo Effect. *Journal of Neuroscience*, (25)45, 10390-10402.
- Beniamini, Y., Rubenstein, J.J., Zaichkowsky, L.D., Crim, & M.C., (1997). Effects of high intensity strength training on quality-of-life parameters in cardiac rehabilitation patients. *Am J Cardiol*,80,841-846.
- Brodmann K. (1909). Vergleichende Lokalisationslehre der Grosshirnrinde. Leipzig : Johann Ambrosiu“ Bart. ("Vergleichende Lokalisationslehre der Großhirnrinde in ihren Prinzipien dargestellt auf Grund des Ze"lenbaues" (Comparative Localization Studies in the Brain Cortex, its Fundamentals Represented on the Basis of its Cellular Architecture).
- Congedo, M., Lubar, J.F., Joffe, D., (2004). Low-resolution electromagnetic tomography neurofeedback. *IEEE Trans Neural Syst Rehabil Eng*. 12(4), 387-397
- Damasio, Antonio, *Feelings of Emotion and the self*, (2003). *Annals of the New York Academy of Sciences* 1001, 253-261.
- De Ridder, Dirk (2009). An evolutionary approach to brain rhythms and its clinical implications for brain modulation. *Journal of Neurotherapy*, (13)1, 69-70.
- De Ridder, Dirk (2010) *Alcohol Addiction: A Clinical Pathophysiological Approach*. Proceedings of the ISNR 18th Annual Conference, Denver, Colorado.
- Devinsky, O., Morrell, M.J., & Vogt, B.A., (1995). Contributions of anterior cingulate cortex to behaviour. *Brain*, 118, (Pt1),279-306.
- Dougherty, P. (2013) Section 4: Homeostasis and Higher Brain Functions: Chapter 1: Hypothalamus: Structural Organization, Chapter 2: Hypothalamic Control of Pituitary Hormones, Chapter 3: Central Control of the Autonomic Nervous System & Thermoregulation, In John H.Byrne (Ed.) *Neurobiology Section 4 Chapter 1-3*. FreeScience Books
- Gevirtz, Richard (2010). *Autonomic Nervous System Markers for Psychophysiological, Anxiety, and Physical Disorders*. In Gordon, E. & Stephen H. (Eds.) *Integrative +Neuroscience and Personalized Medicine*, (pp. 160-180) Oxford Press, New York, NY.
- Giardino, N.D, Lehrer, P.M., & Edelberg, R., (2002). Comparison of finger plethysmograph to ECG in the measurement of heart rate variability. *Psychophysiology*, 39(2), 246-253.
- Goldapple, K., Segal, Z., Garson, C., Lau, M., Bieling, P., Kennedy, S., & Mayberg, H., (2004). Modulation of cortical- limbic pathways in major depression: Treatment specific effects of cognitive behavioural therapy. *Arch. Gen. Psychiatry* 61, 34-41.
- Gray, A. Johnson, T., Lauenstein, J., Newton, S., Ardell J., & Massari, V. (2004). Parasympathetic control of the heart. III. Neuropeptide Y-immunoreactive nerve terminals synapse on three populations of negative chronotropic vagal preganglionic neurons. *J Appl Physiol*, 96 (6), 2279-2287.
- Grippo, A.J., & Johnson, A.K. (2009). Stress, depression and cardiovascular dysregulation: A review of neurobiological mechanisms and the integration of research from preclinical disease models. *Stress*, 12(1), 1–21.
- Hagedorn, D. & Thompson, J. (2011). *Evoked Neuroscience* [website www.evokeneuro.com](http://www.evokeneuro.com).
- Jasper, H., (1958). Report of the committee on methods of clinical examination in electroencephalography. *EEG and Clinical Neurophysiology*, 10, 374-375.
- Hassett, Afton L., Radvanski, Diane C., Vaschillo, Evgeny G., Vaschillo, Bronya, Sigal, Leonard H., Karavidas, Maria K., Buyske, Steven, Lehrer, Paul M., (2007). A Pilot Study of the Efficacy of Heart Rate Variability (HRV) Biofeedback in Patients with Fibromyalgia. *Appl Psychophysiol Biofeedback* 32:1–10
- Karavidas, M. K., Lehrer, P. M., Vaschillo, E., Vaschillo, B., Marin, H., Buyske, S., et al. (2007). Preliminary results of an open-label study of heart rate variability biofeedback for the treatment of major depression. *Applied Psychophysiology and Biofeedback*, 32, 19–30.
-

