

CURRICULUM VITAE

Revised 6/6/16

Name: J. Douglas Bremner, M.D.

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Birth Place: Topeka, Kansas

Citizenship: US

Current Titles and Affiliations:

a. Academic appointments:

Primary appointments: Professor with Tenure of Psychiatry and Behavioral Sciences, Emory University School of Medicine, 2006-present

Joint and secondary appointments:

Professor of Radiology, Emory University School of Medicine, 2006-present

Faculty Member, Emory Neuroscience Graduate Program, Division of Biological & Biomedical Sciences, Graduate School of Arts & Sciences, Emory University, 2005-present

b. Clinical appointments:

Attending Physician, Emory University Hospital and Emory Clinic, 2001-present

Staff Psychiatrist, Atlanta VAMC, 2001-present

c. Other administrative appointments:

Director, Mental Health Research, Atlanta VAMC, 2001-present

Director, Emory Clinical Neuroscience Research Unit, 2001-present

Previous Academic and Professional Appointments:

1991-1992 Medical Director, Inpatient Unit, National Center for PTSD, West Haven, CT

1992-95 Assistant Professor, Department of Psychiatry,

Yale University School of Medicine

- 1993-1996 Associate Investigator, VA Career Development Award Program, West Haven VA Medical Center, West Haven, CT
- 1997-2000 Assistant Professor, Departments of Diagnostic Radiology and Psychiatry, Yale University School of Medicine
- 1997 Clinical Associate Physician, NIH-sponsored GCRC
- 1997-2001 Research Physician (Level II), VA Career Development Award Program
- 2000 Associate Professor in the Tenure Track, Departments of Diagnostic Radiology and Psychiatry, Yale University School of Medicine
- 2001-2006 Associate Professor of Psychiatry and Radiology, Emory University School of Medicine

Previous Administrative Appointments:

- 1997-2000 Director, Yale Trauma Research Program
- 1998-2000 Associate Director, Yale/VA PET Center
- 2001-2006 Director, Emory Center for Positron Emission Tomography

Licensures/Boards: Georgia Medical Licensure, # 049509

Specialty Boards: Board Certification in Psychiatry and Neurology (1998, renewed 2008); Board Certification in Nuclear Medicine (2001)

Education:

B.A. with Honors, English Literature and Core Curriculum in the Classics, University of Puget Sound, Tacoma, Washington, 1983

M.D., Duke University School of Medicine, Durham, North Carolina, 1987

Postgraduate Training:

- 1985-1986 Research Fellowship in the Laboratory of Reproductive Endocrinology, Department of Medicine, University of Washington School of Medicine & Seattle VAMC

- 1987-1988 Medical Intern, Greenwich Hospital Association, Yale University School of Medicine, Greenwich, CT
- 1987-1991 Residency in Psychiatry, Yale University School of Medicine, New Haven, CT
- 1990-1993 VA Psychiatry and Clinical Neurosciences Fellowship, West Haven VA Medical Center, West Haven, CT
- 1995-1997 Residency in Nuclear Medicine, Department of Diagnostic Radiology, Yale University School of Medicine, New Haven CT

Military or Government Service:

- 1990-1993 VA Psychiatric Research/Neurosciences Fellow, West Haven VA Medical Center, West Haven, CT
- 1993-1996 Associate Investigator, VA Career Development Award Program, West Haven VA Medical Center, West Haven, CT
- 1997-2001 Research Physician (Level II), VA Career Development Award Program
- 2001-present Staff Physician, 5/8 time, Atlanta VAMC

Committee Memberships:

a. National and International:

Scientific Advisory Boards & Organizations

- Scientific Advisory Board, Anxiety Disorders Association of America (ADAA), 1998-2008
- Publications Committee, ADAA, 2002-2008
- Program Committee, ADAA, 2003
- Program Committee, International Society for Traumatic Stress, 2005
- Founding Member, Academy for Research on Traumatic Stress (ARTS), 2004
- Planning Committee for Brain Imaging in Gulf War Illness, Veterans Administration, 2003-2007
- Research Advisory Board, One Freedom, 2008-present

Scientific Review Committees

- Member, Veterans Administration (VA) Merit Review Subcommittee for Mental Health and Behavioral Sciences (MHBS), 2003-2006
- VA Merit Review Committee, Ad hoc reviewer, 1995-2003
- VA Psychiatry/Clinical Neurosciences Fellowships, Ad hoc reviewer, 1995-2003
- VA Career Development Awards, Ad hoc reviewer, 1995-2003

Member, VA Research Career Development Award Committee, 2007
 National Institute of Health, Center for Scientific Review (NIH CSR), Member,
 Special Emphasis Panels: ZRG1 SSS-C-01 Childhood neglect, 2000;
 ZMH1 ERB-s(11) HIV and Psychiatric Comorbidity, 6/29/05
 NIH CSR Temporary Member, Developmental Disabilities and Child
 Psychopathology Study Section, Biobehavioral and Behavioral Processes
 6 (BBBP-6) IRG, 2002-2003; BBBP-2 (later MESH) 2003
 Member, NIH CSR Bio-behavioral Mechanisms of Emotion, Stress and Health
 (MESH) Study Section 2004-2008
 The Wellcome Trust (UK); Ad hoc reviewer, 1998-2003
 Seattle Epidemiology Research and Information Center (ERIC), ad hoc reviewer,
 2002
 Medical Research Council (UK), ad hoc reviewer, 2002-2004
 GeesKracht, Netherlands Organization for Scientific Research, ad hoc reviewer,
 2002-2004
 Canadian Institute for Health Research, ad hoc reviewer, 2002-2004
 Swiss Research Foundation, ad hoc reviewer, 2002-2004
 Israeli Science Foundation, ad hoc reviewer, 2003-2004
 US Army Medical Research and Materiel Command, and Congressionally
 Directed Medical Research Program (CDMRP), Deployment Related
 Medical Research Program, Psychological Health/Traumatic Brain Injury,
 Scientific Review Committee, 2008
 NIH CSR Member, CSR ZRG1 BBBP-J Study Section, May 7, 2012, RFA HL-
 12-037: Mechanistic Pathways Linking Psychosocial Stress and Behavior
 (R01).

