

JACK B. NITSCHKE

ADDRESS

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EDUCATION

University of Illinois, Champaign, IL *July, 1998*
Degree: Ph.D. in Clinical Psychology
Title: Differentiating Types of Anxiety, Depression, and their Co-occurrence: Regional
Brain Activity and Life Stress
University of Illinois, Champaign, IL *October, 1994*
Degree: M.A. in Clinical Psychology
Title: Moderating Effects of Extraversion on EEG Activity in Anxiety
University of Pennsylvania, Philadelphia, PA *May, 1989*
Degree: B.A., Magna Cum Laude in Psychology (Minor: Non-Western History)

AWARDS AND HONORS

NARSAD Young Investigator Award, 2005
NIMH K08 Research Career Award, 2002
HealthEmotions Research Institute Fellowship, 2002
Selected for the 2001 Positive Psychology Summer Training Institute
Positive Psychology Summer Training Institute Research Award, 2000
Postdoctoral Trainee, NIMH Training Program in Emotion Research, 1998-2001
UIUC Herman Eisen Memorial Award for Outstanding Professional Contributions, 1998
UIUC Graduate College Dissertation Completion Fellowship, 1997-1998
UIUC University Fellowship, 1997-1998 (declined)
APA/Psi Chi Edwin B. Newman Graduate Research Award, 1997
Selected as Department of Psychology representative for University Fellowship funding, 1997
UIUC List of Teachers Ranked as Excellent by Their Students, Spring 1997
Predoctoral Trainee, NIMH Quantitative Training Program, 1993-1996
Honors Society of Phi Kappa Phi, 1996
UIUC Ed Scheiderer Memorial Award for Outstanding Research or Scholarship, 1994
UIUC Graduate College Thesis/Project Grant, 1994

RESEARCH SUPPORT

R01 – Principal Investigator 7/20/2005 - 6/30/2010
 NIH/NIMH \$1,062,500 (total direct costs)
 Neuroanatomy of Anticipation in Anxiety Disorders

K08 Research Career Award – Principal Investigator 9/1/2002 - 8/31/2008
 NIH/NIMH \$539,058 (total direct costs)
 Functional Neuroimaging of Anxiety and Fear includes 80% of salary
 (1-year no cost extension covering research expenses)

NARSAD Young Investigator Award 7/1/2005 - 6/30/2008
 Functional Neuroanatomy of Anticipation Abnormalities \$60,000 (total direct costs)
 in Social Anxiety Disorder (1-year no cost extension covering research expenses)

RO1 – Co-Investigator (PI: Cook, Dane) 9/16/2005 - 6/30/2010
 NIH/NIAMS \$1,125,000 (total direct costs)
 Imaging the Cognitive Modulation of Pain in Fibromyalgia

R03 – Consultant (PI: Abbeduto, Len) 7/1/2005 - 6/30/2007
 NIH/NICHD \$100,000 (total direct costs)
 Maternal Emotional Well-Being and Fragile X Syndrome

Pending support

K02 Research Career Award – Principal Investigator 7/1/2008 - 6/30/2013
 NIH/NIMH \$430,783 (total direct costs)
 Brain Mechanisms of Anticipatory Processing in Anxiety Disorders 75% salary only
 (score of 182 for original submission)

Completed support

Fetzer Institute – Principal Investigator 6/1/2002 - 12/31/2004
 Brain Circuitry of Altruistic Love \$100,000 (total direct costs)

HealthEmotions Research Institute Fellowship, 2002-2003
 Positive Psychology Summer Training Institute Research Award, 2000
 Postdoctoral Trainee, NIMH Training Program in Emotion Research, 1998-2001
 UIUC Graduate College Dissertation Completion Fellowship, 1997-1998
 UIUC University Fellowship, 1997-1998 (declined)
 Predoctoral Trainee, NIMH Quantitative Training Program, 1993-1996
 UIUC Graduate College Thesis/Project Grant, 1994

RESEARCH AND PROFESSIONAL EXPERIENCE

- 2003-present Assistant Professor, Department of Psychiatry, University of Wisconsin-Madison
- 2003-present Assistant Professor, Department of Psychology, University of Wisconsin-Madison
- 2002-2003 Assistant Scientist, Waisman Center, University of Wisconsin-Madison
- 2001-2002 Assistant Scientist, Department of Psychology, University of Wisconsin-Madison
- 1999-2003 Postdoctoral Clinician, Department of Psychiatry, University of Wisconsin Psychiatric Institute & Clinics, University of Wisconsin-Madison
- 1998-2001 Postdoctoral Fellow, Department of Psychology, University of Wisconsin-Madison
- Advisor: Richard J. Davidson, Ph.D.
- 1995-1998 Dissertation Research. Brain activity and life stress in anxiety and depression. 1) Psychometric study distinguished specific types of depression and anxiety in 783 undergraduates. 2) EEG study compared patterns of regional brain activity at rest in anhedonic depression, anxious arousal, and anxious apprehension. Diathesis-stress formulation tested via examination of interactions with life stress.
- Advisors: Wendy Heller, Ph.D., Gregory A. Miller, Ph.D.
- 1995-1998 Project Coordinator/Graduate Student Research Assistant. Brain-behavior relations in depression and anxiety. NIMH-funded project examined EEG at rest and during emotional narratives, neuropsychological task performance, and cognitive function in a 5-group design comparing different types of depression and anxiety.
- Principal Investigators: Wendy Heller, Ph.D., Gregory A. Miller, Ph.D.
- 1997-1998 Graduate Student Research Assistant. Brain activity and Stroop performance. Functional MRI study conducted to localize brain regions activated during performance of a modified Stroop task.
- Principal Investigator: Marie T. Banich, Ph.D.
- 1993-1995 Project Coordinator/Graduate Student Research Assistant. Brain-behavior relations in depression and anxiety. NIMH-funded project examined EEG at rest and during emotional narratives, neuropsychological task performance, and cognitive function for depressed, anxious, comorbid,

and control groups.

Principal Investigators: Wendy Heller, Ph.D., Gregory A. Miller, Ph.D.

1993-1995 Graduate Student Research Assistant. Right posterior function and arousal. Study examined the relationship between performance on a face-processing task tapping posterior brain function and dimensions of mood.

Principal Investigator: Wendy Heller, Ph.D.

1993-1994 Master's Thesis Research. Brain activity and extraversion in anxiety. Study examined the moderating effects of extraversion on patterns of brain activity in anxiety.

Advisors: Gregory A. Miller, Ph.D., Wendy Heller, Ph.D.

