

BIOGRAPHICAL SKETCH

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

NAME		POSITION TITLE	
Steven M. Berman		Associate Researcher	
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
Wayne State University, Detroit, MI	B.S.	1971	Psychology (Honors)
City University of New York, New York, NY	M.Ph.	1986	Psychology
City University of New York, New York, NY	Ph.D.	1986	Experimental Cognition

A. Positions and Honors.**Positions and Employment**

1990 – Present Assistant-Associate Researcher, Neuropsychiatric Institute, UCLA
 1994 – 1995 Adjunct Lecturer, Psychology Department, California State University, Northridge
 1994 – 1999 Assistant-Associate Researcher, Physics Department, UC Irvine
 1994 – Present Assistant-Associate Researcher, Nuclear Medicine, Greater LA VA Healthcare System
 1996 – 1999 Assistant-Associate Researcher, Psychology Department, UCLA
 1998 – Present Associate Researcher, Department of Medicine, UCLA
 1999 – 2000 Adjunct Lecturer, Psychology Department, Pepperdine University Graduate School
 1999 – Present Associate Researcher, Brain Imaging, Long Beach VA Medical Center

Other Experience and Professional Memberships

1990 – Present Ad hoc reviewer: Alcohol, Int J Psychophysiol, Psychophysiology, Neuroimage, others

B. Selected peer-reviewed publications (in chronological order).

- Berman S**, Friedman D, Cramer M. A developmental study of Event-Related Potentials to pictures and words during explicit and implicit memory. *Int J Psychophysiol* 1990;10:191-197.
- Berman S**, Friedman D, Cramer M. Age-related changes in processing negativity during selective attention to speech sounds and tones. In: Brunia CHM, Gaillard AWK, Kok A (Eds.), *Psychophysiological Brain Research, Volume Two*. Netherlands: Tilburg University Press, 1990, pp 147-151.
- Berman S**, Friedman D, Cramer M. ERPs during continuous recognition memory for words and pictures. *Bulletin of the Psychonomic Society* 1991;29:113-116.
- Friedman D, Putnam L, Hamberger M, **Berman S**. Mini-longitudinal study of the cognitive ERPs during picture matching in children, adolescents and adults: A replication. *J Psychophysiology* 1992;6:29-46.
- Berman S**, Whipple S, Fitch R, Noble E. P3 in young boys as a predictor of adolescent substance use. *Alcohol* 1992;10:69-76.
- Friedman D, **Berman S**, Hamberger M. Recognition memory and ERPs: Age-related changes in young, middle-aged and elderly adults. *J Psychophysiology* 1993;7:181-201.
- Berman S**, Friedman D. A developmental study of ERPs during recognition memory: Effects of picture familiarity, word frequency and readability. *J Psychophysiology* 1993;7:97-114.
- Berman S**, Martinez R, Noble E. Familial alcoholism and ERPs: Differences in probability sensitivity? *Alcohol* 1993;28:695-707.
- Berman S**, Noble E. Childhood antecedents of substance misuse. *Curr Opin Psychiatry* 1993;6:382-387.
- Noble EP, **Berman S**, Ozkaragoz TZ, Ritchie T. Prolonged P300 latency in children with the D₂ dopamine receptor A1 allele. *Am J Hum Genet* 1994;54:658-668.