National Institute of Health Sponsored Workshops as Participant

Aging and Anxiety Disorders, NIMH, Bethesda MD, March 12, 1996.
 Early Responses to Trauma, NIMH, Bethesda, MD, Nov. 15-16, 2001.
 Fibromyalgia: New Advances, NIAMSD, November 11-12, 2004

b. Regional and State:

c. Institutional:

Director, Emory Center for Positron Emission Tomography (PET), 2000-2006;
 Emory Advanced Imaging Research Center Executive Committee, 2000-2006;
 Nuclear Medicine Faculty Search Committee 2002;
 Emory Office of the Provost's Program for Manuscript Development Advisory
 Committee, 2002-present
 Emory Georgia Tech Biomedical Engineering Research Strategic Planning
 Committee, 2003
 Emory Strategic Planning Committee for Molecular Imaging, 2004
 Atlanta VAMC Research and Development Committee, 2004-present
 Steering Committee for Research Institute for Predictive Health, Emory
 University and Georgia Institute of Technology, 2004-2005

Predictive Health and Society Brainstorming Committee, 2005
Emory Center for Wellness and Predictive Health Planning Committee, 2005-2008
Emory Georgia Tech Biomedical Imaging Technology Core (BITC), Imaging Research Committee, 2005-present
Emory University Department of Psychiatry Promotions Committee, 2012-present
Emory University Department of Psychiatry Research Committee, 2012-present

Consultantships:

National Institute of Mental Health, Japan, 2004-2006

Editorships and Editorial Boards:

Editorial Board, *Biological Psychiatry*, 1997-2007;
Editorial Board, *Neuropsychopharmacology*, 2001-2007;
Editorial Board, *Journal of Trauma and Dissociation*, 2004-present;
Editor, Brain Imaging Section, *Psychopharmacology Bulletin*, 2002-present;
Editorial Board, *Psychological Trauma, Theory, Research, Practice and Policy*, 2008-present
Editorial Board, *Biomed Central Psychiatry*
Advisory Editorial Committee for Diagnostic and Statistical Manual IV (Dissociative Disorders Section), 2000.

Manuscript Reviewer:

Aging Health
Alcohol and Alcoholism 1999-present
American Journal of Psychiatry 1993-present
Archives of General Psychiatry 1998-present
Behavioural Brain Research
Biological Psychiatry 1995-present
Biomed Central Psychiatry
Brain 1995-present
Brain Imaging and Behavior
Brain Research 1995-present
Brain Research Bulletin 1996-present
CNS Spectrums 2003-present
Cognitive Neuropsychiatry 2001-present
Depression and Anxiety 1997-present
Development and Psychopathology 1998-present
Epilepsia 1999-present
European Neuropsychopharmacology
Journal of Abnormal Psychology
Journal of Affective Disorders
Journal of the American Medical Association 2003-present
Journal of Clinical Psychiatry 1995-present

Journal of the European Academy of Dermatology and Venereology 2010-
Journal of Clinical and Social Psychology 1995-present
Journal of Nervous and Mental Disease 1993-present
Journal of Neural Transmission 1998-present
Journal of Neuropsychiatry and Clinical Neurosciences 1997-present
Journal of Psychiatric Research 2004-present
Journal of Psychiatry and Neuroscience
Journal of Social and Clinical Psychology 2001-present
Journal of Trauma and Dissociation 2004-present
Journal of Traumatic Stress 1993-present
Molecular Psychiatry 2001-present
Neuroimage
Neuron 2003-present
Neuropsychopharmacology 1999-present
Neuroscience 1998-present
Neuroscience & Biobehavioral Reviews
Proceedings of the National Academy of Sciences USA 1999-present
Psychiatry Research 1994-present
Psychiatry Research: Neuroimaging 1996-present
Psychological Trauma, Theory, Research, Practice and Policy
Psychoneuroendocrinology 2001-present
Psychopharmacology 1999-present
Psychosomatic Medicine 2003-present

Honors and Awards:

Coolidge Otis Chapman Scholar Award, 1983;
Seymour Lustman Award for Research Performed During Residency Education.
Department of Psychiatry, Yale University School of Medicine, 1991;
Veterans Administration Fellowship Award for Biological Research in
Psychiatry, 1991-1993;
Veterans Administration Career Development Award (Associate Investigator),
1993-1996;
Chaim Danieli Young Professional Award for Excellence in Service and Research
in the Field of Traumatic Stress, International Society for Traumatic Stress
Studies, 1996;
NIH-sponsored General Clinical Research Center (GCRC) Clinical Associate
Physician (CAP) Award, 1997;
National Alliance for Research on Schizophrenia and Depression (NARSAD)
Young Investigator Award, 1997-1999;
Veterans Administration Career Development Award (Level II), 1997-2001;
VA Merit Award 1998-2002, 2002-2007;
2004 Essential Science Indicators featured interview as most highly cited
investigators in PTSD ([http://www.esi-
topics.com/ptsd/interviews/JDouglasBremner.html](http://www.esi-topics.com/ptsd/interviews/JDouglasBremner.html))
National Alliance for Research on Schizophrenia and Depression (NARSAD)
Independent Scientist Award, 2004-2006;

van Ameringen Scholar, 2004-present
Induction into Academy of Research on Traumatic Stress, 2008
American Foundation for Suicide Prevention (AFSP) Award, 2005-2006
Phi Kappa Phi Forum Research Scholar Award, 2006
Millipub Club Inductee (1000 citation paper), Emory University, 2011
Quarterfinalist in the PAGE International Screenwriters Awards, 2012
Finalist in the Charleston International Film Festival Screenwriters Awards, 2012
Marqui's Who's Who in America, 2005-present
Who's Who in Healthcare and Medicine, 2009-present
Induction into Academy of Behavioral Medicine, 2014

Society Memberships:

Society for Nuclear Medicine, 1992-present;
International Society for Traumatic Stress Studies, 1992-present;
Society for Biology Psychiatry, 1997-present;
Society for Neuroscience, 1992-present;
Anxiety Disorders Association of America, Member of Scientific Advisory Board, 1998-present;
Associate Member, American College of Neuropsychopharmacology, 1998-2002;
Member, American College of Neuropsychopharmacology, 2002-present.
Founding Member, Academy of Research on Traumatic Stress (ARTS), 2004
Vice President, Academy of Research on Traumatic Stress (ARTS), 2004-present
Member, Academy of Behavioral Medicine, 2014-present

Organization of National or International Conferences:

a. Administrative positions:

- Lake George Conference on Posttraumatic Stress Disorder, Co-organizer, 1996.
- Academy for Research on Traumatic Stress Lake George PTSD Meeting, Co-organizer, 2006.
- Co-organizer of "Psychological Stress and the Heart," sponsored by the Emory Clinical Cardiovascular Research Institute (ECCRI), the Division of Cardiology, and the Department of Psychiatry in the Emory University School of Medicine and the Department of Epidemiology in the Rollins School of Public Health at Emory University, Atlanta, GA, October 18, 2013.
- Founder and Director of Callaway Homecoming Initiative, a joint program of the Callaway Gardens Foundation, Fort Benning Maneuver Center of Excellence, and Emory University. A pilot 10 day program for soldiers returning from Iraq and Afghanistan and their families. Callaway Gardens, Pine Mountain, GA, 2011-2012.
- Founder and Director of START NOW Seminars "Guiding Clients in Recovery from Psychological Trauma" Sep 12-13, 2015, Atlanta, Georgia.

b. Sessions as chair:

- “Trauma and Dissociation” (Bremner, Chair) American Psychiatric Association Annual Meeting, May 1992
- “Effects of Traumatic Stress on Memory” (Bremner, Chair) International Society for Traumatic Stress Studies Annual Meeting, November 1992
- “Long Term Effects of Traumatic Stress on Memory” International Society for Traumatic Stress Studies Annual Meeting, November 1993
- “Effects of early stress on the brain” (Bremner & Charney, Chairs) American College of Neuropsychopharmacology Annual Meeting, San Juan PR, Dec 11-15, 1993.
- “PET Brain Imaging Studies in Depression” (Bremner & Charney, Chairs), American College of Neuropsychopharmacology Annual Meeting, San Juan PR, Dec 11-15, 1995.
- “Devastating Effects of Childhood Abuse on Mind and Brain” Chair of Symposium at American Psychiatric Association Annual Meeting, Toronto, Canada, May 25, 1998.
- Symposium “Neural Plasticity in Health and Disease” Co-chair, American College of Neuropsychopharmacology, Annual Meeting, Puerto Rico, Dec 7, 1998.
- Co-Chair of All-Day Panel Session, “Stress, Hormones, and Neural Circuits: Basic and Clinical Perspectives”. American College of Neuropsychopharmacology Annual Meeting, Acapulco, Mexico, Dec. 12-16, 1999.
- Co-chair of symposium “HPA axis and neuroanatomical findings in PTSD” American Psychiatric Association Annual Meeting, Chicago IL, May 15-19, 2000.
- Co-Chair of symposium “Assessment and Treatment of PTSD in Children and Adults” Clinical Educational Symposium Co-chairs JD Bremner & Phillip Saigh, Annual Meeting of the Anxiety Disorders Association of America, Atlanta GA, March 22-25, 2001.
- Chairman of paper session “New Research in PTSD” Annual Meeting of the Anxiety Disorders Association of America, Atlanta GA, March 22-25, 2001.
- Co-chair of symposium “Childhood Sexual Abuse: Perpetrators and Victims” American Psychiatric Association Annual Meeting, New Orleans, LA May 3-7, 2001.
- Chair of Symposium: “Neural Mechanisms in Posttraumatic Stress Disorder” Annual Meeting of the International Society of Traumatic Stress Studies, New Orleans, LA, Dec. 6, 2001.
- Co-chair of symposium “Neurobiology of Trauma related Disorders” World Psychiatry Congress Meeting, Yokohama Japan, Aug 26-29, 2002.
- Chair of symposium “Common Circuits in Depression and Anxiety: Evidence from Neuroimaging Studies” Anxiety Disorders Association of America Annual Meeting, Toronto, Canada, March 26-9, 2003.
- Co-Chair of Symposium “Limbic and Prefrontal Circuits in Borderline Personality Disorder” Annual Meeting of the Society of Biological Psychiatry, San Francisco CA, May 15 2003.
- Chair of Symposium “The Role of Dissociation in Trauma-related Altered Cognitive Functions” Annual Meeting of the International Society for Traumatic Stress Studies” Hollywood CA, Nov 4-7, 2006.

R01 HL125246 (Vaccarino) 07/01/15 – 06/30/19 0.96 calendar months
NIH/NHLBI \$503,018

PTSD and Ischemic Heart Disease Progression: A Longitudinal Twin Study
The purpose of this project is to examine the longitudinal association between PTSD and ischemic heart disease by doing a follow up study of twins in the Vietnam Era Twin Registry 10 years after a baseline visit that involved assessments of ischemic heart disease with positron emission tomography (PET) myocardial perfusion imaging.
Role: Co-investigator

DARPA-15-35-Office-Wide-BAA-FP-042 4/01/16-3/30/17 4.5 calendar months
DARPA (Bremner) \$999,165

Closed loop vagal stimulation in posttraumatic stress disorder

The purpose of this project is to develop Vagal Nerve Stimulation (VNS) treatment for co-morbid posttraumatic stress disorder (PTSD) and depression and map physiological and brain functional correlates of response. The base phase looks at healthy subjects. In year one Option 1 individually adds four tasks to the base phase. Option 2 adds a second year of funding to study PTSD patients. There is a subcontract to Georgia Tech with Dr. Omer Inan.

Pending

R21 MH107520 (Rilling) 05/01/16 – 04/30/21 1.2 calendar months
NIH/NIMH \$127,342

Modulation of Neural Systems Involved in Anxiety by Intranasal Oxytocin
The purpose of this project is to use functional magnetic resonance imaging (fMRI) to assess neural correlates of intranasal oxytocin administration in healthy human subjects.
Role: Co-investigator

R21 (Rilling) 07/01/16 – 06/30/18 1.2 calendar months
NIH/NIMH \$65,286

The Role of Oxytocin Signaling in Depression & Suicidality in Returning War Veterans
The purpose of this project is to use functional magnetic resonance imaging (fMRI) to assess neural correlates of intranasal oxytocin administration in returning war veterans.
Role: Co-investigator

2. Private foundation funded:

None

3. Contracts:

4. Other:

b. Previous support:

R01 HL088726 (Bremner) 9/1/08-8/30/15 40%
NIH \$480,862 annual direct costs
Mechanisms of Depression in CVD

This project uses SPECT imaging of myocardial perfusion and PET imaging of brain blood flow during a cognitive stress challenge in patients with heart disease with and without depression.

K24 MH076955 (Bremner) 5/1/06-7/31/15 50%
NIMH \$141,041 Annual Direct Costs
Biological Correlates of Traumatic Stress

This a career development award to support research and training for the PI in the field of biological correlates of traumatic stress. (current renewal started on 8/1/2012)

VA Merit (Bremner) 1/01/12-12/31/14 10%
Veterans Administration \$133,850 Annual Direct Costs
A Multisite, Randomized, Controlled Trial of Mindfulness Meditation Therapy for PTSD

This is a multisite trial at Tuscaloosa AL, Charleston SC and Atlanta VAMC to assess the efficacy of Mindfulness Based Stress Reduction (MBSR) in comparison to Present Centered Group Therapy for the treatment of PTSD.

1 R01 MH056120 4/10/99-6/30/14 40%
NIMH (Bremner) \$250,000 Annual Direct Costs
Neural Circuits in Women with Abuse and PTSD

This project has used positron emission tomography (PET) and magnetic resonance imaging (MRI) in the measurement of brain regions involved in PTSD, in women with a history of childhood sexual abuse-related posttraumatic stress disorder, and the response to treatment.

VA Merit (Bremner) 4/01/03-3/30/12 0%
Veterans Administration \$133,850 Annual Direct Costs
Memory and the Hippocampus in Vietnam Twins with PTSD

This grant assesses hippocampal volume with MRI and neural correlates of declarative memory and traumatic remembrance with PET in monozygotic (MZ) and dizygotic (DZ) Vietnam Era veteran twin pairs discordant for PTSD and MZ twins without combat exposure or PTSD.

09SDG2140117 Scientist Development Grant S. (S. Su) 07/01/09-06/30/13
American Heart Association
Identification of Common Genes Related to Depression and Inflammation
The main objective of the proposal is to discover common genes related to both depression and inflammation. The goal is to identify genetic variants related to both depressive symptoms and inflammation by using a genome-wide association (GWA)

approach using the Framingham Offspring Cohort, and to replicate the GWA findings in two independent samples.