TEACHING EXPERIENCE

- 2003-present Course Instructor. Biology of Psychopathology. Seminar for Clinical Psychology interns and Psychiatry residents. Responsibilities include course curriculum, designing and updating syllabus each year, making syllabus and class readings available on the web (http://psychiatry.wisc.edu/courses/Nitschke/2007_bio_psycho_class/), lecturing, and leading discussions. Course covers neurobiology (including structural and functional neuroanatomy, neurochemistry, HPA axis) and genetics in the etiology, pathophysiology, and treatment of a wide range of psychopathology, including depression, anxiety, schizophrenia, addictions, eating disorders, psychopathy, and childhood disorders.
- 2007 Guest Lecturer. Systems in psychology's past, present and future. Seminar on History of Psychology for Clinical Psychology graduate students in the Department of Psychology.
- 2006 Guest Lecturer. Neuroimaging in Anxiety and Depression. Seminar on Neuroimaging of Cognitive Disorders for Neuroscience and Psychology graduate and undergraduate students.
- 2006 Guest Lecturer. The Power of Expectancy, Anxiety, and the Brain. Seminar for Clinical Psychology interns and practicum students in Clinical Psychology and Counseling Psychology.
- 2005 Guest Lecturer. Examination for the Practice of Professional Psychology and Applying for Licensure. Seminar for Clinical Psychology interns and practicum students in Clinical Psychology and Counseling Psychology.
- 2005 Guest Lecturer. Understanding Anxiety and Depression: Turning to the Brain for Answers. Seminar for Undergraduate Honors Program in Department of Psychology.

- 2005 Guest Lecturer. Psychotherapy with Chronic Patients. Seminar for Clinical Psychology interns and practicum students in Clinical Psychology and Counseling Psychology.
- 2004 Guest Lecturer. Functional Imaging of Mood and Depression. Seminar for Clinical Psychology interns and practicum students in Clinical Psychology and Counseling Psychology.
- 2004 Guest Lecturer. Psychotherapy with Chronic Patients. Seminar for Clinical Psychology interns and practicum students in Clinical Psychology and Counseling Psychology.
- 2004 Guest Lecturer. Emotion, Disorders of Emotion, and the Brain: Dissecting the Constituent Features of Anxiety and Depression. Seminar for Undergraduate Honors Program in Department of Psychology.
- 2003 Guest Lecturer. Emotion, disorders of emotion, and the brain: Dissecting the constituent features of anxiety and depression. Seminar for Clinical Psychology interns and practicum students in Clinical Psychology and Counseling Psychology.
- 1998-present Research Supervisor. Directed activities of multiple (>30) advanced undergraduate research assistants in various research studies.
- 1995-1998 Instructor. Adolescent Psychopathology and Intervention. Discussion-based practicum course for upper-level undergraduate students participating in Adolescent Mentoring Program. Responsibilities included developing full-year course curriculum, facilitating class discussion, group and individual supervision, office hours, writing exams (essay), and grading (weekly writing assignments, psychosocial summaries, case presentations, final exams).
- 1993-1996 Research Supervisor. Directed activities of four advanced undergraduate research assistants for two large NIMH-funded projects.
- 1992-1993 Teaching Assistant. Abnormal Psychology. Lecture course for approximately 200 undergraduates. Responsibilities included giving lectures, office hours, writing exams (multiple choice), and conducting review sessions.

CLINICAL EXPERIENCE

- 2005-present Licensed Clinical Experience. Department of Psychiatry, Wisconsin Psychiatric Institute & Clinics, Madison, WI. Psychologist License for the State of Wisconsin granted in April, 2005 (No: 2537 - 057). 1) Adult individual psychotherapy with an emphasis on cognitive-behavioral methods, interpersonal psychotherapy of depression developed by Gerald

Klerman and Myrna Weissman, and interpersonal reconstructive therapy developed by Lorna Benjamin. 2) Adult group and individual psychotherapy using Dialectical Behavior Therapy developed by Marsha Linehan. 3) Adult assessment using the Structured Clinical Interview for DSM-IV (SCID), Hamilton Rating Scale for Depression (HRSD), and Hamilton Anxiety Rating Scale (HAM-A). 4) Psychotherapy supervision of clinical psychology interns and psychiatry residents.

1999-2005

Postdoctoral Clinical Experience. Department of Psychiatry, Wisconsin Psychiatric Institute & Clinics, Madison, WI. 1) Adult individual psychotherapy with an emphasis on cognitive-behavioral methods, interpersonal psychotherapy of depression developed by Gerald Klerman and Myrna Weissman, and interpersonal reconstructive therapy developed by Lorna Benjamin. 2) Adult group and individual psychotherapy using Dialectical Behavior Therapy developed by Marsha Linehan. 3) Adult assessment using a wide array of instruments, including the Structured Clinical Interview for DSM-IV (SCID), Hamilton Rating Scale for Depression (HRSD), Hamilton Anxiety Rating Scale (HAM-A), Scale for the Assessment of Negative Symptoms (SANS), and Parasuicidal History Interview.

Supervisors: Gregory G. Kolden, Ph.D., Sarah Chisholm-Stockard, Ph.D., Katherine M. Putnam, Ph.D.

1995-1998

Predocloral Clinical Experience following M.A. in Psychology. Department of Psychology, Psychological Services Center, Champaign, IL. 1) Adolescent and adult individual psychotherapy with an emphasis on systems theory and cognitive-behavioral methods. 2) Family co-therapy with an emphasis on psychodynamic and cognitive-behavioral approaches. 3) Cognitive-behavioral group psychotherapy for depressed adolescents, in Champaign area middle school. Other responsibilities included supervising undergraduate co-facilitator, program evaluation, and networking with school officials. 4) Neuropsychological assessments for children, adolescents, and adults, including testing, home and school observations, intake interviews, feedback sessions, report writing, and court testimony. 5) Founded and directed the Adolescent Mentoring Program. Developed full-year course curriculum for 15 upper-level psychology undergraduates taught by three advanced graduate students (including me). Other responsibilities included group and individual supervision, crisis intervention, readings on adolescent psychopathology and intervention, program evaluation, networking with Champaign area mental health agencies, psychiatric facilities, and school psychologists and social workers.

Supervisors: Wendy Heller, Ph.D., Thom Moore, Ph.D., Karen Rudolph, Ph.D., Marty Traver, Ph.D.

1993-1994

Graduate School Clinical Practica prior to M.A. in Psychology.

Department of Psychology, Psychological Services Center, Champaign, IL. Adult individual psychotherapy with an emphasis on cognitive-behavioral and psychodynamic approaches.

Supervisor: Gregory A. Miller, Ph.D., Fred H. Kanfer, Ph.D.

1993 Mental Health Technician. Cunningham Children's Home, Urbana, IL. Quarter-time position supervising milieu activities and implementing treatment plans of adolescents in residential care.

1991-1992 Mental Health Technician. Adolescent unit, Bethany Pavilion, Oklahoma City, OK. Half-time position supervising milieu activities and implementing treatment plans of adolescents in acute care.

Supervisor: Deborah D. Hill, R.N.

