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## BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.  
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NAME Jennifer S. Labus	POSITION TITLE Adjunct Assistant Professor		
eRA COMMONS USER NAME Labus2			
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
Kent State University, Kent, OH	B.A.	1988-1993	Psychology
Northern Arizona University, Flagstaff, AZ	M.A.	1995-1997	Applied Health Psychology
Ohio University, Athens, Ohio	M.S., Ph.D.	1997-2002	Clinical Health Psychology and Applied Quantitative Statistics
University of Washington School of Medicine, Seattle, Washington	Clinical Internship	2001-2002	Health Psychology /Pain/Rehabilitation
University of California, Los Angeles, Psychiatry and Behavioral Sciences, Los Angeles, CA	Post doctoral fellowship	2002-2004	Clinical Health Psychology

### **A. Positions and Honors.**

#### **Positions and Employment**

- 2004 – 2006 Assistant Research Psychologist, Department of Psychiatry and Biobehavioral Sciences, UCLA Neuropsychiatric Institute
- 2004 – Present Senior Biostatistician, UCLA Center for Neurovisceral Sciences and Women's Health
- 2006 – Present Adjunct Assistant Professor, Department of Psychiatry and Biobehavioral Sciences, Semel Institute for Neuroscience and Human Behavior, University of California, Los Angeles

#### **Honors**

- 1992 Phi Beta Kappa, Kent State University
- 2004 NIH Loan Repayment Award (L30 DK068815-01)
- 2006 NIH Loan Repayment Award, renewal (L30 DK068815-02)
- 2008 NIH Loan Repayment Award, renewal (L30 DK068815-03)

#### **Professional Societies**

- American Gastroenterological Association
- American Pain Society
- Center of Neurovisceral Sciences and Women's Health, Associate Member
- Society for Neuroscience
- The Organization for Human Brain Mapping

#### **Reviewer**

- Cephalalgia
- Cochrane Review by Duke University Center for Health Care Policy And Research
- European Journal of Pain
- Journal of Pain
- Gastroenterology
- Journal of Psychosomatic Research

#### **Ad Hoc Reviewer**

- Behavior Research and Therapy
- Human Brain Mapping
- Journal of Burn Care and Rehabilitation

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

1. Lipchik GL, Holroyd KA, O'Donnell FJ, Cordingley, GE, Waller S, **Labus J**, Davis MK, French DJ. Exteroceptive suppression periods and pericranial muscle tenderness in chronic tension-type headache. *Cephalalgia* 2000;20:638-46.
2. **Labus JS**, France CR, Taylor BK. Vasovagal reactions in volunteer blood donors: Analyzing the predictive power of the Medical Fears Survey. *International Journal of Behavioral Medicine* 2000;7:62-72.
3. **Labus JS**, Keefe F, Jensen M. Pain reports and observed pain behavior: When are they correlated? *Pain* 2003;102:109-124.
4. Holroyd KA, **Labus JS**, O'Donnell FJ, Cordingley GE. Treating chronic tension-type headache not responding to amitriptyline hydrochloride with paroxetine hydrochloride: A pilot evaluation. *Headache* 2003;43:999-1005.
5. **Labus J**, Bolus R, Chang L, Wiklund I, Naesdal J, Mayer E, Naliboff B. The Visceral Sensitivity Index: Development and validation of a gastrointestinal symptom-specific anxiety scale. *Aliment Pharmacol Ther* 2004;20:89-97.
6. Tillisch K, **Labus JS**, Naliboff BD, Bolus R, Shetzline M, Mayer EA, Chang L. Characterization of the alternating bowel habit subtype in patients with irritable bowel syndrome. *Am J Gastroenterol* 2005;100:896-904.
7. Mayer EA, Berman S, Suyenobu B, **Labus J**, Mandelkern M, Naliboff B, Chang L. Differences in brain responses to visceral pain between patients with irritable bowel syndrome and ulcerative colitis. *Pain* 2005;115:398-409.
8. Tillisch K, Mayer EA, **Labus JS**, Stains J, Chang L, Naliboff BD. Sex specific alterations in autonomic function among patients with irritable bowel syndrome. *Gut* 2005;54:1396-1401.
9. Schieffer BM, Pham Q, **Labus J**, Baria A, Van Vort W, Davis P, Davis F, Naliboff BD. Pain medication beliefs and medication misuse in chronic pain. *J Pain* 2005;6:620-629.
10. Naliboff BD, Berman S, Suyenobu B, **Labus JS**, Chang L, Stains J, Mandelkern MA, Mayer EA. Longitudinal change in perceptual and brain activation response to visceral stimuli in irritable bowel syndrome patients. *Gastroenterology* 2006;131:352-365.
11. Chang L, Mayer EA, **Labus JS**, Schmulson M, Lee OY, Olivas TI, Stains J, Naliboff BD. Effect of sex on perception of rectosigmoid stimuli in irritable bowel syndrome. *Am J Physiol Regul Integr Comp Physiol* 2006;291:R277-R284.
12. Mystkowski JL, Craske MG, Echiverri AM, **Labus JS**. Mental reinstatement of context and return of fear in spider-fearful participants. *Behav Ther* 2006;37:49-60.
13. Berman SM, Naliboff BD, Suyenobu B, **Labus JS**, Stains J, Bueller JA, Ruby K, Mayer EA. Sex differences in regional brain response to aversive pelvic visceral stimuli. *Am J Physiol Regul Integr Comp Physiol* 2006;291:R268-R276.
14. **Labus JS**, Mayer EA, Chang L, Bolus R, Naliboff BD. The central role of gastrointestinal-specific anxiety in irritable bowel syndrome: Further validation of the Visceral Sensitivity Index. *Psychosom Med* 2007;69:89-98.
15. **Labus JS**. In search of mechanisms of change in treatment outcome research: Mediators and moderators of psychological and pharmacological treatments for Irritable Bowel Syndrome. *Gastroenterology* 2007;133:702-5.
16. Berman SM, Naliboff BD, Suyenobu B, **Labus JS**, Stains J, Ohning G, Kilpatrick L, Bueller JA, Ruby K, Jarcho J, Mayer EA. Reduced brainstem inhibition during anticipated pelvic visceral pain correlates with enhanced brain response to the visceral stimulus in women with irritable bowel syndrome. *J Neurosci*. 2008 Jan 9;28(2):349-59.
17. Mayer EA, **Labus JS**, Berkley KJ, 2008. Sex Differences in Pain. In: Becker JB, Berkley KJ, Geary N, Hampson E, Herman JP, Young EA (Eds.), *Sex Differences in the Brain from Genes to Behavior*. Oxford University Press, Oxford, pp. 371-396.
18. **Labus JS**, Naliboff BN, Fallon J, Berman SM, Suyenobu B, Bueller JA, Mandelkern M, Mayer EA. Sex differences in brain activity during aversive visceral stimulation and its expectation in patients with chronic abdominal pain: A network analysis. *Neuroimage*. Jul 1;41(3):1032-43. Epub 2008 Mar 20
19. Naliboff BD, Waters AM, **Labus JS**, Kilpatrick L, Craske MG, Chang L, Negoro H, Ibrahimovic H, Mayer EA, Ornitz E. Increased Acoustic Startle Responses in IBS Patients During Abdominal and Nonabdominal Threat. *Psychosom Med*. 2008 Oct 8. [Epub ahead of print]