- Diane C., Hassett, Afton L, (2007). Preliminary Results of an Open Label Study of Heart Rate Variability Biofeedback for the Treatment of Major Depression. *Appl Psychophysiol Biofeedback*, 32:19–30
- Kaufmann T, Vögele C, Sütterlin S, Lukito S, Kübler A., (2012). Effects of resting heart rate variability on performance in the P300 brain-computer interface. *Int J Psychophysiol.* Mar;83(3):336-41.
- Kennedy, S.H., Giacobbe P., Rizvi, S.J., Placenza, F.M., Yasunori, N.Y., Mayberg, H.S., & Lozano, A.M. (2011). Deep Brain Stimulation for Treatment-Resistant Depression: Follow-up after 3 to 6 years. *Am J Psychiatry.*168(5),502-10.
- Kim, M.J., Loucks, R.A., Palmer, A.L., Brown, A.C., Solomon, K.M., Marchante, A.N., & Whalen, P.J. (2011). The structural and functional connectivity of the amygdala: From normal emotion to pathological anxiety. *Behavioral Brain Research*, 223, 403-410.
- Klabunde, R. E., *Cardiovascular Physiology Concepts*. Available on the [internet](http://www.cvphysiology.com). <http://www.cvphysiology.com>
- Kropotov, J. D. (2009). *Quantitative EEG, Event-Related Potentials and Neurotherapy*. San Diego, CA: Academic Press, Elsevier pp 292-309.
- La Rovere, M.T., Pinna, G.D., Raczak, G., (2008). Baroreflex sensitivity: measurement and clinical implications. *Ann Noninvasive Electrocardiol.* Apr;13(2):191-207.
- Lehrer, P. M. (2007). Biofeedback Training to Increase Heart Rate Variability. In Lehrer, P.M., Woolfolk, R.L. & Sime, W.E. (Eds.) *Principles and Practice of Stress Management: Third Edition*, (pp. 227-148). New York: Guilford Press.
- Lutz, A., Greischar, L.L., Periman, D., & Davidson, R.L., (2009). BOLD signal in insula is differentially related to cardiac function during compassion meditation in experts vs. novices. *Neuroimage*, 47,1038-1046
- Martin, S. D., (2001). Brain Blood Flow Changes in Depressed Patients Treated With Interpersonal Psychotherapy or Venlafaxine Hydrochloride *Arch Gen Psychiatry*,58(7),641-648.
- Mayberg HS, Brannan SK, Tekell JL, Silva JA, Mahurin RK, McGinnis S, Jerabek PA. (2000). [Regional metabolic effects of fluoxetine in major depression: serial changes and relationship to clinical response](#). *Biol Psychiatry* 48:830-843.
- Mayberg, H.S., Lozano, A.M., Voon, V., McNeely, H.E., Seminowicz, D., Hamani, C., Schwalb, J.M., Kennedy, S.H. (2005). Deep Brain Stimulation for Clinical Treatment-Resistant Depression. *Neuron*, 45, 651–660.
- Moss, D. & Shaffer, F. (2007) *Psychophysiology & General Health Heart Rate Variability (HRV) Version*, HRV clinical Guide, Thought Technology
- Nagai, M., Hoshide, S., & Kario, K. (2010). The insular cortex and cardiovascular system: a new insight into the brain-heart axis. *Journal of the American Society of Hypertension* 4(4), 174–182.
- Nunez, P.L. (1981). *Electrical Fields of the Brain*. Oxford University Press, New York
- Nunez, P.L., (1995). *Neocortical dynamics and human EEG rhythm*. Oxford University Press, New York.
- Paquette, V., Beauregard, M., Beaulieu-Prévoste, D. (2009). The effect of psychoneurotherapy on brain electromagnetic tomography in individuals with major depressive disorder. *Psychiatry Research. Neuroimaging*, 174, 231–239.
- Pasqual-Marqui, R.D., Esslen, M., Kochi, K., & Lehmann, D. (2002). Functional Imaging with Low resolution electromagnetic tomography LORETA a review. *Methods Find Exp Clin Pharmacol.* 24 (Suppl C), 91-95.
- Pasqual-Marqui, R.D., Michel, C.M., & Lehmann, D. (1994). Low resolution electromagnetic tomography: a new method for localizing electrical activity in the brain. *International Journal of Psychophysiology*,18(1), 49-65.
- Peper, E. Shaffer, F. I-Mei, L. (2010). Garbage in; Ga—age out—identify blood volume pulse (BVP) Artifacts before analyzing and interpreting BVP, blood volume pulse amplitude, and heart rate/respiratory sinus arrhythmia data. *Spring*,38(1),19-23.
- Pizzagalli, D. A., Nitschke, J. B., Oakes, T. R., Hendrick, A. M., Horras, K. A., Larson, C. L., et al. (2002). Brain electrical tomography in depression: The importance of symptom severity, anxiety, and melancholic features. *Biological Psychiatry*,52, 73-85.
- Pizzagalli, D.A., Oakes, T.R., Fox, A.S., Chung, M.K., Larson, C.L., Abercrombie, H.C., Schaefer, S.M., Benca, R.M., & Davidson, R.J., (2004). Functional but not structural subgenual prefrontal cortex abnormalities in melancholia. *Mol Psychiatry*, 9(4), 325, 393-405.
- Porges, S. W. (2007). The Polyvagal Perspective. *Biological Psychiatry*, 74, 116 – 143.
- Raichle, M.E., MacLeod, A.M., Snyder, A.Z., Powers, W.J., Debra A. Gusnard, D.A., Gordon L. Shulman, (2003). A default mode of brain function. *National Academy of Sciences, Proceedings of the National Academy of Sciences of the United States of America*, 98 (2), 676–682.
- Reid, A., Nihon, S., Thompson, L., & Thompson, M., (2013) The effects of heart rate variability training on sensorimotor rhythm: A pilot study *Journal of Neurotherapy: Investigations in Neuromodulation, Neurofeedback, and applied Neuroscience*, 17:1, 43-48.
- Rossiter, T. R. & La Vaque, T. J. (1995). A comparison of EEG biofeedback and psychostimulants in treating attention deficit hyperactivity disorders. *Journal of Neurotherapy*, 1(1), 48-59.
- Rossiter, T. R. (1998). Patient-directed neurofeedback for AD/HD. *Journal of Neurotherapy*, 2(4), 54-63.
- Rougeul-Buser A., Bouyer J.J., Montaron M.F., Buser P., (1983). Patterns of activities in the ventro-basal thalamus and somatic cortex S1 during behavioral immobility in the awake cat: focal waking rhythms. *Exp. Brain Res.*, suppl 7: 67-87, 1983.
- Rougeul-Buser, A., Buser, P. (2011). Attention in cat revisited. A critical review of a set of brain explorations in fully alert animals *Archives Italiennes de Biologie*, 149 (Suppl.): 204-213,