MENTORING/ADVISING/SUPERVISION

Current:

Sid Sarinopoulos, assistant scientist, 2004-present
Desmond Oathes, postdoctoral fellow, 2006-present
Deborah Kerr, graduate student, 2004-present

Past:

Sid Sarinopoulos, postdoctoral fellow, 2001-2004

Dissertation Committees, Department of Psychology, 2004-present:

Jerry Haeffel	Stephanie Schell
Alex Shackman	Donald McLaren
Hyejeen Lee	Tim Salomons
Max Maxwell	Robin Nusslock
Joanne Hogle	

Specialty Prelims Committees, Department of Psychology, 2006-present:

Rebecca Gloria	Deborah Kerr
Tim Salomons	Jessica Kirkland

Clinical Advising Committees, Department of Psychology, 2007-present:

Deborah Kerr	Rebecca Gloria
Jessica Kirkland	

First-year Project Committees, Department of Psychology, 2005-present:

Deborah Kerr
Gregory Dixon

Individualized Graduate Major (IGM) Committees, Department of Psychology, 2005-present:

Lisa Lindeman

Undergraduate Honors Thesis, Department of Psychology, 2002-present:

Kristen Mackiewicz
Brett Rusch

Undergraduate Research Scholar Program, University of Wisconsin, 2004-present:

Mai Youa Lor	Allison Schaus
Krista Bluske	

Biology Mentored Research Course, Department of Biology, 2001-present:

Alissa Possin

Krista Bluske

Allison Schaus

Danielle Greene

Melissa Schmidt

Lindsay Thomes

Psychotherapy supervision, Department of Psychiatry, 2003-present:

Psychiatry residents

Chris Nevers

Jyotila Singh

Rod MacDonald

Justin Schoen

Qazi Javed

Joe Marzano

Erin Curtis

Chris Moore

Gayatri Vaidyanathan

Clinical Psychology interns

John Herrington

Tanya Schlam

Arnica Buckner

Clinical Psychology practicum students

Sandra Japuntich

Allison Jahn

PROFESSIONAL AND DEPARTMENTAL SERVICE

Program Committee, Society for Research in Psychopathology, 2007

Equity and Diversity Committee, Waisman Center, 2005-present

Internship Training Committee, Department of Psychiatry, 2004-present

Education Committee, Society for Psychophysiological Research, 2004-2005

Dissertation Committees (9 students), 2004-present

Specialty Prelims Committees (4 students), Department of Psychology, 2006-present

Founder and director of the UIUC Adolescent Mentoring Program, 1995-1997

Adolescent Mentoring Program representative at Champaign Agency Reception, 1996-1997

Group facilitator for I COPE at Edison Middle School, 1997

UIUC Graduate Admissions Committee, 1996

JOURNAL EDITORIAL CONSULTING

2007 American Journal of Psychiatry, American Psychologist, Archives of General Psychiatry (2), Biological Psychiatry (2), Chemical Senses, Emotion, International Journal of Psychophysiology, Journal of Abnormal Psychology (3), Journal of Neuroscience, Journal of Personality and Social Psychology, NeuroImage

2006 American Journal of Psychiatry (2), Brain, Behavior, and Immunity (3), European Journal of Neuroscience (2), Experimental Brain Research (2), International Journal of Psychophysiology, Journal of Abnormal Psychology, Journal of Integrative Neuroscience, Journal of Psychiatric Research (3), NeuroImage (6), Psychological Science

2005-06 Co-editor for Named Series in Brain, Behavior, and Immunity entitled "Brain Mechanisms of Placebo"

2005 Behavioral Neuroscience, Biological Psychology, Brain, Behavior, and Immunity (4), Emotion, Human Brain Mapping, Journal of Abnormal Psychology (2), NeuroImage (2), Psychophysiology

2004 Biological Psychiatry (3), Biological Psychology, Cognitive Therapy & Research, Cortex, Emotion, Psychoneuroendocrinology

- 2003 Biological Psychology, Brain and Cognition (2), Cognitive Brain Research,
Cognition and Emotion, Emotion, Journal of Psychophysiology, Psychological
Bulletin, Psychoneuroendocrinology
- 2002 Emotion, Journal of Abnormal Psychology (2), Journal of Personality and Social
Psychology, Journal of Sport & Exercise Psychology, Psychophysiology
- 2001 Biological Psychology, Cognition and Emotion, Emotion (3), Journal of
Abnormal Psychology (2), Journal of Personality and Social Psychology (2),
Psychophysiology (2)
- 2000 Emotion (3), Psychological Science, Psychophysiology
- 1999 Journal of Abnormal Psychology, Psychophysiology
- 1998 Psychophysiology
- 1997 Psychophysiology

GRANT APPLICATION CONSULTING

- 2007 Ad Hoc Member of Study Section (ZDA1) for NIH R21 Roadmap
- 2005-06 Member of NIMH Study Section (F02A) for Neurosciences Fellowships
- 2004 Ad Hoc Member of NIMH Study Section (F02A) for Neurosciences Fellowships
- 2003 External Scientific Review for NIMH R01 Application
- 2003 External Scientific Review for NIA-sponsored Alzheimer's Disease Core Center

OTHER CONSULTING EXPERIENCE

- 2005-07 Member of Scientific Advisory Board, Organization for Human Brain Mapping
- 2005 Reviewer for Wiley
- 2004 Reviewer for MIT Press
- 2003 Scientist for Mind Brain Body and Health Initiative (MacArthur Foundation)
- 2002 Scientist for Mind Brain Body and Health Initiative (MacArthur Foundation)
- 2002 Grant reviewer for Wellcome Trust
- 1999 Reviewer for Oxford University Press

PROFESSIONAL ORGANIZATIONS

American Psychological Association
 Association for Psychological Science
 Cognitive Neuroscience Society
 Organization for Human Brain Mapping
 Society for Neuroscience
 Society for Psychophysiological Research
 Society for Research in Psychopathology
 Society for a Science of Clinical Psychology

PUBLICATIONS

Papers in Refereed Journals

1. Heller, W., & Nitschke, J.B. (1997). Regional brain activity in emotion: A framework for understanding cognition in depression. Cognition and Emotion, 11, 637-661.

