

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Bunney, William E.		POSITION TITLE Distinguished Professor	
eRA COMMONS USER NAME (credential, e.g., agency login)			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	MM/YY	FIELD OF STUDY
Oberlin College	B.A.	1952	Pre-Med
University of Pennsylvania Medical School Philadelphia, PA	M.D.	1956	Medicine
Yale University Medical School		1960	Residency in Psychiatry

A. Personal Statement

William Bunney, M.D. is a Distinguished Professor with the Department of Psychiatry and Human Behavior, School of Medicine at the University of California, Irvine (UCI). He has conducted investigations in the diagnosis, treatment, pathophysiology, genetics, and imaging studies of major psychiatric disorders including investigations relevant to the etiology, diagnosis and treatment of childhood mental illnesses. His initial work was carried out at the National Institute of Mental Health and then continued at the School of Medicine, University of California, Irvine. At UCI he directed a Conte Center for 10 years. Over the last 19 years, he has received NIH and Foundation funding for a human brain bank which includes high quality tissue from psychiatric disorders, and controls.

B. Position and Honors

Positions and Employment

- 1960 - 1962 Clinical Associate (Commissioned Officer), Section on Psychosomatic Medicine, Adult Psychiatry Branch, National Institute of Mental Health (NIMH), Bethesda, MD
- 1962 - 1966 Project Chief, Studies of Biochemical and Behavioral Factors in Depressive Reactions, Section on Psychosomatic Medicine, Adult Psychiatry Branch, NIMH, Bethesda, MD
- 1966 - 1968 Chief, Section Psychosomatic Medicine, Adult Psychiatry Branch, NIMH, Bethesda, MD
- 1968 - 1971 Chief, Section on Psychiatry, Laboratory of Clinical Science, NIMH
- 1971 - 1973 Director, Division of Narcotic Addiction and Drug Abuse, NIMH
- 1973 - 1982 Chief, Biological Psychiatry Branch (formerly Adult Psychiatry Branch), NIMH
- 1977 - 1981 Deputy Clinical Director, Division of Clinical and Behavioral Research, NIMH
- 1981 - 1982 Acting Director, Intramural Research Program, NIMH
- 1982 - 1991 Chairman, Department of Psychiatry, School of Medicine, UC Irvine
- 1982 - Present Professor, Department of Psychiatry, School of Medicine, UC Irvine
- 1991 - 1998 Director of Research, Department of Psychiatry, School of Medicine, UC Irvine
- 1985 - Present Distinguished Professor, Department of Psychiatry, School of Medicine, UC Irvine

Positions and Employment (continued)

1995 – Present Della Martin Chair, Psychiatry
1998 – 2007 Academic Co-Chairman, Department of Psychiatry, School of Medicine, UC Irvine
2007 - 2010 Senior Associate Dean for Research, School of Medicine, UC Irvine
2010 - 2011 Associate Dean for Research Administration and Development, UC Irvine

Honors

1969 APA Hofheimer Research Award -- Honorable Mention
1970 First Place Research Award from the Division of Psychopharmacology of the American Psychological Association
1970 Rush Gold Medal Award, American Psychiatric Association
1971 APA Hofheimer Research Award -- First Place
1971 DHEW Superior Service Award
1976 The McAlpin Mental Health Association Research Achievement Award
1977 Taylor Manor Hospital Psychiatric Award
1977 Public Health Service, Distinguished Service Medal
1997 Exemplary Psychiatrist Award, (NAMI)
1986 Elected Member of the Institute of Medicine
2001 Designated Lifetime National Associate of the National Academies
2001 Nola Maddox Falcone Prize for Outstanding Achievement in Affective Illness Research (NARSAD)
2007 Earl Usdin Research Award, West Coast College of Biological Psychiatry (WCCBP)
2008 1st Annual Chair Achievement Award at the Psychiatric Chairs Summit
2011 Institute of Medicine (IOM)/National Academy of Sciences (NAS) Co-Recipient of the Bernard and Rhoda Sarnat International Prize in Mental Health
2012 Pioneer Award, Collegium Internationale Neuropsychopharmacologicum (CINP)
2013 Distinguished Alumni Award, Department of Psychiatry, School of Medicine, Yale University

Selected Scientific Membership

1978 – Present Member, Mental Health Advisory Council, World Health Organization (WHO)
1986 President, American College of Neuropsychopharmacologists (ACNP)
1986 Scientific Advisor of Max Planck Institute
1986 - 1988 President, Collegium Internationale NeuroPsychopharmacologicum (CINP)
1986 – Present Institute of Medicine/National Academy of Sciences
2001 Designated Lifetime National Associate, National Academy of Sciences

National Scientific Advisory Boards

1987 - Present National Alliance for Research in Schizophrenia and Depression (NARSAD), (Brain and Behavior Research Foundation)
1987 - 2003 Depression and Bipolar Support Alliance DBSA (formerly the National Depressive and Manic-Depressive Association NDMDA)
1993 - 1995 Extramural Science Advisory Board, National Institute of Mental Health
1997 - 2002 Governing Board of the WCBR Neuroscience Organization

National Scientific Advisory Boards (continued)

