



Richard John Maddock, M.D., M.S.

Philosophy of Care	Anxiety disorders can greatly diminish a person's quality of life. Many factors are known that predispose to anxiety and others are known that support recovery and resilience. With a thorough evaluation, an effective strategy for promoting recovery can usually be identified.
Clinical Interests	Dr. Maddock is an adult psychiatrist who specializes in anxiety disorders, such as panic disorder, agoraphobia, social anxiety disorder and generalized anxiety disorder.
Research/Academic Interests	Dr. Maddock's research uses brain imaging methods to study brain metabolism and brain circuit functions as they pertain to understanding psychiatric disorders, their prevention, and their treatment. Dr. Maddock's academic interests include teaching about anxiety disorders and about how the brain works, for both academic and general public audiences.
Title	Professor, Department of Psychiatry and Behavioral Sciences
Specialty	Psychiatry
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Education	M.D., UC Davis, Davis CA 1982 M.S., Physiology, UC Davis, Davis CA 1975 B.A., Psychology, UC Davis, Davis CA 1970
Internships	General Medicine/Psychiatry, Stanford University, Stanford CA 1982-1983
Residency	Psychiatry, Stanford University, Stanford CA 1983-1986
Fellowships	Biological Psychiatry, Stanford University, Stanford CA 1985-1986
Board Certifications	American Board of Psychiatry and Neurology, Psychiatry
Honors and Awards	UC Davis Department of Psychiatry Outstanding Faculty Award, 1999, 2017



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Charter Member NIH study section: Biobehavioral Mechanisms of Emotion, Stress & Health, 2007, 2008, 2009, 2010

UC Davis Health System Research Award, 1998

Hibbard E. Williams Research Award, UC Davis Medical Center, 1994

Alpha Omega Alpha Honor Medical Society, 1981

Select Recent Publications

To view a detailed list of Dr. Maddock's publications, please [click here](#).

Smucny J, Carter CS, Maddock RJ. Medial Prefrontal Cortex Glutamate Is Reduced in Schizophrenia and Moderated by Measurement Quality: A Meta-analysis of Proton Magnetic Resonance Spectroscopy Studies. *Biol Psychiatry*. 2021 Nov 1;90(9):643-651. doi:10.1016/j.biopsych.2021.06.008. Epub 2021 Jun 12. PMID:34344534.

Lesh TA, Maddock RJ, Howell A, Wang H, Tanase C, Daniel Ragland J, Niendam TA, Carter CS. Extracellular free water and glutathione in first-episode psychosis-a multimodal investigation of an inflammatory model for psychosis. *Mol Psychiatry*. 2021 Mar;26(3):761-771. doi:10.1038/s41380-019-0428-y. Epub 2019 May 28. PMID:31138893.

Yoon JH, Grandelis A, Maddock RJ. Dorsolateral prefrontal cortex GABA concentration in humans predicts working memory load processing capacity. *J Neuroscience*. 2017 Nov 16;36(46):11788-11794. doi:10.1523/JNEUROSCI.1970-16.2016

Maddock RJ, Casazza GA, Fernandez DH, Maddock MI. Acute Modulation of Cortical Glutamate and GABA Content by Physical Activity. *J Neurosci*. 2016 Feb 24;36(8):2449-57. doi:10.1523/JNEUROSCI.3455-15.2016. PMID:26911692.

Maddock RJ, Garrett AS, Buonocore MH. Posterior cingulate cortex activation by emotional words: fMRI evidence from a valence decision task. *Hum Brain Mapp*. 2003 Jan;18(1):30-41. doi:10.1002/hbm.10075. PMID:12454910.



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Davidson J, Pearlstein T, Lonnberg P, Brady KT, Rothbaum B, Bell J, Maddock R, Hegel MT, Farfel G. Efficacy of sertraline in preventing relapse of posttraumatic stress disorder: results of a 28-week double-blind, placebo-controlled study. *Am J Psychiatry*. 2001 Dec;158(12):1974-81. doi:10.1176/appi.ajp.158.12.1974. PMID:11729012.

Maddock RJ. The lactic acid response to alkalosis in panic disorder : an integrative review. *J Neuropsychiatry Clin Neurosci*. 2001 Winter;13(1):22-34. doi:10.1176/jnp.13.1.22. PMID:11207326.

Maddock RJ, Buonocore MH, Copeland LE, Richards AL. Elevated brain lactate responses to neural activation in panic disorder: a dynamic 1H-MRS study. *Mol Psychiatry*. 2009 May;14(5):537-45. doi:10.1038/sj.mp.4002137. Epub 2008 Jan 8. PMID:18180759.

Yoon JH, Maddock RJ, Rokem A, Silver MA, Minzenberg MJ, Ragland JD, Carter CS. GABA concentration is reduced in visual cortex in schizophrenia and correlates with orientation-specific surround suppression. *J Neurosci*. 2010 Mar 10;30(10):3777-81. doi:10.1523/JNEUROSCI.6158-09.2010. PMID:20220012.

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