2. Heller, W., Nitschke, J.B., Etienne, M.A., & Miller, G.A. (1997). Patterns of regional brain activity differentiate types of anxiety. Journal of Abnormal Psychology, *106*, 376-385.
3. Heller, W., Nitschke, J.B., & Lindsay, D.L. (1997). Neuropsychological correlates of arousal in self-reported emotion. Cognition and Emotion, *11*, 383-402.
4. Heller, W., & Nitschke, J.B. (1998). The puzzle of regional brain activity in depression and anxiety: The importance of subtypes and comorbidity. Cognition and Emotion, *12*, 421-447.
5. Nitschke, J.B., Miller, G.A., & Cook, E.W. III (1998). Digital filtering in EEG/ERP analysis: Some technical and empirical comparisons. Behavior Research Methods, Instruments, and Computers, *30*, 54-67.
6. Heller, W., Nitschke, J.B., & Miller, G.A. (1998). Lateralization in emotion and emotional disorders. Current Directions in Psychological Science, *7*, 26-32.
7. Davidson, R.J., Abercrombie, H., Nitschke, J.B., & Putnam, K. (1999). Regional brain function, emotion and disorders of emotion. Current Opinion in Neurobiology, *9*, 228-234.
8. Nitschke, J.B., Heller, W., Palmieri, P.A., & Miller, G.A. (1999). Contrasting patterns of brain activity in anxious apprehension and anxious arousal. Psychophysiology, *36*, 628-637.
9. Keller, J., Nitschke, J.B., Bhargava, T., Deldin, P.J., Gergen, J.A., Miller, G.A., & Heller, W. (2000). Neuropsychological differentiation of depression and anxiety. Journal of Abnormal Psychology, *109*, 3-10.
10. Nitschke, J.B., Heller, W., Imig, J.C., McDonald, R.P., & Miller, G.A. (2001). Distinguishing dimensions of anxiety and depression. Cognitive Therapy and Research, *25*, 1-22.
11. Pizzagalli, D., Pascual-Marqui, R.D., Nitschke, J.B., Larson, C.L., Oakes, T.R., Abercrombie, H.C., Schaefer, S.M., Koger, J.V., Benca, R.M., & Davidson, R.J. (2001). Anterior cingulate activity predicts degree of treatment response in major depression: Evidence from brain electrical tomography analysis. American Journal of Psychiatry, *158*, 405-415.
12. Davidson, R.J., Pizzagalli, D., Nitschke, J.B., & Putnam, K. (2002). Depression: Perspectives from affective neuroscience. Annual Review of Psychology, *53*, 545-574.
13. Nitschke, J.B., Larson, C.L., Smoller, J.J., Navin, S. D., Pederson, A.J.C., Ruffalo, D., Mackiewicz, K.L., Gray, S.M., Victor, E., & Davidson, R.J. (2002). Startle potentiation in aversive anticipation: Evidence for state but not trait effects. Psychophysiology, *39*, 254-258.
14. Pizzagalli, D.A., Nitschke, J.B., Oakes, T.R., Hendrick, A.M., Horras, K.A., Larson, C.L., Abercrombie, H.C., Schaefer, S.M., Koger, J.V., Benca, R.M., Pascual-Marqui, R.D., & Davidson, R.J. (2002). Brain electrical tomography in depression: The importance of symptom severity, anxiety, and melancholic features. Biological Psychiatry, *52*, 73-85.
15. Jackson, D.J., Mueller, C.J., Dolski, I., Dalton, K.M., Nitschke, J.B., Urry, H.L., Rosenkranz, M.A., Ryff, C.D., Singer, B.D., & Davidson, R.J. (2003). Now you feel it, now you don't: Frontal EEG asymmetry and individual differences in emotion regulation. Psychological Science, *14*, 612-617.
16. Nitschke, J.B., Nelson, E.E., Rusch, B.D., Fox, A.S., Oakes, T.R., & Davidson, R.J. (2004). Orbitofrontal cortex tracks positive mood in mothers viewing pictures of their infants. NeuroImage, *21*, 583-592.

17. Nitschke, J.B., Heller, W., Etienne, M.A., & Miller, G.A. (2004). Prefrontal cortex activation differentiates processes affecting memory in depression. Biological Psychology, *67*, 125-143.
18. Urry, H.L., Nitschke, J.B., Dolski, I., Jackson, D.C., Dalton, K.M., Mueller, C.J., Rosenkranz, M.A., Ryff, C.D., Singer, B.H., & Davidson, R.J. (2004). Making a life worth living: Neural correlates of well-being. Psychological Science, *15*, 367-372.
19. Nitschke, J.B., Sarinopoulos, I., Mackiewicz, K.L., Schaefer, H.S., & Davidson, R.J. (2006). Functional neuroanatomy of aversion and its anticipation. NeuroImage, *29*, 106-116.
20. Nitschke, J.B., Dixon, G.E., Sarinopoulos, I., Short, S.J., Cohen, J.D., Smith, E.E., Kosslyn, S.M., Rose, R.M., & Davidson, R.J. (2006). Altering expectancy dampens neural response to aversive taste in primary taste cortex. Nature Neuroscience, *9*, 435-442.
21. Sarinopoulos, I., Dixon, G.E., Short, S.J., Davidson, R.J., & Nitschke, J.B. (2006). Brain mechanisms of expectation associated with insula and amygdala response to aversive taste: Implications for placebo. Brain, Behavior, and Immunity, *20*, 120-132.
22. Mackiewicz, K.L., Sarinopoulos, I., Cleven, K.L., & Nitschke, J.B. (2006). The effect of anticipation and the specificity of sex differences for amygdala and hippocampus function in emotional memory. Proceedings of the National Academy of Sciences of the United States of America, *103*, 14200-14205.
23. Larson, C.L., Nitschke, J. B., & Davidson, R.J. (2007). Common and distinct patterns of affective response in dimensions of anxiety and depression. Emotion, *7*, 182-191.
24. Whalen, P.J., Johnstone, T., Somerville, L.H., Nitschke, J.B., Polis, S., Ihde-Scholl, T., Tarleton, L., Alexander, A.L., Davidson, R.J., & Kalin, N.H. (in press). A functional MRI predictor of treatment response to venlafaxine in generalized anxiety disorder. Biological Psychiatry.
25. Oathes, D.J., Bruce, J.M., & Nitschke, J.B. (in press). Worry facilitates corticospinal motor response to transcranial magnetic stimulation. Depression and Anxiety.
26. Nitschke, J.B., Sarinopoulos, I., Oathes, D.J., Johnstone, T., Whalen, P.J., Davidson, R.J., & Kalin, N.H. (under review). Anticipatory activation in the amygdala and anterior cingulate in generalized anxiety disorder and prediction of treatment response.

Book Chapters

1. Nitschke, J.B., Heller, W., & Miller, G.A. (2000). Anxiety, stress, and cortical brain function. In J.C. Borod (Ed.), The Neuropsychology of Emotion (pp. 298-319). New York: Oxford University Press.
2. Davidson, R.J., Pizzagalli, D., & Nitschke, J.B. (2002). The representation and regulation of emotion in depression: Perspectives from affective neuroscience. In I.H. Gotlib & C.L. Hammen (Eds.), Handbook of Depression (pp. 219-244). New York: Guilford Press.
3. Heller, W., Isom, J., Nitschke, J.B., Koven, N.S., & Miller, G.A. (2002). States, traits, and symptoms: Investigating the neural correlates of emotion, personality, and psychopathology. In D. Cervone & W. Mischel (Eds.), Advances in Personality Science (pp. 106-126). New York: Guilford Press.
4. Nitschke, J.B., & Heller, W. (2002). The neuropsychology of anxiety disorders: Affect, cognition, and neural circuitry. In H. D'Haenen, J.A. den Boer, & P. Willner (Eds.), Biological Psychiatry (pp. 975-988). Chichester, UK: John Wiley & Sons, Ltd.
5. Davidson, R.J., Pizzagalli, D., Nitschke, J.B., & Kalin, N.H. (2003). Parsing the

- subcomponents of emotion and disorders of emotion: Perspectives from affective neuroscience. In R.J. Davidson, K.R. Scherer, & H.H. Goldsmith (Eds.), Handbook of Affective Sciences (pp. 8-24). New York: Oxford University Press.
6. Nitschke, J.B., & Heller, W. (2005). Distinguishing neural substrates of heterogeneity among anxiety disorders. International Review of Neurobiology, *67*, 1-42.
 7. Nitschke, J.B., & Mackiewicz, K.L. (2005). Prefrontal and anterior cingulate contributions to volition in depression. International Review of Neurobiology, *67*, 73-94.
 8. Nitschke, J.B., & Mackiewicz, K.L. (2006). Prefrontal and anterior cingulate contributions to volition in depression. In N. Sebanz, & W. Prinz (Eds.), Disorders of Volition (pp. 251-274). Cambridge, MA: MIT Press.
 9. Davidson, R.J., Pizzagalli, D., & Nitschke, J.B. (in press). Affect and depression: Perspectives from affective neuroscience. In D.M. Barch (Ed.), Cognitive and Affective Neuroscience of Psychopathology. New York: Oxford University Press.
 10. Herrington, J.D., Koven, N.S., Miller, G.A., Heller, W., & Nitschke, J.B. (in press). Frontal asymmetry in emotion, personality and psychopathology: Methodological issues in electrocortical and hemodynamic neuroimaging. In S.J. Wood, N. Allen, & C. Pantelis (Eds.), Handbook of the Neuropsychology of Mental Disorders. Cambridge, UK: Cambridge University Press.
 11. Nitschke, J.B., & Heller, W. (in press). Distinguishing neural substrates of heterogeneity among anxiety disorders. In D.M. Barch (Ed.), Cognitive and Affective Neuroscience of Psychopathology. New York: Oxford University Press.

