

BIOGRAPHICAL SKETCH

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

NAME David Q. Beversdorf eRA COMMONS USER NAME beversdorf		POSITION TITLE Assistant Professor of Neurology, Ohio State University	
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Indiana University, Bloomington, IN	B.S. (June 1987)	1983-1987	Biology (minors: Mathematics, Computer Science)
Indiana University School of Medicine, Indianapolis, IN Methodist Hospital of Indiana, Indianapolis, IN	M.D. (April 1992)	1987-1992 Jun1992-May1993	Medicine Prelim. Medicine (Residency)
Dartmouth-Hitchcock Medical Center, Lebanon, NH		Jul1993-Jun1996	Neurology (Residency)
University of Florida College of Medicine, Gainesville, FL		Jul1996-Jun1998	Behavioral Neurol. (Fellowship)

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. List in chronological order previous positions, concluding with your present position. List any honors. Include present membership on any Federal Government public advisory committee.

PROFESSIONAL CERTIFICATIONS

National Board of Medical Examiners-1993
State Medical Board of Ohio, License-August 19, 1998
American Board of Psychiatry and Neurology- May 1999

EMPLOYMENT

Extern (part-time student employment)
Emergency Department, Community Hospital, Indianapolis, IN
April 1991 - April 1992

Preliminary Medicine Resident (full-time)
Department of Internal Medicine, Methodist Hospital of Indiana, Indianapolis, IN
June 1992-May 1993

Neurology Resident (full-time)
Section of Neurology, Dartmouth-Hitchcock Medical Center, Lebanon, NH
July 1993-June 1996

Fellow in Behavioral Neurology (full-time)
Department of Neurology, University of Florida College of Medicine, Gainesville, FL
July 1996-June 1998

Assistant Professor of Neurology (full-time) (currently clinical track)
Department of Neurology, Ohio State University Medical Center, Columbus, OH
July 1998-present

HONORS/AWARDS

Reviewed articles for Neurology, J Neurol Neurosurg Psychiatry, JINS, Life Sci
Who's Who in America
Phi Beta Kappa
Metz Scholarship - four years
Dean's Scholarship - two years

SOCIETY MEMBERSHIPS

Society for Neuroscience
Cognitive Neuroscience Society
Cognitive Science Society
American Academy of Neurology

B. Selected peer-reviewed publications (in chronological order). Do not include publications submitted or in preparation.

Beversdorf DQ, Kurz EM, Sengelaub DR. Sexual activity and the morphology of steroid-sensitive rat spinal motoneurons. *Physiology and Behavior*. 1989;47:11-17.

Beversdorf D, Metzger S, Nelson D, Alonso R, Kight J. Single-word auditory stimulation and regional cerebral blood flow as studied by SPECT. *Psychiatry Research- Neuroimaging*. 1995;61:181-189.

Beversdorf DQ, Jenkyn LR, Petrowski JT III, Cromwell LD, Nordgren RE. Vertical gaze paralysis and intermittent unresponsiveness in a patient with a thalamomesencephalic stroke. *Journal of Neuro-Ophthalmology*. 1995;15:230-235.

Beversdorf D, Moses P, Reeves A, Dunn J. A man with weight loss, ataxia, and confusion for 3 months. *Lancet*. 1996;347:446.

Principal Investigator/Program Director (Last, first, middle): Beversdorf, David Q.

