



## John Michael Olichney, M.D.

### Philosophy of Care

Dr. Olichney specializes in cognitive disorders and neurodegenerative diseases such as Alzheimer's disease. His philosophy is to provide individualized, comprehensive neurological care to each of his patients. His research interests include EEG, ERP and fMRI studies of language and memory, and clinical treatment trials for Alzheimer's disease.

### Clinical Interests

John Olichney is a board-certified behavioral neurologist who specializes in diagnosis, treatment and study of memory and other cognitive disorders, and age-associated neurodegenerative diseases such as Alzheimer's disease. He is the clinical core director of the UC Davis Alzheimer's Disease Research Center (ADRC).

### Research/Academic Interests

Dr. Olichney conducts research examining the mechanisms of language and memory using neuroimaging techniques. His laboratory is developing electrophysiological and neuroimaging techniques sensitive to the memory and language impairments that are characteristic of Alzheimer's disease and other neurodegenerative disorders.

**Title** Professor, Department of Neurology

**Specialty** Neurology, Behavioral Medicine, Cognitive Neuroscience

**Department** [Neurology](#)

**Division** Neurology

**Clinic** UC Davis Medical Group, Sacramento - Midtown

**Center/Program Affiliation** [UC Davis Medical Group](#)

**Address/Phone** UC Davis Midtown Ambulatory Care Center, Midtown Neurology Clinic, 3160 Folsom Blvd Suite 2100 Sacramento, CA 95816

**Phone:** 916-734-3588

**Additional Phone** Physician Referrals: 800-4-UCDAVIS (800-482-3284)

**Languages** Spanish

**Education** M.D., UC Irvine College of Medicine, Irvine CA 1988  
B.A., UC Berkeley, Berkeley CA 1983

**Internships** Internal Medicine, John A. Burns School of Medicine, University of Hawaii at Manoa, Honolulu HI 1988-1989



## John Michael Olichney, M.D.

- Residency** Neurology, UC San Diego Medical Center, San Diego CA 1989-1992
- Fellowships** Geriatric Neurology, San Diego Veterans Affairs, San Diego CA 1992-1994  
Neuroscience, San Diego Veterans Affairs, San Diego CA 1994-1995
- Board Certifications** American Board of Psychiatry and Neurology - Neurology  
United Council for Neurologic Subspecialties - Behavioral Neurology
- Professional Memberships** American Academy of Neurology  
Center for Mind & Brain (Faculty Group)  
Society for Neuroscience  
UC Davis Neuroscience Graduate Group  
UC Davis Psychology Graduate Group
- Honors and Awards** NARSAD Young Investigator Award, 1997-1999, 2000, 2001, 2002, 2003  
NIH Physician Scientist Award (National Institute on Aging), 1995, 1996, 1997, 1998, 1999, 2000, 2001  
Honors in Neurology Research, 1987  
Honors in Clinical Neurology Clerkship, 1987  
Letter of Commendation for Outstanding Performance in Neuroanatomy, 1984
- Select Recent Publications** Li W, Kutas M, Gray JA, Hagerman RH, Olichney JM. The Role of Glutamate in Language and Language Disorders - Evidence from ERP and Pharmacologic Studies. *Neurosci Biobehav Rev.* 2020 Oct 9;119:217-241. doi:10.1016/j.neubiorev.2020.09.023. Epub ahead of print. PMID: 33039453.
- Mazaheri A, Segaert K, Olichney J, Yang JC, Niu YQ, Shapiro K, Bowman H. EEG oscillations during word processing predict MCI conversion to Alzheimer's disease. *Neuroimage: Clinical.* 2017 Oct 9;17:188-197. doi:10.1016/j.nicl.2017.10.009. PMID:29159036.
- Miller JW, Harvey DJ, Beckett LA, Green R, Farias ST, Reed BR, Olichney JM, Mungas DM, DeCarli C. Vitamin D Status and Rates of Cognitive Decline in a Multiethnic Cohort of Older Adults. *JAMA Neurol.* 2015 Nov;72(11):1295-303. doi:10.1001/jamaneurol.2015.2115. PMID:26366714.
- Yang JC, Niu YQ, Simon C, Chen L, Seritan A, Schneider A, Torabi Moghaddam S, Hagerman PJ,



## John Michael Olichney, M.D.

Hagerman RJ, Olichney JM. Memantine Effects on Verbal Memory in FXTAS: a Double-blind Brain Potential Study. *Neuropsychopharmacology*. 2014 Nov;39(12):2760-8. doi:10.1038/npp.2014.122. Epub 2014 May 29. PMID:24871547.

Zhang L, Sukharev D, Schneider A, Olichney JM, Seritan A, Hagerman RJ. Case report: Dystonia in a fragile X carrier. *Mov Disord*. 2014 Jun;29(7):E4-5. doi:10.1002/mds.23600. Epub 2011 Apr 5. PMID:21469199.

Yang JC, Chan SH, Khan S, Schneider A, Nanakul R, Teichholtz S, Niu YQ, Seritan A, Tassone F, Grigsby J, Hagerman PJ, Hagerman RJ, Olichney JM. Neural substrates of executive dysfunction in fragile X-associated tremor/ataxia syndrome (FXTAS): a brain potential study. *Cereb Cortex*. 2013 Nov;23(11):2657-66. doi:10.1093/cercor/bhs251. Epub 2012 Aug 23. PMID:22918986.

Farias ST, Mungas D, Reed B, Carmichael O, Beckett L, Harvey D, Olichney J, Simmons A, DeCarli C. Maximal brain size remains an important predictor of cognition in old age, independent of current brain pathology. *Neurobiol Aging*. 2012 Aug;33(8):1758-68. doi:10.1016/j.neurobiolaging.2011.03.017. Epub 2011 May 4. PMID:21531482.

Yang J-C, Taylor JR, Chan S, Salmon DP, Iragui-Madoz V, Kutas M, Olichney JM. fMRI Congruous Word Repetition Effects Show Loss of Hemispheric Encoding/Retrieval Asymmetry in MCI. Presented at the 18th Annual Human Brain Mapping (OHBM), Beijing China. 2012 June. (abstract; ePub: <https://ww4.aievolution.com/hbm1201/index.cfm?do=abs.viewAbsabs=5892>).

Zhang L, Pak J, Ortigas M, Olichney JM, Wheelock V, Frysinger R, Harrison M, Cornman E, Hagerman R. Case report: Deep brain stimulation of Vim improves FXTAS tremor and ataxia. *Neurology*. 2011;76:(suppl 4):A399. (abstract).

Kaur B, Harvey D, DeCarli C, Sabbagh M, Olichney JM. Measurable Parkinsonism in Clinically Diagnosed Alzheimer's Disease: Associated with Mixed Neuropathologies. *Neurology*. 2011;76:



## John Michael Olichney, M.D.

(suupl 4):A622. (abstract).

© 2022 UC Regents