20. Holroyd KA, **Labus JS**, Carlson B. Moderation and mediation in the psychological and drug treatment of chronic tension-type headache: The role of disorder severity and psychiatric comorbidity. *Pain*. 2009 Jun;143(3):213-22.
21. Mayer EA, Aziz, Coen S, Kern M, **Labus J**, Lane R B. Kuo, Naliboff, Tracey I. Brain imaging approaches to the study of functional GI disorders: A Rome Working Team Report. *Neurogastroenterol Motil* 21(6):597-596, 2009.
21. Wang Z, Guo Y, Bradesi S, **Labus JS**, Maarek JM, Lee K, Winchester WJ, Mayer EA, Holschneider DP. Sex differences in functional brain activation during noxious visceral stimulation in rats. *Pain*. 2009 Jun 25. [Epub ahead of print]
22. **Labus JS**, Naliboff BD, Berman SM, Suyenobu B, Vianna EP, Tillisch K, Mayer EA. Brain networks underlying perceptual habituation to repeated aversive visceral stimuli in patients with irritable bowel syndrome. *Neuroimage*. 2009 Sep;47(3):952-60. Epub 2009 Jun 6.

### **C. Research Support**

#### **Ongoing Research Support**

R03 DK084169 Labus, J (PI)

09/01/09-08/30/11

NIH NIDDK

Brain mechanisms underlying selective attention in IBS

This R03 tests the general hypothesis that central pain amplification in IBS is in part related to impairment in brain mechanisms responsible for regulating attention. The proposed studies are an extension of my K08 award that aims to identify the neuroanatomical substrates of the cognitive, behavioral, affective and physiologic alterations in IBS patients. This research will provide preliminary data for a planned R01 grant proposal focused on delineating the mechanism of PFC dysfunction in IBS.

Role: PI

Direct Costs: \$50,000/year

K08 DK071626 Labus (PI)

07/01/06 – 06/30/11

NIH NIDDK

Effective Connectivity of Central Response in IBS

This Mentored Clinical Scientist Development training plan involves the acquisition, development and application of novel quantitative methods such as effective connectivity modeling and individual growth curve modeling for fMRI and psychophysiological data and includes coursework and mentored training in neuroscience, neurobiology of brain-gut interactions, advanced biostatistics, neuroengineering, and clinical research in IBS.

Role: PI

R24 DK067672 Mayer (PI)

09/15/04 – 07/31/09

NIH NIDDK/NCCAM

Mind/Brain/Body Interactions in Stress-Related Disorders (NIH Center Infrastructure)

The goals of this project are: 1) To establish 4 research support cores (animal models, brain imaging, psychophysiology, health outcomes) aimed at fostering campus wide interdisciplinary research in the area of stress biology. 2) To develop infrastructure for training

Role: Senior Biostatistician

#### **Completed Research Support**

R01 NR007768 Naliboff (PI)

07/01/02 – 06/30/07

NIH/NINR

Treatment of Pain and Fear in Irritable Bowel Syndrome

The major goals of this randomized clinical trial are: 1) To compare symptom and Quality of Life responses in IBS patients to three treatment conditions: a novel behavioral treatment using exposure and directed attention,

a stress management treatment, and an educational intervention. 2) To compare the treatments on visceral sensitivity, hypervigilance and autonomic responses, and 3) To compare the treatments on central responses to visceral related stimuli using functional brain imaging.

Role: Biostatistician

NIH/NINDS NS 32374 Holroyd (PI)

09/30/94 – 08/31/05

NIH

Drug and Nondrug Treatment of Chronic Tension Headache

This project evaluates the effectiveness of the primary pharmacological (Amitriptyline HCL) and self-regulatory (Stress- Management) therapies for chronic tension-type headaches and migraines, both separately and when combined. It also attempts to elucidate the psychological and biological mechanisms whereby pharmacologic and self-regulatory treatments produce improvement.

Role: Biostatistician