Commentaries in Refereed Journals

1. Wager, T.D., & Nitschke, J.B. (2005). Placebo effects in the brain: Linking mental and physiological processes. Brain, Behavior, and Immunity, *19*, 281-282.

Abstracts in Refereed Journals

1. Braggio, J.T., Pishkin, V., & Nitschke, J.B. (1991). Cognitive performance and psychophysiological activity in alcohol abusing adolescents. Psychophysiology, *28*, S14.
2. Nitschke, J.B., Heller, W., Etienne, M.A., Taitano, E.K., Cecola, T.A., & Miller, G.A. (1994). Moderating effects of extraversion on regional brain activity in anxiety. Psychophysiology, *31*, S72.
3. Nitschke, J.B., Heller, W., Etienne, M.A., & Miller, G.A. (1995). Specificity of frontal EEG asymmetry in anxiety and depression during emotion processing. Psychophysiology, *32*, S56.
4. Nitschke, J.B., Heller, W., Palmieri, P.A., & Miller, G.A. (1997). Cerebral asymmetry, life stress, and depression: Testing a diathesis/stress model. Psychophysiology, *34*, S67.
5. Larson, C.L., Irwin, W., Nitschke, J.B., Navin, S.D., Ruffalo, D., Shackman, A.J., & Davidson, R.J. (2000). Self-report correlates of reactivity to visual affective stimuli indexed with emotion modulated startle: Specificity of a new measure. Psychophysiology, *37*, S62.
6. Nitschke, J.B., Larson, C.L., Navin, S.D., Gray, S., Ruffalo, D., Smoller, M., Victor, E., Mackiewicz, K., & Davidson, R.J. (2000). Emotion-modulated startle in anticipation of and response to affective stimuli in anxiety and depression. Psychophysiology, *37*, S74.
7. Pizzagalli, D., Nitschke, J.B., Pascual-Marqui, R.D., Larson, C.L., Oakes, T.R., Abercrombie, H.C., Schaefer, S.M., Koger, J.V., Benca, R.M., & Davidson, R.J. (2000).

Degree of treatment response in major depression is predicted by anterior cingulate activity: A Low Resolution Electromagnetic Tomography (LORETA) analysis. Psychophysiology, 37, S79.

8. Nitschke, J.B., Larson, C.L., & Davidson, R.J. (2001). Distinguishing affective dimensions contributing to emotion-modulated startle in depression. Psychophysiology, 38, S13.
9. Davidson, R.J., Putnam, K.M., Nitschke, J.B., Larson, C.L., Schaefer, H.S., & Dalton, K. (2002). Probing the circuitry of emotion, emotion regulation and affective style. Psychophysiology, 39, S15.
10. Nitschke, J.B., Urry, H.L., Nelson, E.E., & Davidson, R.J. (2002). Neural circuitry in positive emotion: Maternal love and well-being. Psychophysiology, 39, S4-S5.
11. Nitschke, J.B., Heller, W., Etienne, M.A., & Miller, G.A. (2003). Prefrontal cortex activation differentiates strategy initiation and cognitive bias processes affecting memory in depression. Psychophysiology, 40, S20.

INVITED PRESENTATIONS

1. Nitschke, J.B. (1997, November). Understanding cortical brain activity in depression and anxiety. Invited talk presented at Northwestern University, Evanston, IL.
2. Nitschke, J.B., Heller, W., & Miller, G.A. (1998, May). Psychometric differentiation of affective dimensions: Implications for the tripartite model. In S.J. Catanzaro (Chair), The tripartite model of anxiety and depression: Current research and future prospects. Invited talk presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL.
3. Nitschke, J.B. (1999, August). Affective and physiological indicators of anxiety and depression: From startle reflex to fMRI. Invited talk presented at the annual Emotion Training Program Workshop, University of Wisconsin, Madison, WI.
4. Nitschke, J.B. (2001, June). Brain electrophysiology in anxiety: Challenging the assumption of homogeneity. In S.K. Sutton (Chair), Affective states, traits, and symptoms: EEG explorations. Invited talk presented at the annual meeting of the American Psychological Society, Toronto, Ontario, Canada.
5. Nitschke, J.B. (2001, August). Neural circuitry of positive emotion: An fMRI study of mothers viewing pictures of their infants. Invited talk presented at the 2001 Positive Psychology Summer Institute, Sea Ranch, CA.
6. Nitschke, J.B., Nelson, E.E., & Davidson, R.J. (2002, February). Brain circuits in positive and negative emotion: Contributions of widely distributed structures serving specific functions. In E. Harmon-Jones (Chair), Brain mechanisms involved in emotion and personality. Invited talk presented at the annual meeting of the Society for Personality and Social Psychology, Savannah, GA.
7. Nitschke, J.B., Urry, H.L., Nelson, E.E., & Davidson, R.J. (2002, October). Neural circuitry in positive emotion: Maternal love and well-being. In J.B. Nitschke (Chair), Probing the psychophysiology of positive emotion. Invited talk at the annual meeting of the Society for Psychophysiological Research, Washington, DC.
8. Nitschke, J.B. (2002, October). Forays into the brain circuitry of positive emotion. Invited talk presented for the Tri-Beta Honor Society, University of Wisconsin, Madison, WI.
9. Nitschke, J.B., Heller, W., Etienne, M.A., & Miller, G.A. (2003, November). Prefrontal cortex activation differentiates strategy initiation and cognitive bias processes affecting