1997 - 2004 Nancy Pritzker Depression Network Scientific Advisory Board
1997 - 1998 NIMH Scientific Advisory Group for the Extramural Research Division
1997 - 2003 Scientific Advisory Board for the National Autism Society
2003 – 2007 Appointed Executive Vice President, National Academies Corporation
1997 - Present Scientific Advisory Board for the Harvard International Brain Repository

C. Selected Peer-Reviewed Publications (Selected from 430 peer-reviewed articles)

1. Bellet MM, Vawter MP, Bunney BG, Bunney WE, Sassone-Corsi P. Ketamine Influences CLOCK:BMAL1 Function Leading to Altered Circadian Gene Expression. PLoS ONE 11-13223R1 10.1371/journal.pone.0023982. Aug 2011.
2. Mee S, Bunney BG, Bunney WE, Hetrick W, Potkin SG, Reist C. Assessment of psychological pain in major depressive episodes. Journal of Psychiatric Research. Doi:10.1016/j.psychires .2011.06.011. November 2011.
3. Bunney BG, Bunney WE. Rapid-Acting antidepressant strategies: mechanisms of action. Intl Journal of Neuropsychopharmacology Vol 15, Issue 5, Pages 695-713, DOI: 10.1017/S1461145711000927. June 2012.
4. Bunney BG, Bunney WE. Mechanisms of Rapid Antidepressant Effects of Sleep Deprivation Therapy: Clock Genes and Circadian Rhythms. Biol Psychiatry. August 2012.
5. Patterson JV, Sandman CA, Jin Y, Kemp AS, Potkin SG, Bunney WE, Jr. Gating of a novel brain potential is associated with perceptual anomalies in bipolar disorder. Bipolar Disorders. 2013;15(3):314-25.
6. Medina A, Seasholtz AF, Sharma V, Burke S, Bunney W, Jr., Myers RM, et al. Glucocorticoid and mineralocorticoid receptor expression in the human hippocampus in major depressive disorder. Journal of psychiatric research. 2013;47(3):307-14.
7. Li JZ, Bunney BG, Meng F, Hagenauer MH, Walsh DM, Vawter MP, Evans SJ, Choudary PV, Cartagena P, Barchas JD, Schatzberg AF, Jones EG, Myers RM, Watson SJ, Akil H, Bunney WE. Circadian patterns of gene expression in the human brain and disruption in major depressive disorder. PNAS / doi:10.1073/ PNAS 1305814110, May 2013.
8. Bharadwaj R, Jiang Y, Mao W, Dincer A, Krueger W, Garbett K, Whittle C, Singh JT, Sequeira P, Bunney WE., Vawter M, Gardner P, Liu J, Rasmussen T, Mirnics K, Casaccia P, Futai K, Akbarian S, and Jakovcevski M. Conserved chromosome 2q31 conformations are associated with transcriptional regulation of GAD1 GABA synthesis enzyme and altered in prefrontal cortex of subjects with schizophrenia. Journal of Neuroscience, July 2013 [Paper #JN-RM-1252-13R1].
9. Seese RR, Chen LY, Cox CD, Schultz D, Babyan AH, Bunney WE, Henn FA, Gall CM, and Lynch G. Synaptic Abnormalities in the Infralimbic Cortex of a Model of Congenital Depression. The Journal of Neuroscience, August 2013. [33-(33):13441-13448]
10. Lee SH, Ripke S, Neale B, Faraone SV, Purcell SM, Perlis RH, Mowry BJ, Thapar A, Goddard ME, Bloss CS, Boehnke M, Boomsma DI, Breen G, Breuer R, Bruggeman R, Buccola NG, Buitelaar JK, Bunney WE, et al. Genetic relationship between five psychiatric disorders estimated from genome-wide SNPs. Group Author(s): Cross-Disorder Grp Psychiat Genomi; Int Inflammatory Bowel Dis Genetic. Nature Genetics. Volume: 45 Issue: 9 Pages: 984-+ DOI: 10.1038/ng.2711 September 2013

D. Research Support

Ongoing Research Support

Pritzker Family Philanthropic Fund Akil (PI) 12/01/00-01/31/11; 02/01/11 – 01/31/17
Genetic and Neuropathological Abnormalities in Neuropsychiatric Disorders
This research program is focused on the investigation of the pathophysiology of mood disorders.
Role: Co-PI

R01 MH-08580 Vawter (PI) 07/01/09-03/31/14
Mitochondrial Abnormalities in Schizophrenia and Bipolar Disorder
This research program is focused on determining mitochondrial sequence variation, functional assays, and implications for GWAS of bipolar disorder and schizophrenia.
Role: Co-Investigator

Completed Research Support

P50-MH60398 Bunney (Director) 09/01/99-08/31/04 and 09/01/04-08/31/09
Genomic Studies in Bipolar and Major Depression
This research program was focused on the discovery of etiologically relevant differentially expressed genes in postmortem brain tissue from depressed patients and individually matched controls utilizing a cDNA microarray high throughput technology.
Role: Director and PI

DARPA (Defense Advanced Research Projects Agency) Fallon (PI) 09/01/05 – 08/31/07
Development of a Neuro-microelectrode Interface for a Prosthetic Arm and Hand
The major goal of this project was to develop a technology for connectivity and communication between neuronal elements in the shoulder with smart arm-limb prostheses.
Role: Co-Investigator