



Journal of Neurotherapy: Investigations in Neuromodulation, Neurofeedback and Applied Neuroscience

News from Other Journals and Websites

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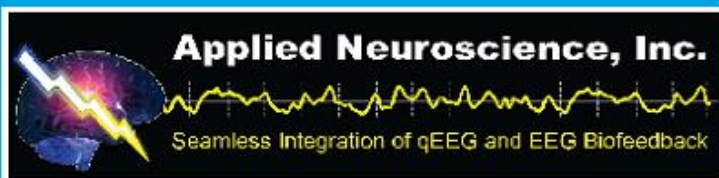
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NEWS FROM OTHER JOURNALS AND WEBSITES

David A. Kaiser, PhD, Editor

NEUROFEEDBACK

Here is a summary of neurofeedback papers recently published in other journals.

Busse, M., Low, Y. F., Corona-Strauss, F. I., Delb, W., & Strauss, D. J. (2008). Neurofeedback by neural correlates of auditory selective attention as possible application for tinnitus therapies. *Conference Proceedings, IEEE Engineering Medical & Biological Society, 2008*, 5136–5139.

Operant conditioning of wavelet phase synchronization measure might be useful in treating tinnitus.

Cannon, R., Congedo, M., Lubar, J., & Hutchens, T. (2009). Differentiating a network of executive attention: LORETA neurofeedback in anterior cingulate and dorsolateral prefrontal cortices. *International Journal of Neuroscience, 119*, 404–441.

LORETA neurofeedback appeared to enhance functioning of specific networks of cortical units in this initial evaluation of this technique in healthy adults.

Cho, M. K., Jang, H. S., Jeong, S. H., Jang, I. S., Choi, B. J., & Lee, M. G. (2008). Alpha neurofeedback improves the maintaining ability of alpha activity. *Neuroreport, 19*, 315–317.

Alpha neurofeedback training was found to enhance maintenance of alpha activity rather than increase alpha amplitude between sessions.

Doehnert, M., Brandeis, D., Straub, M., Steinhausen, H. C., & Drechsler, R.

(2008). Slow cortical potential neurofeedback in attention deficit hyperactivity disorder: Is there neurophysiological evidence for specific effects? *Journal of Neural Transmission, 115*, 1445–1456.

Slow cortical potential neurofeedback improved selected attentional brain functions in children with attention deficit hyperactivity disorder as measured with baseline quantitative EEG or contingent negative variation mapping.

Gevensleben, H., Holl, B., Albrecht, B., Vogel, C., Schlamp, D., Kratz, O., et al. (2009). Is neurofeedback an efficacious treatment for ADHD? A randomised controlled clinical trial. *Journal of Child Psychology & Psychiatry*. [Online].

A study of 102 children with ADHD underwent either 36 sessions of neurofeedback or a computerised attention skills training. Neurofeedback training consisted of theta/beta training, slow cortical potential training, or both. For parent and teacher ratings, improvements in the neurofeedback group were superior to those of the control group.

Gruzelier, J. (2009). A theory of alpha/theta neurofeedback, creative performance enhancement, long distance functional connectivity and psychological integration. *Cognitive Processes (Suppl. 1)*, S101–S109.

The author summarizes the effects of alpha-theta training to enhance artistic performance and psychological integration.

Jensen, M. P., Hakimian, S., Sherlin, L. H., & Fregni, F. (2008). New insights into neuro-modulatory approaches for the treatment of pain. *Journal of Pain, 9*, 193–199.

If chronic pain is linked to cortical activity assessable with EEG, neuromodulatory interventions should prove helpful.

Markovska-Simoska, S., Pop-Jordanova, N., & Georgiev, D. (2008). Simultaneous EEG and EMG biofeedback for peak performance in musicians. *Prilozi*, 29, 239–252.

Alpha peak frequency partly modulated the success of biofeedback on peak performance measures.