- memory in depression. In R.A. Atchley & J.B. Nitschke (Chairs), Neurophysiology of cognitive abnormalities in depression. Invited talk presented at the annual meeting of the Society for Psychophysiological Research, Chicago, IL.
10. Nitschke, J.B., Heller, W., Pizzagalli, D., & Davidson, R.J. (2003, December). Prefrontal and anterior cingulate contributions to avolition in depression. Invited talk presented at conference on Disorders of Volition, Irsee, Germany.
 11. Nitschke, J.B. (2004, June). Functional imaging of mood and depression. In T. Paus (Chair), Depression. Invited talk presented at the annual meeting of the Organization for Human Brain Mapping, Budapest, Hungary.
 12. Nitschke, J.B. (2005, May). Neuropsychology and neuroimaging of anxiety and depression. Invited talk presented at the annual meeting of the Midwest Neuropsychology Group, Madison, WI.
 13. Nitschke, J.B. (2006, February). Anticipation of aversive events in the human brain: a model for anxiety and its disorders. Invited talk presented at Grand Rounds in the Department of Psychiatry, University of Wisconsin, Madison, WI.
 14. Nitschke, J.B. (2006, June). Neural correlates of manipulating expectations of aversive taste: Implications for placebo. In J.B. Nitschke & T.D. Wager (Chairs), Imaging the placebo effect. Invited talk presented at the annual meeting of the Organization for Human Brain Mapping, Florence, Italy.
 15. Nitschke, J.B. (2006, September). The power of expectancy, anxiety, and the brain. Invited talk presented at Chaos Theory and Complex Systems seminar series, University of Wisconsin, Madison, WI.
 16. Nitschke, J.B. (2006, November). The power of expectancy, anxiety, and the brain. Invited talk presented at Keck Biological Imaging seminar series, University of Wisconsin, Madison, WI.
 17. Nitschke, J.B. (2007, March). The power of expectancy, anxiety, and the brain. Invited talk presented at Biology of Brain and Behavior seminar series in Department of Psychology, University of Wisconsin, Madison, WI.

CONFERENCE PRESENTATIONS

1. Braggio, J.T., Pishkin, V., & Nitschke, J.B. (1991, October). Cognitive performance and psychophysiological activity in alcohol abusing adolescents. Poster session presented at the annual meeting of the Society for Psychophysiological Research, Chicago, IL.
2. Braggio, J.T., Pishkin, V., & Nitschke, J.B. (1991, November). Effects of failure on Concept Identification (CI) performance and psychophysiological activity of substance abusing, conduct disordered, and normal student control adolescents. Poster session presented at the annual meeting of the Oklahoma Psychological Association, Oklahoma City, OK.
3. Nitschke, J.B., Braggio, J.T., Pishkin, V., & Brooks, D.L. (1991, November). Influence of criminal behaviors in alcohol-abusing and conduct-disordered adolescents on cognitive performance and psychophysiological activity. Paper presented at the annual meeting of the Oklahoma Psychological Association, Oklahoma City, OK.
4. Nitschke, J.B., Braggio, J.T., Pishkin, V., & Brooks, D.L. (1991, November). Effects of failure on cognitive performance and psychophysiological activity in alcohol-abusing and conduct-disordered adolescents, with or without criminal behaviors, and student controls. Poster session presented at the annual meeting of the Oklahoma Psychological Association, Oklahoma City, OK.

5. Nitschke, J.B., Heller, W., & Lindsay, D. (1994, May). Posterior right hemisphere activity, emotion, and self-reported arousal. Paper presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL.
6. Nitschke, J.B., Heller, W., Etienne, M.A., Taitano, E.K., Cecola, T.A., & Miller, G.A. (1994, October). Moderating effects of extraversion on regional brain activity in anxiety. Poster session presented at the annual meeting of the Society for Psychophysiological Research, Atlanta, GA.
7. Nitschke, J.B., Heller, W., Etienne, M.A., & Miller, G.A. (1995, October). Specificity of frontal EEG asymmetry in anxiety and depression during emotion processing. Poster session presented at the annual meeting of the Society for Psychophysiological Research, Toronto, Ontario, Canada.
8. Etienne, M.A., Heller, W., Nitschke, J.B., & Miller, G.A. (1995, October). Gender affects regional brain activity in anxiety and depression. Poster session presented at the annual meeting of the Society for Research in Psychopathology, Iowa City, IO.
9. Heller, W., Nitschke, J.B., Etienne, M.A., & Miller, G.A. (1995, October). Regional brain activity differentiates anxiety subtypes. Paper presented at the annual meeting of the Society for Research in Psychopathology, Iowa City, IO.
10. Nitschke, J.B., Heller, W., Imig, J., Chiang, J., Von Behren, J., & Miller, G.A. (1996, September). Distinguishing subtypes of anxiety and depression: Further construct development, comorbidity, and neuropsychological implications. Poster session presented at the annual meeting of the Society for Research in Psychopathology, Atlanta, GA.
11. Nitschke, J.B., Palmieri, P.A., Miller, G.A., & Heller, W. (1997, June). Opposing patterns of brain activity in different types of anxiety. Paper presented at the 4th Laterality and Psychopathology Conference, London, England.
12. Heller, W., Nitschke, J.B., Palmieri, P.A., & Miller, G.A. (1997, June). To divide is not to take away: New integrations of regional brain physiology and cognition in depression and anxiety. Paper presented at the 4th Laterality and Psychopathology Conference, London, England.
13. Nitschke, J.B., Heller, W., Palmieri, P.A., & Miller, G.A. (1997, October). Cerebral asymmetry, life stress, and depression: Testing a diathesis/stress model. Poster session presented at the annual meeting of the Society for Psychophysiological Research, Cape Cod, MA.
14. Heller, W., Nitschke, J.B., Keller, J., & Miller, G.A. (1998, May). Neuropsychological differentiation of affective dimensions: Implications for the tripartite model. In S.J. Catanzaro (Chair), The tripartite model of anxiety and depression: Current research and future prospects. Symposium conducted at the annual meeting of the Midwestern Psychological Association, Chicago, IL.
15. Nitschke, J.B., Heller, W., & Miller, G.A. (1998, May). Psychometric differentiation of affective dimensions: Implications for the tripartite model. In S.J. Catanzaro (Chair), The tripartite model of anxiety and depression: Current research and future prospects. Symposium conducted at the annual meeting of the Midwestern Psychological Association, Chicago, IL.
16. Etienne, M.A., Heller, W., Nitschke, J.B., & Miller, G.A. (1999, November). Frontal brain activity is related to memory performance in depression. Poster session presented at the annual meeting of the Society for Research in Psychopathology, Montreal, Quebec, Canada.
17. Heller, W., Nitschke, J.B., Etienne, M.A., Compton, R.J., & Miller, G.A. (1999, November). Cognition/emotion relationships in depression and anxiety. In D.M. Barch &