- Seeley, W., Menon, V., Schatzberg, A., Keller, J., Glover, G., Kenna, H., Reiss, A., & Greicius, M. (2007). Dissociable Intrinsic Connectivity Networks for Salience Processing and Executive Control. *The Journal of Neuroscience*, (27)9, 2349-2356.
- Shah, S.G., Klumpp, H., Angstadt, M., Nathan, P.J., Phan, K.L.,(2009). Amygdala and insula response to emotional images in patients with generalized anxiety disorder. *J Psychiatry Neurosci*, 34(4), 296-302.
- Sheer, D.E. (1976). Focused arousal and 40 Hz-EEG, In R.M. Knight, D.J. Bakker (Eds.), *The Neuropsychology of Learning Disorders*, University Park Press, Baltimore, pp. 71–78.
- Slobounov, S., Hallett, M., Cao, C., Newell, K. (2008). Modulation of cortical activity as a result of voluntary postural sway direction: An EEG study. *Neuroscience Letters*, 442(3), 309–313.
- Smith, C. G. (1962). *Basic Neuroanatomy*. Toronto, Canada: University of Toronto Press.
- Smith-Pelletier, Carolyn (2002). *The Hypothalamic-Pituitary Adrenal Axis*. Paper presented at the Canadian Medical Association annual meeting.
- Steriade, Meircea and McCarley, Robert W., (2005). Synchronized Brain Oscillations Leading to Neuronal Plasticity During Waking and Sleep States, chapter 7 in: *Brain Control of Wakefulness and Sleep*, second edition. Springer, PP 258-259.
- Serman, M.B., & Wyrwicka, W. (1967). EEG correlates of sleep: Evidence for separate forebrain substrates. *Brain Res*, 6, 143-163.
- Supekar, K., Uddin, L.Q., Prater, K., Amin, H., Greicius, M.D., Menon, V., (2010). Development of functional and structural connectivity within the default mode network in young children. *J. Neuroimage* 52, :290-301
- Thatcher (2012) *Handbook of Quantitative Electroencephalography and EEG Biofeedback*.
- Thompson, J., Sebastianelli, W. & Slobounov, S. (2005). EEG and postural correlates of mild traumatic brain injury in athletes. *Neuroscience Letters* (3), 158-163.
- Thompson, J. & Hagedorn D., (2012). Multimodal Analysis: New Approaches to the Concussion Conundrum. *Journal of Clinical Sport Psychology*, 6, 22-46.
- Thompson, M. & Thompson, L., Reid, A. (2010) *Functional Neuroanatomy and the Rationale for Using EEG Biofeedback for Clients with Asperger’s Syndrome*. *Journal of Applied Psychophysiology and Biofeedback*, 35(1), 39-61.
- Thompson, M. & Thompson, L. (2003). *The Neurofeedback Book: An Introduction to Basic Concepts in Applied Psychophysiology*, Wheat Ridge, CO: Association for Applied Psychophysiology. Polish translation 2012.
- Thompson, M. & Thompson, L. (in press). *Companion to the Neurofeedback Book*. Wheat Ridge, CO: Association for Applied Psychophysiology.
- Thompson, M. & Thompson, L. (2007a) *Neurofeedback for Stress Management*. In Lehrer, P.M., Woolfolk, R.L., & Sime, W.E. (Eds.) *Principles and Practice of Stress Management*, 3rd Edition. New York: Guilford Publications.
- Thompson, M., Thompson, L., Thompson, J., Hagedorn, D., (2011) *Networks: A Compelling Rationale for Combining Neurofeedback, Biofeedback and Strategies*. *NeuroConnections*, Summer.
- Thompson, M., Thompson, J., Wenqing, W. (2007b). *The ADD Centre Brodmann Area, 10-20 Sites, Primary functions booklet*. San Rafael, Ca: ISNR Publications
- Vernon, David, Egner, Tobias, Cooper, Nick, Compton, Theresa, Neilands, Claire, Sheri, Amna, Gruzelier, John, (2003). The effect of training distinct neurofeedback protocols on aspects of cognitive performance. *International Journal of Psychophysiology* 47, 75–85
- Zalesky A, Fornito A, Harding IH, Cocchi L, Yücel M, Pantelis C, Bullmore ET., (2010). Whole-brain anatomical networks: does the choice of nodes matter? *Neuroimage*. Apr 15;50(3):970-83.
- Zoeller, R.F. Jr. (2007). Physical activity: Depression, anxiety, physical activity, and cardiovascular disease: What is the connection? *American Journal Lifestyle Med*, 1, 175-180.
- Zöllei, E., Paprika, D., Rudas L., (2003). Measures of cardiovascular autonomic regulation derived from spontaneous methods and the Valsalva maneuver. *Auton Neurosci*, Jan 31;103(1-2):100-5.