Role: Mentor

R21 HL106333-01A1—(S. Su) 07/01/11-06/30/13 0.6 calendar months
NIH/NHLBI

Epigenetics, a potential mechanism linking depression to cardiovascular disease
This application proposes to examine leukocyte DNA methylation as a potential epigenetic modification mechanism linking depression to cardiovascular disease.

Role: Co-investigator/Mentor

1 T32 MH067547-01 (Bremner) 7/1/05-6/30/10 0%
NIMH \$102,696 Annual Direct, \$897,414 total
Training Program in Neuroimaging Sciences

This is a training program in neuroimaging sciences at Emory and Georgia Tech.

1 R21 MH080208-01 (Bremner) 7/1/07-6/30/11 .6 calendar months
NIH/NIMH \$150,000

Benzodiazepine Receptor in PTSD

This project will assess benzodiazepine receptor binding in returning Iraqi veterans with PTSD with positron emission tomography (PET) and [C-11]flumazenil. The ability of benzodiazepine receptor binding to predict the development of chronic PTSD will be assessed.

Integrative Healing Practices for Veterans
(VET-HEAL) Award (Bremner) 8/1/05-7/31/09 0%
Samueli Institute for Information Biology
(SIIB)/VA/DOD \$175,000
Neural correlates of PTSD prevention with MBSR

The purpose of this project is to assess the ability of Mindfulness Based Stress Reduction (MBSR) to prevent the development of PTSD in soldiers returning from deployment in Iraq, and assess neural correlates mediating PTSD prevention using positron emission tomography (PET).

PTSD AT-TDA-IN PT074430 (Bremner) 9/1/08-8/31/12 20%
CDMRP DoD \$982,175
Neural Correlates of Early Intervention for PTSD

The purpose of this grant is to use PET imaging of brain metabolism before and after treatment with the SSRI paroxetine to measure neural correlates of response to early treatment of PTSD.

VA Merit – Clinical Trials (Bremner) 7/1/07-6/30/11 1%
VA Merit \$150,000

Early Intervention for PTSD in Iraqi Veterans

The purpose of this project is to assess the effects of paroxetine versus placebo on symptoms of PTSD and hippocampal volume and NAA in returning Iraqi veterans with early PTSD

R21 HL093665 (V. Vaccarino) 04/15/09-03/31/12 0.12 calendar months
NIH/NHLBI \$232,500

Sex Differences in Myocardial Ischemia Triggered by Emotional Factors after MI

The major goal of this project is to examine whether post-MI women have a higher prevalence of psychological stress-induced ischemia than men.

Role: Principal Investigator

R01HL068630-06A2 (Vaccarino) 10/01/09-07/31/12 0.96 calendar months
NIH \$499,614

Mechanisms Linking Depression To Cardiovascular Risk

The major goal of this competing renewal project is to further clarify the role of depression on CVD using a prospective design in which we will study changes over time in CVD measures.

R01 AG026255-01 (Vaccarino) 9/30/04-7/31/09 5%
NIH/NHLBI \$462,542

Posttraumatic stress disorder and cardiovascular disease

The purpose of this project is to use monozygotic twins with and without PTSD to assess the relationship between PTSD and heart disease. Outcome measures including quantitation of myocardial blood flow with PET and other measures of myocardial function. Dr. Bremner is responsible for PET studies.

1 R01 HL703824-01 (Vaccarino) 7/01/03-6/30/09 22%
NIH/ U Colorado (Subcontract) \$76,602 Direct costs first year

Wounded spirits, ailing hearts: PTSD and CVD in Indians

This project involves assessment of mechanisms by which PTSD increases heart disease risk in American Indians. Outcomes include PET measurement of myocardial blood flow and assessment of psychiatric and cardiovascular risk factors. This is a collaboration between U. of Colorado, U. of Washington and Emory; the Emory site is responsible for analysis of PET data.

K23 HL07295—(J. Abramson) 01/01/05 -
12/31/09

NIH-NHLBI

\$80,350 (direct costs current year)

Depression, Infectious Pathogens, and CHD

The main goal of this project is to determine whether chronic infectious burden is a mechanism by which depression is associated with increased risk for cardiovascular disease.

Role: Mentor

K23 RR023171—(S. Mallik)
06/30/09

07/01/06-

NIH/NCRR

\$140,221 (direct costs yr 1)

Troubled Minds, Broken Hearts: Women, Depression and Myocardial Infarction.

The purpose of this career development award is to examine the prognostic role of depression, and the effect of treating depression, on the outcome of women after acute myocardial infarction, and to foster Dr. Mallik's academic career.

Role: Mentor

0630084N Scientist Development Grant—(S. Mallik)
12/31/10

01/01/06-

American Heart Association

\$59,091 (direct costs yr 1), \$260,000 (total)

Gender, Depression and Outcomes of Myocardial Infarction

The purpose of this project is to determine whether depression plays a role in the poorer outcome of women with acute MI compared with men.

Role: Mentor

0730100N Scientist Development Grant (J. Zhao)
12/31/10

01/01/07-

American Heart Association (National)

\$59,091

Common genetic pathways linking depression to cardiovascular disease: A twin study.

The main object of this grant is to examine common genetic pathways in the relationship between depression and cardiovascular disease, including genes involved in the serotonin, adrenergic and HPA axis pathways.

Role: Mentor

0725513B Postdoctoral Fellowship Grant—(S. Su)
06/30/09

07/01/07-

American Heart Association

\$37,500

Identification of genes related to depression and autonomic dysregulation

This fellowship grant will provide salary support for Dr. Su, in order to perform his post-doctoral work on genetic factors involved in depression and autonomic function.

Role: Mentor

Goodman R21 MH66622-01, 9/19/02-8/31/07, Development of PET radioligands, NHLBI, \$150,000 annual direct costs

Ready VA Merit, 4/1/05-15/30/08, \$250,000 direct costs first year
A New Model for Group-Based Exposure Therapy for Deployment-Related PTSD

Parr R01 MH068791-01, 4/01/04-3/31-09, NIMH, \$150,000 Direct costs first year
Neuropsychology of Primate Social Cognition

Bremner GSK Investigator Initiated Research, Effects of paroxetine on neural correlates of PTSD, 3/1/03-2/31/07

Rothbaum (PI) R24 MH067314-01A1 Translational Research on Extinction and PTSD, 7/1/03-6/30/06, \$268,798 Direct Costs first year

Bremner (PI) American Foundation for Suicide Prevention (AFSP) Research Grant, Long-term Effects of Isotretinoin (Accutane) on Brain Function, 9/1/05-8/31/07, \$59,988 total

Bremner JD, PI: GlaxoSmithKline Corp., “Effects of Paxil on Neural Circuits in Posttraumatic Stress Disorder” Direct Costs, \$300,000 entire budget period, Funding period 6/1/03-5/30/06.