- W. Heller (Chairs), Substrates of cognitive and emotional processing: Common or separate mechanisms? Symposium conducted at the annual meeting of the Society for Research in Psychopathology, Montreal, Quebec, Canada.
18. Jackson, D.C., Nitschke, J.B., Seidenberg, M., Hermann, B., Bell, B., Dow, C., Burghy, C.A., & Davidson, R.J. (1999, November). Duration of active temporal lobe epilepsy is associated with increased negative and decreased positive affect. Poster session presented at the annual meeting of the Society for Research in Psychopathology, Montreal, Quebec, Canada.
 19. Nitschke, J.B., Larson, C.L., Navin, S.D., Nietert, J.Y., Jackson, D.C., & Davidson, R.J. (1999, November). Emotion-modulated startle in anxiety and depression. Poster session presented at the annual meeting of the Society for Research in Psychopathology, Montreal, Quebec, Canada.
 20. Jackson, D.C., Nitschke, J.B., Seidenberg, M., Hermann, B., Bell, B., Dow, C., Burghy, C.A., & Davidson, R.J. (2000, February). Duration of active temporal lobe epilepsy is associated with increased negative and decreased positive affect. Poster session presented at the annual meeting of the International Neuropsychological Society, Denver, CO.
 21. Larson, C.L., Irwin, W., Nitschke, J.B., Navin, S.D., Ruffalo, D., Shackman, A.J., & Davidson, R.J. (2000, October). Self-report correlates of reactivity to visual affective stimuli indexed with emotion modulated startle: Specificity of a new measure. Poster session presented at the annual meeting of the Society for Psychophysiological Research, San Diego, CA.
 22. Nitschke, J.B., Larson, C.L., Navin, S.D., Gray, S., Ruffalo, D., Smoller, M., Victor, E., Mackiewicz, K., & Davidson, R.J. (2000, October). Emotion-modulated startle in anticipation of and response to affective stimuli in anxiety and depression. Poster session presented at the annual meeting of the Society for Psychophysiological Research, San Diego, CA.
 23. Pizzagalli, D., Nitschke, J.B., Pascual-Marqui, R.D., Larson, C.L., Oakes, T.R., Abercrombie, H.C., Schaefer, S.M., Koger, J.V., Benca, R.M., & Davidson, R.J. (2000, October). Degree of treatment response in major depression is predicted by anterior cingulate activity: A Low Resolution Electromagnetic Tomography (LORETA) analysis. Poster session presented at the annual meeting of the Society for Psychophysiological Research, San Diego, CA.
 24. Pizzagalli, D., Nitschke, J.B., Pascual-Marqui, R.D., Larson, C.L., Abercrombie, H.C., Schaefer, S.M., Oakes, T.R., Koger, J.V., Benca, R.M., & Davidson, R.J. (2000, December). Brain electrical correlates of depression derived from a new source localization method. Poster session presented at the annual meeting of the Society for Research in Psychopathology, Boulder, CO.
 25. Putnam, K.M., Rosenkranz, M.A., Mueller, C.J., Zhang, R., Slagter, H.A., Anderle, M.J., Schaefer, H., Ng, E.B., Nitschke, J.B., Benca, R.M., Jahn, A.L., & Davidson, R.J. (2000, December). Event-related functional magnetic resonance imaging during the presentation of affective images in depressed versus nondepressed participants. Poster session presented at the annual meeting of the Society for Research in Psychopathology, Boulder, CO.
 26. Putnam, K.M., Mueller, C.J., Skolnick, A.J., Zhang, R., Slagter, H.A., Benca, R.M., Ng, E.B., Kinsella, E.C., Jahn, A.L., Nitschke, J.B., Pizzagalli, D., Greischar, L., Pederson, A., & Davidson, R.J. (2000, December). Dense array EEG activity during conditions of reward and threat in depressed versus nondepressed participants. Poster session presented at the annual meeting of the Society for Research in Psychopathology, Boulder, CO.

27. Pizzagalli, D., Nitschke, J.B., Pascual-Marqui, R.D., Larson, C.L., Oakes, T.R., Benca, R.M., & Davidson, R.J. (2001, January). Degree of treatment response in major depression is predicted by anterior cingulate activity: A Low Resolution Electromagnetic Tomography (LORETA) analysis. Poster session presented at the joint meeting of the Swiss Society for Neuroscience and the Swiss Society for Clinical Neurophysiology, Bern, Switzerland.
28. Nelson, E.E., Nitschke, J.B., Rusch, B.D., Oakes, T.R., Anderle, M.J., Ferber, K.L., Pederson, A.J.C., & Davidson, R.J. (2001, June). Motherly love: An fMRI study of mothers viewing pictures of their infants. Poster session presented at the annual meeting of Human Brain Mapping, Cambridge, England.
29. Nitschke, J.B. (2001, June). Brain electrophysiology in anxiety: Challenging the assumption of homogeneity. In S.K. Sutton (Chair), Affective states, traits, and symptoms: EEG explorations. Symposium conducted at the annual meeting of the American Psychological Society, Toronto, Ontario, Canada.
30. Nitschke, J.B., Larson, C.L., & Davidson, R.J. (2001, October). Distinguishing Affective Dimensions Contributing to Emotion-modulated Startle in Depression. In N.B. Allen (Chair), Affective and attentional startle modulation in depression. Symposium conducted at the annual meeting of the Society for Psychophysiological Research, Montreal, Quebec, Canada.
31. Nitschke, J.B., Schaefer, H.S., Mackiewicz, K., Skinner, B.T., Possin, A.A., Lee, H., Oakes, T.R., Anderle, M.J., Ihde-Scholl, T., Tarleton, L.C., Marler, C., Pederson, A.J.C., Ferber, K.L., & Davidson, R.J. (2001, November). Disentangling the anticipation of and response to aversive pictures: An event-related fMRI study. Poster session presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
32. Putnam, K.M., Mueller, C.J., Schaefer, H., Jahn, A.L., Ng, E.B., Nitschke, J.B., Benca, R.M., Anderle, M.J., Zhang, R., Postle, B., & Davidson, R.J. (2001, November). Event-related functional magnetic resonance imaging during the presentation of affective images in depressed versus nondepressed participants. Paper session presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
33. Nitschke, J.B., Nelson, E.E., & Davidson, R.J. (2002, February). Brain circuits in positive and negative emotion: Contributions of widely distributed structures serving specific functions. In E. Harmon-Jones (Chair), Brain mechanisms involved in emotion and personality. Symposium conducted at the annual meeting of the Society for Personality and Social Psychology, Savannah, GA.
34. Davidson, R.J., Putnam, K.P., Nitschke, J.B., Larson, C.L., Schaefer, H.S., & Dalton, K. (2002, October). Probing the circuitry of emotion, emotion regulation and affective style. In A. Schienle (Chair), Emotion and fMRI. Symposium conducted at the annual meeting of the Society for Psychophysiological Research, Washington, DC.
35. Nitschke, J.B. (2002, October). Probing the psychophysiology of positive emotion. Symposium chaired at the annual meeting of the Society for Psychophysiological Research, Washington, DC.
36. Nitschke, J.B., Urry, H.L., Nelson, E.E., & Davidson, R.J. (2002, October). Neural circuitry in positive emotion: Maternal love and well-being. In J.B. Nitschke (Chair), Probing the psychophysiology of positive emotion. Symposium conducted at the annual meeting of the Society for Psychophysiological Research, Washington, DC.
37. Johnstone, T., Whalen, P.J., Nitschke, J.B., Somerville, L.H., Ihde-Scholl, T., Tarleton, L., Seman, L., Davidson, R.J., & Kalin, N.H. (2002, November). Amygdala activation to