- Beversdorf D, Stommel E, Allen C, Stevens R, Lessell S. Recurrent branch retinal infarcts in association with migraine. *Headache*. 1997;37:396-399.
- Beversdorf DQ, Ratliffe NR, Rhodes CH, Reeves AG. Pure alexia: Clinical-pathological evidence for a lateralized visual language association cortex. *Journal of Clinical Neuropathology*. 1997;16:328-331.
- Beversdorf DQ, Heilman KM. Progressive ventral posterior cortical degeneration presenting as alexia for music and words. *Neurology*. 1998;50:657-659.
- Beversdorf DQ, Anderson JM, Manning SE, Anderson SL, Nordgren RE, Felopulos GJ, Nadeau SE, Heilman KM, Bauman ML. The effect of semantic and emotional context on written recall for verbal language in high-functioning adults with autism spectrum disorder. *Journal of Neurology, Neurosurgery, and Psychiatry*. 1998;65:685-692.
- Beversdorf DQ, Heilman KM. Facilitory paratonia and frontal lobe functioning. *Neurology*. 1998;51:968-971.
- Barrett AM, Beversdorf DQ, Crucian GP, Heilman KM. Neglect after right hemispheric stroke: A smaller floodlight for distributed attention. *Neurology*. 1998;51:972-978.
- Beversdorf DQ, Hughes JD, Steinberg BA, Lewis LD, Heilman KM. Noradrenergic modulation of cognitive flexibility in problem solving. *NeuroReport* 1999;10:2763-2767.
- Anderson JM, Gilmore R, Roper S, Crosson B, Bauer RM, Nadeau S, Beversdorf DQ, Cibula J, Rogish M 3rd, Kortencamp S, Hughes JD, Gonzalez-Rothi LJ, Heilman KM. Conduction aphasia and the arcuate fasciculus: a reexamination of the Wernicke-Geschwind model. *Brain and Language* 1999;70:1-12.
- Beversdorf DQ, Anderson JM, Auerbach EJ, Briggs RW, Hughes JD, Crosson B, Heilman KM. Functional MRI of the primary somatosensory cortex in extinction to simultaneous bilateral tactile stimuli. *Neurology* 1999;52:A232.
- Beversdorf DQ, Smith BW, Crucian G, Anderson JM, Keillor J, Barrett A, Hughes J, Felopulos GJ, Bauman ML, Nadeau SE, Heilman KM. Increased discrimination of "false memories" in autism spectrum disorder. *Proceedings of the National Academy of Sciences*. 2000;97:8734-8737.
- Beversdorf DQ, Anderson JM, Manning SE, Anderson SL, Nordgren RE, Felopulos GJ, Bauman ML. Brief report: macrographia in high-functioning adults with autism spectrum disorder. *Journal of Autism and Developmental Disorders*. 2001;31:97-101.
- Barrett AM, Crucian GP, Beversdorf DQ, Heilman KM. Monocular patching may worsen sensory-attentional neglect: a case report. *Arch Phys Med Rehabil*. 2001;82:516-518.
- Beversdorf DQ, White DM, Chever DC, Hughes JD, Bornstein RA. Central β -adrenergic modulation of cognitive flexibility. *NeuroReport* 2002;13:2505-2507.
- Scharre DW, Davis RA, Warner J, Chang S, Beversdorf DQ. Citalopram reduces restless activity and aberrant motor behaviors in Alzheimer's dementia. *American Association for Geriatric Psychiatry*. 2002.
- Klatte ET, Scharre DW, Nagaraja NH, Davis RA, Beversdorf DQ. Combination therapy of donepezil and vitamin E in Alzheimer disease. *Alzheimer Dis Assoc Disord* 2003;17:113-116.
- Heilman KM, Nadeau SE, Beversdorf DQ. Creative innovation: possible brain mechanisms. *Neurocase* 2003;9:369-379.
- Silver JA, Hughes JD, Bornstein RA, Beversdorf DQ. Effect of anxiolytics on cognitive flexibility in problem solving. *Cognitive and Behavioral Neurology* 2004;17:93-97.
- Beversdorf DQ, Warner JL, Davis RA, Sharma UK, Nagaraja HN, Scharre DW. Donepezil in the treatment of dementia with Lewy bodies. *Am J Geriatr Psychiatry* 2004;12:542-544.
- Beversdorf DQ, Manning SE, Hillier A, Anderson SL, Nordgren RE, Walters SE, Nagaraja HN, Cooley WC, Gaelic SE, Bauman ML. Timing of prenatal stressors and autism. *J Autism Devel Disord*. 2005 35:471-478.
- Kelley BJ, Yeager KR, Pepper TH, Beversdorf DQ. Cognitive impairment in acute cocaine withdrawal. *Cogn Behav Neurol*. 2005;18:108-112.
- Chakeres DW, Whitaker CDS, Dashner RA, Scharre DW, Beversdorf DQ, Raychaudhury Abhik, Schmalbrock P. High-resolution 8 Tesla imaging of the formalin-fixed normal human hippocampus. *Clin Anat* 2005;18:88-91.
- Kitzmilller J, Beversdorf D, Hansford D. Fabrication and testing of microelectrodes for small-field cortical surface recordings. *Biomed Microdevices*. 2006;8:81-85.
- Beversdorf DQ, Narayanan A, Hillier A, Hughes JD. Network model of decreased context utilization in autism spectrum disorder. *J Autism Devel Disord*. In press.
- Tivarus ME, Ibinson JW, Hillier A, Schmalbrock P, Beversdorf DQ. An fMRI study of semantic priming: modulation of brain activity by varying semantic distances. *Cogn Behav Neurol*. In press.
- Smith RM, Beversdorf DQ. The effects of recent methylenedioxymethamphetamine (MDMA, ecstasy) use on cognitive function in human subjects. *Cogn Behav Neurol*. In press.