A Sample of References for ADHD

EVIDENCE-BASED CHILD AND ADOLESCENT PSYCHOSOCIAL INTERVENTIONS

American Academy of Pediatrics

This report is intended to guide practitioners, educators, youth, and families in developing appropriate plans using psychosocial interventions. It was created for the period November 2012– April 2013 using the PracticeWise Evidence-Based Services (PWEBS) Database, available at www.practicewise.com. If this is not the most current version, please check the American Academy of Pediatrics mental health Web site (www.aap.org/mentalhealth) for updates

Book:

- Sears, William & Thompson, Lynda (1998) *The A.D.D. Book, New Understandings, New Approaches to Parenting Your Child*. New York: Little, Brown & Co.

Articles:

- Arns, M, De Ridder, S, Strehl, U, Breteler, M, Coenen, A. (2009). (Attached) Efficacy of neurofeedback treatment in ADHD: The effects on inattention, impulsivity and hyperactivity: A meta-analysis. *Clinical EEG and Neuroscience*; 40(3) 180-189
- Beauregard, M., & Levesque, J. (2006). Functional magnetic resonance imaging investigation of the effects of neurofeedback training on neural bases of selective attention and response inhibition in children with attention-deficit/hyperactivity disorder. *Applied Psychology and Biofeedback*, 31, 3–20.
- Cihan Gani, , Niels Birbaumer, Ute Strehl, (2008). Long term effects after feedback of slow cortical potentials and of theta-beta-amplitudes in children with attention-deficit/hyperactivity disorder (ADHD). *International Journal of Bioelectromagnetism*, Vol. 10, No. 4, pp.209-232
Institute of Medical Psychology and Behavioral Neurobiology
- Gevensleben, H., Holl, B., Albrecht, B., Vogel, C., Schlamp, D., et al. (2009). Is neurofeedback an efficacious treatment for ADHD?: A randomized controlled clinical trial. *Journal of Child Psychology and Psychiatry*, 50, 780–789.
- Laurence M. Hirshberg, Sufen Chiu, Jean A. Frazier, (2005) Emerging brain-based interventions for children and adolescents: overview and clinical perspective *Child Adolesc Psychiatric Clin N Am* 14 (2005) 1 – 19.
- Levesque, J., Beauregard, M., & Men-sour, B. (2006). Effect of neurofeedback training on the neural substrates of selective attention in children with attention deficit/hyperactivity disorder: A functional magnetic resonance imaging study. *Neuroscience Letters*, 394, 216–221.
- Cassels, Caroline (2009). Hallucinations, other psychotic symptoms in children linked to use of ADHD medications. *Pediatrics*; 123:611-616
- Madelyn S. Gould, Ph.D., M.P.H., B. Timothy Walsh, M.D., Jimmie Lou Munfakh, B.A., Marjorie **stimulant** Kleinman, M.S., Naihua Duan, Ph.D., Mark Olfson, M.D., M.P.H., Laurence Greenhill, M.D., and Thomas Cooper, M.A. (2009) Sudden Death and Use of Stimulant Medications in Youths. *American Journal of Psychiatry* June 15
- Jensen, P. MD, Arnold EL. MD, Swanson, JM. PhD, Vitiello, B. MD, Abikoff, HB. PhD, Greenhill, L L. MD, Hetchman, L. MD; Hinshaw, SP. PhD, Pelham, WE. PhD, Wells, KC. PhD, Connors, CK PhD, Elliott, GR. PhD, M.D, Epstein, JN. PhD, Hoza, B PhD, March, JS. MD, MPH, Molina, BSG. PhD, Newcorn, JH.MD, Severe, JB. MS, Wigal, T PhD, Gibbons, RD. PhD; Hur, K. PhD. (2007) 3 Year Follow-Up of the NIMH MTA Study. *Journal of the American Academy of Child & Adolescent Psychiatry*; 46:8 989-1002
- Winterstein, AG, Gerhard, T, Shuster, J, Saidi, A. (2009) Cardiac Safety of Methylphenidate versus amphetamine salts in treatment of ADHD. *Pediatrics*. Jul; 124(1) pg 75-80
- Monastra, V., Monastra, D., & George, S. (2002). The effects of therapy, EEG-biofeedback, and parenting style on the primary symptoms of attention- deficit/hyperactivity disorder. *Applied Psychophysiology and Biofeedback*, 27, 231–249.
- VanDeusen, P., Green, G., Wing, W., et al. (1999). Assessing attention deficit hyperactivity disorder via quantitative electroencephalography: An initial validation study. *Neuropsychology*, 13, 424–433.
- Thompson, L. & Thompson, M. (1998) Neurofeedback Combined with Training in Metacognitive Strategies: Effectiveness in Students with ADD. *Journal of Applied Psychophysiology and Biofeedback*,(23)4, 243-263.
- Thompson, L. & Thompson, M. (2005) Neurofeedback Intervention for Adults with ADHD. *Journal of Adult Development*, (12) 2/3, 123-130.
- Thompson, M. & Thompson, L. (2006) Improving Attention in Adults and Children: Differing Electroencephalography Profiles and Implications for Training. *Biofeedback*, Fall, 2006
- Thompson, M. & Thompson, L., (2009) Systems Theory of Neural Synergy: Neuroanatomical Underpinnings of Effective Intervention Using Neurofeedback plus Biofeedback. *Journal of Neurotherapy*,(13)1, 72-74.
- Thompson, M., Thompson, L., Thompson, J., Hagedorn, D.,(2011) Networks: A Compelling Rationale for Combining Neurofeedback, Biofeedback and Strategies. *NeuroConnections*, Summer.
- Sears, William & Thompson, Lynda (1998) *The A.D.D. Book, New Understandings, New Approaches to Parenting Your Child*. New York: Little, Brown & Co.
- Thompson, M. & Thompson, L. (2001) *Setting up for Clinical Success with the Procomp+/Biograph*. Amsterdam: Biofeedback Foundation of Europe.
- Thompson, M. & Thompson, L. (2003) *The Neurofeedback Book: An Introduction to Basic Concepts in Applied Psychophysiology*, Wheat Ridge, CO: Association for Applied Psychophysiology. Polish translation 2012.
- Thompson, Lynda (2001) *Neurofeedback for ADD/Hyperactivity*. Chapter in *The All-In-One Guide to ADD & Hyperactivity*. Niagara Falls, New York: AGES Publications.
- Thompson, Lynda (2003) *Complementary Therapeutic Interventions: Neurofeedback, Metacognition, and Nutrition for Long-Term Improvement in Attention Deficit Disorder*. Chapter in A. Fine & R. Kotkin (Eds.) *The Therapist’s Guide to Learning and Attention Disorders*. San Diego, CA: Academic Press.
- Thompson, Lynda (2004) *Electroencephalographic Applications*. Module 6 in Andrew Crider, Doil Montgomery (Eds.) *Introduction to Biofeedback: An AAPB Independent Study Program*, Wheat Ridge Colorado: AAPB
- Thompson, M. & Thompson, L. (2007) *Neurofeedback for Stress Management*. Chapter in Paul M. Lehrer, Robert L. Woolfolk and Wesley E. Sime (Eds.) *Principles and Practice of Stress Management*, 3rd Edition. New York: Guilford Publications.