- fearful facial expressions in generalized anxiety disorder (GAD). Poster session presented at the annual meeting of the Society for Neuroscience, Orlando, FL.
38. Nitschke, J.B., Johnstone, T., Possin, A.A., Mackiewicz, K.L., Somerville, L.H., Schaefer, H.S., Whalen, P.J., Seman, L., Kalin, N.H., & Davidson, R.J. (2002, November). Altered fMRI responses to the anticipation of and exposure to aversion in generalized anxiety disorder. Paper session presented at the annual meeting of the Society for Neuroscience, Orlando, FL.
 39. Johnstone, T., Somerville, L.H., Nitschke, J.B., Alexander, A.L., Davidson, R.J., Kalin, N.H., & Whalen, P.J. (2003, June). Stability of amygdala BOLD response to fearful faces over multiple scan sessions. Poster session presented at the annual meeting of the Organization for Human Brain Mapping, New York City, NY.
 40. Atchley, R.A., & Nitschke, J.B. (2003, November). Neurophysiology of cognitive abnormalities in depression. Symposium chaired at the annual meeting of the Society for Psychophysiological Research, Chicago, IL.
 41. Nitschke, J.B., Heller, W., Etienne, M.A., & Miller, G.A. (2003, November). Prefrontal cortex activation differentiates strategy initiation and cognitive bias processes affecting memory in depression. In R.A. Atchley & J.B. Nitschke (Chairs), Neurophysiology of cognitive abnormalities in depression. Symposium conducted at the annual meeting of the Society for Psychophysiological Research, Chicago, IL.
 42. Nitschke, J.B., Heller, W., Pizzagalli, D., & Davidson, R.J. (2003, December). Prefrontal and anterior cingulate contributions to avolition in depression. Invited talk presented at conference on Disorders of Volition, Irsee, Germany.
 43. Mackiewicz, K.L., Schaefer, H.S., Cleven, K.L., Bluske, K.K., & Nitschke, J.B. (2004, June). Neural circuitry of the anticipation of and reactivity to aversive and ambiguous stimuli. Poster session presented at the annual meeting of the Organization for Human Brain Mapping, Budapest, Hungary.
 44. Nitschke, J.B. (2004, June). Functional imaging of mood and depression. In T. Paus (Chair), Depression. Symposium presented at the annual meeting of the Organization for Human Brain Mapping, Budapest, Hungary.
 45. Sarinopoulos, I., Mackiewicz, K.L., Schaefer, H.S., Davidson, R.J., & Nitschke, J.B. (2004, June). Neural correlates of anticipating and reacting to aversive pictures: An event-related fMRI study. Poster session presented at the annual meeting of the Organization for Human Brain Mapping, Budapest, Hungary.
 46. Mackiewicz, K.L., Bluske, K.K., Kubota, J.T., Schaefer, H.S., & Nitschke, J.B. (2004, November). Neural correlates of aversive anticipation predict subsequent episodic memory. Poster session presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
 47. Dixon, G.E., Nitschke, J.B., Short, S.J., Lakshmanan, A., Carew, M.E., Anderle, M.J., Schaefer, H.S., Johnstone, T., Cohen, J.D., Kosslyn, S.M., Smith, E.E., & Davidson, R.J. (2004, October). The neural correlates of anticipation: The functional neurobiology of gustatory expectancy in the human brain. Poster session presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
 48. Mackiewicz, K.L., Cleven, K.L., Bluske, K.K., Sarinopoulos, I., & Nitschke, J.B. (2005, June). Amygdala and hippocampus contributions to emotional memory during the anticipation of and response to aversion. Poster session presented at the annual meeting of the Organization for Human Brain Mapping, Toronto, Canada.
 49. Cleven, K.L., Mackenrodt, D.B., Sarinopoulos, I., Possin, A.A., & Nitschke, J.B. (2005, June). Neural correlates of a mother's bond to her newborn infant. Poster session

- presented at the annual meeting of the Organization for Human Brain Mapping, Toronto, Canada.
50. Sarinopoulos, I., Johnstone, T., Somerville, L.H., Seman, L., Whalen, P.J., Davidson, R.J., Kalin, N.H., & Nitschke, J.B. (2005, November). Neural abnormalities during the anticipation of aversion in generalized anxiety disorder. Poster session presented at the annual meeting of the Society for Neuroscience, Washington, DC.
 51. Kerr, D.L., Schaefer, H.S., Bluske, K.K., Sarinopoulos, I., Steege, E.E., Herrington, J.D., Curtin, J.J., & Nitschke, J.B. (2006, April). Impact of uncontrollability on brain areas activated by the anticipation of disgust and phobogenic snake videos. Poster session presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
 52. Nitschke, J.B., & Wager, T.D. (2006, June). Imaging the placebo effect. Symposium chaired at the annual meeting of the Organization for Human Brain Mapping, Florence, Italy.
 53. Nitschke, J.B. (2006, June). Neural correlates of manipulating expectations of aversive taste: Implications for placebo. In J.B. Nitschke & T.D. Wager (Chairs), Imaging the placebo effect. Symposium presented at the annual meeting of the Organization for Human Brain Mapping, Florence, Italy.
 54. Sarinopoulos, I., Mackiewicz, K.L., Steege, E.E., & Nitschke, J.B. (2006, June). Uncertainty heightens amygdala and insula responses to aversive stimuli. Poster presented at the annual meeting of the Organization for Human Brain Mapping, Florence, Italy.
 55. Kerr, D., Sarinopoulos, I., Schaus, A.J., Green, D.E., Curtin, J.J., & Nitschke, J. B. (2006, October). Neural correlates of anticipation and uncontrollability in snake phobia. Poster session presented at the annual meeting of the Society for Neuroscience, Atlanta, GA.
 56. Herrington, J.D., Sarinopoulos, I., Steege, E.E., Lor, M.Y., & Nitschke, J. B. (2006, October). The influence of uncertainty on functional connectivity during the perception of aversive pictures. Poster session presented at the annual meeting of the Society for Neuroscience, Atlanta, GA.
 57. Schaus, A.J., Kerr, D.L., Sarinopoulos, I., Lor, M.Y., Green, D.E., & Nitschke, J.B. (2007, May). Effect of anticipation on memory of emotionally salient stimuli in a clinical population of snake phobics. Poster session presented at the annual meeting of the Cognitive Neuroscience Society, New York City, NY.
 58. Kerr, D.L., Sarinopoulos, I., Schaus, A.J., Green, D.E., & Nitschke, J.B. (2007, June). Impact of controllability on neural activity during anticipation of disgust videos. Poster session presented at the annual meeting of the Organization for Human Brain Mapping, Chicago, IL.
 59. Sarinopoulos, I., Lor, M.Y., Steege, E.E., Mackiewicz, K.L., & Nitschke, J.B. (2007, June). Distinguishing neural responses to aversion and uncertainty. Poster session presented at the annual meeting of the Organization for Human Brain Mapping, Chicago, IL.
 60. Oathes, D.J., Sarinopoulos, I., Lor, M.Y., Kalin, N.H., & Nitschke, J.B. (2007, October). Normalization of amygdala function in generalized anxiety disorder patients following treatment with venlafaxine. Poster session presented at the annual meeting of the Society for Research in Psychopathology, Iowa City, IA.
 61. Oathes, D.J., Sarinopoulos, I., Kalin, N.H., & Nitschke, J.B. (2007, November). Neural activity in anticipation of and in response to both aversive and neutral pictures in

generalized anxiety disorder. Poster session to be presented at the annual meeting of the Society for Neuroscience, San Diego, CA.