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Principal Investigator/Program Director (Last, first, middle):

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.
Follow the sample format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Holschneider, Daniel P.	POSITION TITLE Associate Professor, Depts. of Psychiatry, Neurology, Cell and Neurobiology
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EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
The Johns Hopkins University, Baltimore, MD	B.A.	1984	Chemistry
University of North Carolina at Chapel Hill, NC	M.D.	1988	Medicine
Mount Zion Hospital (UCSF), San Francisco, CA	Internship	1990	Internal Medicine
University of California at Los Angeles (UCLA)	Residency	1993	Psychiatry
University of California at Los Angeles (UCLA)	Fellowship	1994	Geriatric Psychiatry

NOTE: The Biographical Sketch may not exceed four pages. Items A and B (together) may not exceed two of the four-page limit. Follow the formats and instructions on the attached sample.

A. POSITIONS AND HONORS

Positions and Employment

- 1986 - 1988 Teaching Assistant Organic Chemistry Laboratory, Johns Hopkins University, Baltimore, MD
1988 - 1989 Research Associate, Howard Hughes Medical Institute (UCSF). San Francisco, CA
1994 -1996 Clinical Instructor, Dept. of Psychiatry, University of California at Los Angeles (UCLA)
1994 - pres. Psychiatry Research Service, VA Medical Center, West LA (GLAHS), Los Angeles, CA
1996 – 2002. Assistant Professor, Dept. of Psychiatry and Dept. of Neurology, University of Southern California (USC), Los Angeles, CA
2002 – pres. Associate Professor, Dept. of Psychiatry, Dept. of Neurology, Dept. of Cell and Neurobiology, University of Southern California (USC), Los Angeles, CA

Certification

- 1994 Diplomate in Electroencephalography, Americ. Board of Electroencephalography and Neurophysiology
1995 Diplomate in Psychiatry (Certif. No 40987), Americ. Board of Psychiatry & Neurology
1996 Added Qualifications in Geriatric Psychiatry (Certif. No. 1934), Americ. Board of Psychiatry & Neurology
1998 Added Qualifications in Addiction Psychiatry (Certif. No 1623), Americ. Board of Psychiatry & Neurology

Honors and Awards

- 1984 B.A. Chemistry with Honors, Johns Hopkins University, Baltimore, MD
1993 -1996 Neuroscience & Traumatic Brain Injury Fellow, US Veterans Administration
1994, 1995 Fellow, National Epilepsy Foundation (NEF)
1993 -1995 Research Fellow, Pfizer/American Geriatrics Society
1996 Award for Outstanding Research, UCLA Research Conference on Aging
1998 Americ. Assoc. Geriatric Psychiatry/NIMH Summer Research Institute, Pittsburgh, PA
2000 Future Leaders in Psychiatry, Educational Award from Janssen Pharmaceutica and the Dept. of Psychiatry and Behavioral Sciences at Emory University

B. SELECTED PEER-REVIEWED PUBLICATIONS (in chronological order)

1. Holschneider D, Szuba MP; "Capgras Syndrome and Psychosis in a Patient with Tuberculous Sclerosis", *J Neuropsychiatry Clin Neurosci*, 4(3):352-353, 1992.
2. Holschneider DP, Leuchter AF, "Beta Activity in the Elderly: The Effects of Age, Gender, and Brain Disease", *Brain Topography*, 8(2):169-180, 1995.
3. Holschneider DP, Leuchter AF, Uijtdehaage SHJ, Abrams M, Rosenberg-Thompson S, "Loss of High Frequency EEG Response to Thiopental in Alzheimer's Dementia", *Neuropsychopharmacol*, 20:1-7, 1997.
4. Holschneider DP, Leuchter AF, Scremin OU, Treiman, DM, "Changes in Cortical EEG and Cholinergic Function in Response to NGF in Rats with Nucleus Basalis Lesions", *Brain Research*, 765:228-237, 1997.
5. Holschneider DP, Leuchter AF, Scremin OU, Treiman DM, Walton NY, "Changes in Brain Electrical Coherence in Response to NGF in Rats with Nucleus Basalis Lesions", *Brain Res Bull* 45:531-541, 1998.
6. Holschneider DP, Scremin OU, "Effect of Ovariectomy on Cerebral Blood Flow in Rats", *Neuroendocrinology*, 67:260-268, 1998.
7. Holschneider DP, Kumazawa T, Chen K, Shih JC, "Tissue-Specific Effects of Estrogen on Monoamine Oxidase A and B in the Rat", *Life Sciences*, 63(3):155-160, 1998.
8. Newton TF, Cook IA, Holschneider DP, Rosenblatt MR, Lindholm JE, Jarvik MM, "Quantitative EEG effects of nicotine replacement by cigarette smoking", *Neuropsychobiology*, 37(2):112-116, 1998.
9. Cook IA, Leuchter AF, Uijtdehaage SH, Holschneider DP, Osato S, Abrams M, Rosenberg-Thompson S, "Altered Cerebral Energy Utilization in Late Life Depression", *J Affective Disorders*, 49(2):89-99, 1998.
10. Waite J, Holschneider DP, Scremin OU, "Selective Immunotoxin-Induced Cholinergic Deafferentation Alters Blood Flow Distribution in the Cerebral Cortex", *Brain Res*, 818:1-11, 1999.