Bremner (PI) Independent Investigator Award (Bremner) National Alliance for Research on Schizophrenia (NARSAD), Positron Emission Tomographic (PET) Imaging of Brain Metabolic Correlates of Vulnerability to Depressive Relapse, 9/15/04-9/14/06, \$99,000 total

Vaccarino V, (PI) R01 HL068630-04 Mechanisms linking depression to cardiovascular risk, 6/1/01-5/31/06, \$462,542 (direct costs year 1); \$3,248,420 (total)

Bremner JD, PI: “Shared Instrumentation for Research PET Brain Device” S10 RR16917-01 7/1/02-6/30/05, NIH/NCRR \$500,000 Direct Costs

Bremner JD, PI: Georgia Research Alliance, “Shared Instrumentation for a Research Dedicated PET Brain Imaging Device”. Total costs \$900,000, funding dates 7/1/04-6/30/05.

Votaw (PI) R01 GM63824 “Cognitive effects of anesthetics and dopamine transport”, Direct costs \$473,121, Funding period 7/1/04-6/30/05.

Bremner JD (PI): “Brain Mechanisms Underlying Increased Mortality in Patients with Coronary Heart Disease and Depression” Charles A. Dana Foundation, 6/1/99-5/30/04. \$33,000 first project year, \$92,700 total costs.

Bremner JD, PI: Dreyfus Medical Foundation. “Effects of phenytoin on memory in women with childhood sexual abuse.” Direct costs: \$23,300 entire budget period. 20% effort. Funding period, 1/1/99-6/30/03. 5% effort.

Bremner JD, Local PI: SmithKline Beecham, Corp., “Effects of Paxil on Hippocampus and Memory in Women with Childhood Sexual Abuse-related Posttraumatic Stress Disorder” Direct Costs, \$48,000 entire budget period, Total costs \$65,000 entire budget period. Funding period 6/1/99-5/30/02.

Bremner JD, (PI) Veterans Administration, Biological Psychiatry Fellowship Award, “Yohimbine administration in PTSD”, 100% effort, \$40,000 per year, \$120,000 entire budget period, 7/1/90-6/30/93.

Bremner JD, PI: Veterans Administration, Career Development Award Program (Associate Investigator), “PET and SPECT Measurement of the Benzodiazepine Receptor in Anxiety” \$51,740 (salary) plus \$3,000 equipment expenses direct costs initial budget period, \$164,220 direct costs entire project period. 100% effort, Dates of award: 10/31/93-11/1/96.

Bremner JD, PI: National Institute of Health Sponsored General Clinical Research Center, Clinical Associate Physician Award, “Hippocampus in Women with Sexual Abuse.” \$42,487 first budget period total budget costs. 100% effort, 7/1/97-10/30/00.

Charney DS, PI (**JD Bremner**, Co-investigator): National Institute of Mental Health (R01), “Brain Imaging of the Benzodiazepine Receptor”. \$235,000 first budget period, \$973,000 entire funding period. 10% effort on project. Funding dates 7/1/92-6/30/95.

Charney DS, PI (**JD Bremner**, Co-investigator): Veterans Administration, Merit Review, “Cerebral Metabolic Correlates of Tryptophan Depletion-induced Depressive Relapse”. \$100,000 first budget period, \$300,000 entire funding period. 10% effort on project. Funding dates 7/1/93-6/30/96.

Charney DS, PI (**JD Bremner**, Co-investigator): Veterans Administration, Merit Review, “Cerebral Metabolic Correlates of AMPT-induced Depressive Relapse”. Veterans Administration Merit Review Project. \$106,000 first budget period, \$306,000 entire funding period. 10% effort on project. Funding dates 7/1/96-6/30/99.

Southwick SM, PI (**JD Bremner**, Co-investigator): Department of Defense, “Longitudinal Course and Neurobiology of Veterans of Desert Storm”. \$90,000 direct costs first budget period, \$270,000 entire funding period. 10% effort on project. Funding dates 7/1/96-6/30/99.

Bremner JD, PI: Center for Naval Analysis, Department of Defense, “Impact of Captivity Stress on Physical and Mental Health” Direct costs: \$23,500 entire budget period. 5% effort. Funding period, 1/1/99-12/30/00.

Bremner JD, Local PI: Bristol Myers-Squibb, Corp., “An International Multicenter Trial of Two Dose Ranges of Nefazodone and Placebo in the Treatment of Outpatients with

Chronic Posttraumatic Stress Disorder” Direct Costs, \$70,000 entire budget period, Total costs \$96,000 entire budget period. Funding period 11/1/98-10/30/98.

Bremner JD, Site PI: SmithKline Beecham, “A 12 week, Double-blind, Placebo Controlled, Parallel Group Study to Assess the Efficacy and Tolerability of Paroxetine in Patients Suffering from Posttraumatic Stress Disorder.” Direct Costs \$19,140 entire budget period. Funding period 2/1/99-1/30/00.

Bremner JD, PI: National Alliance for Research in Schizophrenia and Depression, Young Investigator Award. “PET Measurement of Hippocampal Function in Depression.” Direct costs: \$28,250 first budget period, total budget costs entire funding period \$56,500. Funding dates 7/1/97-12/30/99. 20% effort.

Innis RB (PI), (**JD Bremner**, PET Core Director), Veterans Administration REAP, “A Center for the Study of the Neurobiology of Depression,” \$250,000 initial budget period, \$750,000 entire project period, 10% effort, funding dates 4/1/99-3/30/02.

Soufer R, PI (**JD Bremner**, Co-Investigator): National Institute of Health (NHLBI) R01, “Neural Correlates of Mental Stress-Induced Myocardial Ischemia” Direct costs \$250,000, total costs \$320,000 initial budget period, direct costs \$750,000, total costs \$1,100,000 entire budget period. 10% effort. Funding period 1/1/99-12/30/03.

Bremner JD (Co-PI): “Efficacy of fluoxetine (prozac) in treatment of PTSD.” Eli Lilly Corp., Total costs: \$105,631 total budget period. Funding dates: 1/1/99-11/01/00.

Bremner JD (Co-PI): “Effects of fluoxetine (prozac) on hippocampal volume, memory function, and cortisol status in patients with major depressive disorder.” Eli Lilly Corp., Total costs: \$105,631 total budget period. Funding dates: 1/1/99-11/01/00.

Bremner JD, Project Director, #5M01RR00125-370963 HPA axis and hippocampus in women with sexual abuse related PTSD (Charney PI, Yale Mental Health Clinical Research Center Grant) 12/1/98-11/30/01

Bremner JD, Project Director, PET measurement of cerebral blood flow correlates of memory in PTSD 5M01RR00125-370964 (Charney PI, Yale Mental Health Clinical Research Center Grant) 12/1/98-11/30/01

Bremner JD, PI: Department of Veterans Affairs Research Career Development Award, Level II. “Hippocampal Function in Posttraumatic Stress Disorder”. Direct costs \$108,698 salary support, \$50,000 research costs first year, \$476,094 total costs entire budget period. 100% effort. 10/1/97-9/30/01.

Bremner JD, PI: VA Merit Review, “Memory and the Hippocampus in Vietnam Twins with PTSD.” \$178,300 first year direct costs, \$476,900 total direct costs. Funding period 4/1/98-9/30/02.