C. Research Support. List selected ongoing or completed (during the last three years) research projects (federal and non-federal support). Begin with the projects that are most relevant to the research proposed in this application. Briefly indicate the overall goals of the projects and your role (e.g. PI, Co-Investigator, Consultant) in the research project. Do not list award amounts or percent effort in projects.

"Semantic network flexibility modulation and autism spectrum"
Principal Investigator: David Beversdorf, MD. (mentored award)
Agency: NINDS

Principal Investigator/Program Director (Last, first, middle): Beversdorf, David Q.

Type K23 (Beversdorf) Period: 12/15/02-11/30/07

This project examines the noradrenergic modulation of cognitive flexibility in ASD, upon which the current proposal expands.

“Cognitive flexibility, withdrawal, and norepinephrine”

Principal Investigator: David Beversdorf, M.D. (CEBRA Phase I award)

Agency: NIDA

Type R21 (Beversdorf) Period: 9/1/02-8/30/05

This project examines the noradrenergic modulation of cognitive flexibility in cocaine withdrawal.

“PET assessment of (18F)-setoperone uptake in high-functioning autistic adults”

Principal Investigator: David Beversdorf, M.D.

Agency: Stallone Fund

Type: Research Grant

Period: 10/17/94-present

The major goal of this project is to examine serotonin receptors in autism using positron emission tomography. This is an ongoing project nearing completion, and the subjects used in this experiment were also participants in the neuropsychological research that I have done.

“Functional MRI of semantic network activation in autism and cocaine withdrawal”

Principal Investigator: David Beversdorf, M.D.

Agency: Davis Scholarship-The Ohio State University Research Foundation

Type: University based internal award

Period: 1/1/03-12/31/03

The major of this award is to expand the activities in the NIDA and NINDS awards to include examination of the anatomical substrate using fMRI

“Vocational rehabilitation for high-functional adults with autism spectrum disorder”

Principal Investigator: David Beversdorf, M.D.

Agency: Ingram-White Castle Foundation&Columbus Foundation

Type: Private Foundation

Period: 1/1/05-12/31/06

The major goal of this study is to generate pilot data on outcomes of vocational rehabilitation for high functioning adults with autism spectrum disorder.

“Functional magnetic resonance imaging (fMRI) of the effect of donepezil on mild cognitive impairment (MCI)”

Principal Investigator: David Beversdorf, M.D.

Agency: Pfizer/Eisai (fellowship)

Type: Private research grant (Beversdorf) Period 7/1/05-present

\$58,000

The major goal of this study is to investigate the effect of donepezil on brain activation in MCI.

“Pharmacological modulation of functional connectivity in autism spectrum disorder”

Principal Investigator: David Beversdorf, M.D.

Agency: National Alliance for Autism Research

Type: Private foundation pilot grant (Beversdorf) Period 7/1/05-present

\$113,740

This is pilot work that includes distinct experiments from what is proposed in the current proposal.

“Development fund for fMRI research”

Principal Investigator: David Beversdorf, M.D.

Agency: OSU College of Medicine Research Investment Fund

Type: University based internal award (Beversdorf) Period 1/13/06-12/31/07

\$151,000

The purpose of this fund is to develop fMRI research at OSU

As Co-I:

“Economics and Neuroscience: Using functional magnetic resonance imaging and experimental economics to understand behavioral response to economic risk”

Principal Investigator: Brian Roe (Co-PI Beversdorf)

Agency: OSU

Type: Interdisciplinary Team Research Competition

\$100,000

The purpose of this study is to examine the neural correlates and genetics of intersubject differences in economic decision making.