Sample References For Seizures

- Tan G, Thornby J, Hammond DC, Strehl U, Canady B, Arnemann K, Kaiser DA, Michael E. DeBaKey. *Clin EEG Neurosci*. 2009 Jul;40(3):173-9.
- Sterman, M. B. (2000), Basic concepts and clinical findings in the treatment of seizure disorders with EEG operant conditioning. *Clinical Electroencephalography*, 31(1), 45-55
- Sterman, M. B., Thompson, L. (In press) Neurofeedback for Seizure Disorders. In Evans et al (Editors)
- Wyrwicka, W, & Sterman, M.B. (1968). Instrumental conditioning of sensorimotor cortex EEG spindles in the waking cat. *Physiol. Behav.* 3: 703-707.

Sample References for TBI

- Semyon Slobounov, Mark Hallett, Cheng Cao, Karl Newell, (2008). Modulation of cortical activity as a result of voluntary postural sway direction: An EEG study. *Neuroscience Letters* 442 (2008) 309–313
- S. Slobounova, M. Halletta, S. Stanhopec, H. Shibasaki (2005). Role of cerebral cortex in human postural control: an EEG study. *Clinical Neurophysiology* 116 (2005) 315–323
- Thompson, J., Sebastianelli, W. & Slobounov, S. (2005). EEG and postural correlates of mild traumatic brain injury in athletes. *Neuroscience Letters* (3), 158-163.
- Thompson, J. & Hagedorn D., (2012). Multimodal Analysis: New Approaches to the Concussion Conundrum. *Journal of Clinical Sport Psychology*, 6, 22-46.

Sample ERP References

- Polich, J. (2004). Clinical application of the P300 event-related brain potential. *Physical Medicine and Rehabilitation Clinics of North America*, 15(1), 133-161.
- Polich, John, (2007). Updating P300: An Integrative Theory of P3a and P3b. *Clin Neurophysiology*, October ; 118(10): 2128–2148.
- Sokhadze Estate, M., Baruth, Joshua M., Sears, Lonnie, Sokhadze, Guela E., El-Baz, Ayman S., Williams, Emily, S., Klapheke, Robert, Casanova, Manual, F., (2012). Event related potential study of regulation during illusory figure categorization task in ADHD, autism spectrum disorder and typical children. *Journal of Neurotherapy* , 16:12-31.
- Robert J. Barry*, Stuart J. Johnstone, Adam R. Clarke, (2003). A review of electrophysiology in attention-deficit/hyperactivity disorder: II. Event-related potentials. *Clinical Neurophysiology* 114: 184–198