11. **Berman S**, Noble E. Reduced visuospatial performance in children with the D₂ dopamine receptor A1 allele. *Behav Genet* 1995;25:45-58.
12. **Berman S**, Friedman D. The developmental of selective attention as reflected by event-related brain potentials. *J Exp Child Psychol* 1995;59:1-31.
13. **Berman S**. ERP signs of distractibility and selectivity in children. *Electroencephalogr Clin Neurophysiol Suppl* 1995;44:326-333.
14. **Berman S**, Noble E. D2 dopamine receptor (DRD2) gene and family stress: Interactive effects on cognitive function in children. *Behav Genet* 1997;27:33-43.
15. **Berman S**, Munakata J, Naliboff B, Chang L, Mandelkern MA, Silverman D, Kovalik E, Mayer EA. Gender differences in regional brain responses to visceral pressure in IBS patients. *Eur J Pain* 2000;4:157-172.
16. Naliboff BD, Derbyshire SWG, Munakata J, **Berman S**, Mandelkern M, Chang L, Mayer EA. Cerebral activation in irritable bowel syndrome patients and control subjects during rectosigmoid stimulation. *Psychosom Med* 2001;63:365-375.
17. Mayer EA, Derbyshire SWG, Chang L, FitzGerald L, **Berman S**, Mandelkern M, Hamm L, Vogt B, Naliboff BD. The effect of the 5-HT₃ receptor antagonist alosetron on brain responses to visceral stimulation in IBS patients. *Aliment Pharmacol Ther* 2002;16:1357-1366.
18. **Berman S**, Chang L, Suyenobu B, Derbyshire SW, FitzGerald L, Mandelkern M, Hamm L, Vogt B, Naliboff BD, Mayer EA. Condition-specific deactivation of brain regions by 5-HT₃ receptor antagonist alosetron. *Gastroenterology* 2002;123:969-977.
19. **Berman SM**, Naliboff BD, Chang L, Fitzgerald L, Antolin T, Camplone A, Mayer EA. Enhanced preattentive central nervous system reactivity in irritable bowel syndrome. *Am J Gastroenterol* 2002;97:2791-2797.
20. Naliboff BD, **Berman S**, Chang L, Derbyshire SW, Suyenobu B, Vogt BA, Mandelkern M, Mayer EA. Sex-related differences in IBS patients: Central processing of visceral stimuli. *Gastroenterology* 2003;124:1738-1747.
21. **Berman SM**, Mandelkern MA, Phan H, Zaidel E. Complementary hemispheric specialization for word and accent detection. *Neuroimage* 2003;19:319-331.
22. Chang L, **Berman S**, Mayer EA, Suyenobu B, Derbyshire S, Naliboff B, Vogt B, FitzGerald L, Mandelkern MA. Brain responses to visceral and somatic stimuli in patients with irritable bowel syndrome with and without fibromyalgia. *Am J Gastroenterol* 2003;98:1354-1361.
23. **Berman SM**. The use of event-related potentials for measuring interhemispheric transfer time. In: Zaidel E, Iacoboni M (Eds.), *The Parallel Brain*, Cambridge, MA: MIT Press, 2003 pp 230.
24. **Berman SM**, Ozkaragoz T, Noble EP, Antolin T, Sheen C, Siddarth P, Conner BT, Ritchie T. Differential associations of gender and D2 dopamine receptor (DRD2) genotype with negative affect and other substance abuse markers in children of alcoholics. *Alcohol* 2003. (In Press)
25. London ED, Simon SL, **Berman SM**, Madelkern MA, Lichtman AM, Bramen J, Shinn AK, Miotto K, Learn J, Dong Y, Matochik JA, Kurian V, Newton T, Woods R, Rawson R, Ling W. Regional cerebral dysfunction associated with mood disturbances in abstinent methamphetamine abusers. *Arch Gen Psychiatr* 2003. (In Press)

C. Research Support

Ongoing Research Support

R01 AR46122-01 Chang (PI)

07/01/99 – 06/30/04

NIH

Neuroendocrine Alterations in Fibromyalgia and IBS

This study has the goal of comparing perceptual, neuroendocrine, autonomic, and CNS responses in irritable bowel syndrome and fibromyalgia.

Role: Responsible for design, execution and analysis of functional brain imaging component

R01 DK48351 Mayer (PI)

07/01/01 – 05/31/06

NIH

Perception and Modulation of Visceral Sensations

The major goals of this project are: 1) Compare rectal sensitivity in patients with IBS, inflammatory bowel disease and controls; 2) Compare rectal and esophageal sensitivity in IBS patients; 3) Using brain imaging, examine the regions associated with rectal and esophageal stimulation in patients with IBS, inflammatory bowel disease, and controls; 4) Examine opioid mechanisms of visceral sensitivity using naloxone challenge.

Principal Investigator/Program Director (Last, First, Middle):

Role: Responsible for design, execution and analysis of functional brain imaging component

P50 DK64539-01 Mayer (PI)

9/30/02 – 8/31/07

NIH

Sex Differences in Central Stress Circuit Responsiveness in IBS and IC Patients

The goals of this project are: 1) To identify factors which underlie the greater vulnerability of women to develop a range of stress-related chronic pain disorders. 2) To determine sex-related differences in the responsiveness of central stress circuits in terms of HPA axis, autonomic output and pain modulation in healthy control subjects, patients with IBS and patients with interstitial cystitis.

Role: Responsible for design, execution and analysis of functional brain imaging and ERP components.

Completed Research Support

NIH/NINR NR04881-03 Naliboff (PI)

08/15/98 – 07/31/01 (no cost extension to 07/31/02)

Gender Related Differences in Visceral Sensitivity

The major goals of this project are: 1) Compare symptoms, visceral sensitivity and regional brain activation using PET and fMRI in male and female patients with IBS; 2) Compare symptoms, visceral sensitivity and regional brain activation in female patients with IBS at two time points during their menstrual cycle.

Role: Responsible for design, execution and analysis of functional brain imaging component

5 R01 AA11573 Noble (PI)

09/1/97 – 08/31/02

NIH/NIAAA

CNS and Genetic Markers in Children of Alcoholics

A developmental longitudinal study of risk and protective factors for alcohol/drug abuse in 200 children of alcoholics.

Role: Co-PI with primary responsibility for electrophysiological component

14278 Mayer (PI)

01/01/97 – 06/30/03

AstraZeneca

Basic and Clinical Studies in Functional GI Disorders

The major goals of this program are to develop new pharmacological treatments for functional digestive diseases. Specific research projects address: 1) development of techniques for visceral sensitivity testing in rats, mice and humans; 2) examination of potential treatment compounds in animal models; 3) cellular and molecular mechanisms of visceral sensation; and 4) human trials.

Role: Responsible for design, execution and analysis of functional brain imaging components