Bremner JD, PI: NIH R01MH56120-01A1 “Hippocampus in Women with Abuse and PTSD” \$250,000 first year direct costs, \$368,040 first year total costs, \$750,000 total direct costs, \$1,128,040 total budget costs entire funding period. Funding period 9/1/99-8/30/03. 40% effort.

Clinical Service Contributions: Attending in Nuclear Medicine, Yale-Haven Hospital and VA Connecticut, 1997-2000; Attending in Psychiatry, Yale School of Medicine and VA Connecticut Healthcare, 1991-2000; Medical Director, Inpatient Unit, National Center for PTSD, VA Connecticut; Director, Yale Trauma Research Program, 1997-2000; Associate Director of Yale-VA PET Center, 1998-2000; Director of Emory Center for Positron Emission Tomography (PET), 2000-2006; Attending in Nuclear Medicine, Emory Univ. Hosp., 2000-2007; Staff Psychiatrist, Atlanta VA Medical Center, 2009-present; Attending Psychiatrist, Emory Clinic, 2015-present.

Formal Teaching:

a. Medical Student Teaching:

- Teaching of medical students, Yale School of Medicine, 1991-2000;
- Teaching of medical students, Emory U School of Medicine, 2000-present.

b. Graduate Program:

Training Program:

- “Neuroimaging of PTSD and Depression” lecture given for Neurochemical Brain Imaging Program Introductory Lecture Series, Aug. 4, 1999, Yale University School of Medicine/VA Connecticut
- “Traumatic Memories Lost and Found: Can Lost Memories of Childhood Abuse be Found in the Brain?” Presentation for Yale Psychiatric Institute Trauma Studies Conference, Sept. 15, 1999.
- “Does Stress Damage the Brain? Understanding Trauma-related Disorders” Visiting lecturer for Emory Department of Comparative Literature Graduate Level course “Trauma and Literature”, February 22, 2002
- Lecturer for “Interdisciplinary Program in Trauma Studies” Graduate Student Seminar, Sept 01-May-02, Department of Comparative Literature, Emory School of Arts and Sciences
- Participant in “Pilot Program for Interdisciplinary Studies in Trauma”, Emory School of Arts and Sciences, 2001-2002.
- Participant in round table discussion on future careers in science, Bi Annual Retreat, Developmental Psychobiology Research Group Training Program for Postdoctoral Fellows, University of Colorado Health Sciences Center, Estes Park CO, May 19, 2004
- Director of NIH-sponsored T32 Training Program for post-doctoral fellows “Training Program in Neuroimaging Sciences (TPINS), 2004-2010.

- Faculty Member, NIH Sponsored T32 in Neuroscience, Graduate Division of Biological and Biomedical Sciences, 2008-present
- Faculty Member, NIH Sponsored T32 in Cardiovascular Health Disparities, 2014-present
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Residency Program:

- “Neurobiology of Anxiety Disorders” lecture for Yale Psychiatry Residents, March 1999.
- “Neuroimaging and Neurobiology of Posttraumatic Stress Disorder” lecture for Yale Psychiatry Residents, given yearly 1995-1999.
- “Brain imaging in PTSD” lecture for Yale Psychiatry Residents, March 21, 1999.
- “Clinical Applications of Positron Emission Tomography” Lecture for residents in Diagnostic Radiology, Yale U. School of Medicine, July 4, 1999.
- “Radionuclide Cisternography”. Lecture for residents in Diagnostic Radiology, Yale School of Medicine, Oct. 8, 1999.
- “Neural Mechanisms in Delayed Recall of Childhood Abuse”. Presentation for VA Connecticut PTSD Program, West Haven CT, Oct. 14, 1999.
- “Brain Imaging” Lecture for Radiology Residents, Yale School of Medicine, March 7, 2000.
- “Brain Imaging in Nuclear Medicine” lecture for Emory Nuclear Medicine fellows, Dec 18, 2000.
- “Applications of Positron Emission Tomography to Oncology” Grand Rounds Lecture, Emory Dept of Hematology and Oncology, April 35, 2001
- “PET Imaging in Oncology” lecture for radiology residents and medical students, Emory University, May 15, 2001.
- Participated in Mock Boards for Dept of Psychiatry, Emory and U. Penn, Grady Hospital, Atlanta, May 16, 2001
- “PET imaging in oncology” lecture for radiology residents and medical students, Emory University, Oct. 7, 2001.
- “Clinical applications of positron emission tomography to oncology and cardiology” lecture for Emory Radiology Residents, Jan 28, 2002.
- “Brain Scintigraphy” Lecture for Emory Radiology Residents, March 8 2002.
- “Structural Brain Imaging” lecture for Emory psychiatry residents, April 1, 2002.
- Participated in Mock Boards for Dept of Psychiatry, Emory and U. Penn, Philadelphia PA, May 16, 2002.
- “PET Imaging in Oncology” lecture for Emory radiology residents, July 12, 2002.
- “Neurobiology of PTSD and Depression” lecture for the Emory Program for Training of Psychiatry Residents, a national program held at Palm Beach, FL, Aug 22-26, 2002.
- “Brain Imaging in Nuclear Medicine” lecture for Emory Nuclear Medicine fellows, Feb 7, 2003.
- “Substance abuse and PTSD”, lecture for Emory Psychiatry residents, 2003, 2004, 2005, 2006, 2007, 2008

- Participated in Mock Boards for Dept of Psychiatry, Emory and U. Penn, Atlanta GA, March 16, 2003.
- “Nuclear Scintigraphy: Neurological Applications” lecture for Emory Radiology residents, March 23, 2003.
- “Clinical Case Presentations: Childhood Abuse” Noon conference, Pediatrics Residency Program, Virginia Commonwealth University School of Medicine, Richmond, Virginia, Oct. 14, 2003.
- Journal Club, Vanderbilt Psychiatry, Jan 13, 2004
- “Advanced application of PET” lecture for Emory Nuclear Medicine fellows, March 17, 2004
- “Substance abuse and anxiety disorders” lecture for Emory Psychiatry residents, Nov 2, 2004
- “Neurobiology of early abuse,” lecture for Emory Psychiatry residents, May 18, 2005.
- “Brain Structure and Function in PTSD” lecture for Frontiers in Neuroscience Series, Emory Neurosciences Program, October 10, 2005
- “Anxiety Disorders and Substance Abuse,” lecture for psychiatry residents, December 4, 2005.
- “Anxiety Disorders and Substance Abuse,” lecture for psychiatry residents, April 5, 2006.
- “Anxiety Disorders and Substance Abuse,” lecture for psychiatry residents, April 5, 2007.
- “Anxiety Disorders and Substance Abuse,” lecture for psychiatry residents, April 5, 2008.
- “Neuroimaging of PTSD” Emory Psychiatry Grand Rounds, Feb. 22, 2012, Atlanta GA
- Resident round table journal discussion for psychiatry “The enduring effects of abuse and related adverse experiences in childhood: A convergence of evidence from neurobiology and epidemiology” Emory University School of Medicine, Feb. 22, 2012.

c. Other categories:

- “The Neurobiology of Posttraumatic Stress Disorder: A Clinician’s Primer” presentation at Yale Psychiatric Institute Trauma Studies Program Conference, Yale Psychiatric Institute, New Haven CT, May 17, 1998.
- “Lasting Effects of Stress on Memory and the Hippocampus” Grand Rounds presentation, Department of Psychiatry, Yale University School of Medicine, New Haven, CT, Oct. 22, 1998.
- Participated in WELI (New Haven) radio hour on “Civilian PTSD” sponsored by Bristol Myers-Squibb, Inc., Oct. 10, 1998.
- Lasting effects of childhood abuse on memory, cortisol and the hippocampus.” Paper given in symposium “Neurosciences 1999: Breakthroughs in Brain Imaging”, March 20, 1999, Yale School of Medicine. A joint presentation of the Connecticut Mental Health Center and the Department of Mental Health and

Addiction Services, State of Connecticut, in association with the National Alliance for the Mentally Ill-Connecticut.