Sample References for Asperger's, Autistic Spectrum

- Abu-Akel, A. (2003). A Neurobiological Mapping of Theory of Mind. *Brain Research Reviews*, 43, 39-40.
- Adolphs, R. (2003). Is the human amygdala specialized for processing social information? *Annals of the New York Academy of Sciences*, 985, 326.
- Adolphs, R., Gosselin, F., Buchanan, T.W., Tranel, D., Schyns, P., Damasio, A.R., (2005). A mechanism for impaired fear recognition after amygdala damage. *Nature* 433, 68.
- American Psychiatric Association. (2000) *Diagnostic and statistical manual of mental disorders - 4th edition – Text Revision*. Washington, DC.
- Asperger, H. (1944). Die “Autistischen Psychopathen” im Kindesalter. *Archiv fuer Psychiatrie und Nervenkrankheiten*, 117, 76-136. English translation (1991) Autistic psychopathy in childhood. In U. Frith (Editor and Translator) *Autism and Asperger's syndrome*. Cambridge, United Kingdom: Cambridge University Press. 37-92.
- Attwood, T. (2007). *The Complete Guide to Asperger's Syndrome*. London: Jessica Kingsley Publishers.
- Bachevalier, J. & Loveland, K. A., (2006). The orbitofrontal-amygdala circuit and self-regulation of social-emotional behavior in autism. *Neuroscience and Behavioral Reviews*, 30, 97-117.
- Dapretto, M., Davies, M. S., Pfeifer, J. H., Scott, A. A., Sigman, M., Bookheimer, S. Y., & Iacoboni, M. (2006). Understanding emotions in others: mirror neuron dysfunction in children with autism spectrum disorders. *Nature Neuroscience*, 9(1), 28-30.
- Devinsky, O., Morrell, M., & Vogt, B. (1995). Contributions of Anterior Cingulate Cortex to behaviour, *Brain*, 118, 279-306.
- Hill, E. L. & Frith, U. (2003). Understanding Autism: Insights from mind and brain. Theme Issue ‘Autism: mind and brain’. *Phil. Trans. of The Royal Society London*, Bulletin 358, 281-289.
- Iacoboni, M. & Dapretto, M. (2006). The mirror neuron system and the consequences of its dysfunction. *Nature Neuroscience*, December 2006, 942-951.
- Jarusiewicz, E. (2002). Efficacy of neurofeedback for children in the autistic spectrum: A pilot study. *Journal of Neurotherapy*, 6(4), 39-49.

- Kleinhans, N., Akshoomoff, N., & Delis, D. C. (2005). Executive Functions in Autism and Asperger's Disorder: Flexibility, Fluency, and Inhibition. *Developmental Neuropsychology*, 27(3), 379-401.
- Klin, A. & Miller, K. (2004). When Asperger's Syndrome and a Nonverbal Learning Disability Look Alike. In M. T. Stein (Ed.) *Journal of Developmental & Behavioral Pediatrics. Special Issue: Challenging Cases in Developmental & Behavioral Pediatrics*, 25(5S), S59-S64. (This reprinted article originally appeared in the *Journal of Developmental & Behavioral Pediatrics*, 25(3), 190-195.
- Mirjam E.J. Kouijzer, Jan M.H. de Moor, Berrie J.L. Gerrits, Marco Congedo, Hein T. van Schie, Neurofeedback improves executive functioning in children with autism spectrum disorders. *Research in Autism Spectrum Disorders* 3 (2009) 145–162
- Pascual-Marqui, R. D., Esslen, M., Kochi, K., & Lehmann, D. (2002). Functional Imaging with Low Resolution Electromagnetic Tomography (LORETA): A review. *Methods & Findings in Experimental & Clinical Pharmacology*, 24C, 91-95.
- Pfeifer, H., Iacoboni, M., Mazziotta, C., & Dapretto, M. (2005). Mirror neuron system activity in children and its relation to empathy and interpersonal competence. In Abstract Viewer/Itinerary Planner. *Soc. Neurosci. Abstr.* 660(24).
- Porges, S. W. (2003). Social engagement and attachment: A phylogenetic perspective. *Annals of the New York Academy of Sciences*, 1008, 31-47.
- Porges, S. W. (2004). The Vagus: A mediator of behavioral and physiologic features associated with autism. In M. L. Bauman and T. L. Kemper (Eds.) *The Neurobiology of Autism*. Baltimore: Johns Hopkins University Press, 65 – 78.
- Ramachandran, V. S. & Oberman, L. M. (2006). Broken Mirrors. *Scientific American*, 295(5), 62-69.
- Ross, E. D. (1981). The Aprosodias: Functional-Anatomic Organization of the Affective Components of Language in the Right Hemisphere. *Archives of Neurology*, 38, 561-569.
- Shamay-Tsoory, S. G., Tomer, R., Berger, B. D., Goldsher, D., & Aharon-Peretz, J. (2005). Impaired "Affective Theory of Mind" is associated with right ventromedial prefrontal damage. *Cognitive & Behavioral Neurology*. 18(1), 55-67.
- Simpson, D. (2004). Asperger's syndrome and autism: Distinct syndromes with important similarities. In Maria Rhode & Trudy Klauber (Eds) *The many faces of Asperger's syndrome. The Tavistock Clinic Series*. xviii, 302, 25-38. London, England: Karnac Books.
- Sloman, L. (2005). Medication use in children with high functioning pervasive developmental disorder and Asperger syndrome. In K. Stoddart (Ed.) *Children, Youth and Adults with Asperger Syndrome: Integrating multiple perspectives*. London: Jessica Kingsley Publishers.
- Solnick, B. (2005). Effects of electroencephalogram biofeedback with Asperger's syndrome. *International Journal of Rehabilitation Research*, 28(2), 159-163.
- Thompson, M. & Thompson, L., (2010) Functional Neuroanatomy and the Rationale for Using EEG Biofeedback for Clients with Asperger's Syndrome. *Journal of Applied Psychophysiology and Biofeedback*, 35(1), 39-61.
- Thompson, L., Thompson, M., Reid, A., (2010) Neurofeedback Outcomes in Clients with Asperger's Syndrome. *Journal of Applied Psychophysiology and Biofeedback*, 35(1) 63-81.
- Thompson, L., Thompson, M., Thompson, J., Reid, A. (2009). Biofeedback interventions for autistic spectrum disorders – an overview. *Neuroconnections* Fall edition, 14-22.,
- Knezevic, B., Thompson, L. & Thompson, M. (2010) Using the Tower of London to assess improvement after Neurofeedback training in clients with Asperger's Syndrome, *Journal of Neurotherapy*, 14.