11. Holschneider DP, Scremin OU, Huynh L, Chen K, Shih JC, "Lack of Protection from Ischemic Injury of Monoamine Oxidase B-Deficient Mice Following Middle Cerebral Artery Occlusion", *Neurosci Letters*, 259(3):161-164, 1999.
12. Scremin OU, Holschneider DP, Chen K, Shih JC, "Cerebral Cortical Blood Flow Maps are Reorganized in MAO-B Deficient Mice", *Brain Res*, 824:36-44, 1999.
13. Holschneider DP, Waite J, Leuchter AF, Walton NY, Scremin OU, "Changes in Electro cortical Power and Coherence in Response to the Cholinergic Toxin 192IgG-Saporin", *Experimental Brain Research*, 126(2):270-280, 1999.
14. Holschneider DP, Scremin OU, Chen K, Shih JC, "Lack of Protection of Monoamine Oxidase B-Deficient Mice from Age-related Spatial Learning Deficits in the Morris Water Maze", *Life Sci*, 65(17):1757-1763, 1999.
15. Holschneider DP, Leuchter AF, "Clinical Neurophysiology Using Electroencephalography in Geriatric Psychiatry: Neurobiological Implications and Clinical Utility", *J Geriatric Psychiatry and Neurology*, 12(3):150-164, 1999.
16. Holschneider DP, Leuchter AF "Attenuation of Brain High Frequency Response After Thiopental in Subjects with Early Alzheimer's Dementia", *Psychopharmacology*, 149(1):6-11, 2000.
17. Holschneider DP, Shih JC, "Genotype to Phenotype: Challenges and Opportunities", *International Journal of Developmental Neuroscience*, 18:615-618, 2000.
18. Holschneider DP, Scremin OU, Huynh L, Chen K, DeMaeyer E, Seif I, Shih JC, "Regional Cerebral Cortical Activation In MAO-A Deficient Mice: Differential Effects Of Chronic Versus Acute Elevations In Serotonin And Norepinephrine", *Neuroscience*, 101(4):869-877, 2000.
19. Holschneider DP, Chen K, Seif I, Shih JC, "Biochemical, Behavioral, Physiologic and Neurodevelopmental Changes in Mice Deficient in Monoamine Oxidase A or B", *Brain Research Bulletin*, 56(5):453-462, 2001.
20. Holschneider DP, Scremin OU, Roos KP, Chialvo D, Chen K, Shih JC, "Increased Baroreceptor Response in Mice Deficient in Monoamine Oxidase A and B", *Am J Physiol, Heart & Circ Physiol*, 282:H964-H972, 2002.
21. Maarek JM, Holschneider DP, Harimoto J, "Fluorescence of Indocyanine Green in Blood: Intensity Dependence on Concentration and Stabilization with Sodium Polyaspartate", *J Photochemistry Photobiol*, 65(2-3):157-64, 2001.
22. Holschneider DP, Scremin OU, Chialvo D, Chen K, Shih JC, "Heart Rate Dynamics in Monoamine Oxidase -A and -B Deficient Mice", *Am J Physiol, Heart & Circ Physiol* 282(5):H1751-9, 2002.
23. Holschneider DP, Maarek J, Harimoto J, Yang J, Scremin OU, "An Implantable Bolus Infusion Pump For Use In Freely Moving, Nontethered Rats", *Am J Physiol, Heart & Circ Physiol*, 283(4):H1713-19, 2002.
24. Holschneider DP, Maarek J, Yang J, Harimoto J, Scremin OU "Functional Brain Mapping in Freely Moving, Nontethered Rats During Treadmill Walking", *J Cerebr Blood Flow Metab*, 23(8):925-932, 2003.
25. Maragos WF, Young KL, Altman CS, Pocernich CB, Drake J, Butterfield A, Seif I, Holschneider DP, Chen K, Shih JC "Striatal damage and oxidative stress induced by the mitochondrial toxin malonate are reduced in clorgyline-treated rats and MAO-A deficient mice", *Neurochem Research*, in press.
26. Holschneider DP, Maarek J, Yang J, Harimoto J, Scremin OU, "Activation of Cerebral Cortex During Acoustic Challenge or Acute Foot-shock in Freely Moving, Non-tethered Rats", *Neurosci Letters*, in press.
27. Maarek J-M I, Holschneider DP, Scremin OU, Harimoto J, Yang J, Rubinstein E, "Measurement of Cardiac Output with Indocyanine Green Transcutaneous Fluorescence Dilution Technique", *Anesthesiol*, in press.

