



M Windy McNerney, PhD

- Clinical Assistant Professor (Affiliated) [Vapahcs], Psych/General Psychiatry and Psychology (Adult)
- Staff, Psych/Public Mental Health & Population Sciences

Bio

BIO

Dr. M. Windy McNerney is Research Health Specialist in the MIRECC the VA Palo Alto, and a Clinical Assistant Professor (Affiliated) at Psychiatry and Behavioral Sciences at Stanford School of Medicine. She earned her PhD from the University of Notre Dame, went on to a postdoctoral position and Lawrence Livermore National Laboratory (DOE), and then completed fellowship at the WRIISC program at the VA and Stanford University.

Dr. McNerney is primarily interested in the neurophysiology and biochemistry of brain and mental health diseases, especially degenerative diseases, depression, TBI, PTSD, and addiction. She is collaborating with researchers to integrate brain imaging and biochemical markers in hopes to better understand these diseases. She also is taking a lead role in investigating the biochemistry of magnetic brain stimulation. She is currently teaching two classes at Stanford, entitled "Addictions in Our World: From Physiology to Human Behavior," and "The Opioid Epidemic: Using Neuroscience to Inform Policy and Law", which discuss the societal implications of addiction from a neurophysiological prospective.

Selected Publications:

McNerney, M. W., Hobday, T., Cole, B., Ganong R., Winas, N., Matthews, D., Hood, J., & Lane, S. (2019). Objective classification of mTBI using machine learning on a combination of frontal electroencephalography measurements and self-reported symptoms. *Sports Medicine Open*, 4, 14.

Heath, A., Taylor, J.L., & McNerney, M. W. (2018). rTMS for Alzheimer's diseases: where should we be stimulating? *Expert Rev Neurother*, 18, 903.

McNerney, M. W., Sheng, T., Nechvatal, J. M., Lee, A. G., Lyons, D. M., ... Adamson, M. M. (2018). Integration of neural and epigenetic contributions to posttraumatic stress symptoms: The role of hippocampal volume and glucocorticoid receptor gene methylation. *PLOS ONE*, e0192222.

Mi, Z., Biswas, K., Fairchild, K., Davis-Karim, A., Phibbs, C., Forman, S., Thase, M., Georgette, G., Beale, R., Pittman, D., McNerney, M. W., Rosen, A., Huang, G., George, M., Noda, A., & Yesavage, J. (2017). Repetitive transcranial magnetic stimulation (rTMS) for treatment-resistant major depression (TRMD) patients: Rational and design of a trial focusing on Veterans. *Trails*, 18, 409.

Bennion, B. J., Be, N. A., McNerney, M. W., Lao V., Carlson E., Valdez, C. A., et al. (2017). Predicting a drug's membrane permeability: A computational model validated with in vitro permeability assay data. *Journal of Physical Chemistry, B*, 121, 5228-5237.

Ghasemi, M., Phillips C., Fahimi, A., McNerney M. W., & Salehi, A. (2017). Mechanisms of action and clinical efficacy of NMDA receptor modulators in mood disorders. *Neuroscience & Biobehavioral Reviews*, 13, 555-572.

See more publications at: https://www.ncbi.nlm.nih.gov/pubmed/?term=McNerney%20MW%5BAuthor%5D&cauthor=true&cauthor_uid=17107728