Other

- Doidge, Norman, (2010) The Brain that Changes Itself.
- Sterman, M.B., & Wyrwicka, W. (1967). EEG correlates of sleep: Evidence for separate forebrain substrates. *Brain Res*, 6, 143-163.
- Supekar, K., Uddin, L.Q., Prater, K., Amin, H., Greicius, M.D., Menon, V., (2010). Development of functional and structural connectivity within the default mode network in young children, *J. Neuroimage* 52, :290-301
- Thatcher (2012) Handbook of Quantitative Electroencephalography and EEG Biofeedback.

Sample of Thompson's Publications

Books:

- Sears, William & Thompson, Lynda (1998) *The A.D.D. Book, New Understandings, New Approaches to Parenting Your Child*. New York: Little, Brown & Co.
- Thompson, M. & Thompson, L. (2001) *Setting up for Clinical Success with the Procomp+/Biograph*. Amsterdam: Biofeedback Foundation of Europe.
- Thompson, M. & Thompson, L. (2003) *The Neurofeedback Book: An Introduction to Basic Concepts in Applied Psychophysiology*, Wheat Ridge, CO: Association for Applied Psychophysiology. Polish translation 2012.

Chapters in Books:

- Thompson, Lynda (2001) Neurofeedback for ADD/Hyperactivity. Chapter in *The All-In-One Guide to ADD & Hyperactivity*. Niagara Falls, New York: AGES Publications.
- Thompson, Lynda (2003) Complementary Therapeutic Interventions: Neurofeedback, Metacognition, and Nutrition for Long-Term Improvement in Attention Deficit Disorder. Chapter in A. Fine & R. Kotkin (Eds.) *The Therapist's Guide to Learning and Attention Disorders*. San Diego, CA: Academic Press.
- Thompson, Lynda (2004) Electroencephalographic Applications. Module 6 in Andrew Crider, Doil Montgomery (Eds.) *Introduction to Biofeedback: An AAPB Independent Study Program*, Wheat Ridge Colorado: AAPB
- Thompson, M. & Thompson, L. (2007) Neurofeedback for Stress Management. Chapter in Paul M. Lehrer, Robert L. Woolfolk and Wesley E. Sime (Eds.) *Principles and Practice of Stress Management, 3rd Edition*. New York: Guilford Publications.
- Thompson, M. & Thompson, L., (2009) Chapter 14: Neurofeedback for ADHD. In Tom Budzynski, Helen Budzynski, James Evans, Andrew Abarbanel (Eds.), *Introduction to Quantitative EEG and Neurofeedback: Advanced Theory and Applications (Second edition)*, New York: Academic Press, 337-364.
- Thompson, M. & Thompson, L., (2009) Chapter 15: Asperger's Syndrome Intervention: Combining Neurofeedback, Biofeedback and Metacognition. In Tom Budzynski, Helen Budzynski, James Evans, Andrew Abarbanel (Eds.), *Introduction to Quantitative EEG and Neurofeedback: Advanced Theory and Applications (second edition)*, New York: Academic Press, 365-415.
- Thompson, L., Thompson, M., Thompson, J., Reid, A. (In Press). Biofeedback Interventions for Autistic Spectrum Disorders. In Mark S. Schwartz & Frank Andrasik (Editors), *Biofeedback: A Practitioner's Guide (4th Edition)*. New York: Guilford Press.
- Serman, M. B., Thompson, L. (In press) Neurofeedback for Seizure Disorders. In Evans et al (Editors)

Sample Pre-Neurofeedback:

- Thompson, M.G.G.; Patterson, P.G.R.; "The Thompson- Patterson Scale of Psychosocial Development: I; Theoretical Basis," - Canadian Journal of Psychiatry, Volume 31, Number 5, June 1986
- Love, A.J.; Thompson, M.G.G.; Language Disorders and Attention Deficit Disorders in a Child Psychiatric Outpatient Population, The American Journal of Orthopsychiatry, 58(1), January 1988.
- Thompson, M.G.G. (Editor and Major Author) (Editorial Board - Dr. S. Woods, Los Angeles; Dr. D. Langsley, Cincinnati; Dr. M. Hollander, Tennessee; Dr. F. Lowy, Toronto; Dr. H. Prosen, Manitoba; Dr. K. Rawnsley, Great Britain; Dr. R. Ball, Australia), A Resident's Guide to Psychiatric Education Plenum Publishing Company, New York, New York, 1979.
- Thompson, M.G.G.; Patterson, P.G.R., Children and Adolescents, Chapter 11, Psychiatric Illness, Harold Merskey (Ed.), London Bailliere Tindale, 3rd Edition, 1980.
- Thompson, M.G.G.; Havelkova, M., Childhood Psychosis, Psychological Problems of the Child, Paul D. Steinhauer, Quentin Rae-Grant (Editors), 293-330, 1983.
- Thompson, M. G. G. (1990). Developmental Assessment of the Preschool Child. In J. A. Stockman, (Ed.) Difficult Diagnoses in Pediatrics, W. D. Saunders Co., Harcourt Brace Jovanovich Inc. Philadelphia, Chapt. 2, 15-27

Monograph:

Thompson, M., Thompson, J., & Wu, Wenqing (2008). Brodmann Areas (BA) correlated with 10-20 sites and their primary functions. San Rafael, CA: International Society for Neurofeedback and Research.

Journal Articles:

- Thompson, L. & Thompson, M. (1998) Neurofeedback Combined with Training in Metacognitive Strategies: Effectiveness in Students with ADD. *Journal of Applied Psychophysiology and Biofeedback*, (23)4, 243-263.
- Thompson, M. & Thompson, L. (2002) Biofeedback for Movement Disorders (Dystonia with Parkinson's Disease): Theory and Preliminary Results. *Journal of Neurotherapy*, 6(4), 51-70.
- Thompson, M. & Thompson, L. (2003) Neurofeedback for Asperger's Syndrome: Theoretical Rationale and Clinical Results. *The Newsletter of the Biofeedback Society of California*, 19(1).

- Thompson, L. & Thompson, M. (2005) Neurofeedback Intervention for Adults with ADHD. *Journal of Adult Development*, (12) 2/3, 123-130.
- Thompson, M. & Thompson, L. (2006) Improving Attention in Adults and Children: Differing Electroencephalography Profiles and Implications for Training. *Biofeedback*, Fall, 2006
- Thompson, M. & Thompson, L., (2009) Systems Theory of Neural Synergy: Neuroanatomical Underpinnings of Effective Intervention Using Neurofeedback plus Biofeedback. *Journal of Neurotherapy*, (13)1, 72-74.
- Thompson, M. & Thompson, L., (2010) Functional Neuroanatomy and the Rationale for Using EEG Biofeedback for Clients with Asperger's Syndrome. *Journal of Applied Psychophysiology and Biofeedback*, 35(1), 39-61.
- Thompson, L., Thompson, M., Reid, A., (2010) Neurofeedback Outcomes in Clients with Asperger's Syndrome. *Journal of Applied Psychophysiology and Biofeedback*, 35(1) 63-81.
- Thompson, L., Thompson, M., Thompson, J., Reid, A. (2009). Biofeedback interventions for autistic spectrum disorders – an overview. *Neuroconnections* Fall edition,14-22.,
- Knezevic, B., Thompson, L. & Thompson, M. (2010) Using the Tower of London to assess improvement after Neurofeedback training in clients with Asperger's Syndrome, *Journal of Neurotherapy*, 14.
- Thompson, M., Thompson, L., Thompson, J., Hagedorn, D.,(2011) Networks: A Compelling Rationale for Combining Neurofeedback, Biofeedback and Strategies. *NeuroConnections*, Summer.
- Lynda Thompson, Michael Thompson, (2011) Beginning a Neurofeedback Combined with Biofeedback Practice, *NeuroConnections*, Fall pp 32-38.
- Lena Santhirasegaram, B.A., Lynda Thompson, Ph.D., Andrea Reid, M.A., CCC., Michael Thompson, M.D. (In Press). Training for Success in a Child with ADHD. *Biofeedback* Summer, 2013.
- Michael Thompson, M.D., Lynda Thompson, Ph.D., Andrea Reid, MA., James Thompson, Ph.D., David Hagedorn, Ph.D. (In Press). Heart–Brain Connections Underlie Effective Neurofeedback plus Biofeedback Interventions: Complex Case with Depression. *Neuroconnections* Summer, 2013.
- Reid, A., Nihon, S.,Thompson, L. & Thompson, M., (2013) The effects of heart rate variability training on sensorimotor rhythm: A pilot study *Journal of Neurotherapy: Investigations in Neuromodulation, Neurofeedback, and applied Neuroscience*, 17:1, 43-48.