NeuroRegulation

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Welcome to *NeuroRegulation*, Volume 3, Number 3. We have experienced a growing interest by both clinicians and researchers submitting quality works to our journal and hope to see this trend continue. Since our last issue a search on the term "neurofeedback" in Pubmed returned 870 articles, a more recent search showed 973 publications. Neurofeedback as a learning procedure for improving human performance and reducing symptoms associated with clinical syndromes is gaining a high degree of interest, as well as functional applications.

During my time in graduate school the function of learning to change the brain was not a topic of extreme interest, except in our laboratory. Today, it has become clear that methods used in the past must be enhanced as our knowledge of the brain and learning continue to advance. Additionally, technology is advancing at a high degree, improving the likelihood that successful brain computer interfaces will enhance learning and human performance at an exponential rate. We can all benefit from learning to change and regulate our brain!

NeuroRegulation will continue to be at the forefront of publishing data concerning neurofeedback and self-regulation. The world is desperate for an alternative solution to the current model of psychiatric/psychological treatment and a model that maintains an evidence based solution space, which to date is problematic and uncertain, even more so when the topic is focused on long-term outcomes (Palermo, 2014; Roberts, Blossom, Evans, Amaro, & Kanine, 2016; Rousseau & Gunia, 2015; Stringaris, 2014). In the current issue authors utilize a variety of novel techniques and report interesting findings. Estate M. Sokhadze, Manuel F. Casanova, Ayman S. El-Baz, Heba Elsayed Farag, Xiaoli Li, and Yao Wang present data demonstrating the effects of transcranial magnetic stimulation (TMS)-based neuromodulation of evoked and induced gamma oscillations and event-related potentials in children with autism. It appears, as least by information presented, that gamma power may prove important to understanding and better treating the specific symptoms involved in autism spectrum disorders (ASD). Then, San-Yu Wang, I-Mei Lin, Erik Peper, Yu-Ting Chen, Tze-Chun Tang, Yi-Chun Yeh, Yu-Che Tsai, and Che-Cheng Chu present pilot data on the effects of neurofeedback training targeting alpha asymmetry in major depressive disorder. Finally, Keren Avirame, Limor Nuss, and Doron Todder present data utilizing neurofeedback training during sleep in a patient with severe autism. This novel approach may prove very useful in delivering neurofeedback techniques in ASD with severe symptoms.

NeuroRegulation thanks these authors for their valuable contributions to the scientific literature for neurofeedback and quantitative EEG. We strive for high-quality and interesting empirical topics. We encourage the members of ISNR and other biofeedback and neuroscience disciplines to consider publishing with us. It is important to stress that publication of case reports is always useful in furthering the advancement of an intervention for both clinical and normative functioning. Thus, we encourage all individuals practicing neurofeedback to submit case studies! We thank you for reading *NeuroRegulation*!

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