Thornton, K. E., & Carmody, D. P. (2009). Traumatic brain injury rehabilitation: QEEG biofeedback treatment protocols. *Applied Psychophysiology & Biofeedback*, 34, 59–68.

Quantitative EEG patterns were reviewed for traumatic brain injury during eyes closed rest and during cognitive task engagement.

Walker, J. E. (2008). Power spectral frequency and coherence abnormalities in patients with intractable epilepsy and their usefulness in long-term remediation of seizures using neurofeedback. *Clinical EEG and Neuroscience*, 39, 203–205.

A review of neurofeedback training for intractable epileptic patients. It was found that when most power and coherence abnormalities were normalized, patients typically became seizure-free and many no longer required anticonvulsant medication for seizure control.

WEBSITES

There are now 76 Yahoo! groups associated with neurofeedback. What a change from 10 years ago when only one newsletter existed for this field. Here are some of the best online resources available for neurotherapists and other professionals.

CogPrints: Self-archive papers in psychology, neuroscience, and linguistics, and many areas of Computer Science, Philosophy, Biology, Medicine, Anthropology, and other disciplines relevant to the study of cognition.

<http://cogprints.org/>

arXiv: Open access to 500K+ e-prints in Physics, Mathematics, Computer Science, Quantitative Biology, and Statistics.

<http://xxx.lanl.gov>

Behavioral and Brain Sciences: Interdisciplinary journal of “open peer commentary” in which target articles are interdisciplinary and by nature controversial, encompassing topics from psychology, neuroscience, philosophy, and related fields. Prior to publication, articles are circulated to specialists around the world for commentaries, which appear after the target article along with author’s response.

<http://www.bbsonline.org/>

Google: Search Google’s index for PDF files, how most authors maintain their papers on the Web. For instance, I found 1,600,000 papers for EEG in this format.

http://www.google.com/search?as_filetype=pdf

Additional Resources

- Neurofeedback Groups: <http://groups.yahoo.com/search?query=neurofeedback>
- Medline Citations: <http://www.ncbi.nlm.nih.gov>
- Neuroscience Introduction: <http://faculty.washington.edu/chudler/neurok.html>
- Brain Research News: http://www.sciencedaily.com/news/mind_brain/neuroscience/
- EEG News: <http://news.google.com/news?q=eeg>
- Psychology in the News: <http://www.psychwatch.com/news.htm>
- BrainInfo (includes links to numerous atlases): <http://braininfo.rprc.washington.edu/>
- Sylvius (Brain function atlas): <http://www.sylvius.com>
- Knowledge Network: <http://www.nytimes.com/college/>
- Scientific Articles: <http://scholar.google.com>
- Wikipedia: <http://en.wikipedia.org>

- Free Net-Phone: <http://www.skype.net>
- WebUnyte: <http://www.unyte.net>
- Great Music: <http://www.mydrivefm.com>
- E-mail: <http://mail.yahoo.com>, <http://www.hotmail.com>, <http://www.gmail.com>
- Quotes: <http://www.quotationspage.com>
- Software: <http://www.tucows.com>, www.download.com
- Online Newspapers: <http://www.metagrid.com>, <http://www.onlinenewspapers.com/>
- Discussion Groups: <http://groups.yahoo.com>
- Images: <http://images.google.com>
- Time: <http://www.arachnoid.com/abouttime>
- Statistics Online: <http://faculty.vassar.edu/lowry/VassarStats.html>
- Dictionary: <http://www.m-w.com>
- Synonyms: <http://vancouver-webpages.com/synonyms.html>
- Translation Tools: <http://babelfish.yahoo.com>, http://www.google.com/language_tools
- Psycholinguistic Tools: http://www.psy.uwa.edu.au/mrcdatabase/uwa_mrc.htm
- Google Book Search (search inside the full text of books): <http://books.google.com/>
- Science & Culture Debates: <http://www.ingenious.org.uk/>
- One-page Reference Desk: <http://www.refdesk.com/>
- APA Style: <http://www.wooster.edu/psychology/apa-crib.html>