- “Neuroimaging of PTSD” Lecture for New York State Chapter of the American Psychiatric Association, Mystic, Conn., Oct. 4, 1999.
- “Radionuclide Cisternography”. Lecture for residents in Diagnostic Radiology, Yale School of Medicine, Oct. 8, 1999.
- “Neural Mechanisms in Delayed Recall of Childhood Abuse”. Presentation for VA Connecticut PTSD Program, West Haven CT, Oct. 14, 1999.
- “Data warehousing in PTSD” Presented as part of an Educational Workshop at Annual Meeting of International Society for Traumatic Stress Studies, Miami, FL, Nov 14-17, 1999.
- “Participant in workshop “Trauma and Memory, the Debate goes International” American Psychiatric Association Annual Meeting, Chicago IL, May 15-19, 2000.
- “Neuroimaging in Psychiatry” Invited lecture for Forum 2000, sponsored by SmithKline Beecham, Hawaii, May 31, 2000.
- Participated and interviewed for multiple educational and news programs in the past two years on several topics including Neurobiology of Anxiety (HBO), Violence and the Brain (BBC), Effects of Stress on the Brain (BBC), Stress (CNN), Effects of Childhood Abuse on the Brain (ABC), Biology of PTSD (Discovery Channel), Biology of Stress (Canadian Discovery Channel), Consequences of Childhood Abuse (NPR), Relationship between accutane and depression and suicide (CNN, Discovery Canada), also multiple articles and stories in newspapers and magazines.
- “Assessment and Treatment of PTSD in Children and Adults” Clinical Educational Symposium Co-chairs JD Bremner & Phillip Saigh, Annual Meeting of the Anxiety Disorders Association of America, Atlanta GA, March 22-25, 2001
- “Is there an epidemic of depression?” presentation for the lay public as part of “Conversations at the Carter Center”, Rosalyn Carter (Chair), Atlanta GA, April 19, 2001.
- “Looking into the Minds Eye of PTSD” presented as part of program “Future Leaders in Psychiatry,” Boca Raton, FL, April 20-22, 2001.
- Invited participant in General Electric all-day seminar “PET-CT Imaging with Discovery LS” New York, June 21, 2001.
- “Assessment and Treatment of Posttraumatic Stress Disorder” Invited Continuing Medical Education Lecture sponsored by CME Inc, Chicago IL, Oct. 4, 2001.
- “Trauma and Memory Related to Bosnian Genocide: The Debate Goes International” Invited participant in Workshop for American Academy of Psychiatry and the Law, Annual Meeting, Boston MA, Oct. 25, 2001.
- “Assessment and Neurobiology of Childhood Sexual Abuse-related PTSD” Invited Lecture for Emory Development Translational Research Seminar, Emory University School of Medicine, Dec. 2, 2001.
- “Hearts and Minds: Cardiac PET as a Tool for Merging Cardiology and Psychiatry” lecture for Emory Center for Outcomes Research (ECOR) Research Seminar, February 23, 2002.

- “Brain imaging in psychiatry and clinical neuroscience” presented at Emory/Georgia Tech Molecular Imaging Symposium, Jan 15, 2004
- “Stressors and emotional trauma contributing to the mental health of combat soldiers”, invited lecture for Seamless Transition from Walter Reed Army Medical Center to the VA Southeast Network: Treatment of OEF/OIF Combat Veterans, Atlanta VA and Walter Reed Army Medical Center, April 22, 2005.
- “PTSD” presented for “Faces of Mental Illness: PTSD” presented by the Emory College Chapter of Active Minds, Oct 5, 2005
- “Effects of Combat Stress on Soldiers of the Iraq War” presented for Atlanta Friends of Emergency conference, War and Health, Atlanta, GA, February 17, 2007.
- “Psychosomatic Medicine and PTSD: From Bench to Bedside to Community,” roundtable discussion at the American Psychosomatic Society Annual Meeting, Budapest, Hungary, March 7, 2007.
- “Brain Imaging for the Mental Health Professional” week-long course taught for the New England Educational Institute, Eastham MA, June 16-20, 2008.
- “PTSD in Returning Iraq Vets” participated in panel for “Class on the Quad”, Emory University, April 1, 2009.
- Faculty participant in Joint SAN/COST B27 Training Schools on Neurofeedback and ADHD & International Course and Conference MIND AND BRAIN VI: Neuroplasticity of Brain and Behavior, April 16-21, 2009, Dubrovnik, Croatia.
- “Why I’m Not Getting a Flu Shot This Year,” presented at Emory Center for Cardiovascular Outcomes Research and Epidemiology (EPICORE) weekly research conference, December 2011
- “Mechanisms of Stress and Depression in Cardiovascular Disease,” presented at Emory Clinical Cardiovascular Research Institute weekly research conference, October 2014
- “Guiding Clients in Recovery from Psychological Trauma” Sept 23-13, 2015, Atlanta, Georgia. Director of program for continuing education for mental health professionals.

Supervisory Teaching:

- a. Ph.D. students directly supervised:
 - Bernet Elzinga (Yale), 1999-2001, now has a faculty position in Psychology at the University of Leiden (The Netherlands)
 - Katherine Shobe (Yale), 1998-1999, Postdoctoral Fellow, Univ of NY, Albany
 - Eric Vermetten (Yale/Emory) 1997-2003, now research faculty at the University of Utrecht and the Dutch Military Hospital
 - Predocctoral students: Silke Welter (Emory) 2001-2002, now a graduate student at the University of Triere.
 - Tanja Mletzko, 2002-2004, Postdoctoral fellow, Emory
 - Negar Fani, 2006-2010, graduate student Georgia State U. counseling psychology