Patents and Inventions

US Patent #6,554,822: Microbolus Infusion Pump: an implantable pump allowing bolus infusion by remote-activation in small animals, for use in research paradigms where drug administration is required in the conscious, behaving, non-tethered state; Inventors: DP Holschneider, OU Scremin.

US Patent Application In Review: A Method For The Measurement of Cardiac Output in Transgenic Animals and Man by Dye Dilution and Skin Fluorescence, Inventors: J-M Maarek, DP Holschneider, OU Scremin, E Rubinstein.

C. RESEARCH SUPPORT

Ongoing Research Support

Alfred E. Mann Institute for Biomedical Engineering at USC, Research Grant

PI: J-M Maarek

7/1/2001-6/30/2004

Minimally Invasive Measurement of Cardiac Output using Indocyanine Green Fluorescence. This grant concerns the development of a minimally invasive method for the measurement of cardiac output in transgenic animals and man using dye dilution and skin fluorescence.

Role : co-PI

Past Research Support

National Institutes on Aging (NIA), #K12-AG-00521 (Mentored Clinical Scientist Development Program)

Program PI: Dr. L Weiner, Chairman, USC Dept. Neurology,

7/1/1996 – 6/30/2000

Physiologic and Behavioral Assessment of MAOA- and MAOB-Deficient Mice. This grant concerns the phenotypic study of monoamine oxidase deficient mice

Role: Project PI

The Whitaker Foundation, Research Grant # RG-99-0331

PI: DP Holschneider

7/1/2000 – 6/30/2003

Functional Neuroimaging of Aggressive Behaviors Using an Implantable Microbolus Infusion Pump. This grant concerns the application of an implantable microbolus infusion pump to functional neuroimaging of aggressive behaviors in a variety of rodent paradigms.

Role: PI

National Institutes of Biomedical Imaging and Bioengineering (NIBIB), 8RO1 EB 00300-03

PI: DP Holschneider

8/1/2000 – 7/31/2003

An Implantable Microbolus Infusion Pump For The Neurosciences. Development of an implantable pump for bolus drug infusion in small animals, for use in research paradigms where drug administration is required in the conscious, behaving, non-tethered state. The microbolus infusion pump (MIP) will allow in-vivo incremental dosing by remote activation, as well as sequential administration of different drugs.

Role: PI

Robert E. and Mary R. Wright Foundation

PI: DP Holschneider

7/1/2002 – 6/30/2003

Identification of Genetic Susceptibility Loci for Neuropsychiatric-Systemic Lupus Erythematosus in a Novel Animal Model. This grant concerns the phenotyping and evaluation of candidate genes in a murine model of Lupus.

Role: PI