

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
Emeritus Professor, Department of Neurology

Specialty
Neurology, Behavioral Medicine, Cognitive Neuroscience

Department
Neurology

Division
Neurology

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

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 Dieto CA 1994-1995

Board Certifications
American Board of Psychiatry and Neurology - Neurology

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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, 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.

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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), Bejing 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: (suupl 4):A622. (abstract).

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