- b. Post-doctoral fellows directly supervised (Yale):
 Meena Narayan, MD (Yale) 1995-1998, now Research Psychiatrist at the National Institute of Mental Health Mood and Anxiety Disorders Program.
 Ed Perry, MD (Yale), 1996-1998
 Safraz Khan, MD, 1997-1999, Resident in Psychiatry, Creighton.
 Thomas Lu, MD, 1999-2000
 Jahangir Adil, MD, 1998-2000
 Alessandra Buonopane, M.D., 1997-1998, Assistant Professor of Psychiatry, Yale University School of Medicine
 Gabriel De Erasquin, M.D., 1992-1993
 Penny Randall, M.D., 1992-1995, Assistant Professor of Psychiatry, U. California-Irvine
 Adam Darnell, M.D., 1992-1994, Assistant Professor of Psychiatry, Jerusalem University
 Angela Cappiello, M.D., 1992-1993
 (Emory and Yale)
 Ahsan Nazeer, MD, 1998-2000, Resident in Psychiatry, U. North Dakota
 Nadeem Afzal, MD, 1997-2010, Postdoctoral Fellow, Emory NISTP
 Sajid Siddiq, MD, 1999-2004, Postdoctoral Fellow, Emory
 Eric Vermetten, M.D., 1997-2001, Director of Research, Dutch Military Hospital, Utrecht
 Christian Schmahl, M.D., 1999-2001, Research Psychiatrist, University of Mannheim (Germany)
 (Emory)
 Tim Hanes, MD, 2001-2002
 Olga Novik, MD, 2001-2006, postdoctoral fellow, Emory
 Ali Ashraf, MD, 2002-2007
 Faiz Cheema, MD, 2002-2008
 Nori Kitayama, MD, 2002-2005, Research Psychiatrist, Japan NIH
 Farhan Jawed, MD, 2003-2009
 Chanda Williams, MD 2003
 Elbert Geuze, MD 2004
 Frauke Lindau, MD 2006
 Durreshahwar Khan, MD, 2008-2010
 Majid Shah, MD, 2010-2013
 Mustafa Mufti, MD, 2010-2011
 Zehra Khan, MD, 2010-present
 Negar Fani PhD 2009-2012
 Mary Dent PhD 2005-2013
 Kristina Robinson, MD 2009-2010
- c. Residency Program: Psychiatry, Yale School of Medicine, 1991-2000; Radiology, Yale School of Medicine, 1997-2000; Psychiatry and Radiology, 2000-present. Residents supervised for research: Tim Hanes MD (Emory Radiology); 7/01-9/01, now a radiology resident.

- d. Other: Medical Students (Emory):
 Matt Hoffman MD, during Clinical Research Internship for Medical Students, funded by Stanley Foundation, May 12, 2001-July 1, 2001, now Atlanta ER physician.
 Undergraduate: Andrea Franklin, Spelman College, funded by the RISE Program, 2005-2006.
 Mark Saigh 2007-2008
 Sandi DiVitale 2008-2010

27-28. Lectureships, Seminar Invitations, and Visiting Professorships, Invitations to National or International Conferences (presented as first author only, posters presented as co author and abstracts published as co author not listed).

- “Dissociation and Posttraumatic Stress Disorder in Vietnam Combat Veterans” presented at the International Society for Traumatic Stress Studies, November 1991
- “Trauma and Dissociation in Combat-related PTSD” presented as part of symposium “Trauma and Dissociation” (Bremner, Chair) American Psychiatric Association Annual Meeting, May 1992
- “Declarative Memory Deficits in PTSD” presented as part of symposium “Effects of Traumatic Stress on Memory” (Bremner, Chair) International Society for Traumatic Stress Studies Annual Meeting, November 1992
- “Memory and the Hippocampus in PTSD” presented as part of symposium “Long Term Effects of Traumatic Stress on Memory” International Society for Traumatic Stress Studies Annual Meeting, November 1993
- “Memory and the hippocampus in early abuse related PTSD” presented as part of symposium “Effects of early stress on the brain” (Bremner & Charney, Chairs) American College of Neuropsychopharmacology Annual Meeting, San Juan PR, Dec 11-15, 1993.
- “Memory and the hippocampus in Vietnam veterans with chronic PTSD” invited lecture at the Lake George PTSD Conference, Lake George NY, Jan 23, 1993.
- “Noradrenergic Function in PTSD” Grand Rounds Presentation, Hahnemann University Dept of Psychiatry, Philadelphia PA, Oct. 15, 1993
- “PET measurement of cerebral metabolism following a noradrenergic challenge in patients with post-traumatic stress disorder and in healthy subjects.” Presented at Society for Nuclear Medicine Annual Meeting, June 1993.
- “PET measurement of noradrenergic function in post-traumatic stress disorder.” Presented at International Society for Traumatic Stress Studies Annual Meeting, November 1993.
- “Neurobiology of PTSD” Invited lecture for the Macklin Series, Naval Health Sciences Education and Training Command, Portsmouth VA, Nov. 5, 1993.
- “Neurobiology of PTSD” Grand Rounds Presentation, Dept of Psychology, University of Maine, Sept 11, 1994
- “Neurobiology of PTSD” Grand Rounds Presentation, University of Maine, May 3, 1994.
- “Neurobiology of PTSD” Grand Rounds Presentation, University of Connecticut School of Medicine, Storrs, CT, June 12, 1994.

- “Neurobiology of Anxiety Disorders” invited lecture for the European College of Neuropsychopharmacology Annual Meeting, Monaco, Oct 14, 1994
- “PET measurement of cerebral metabolic correlates of tryptophan depletion induced depressive relapse” presented as part of symposium “PET Brain Imaging Studies in Depression” (Bremner & Charney, Chairs), American College of Neuropsychopharmacology Annual Meeting, San Juan PR, Dec 11-15, 1995.
- “PET FDG measurement of cerebral metabolic correlates of depressive relapse.” Presented as Society for Nuclear Medicine Annual Meeting, June 1995.
- “PET measurement of cerebral metabolic correlates of yohimbine administration in posttraumatic stress disorder.” Presented at Society for Nuclear Medicine Annual Meeting, June 1995.
- “Noradrenergic function in PTSD” presented at the Annual Meeting of the European College of Neuropsychopharmacology, Monaco, Sept 16, 1995.
- “Brain correlates of noradrenergic function in PTSD” Grand Rounds presentation, Hahnemann University School of Medicine, Philadelphia, PA, Nov 10, 1995.
- “MRI and neuropsychological studies in victims of trauma at different stages of development” invited presentation in panel “Early Environment and Development” (Plotsky, Chair), American College of Neuropsychopharmacology Annual Meeting, San Juan PR, Dec 11-15, 1995.
- “PET measurement of tryptophan depletion induced depressive relapse” presented as part of panel “PET Brain Imaging Studies in Depression” (Bremner & Charney, Chairs), American College of Neuropsychopharmacology Annual Meeting, San Juan PR, Dec 11-15, 1995.
- Participated in NIMH-sponsored workgroup “Aging and Anxiety Disorders” and presented “Neuroimaging of anxiety”, Bethesda MD, March 12, 1996.
- “PET FDG measurement of cerebral metabolic correlates of depressive relapse.” Presented at Society for Nuclear Medicine Annual Meeting, June 1996.
- “PET measurement of brain correlates of exposure to traumatic material in posttraumatic stress disorder.” Oral presentation, Society for Neuroscience Annual Meeting, New Orleans LA, Oct 25 1997.
- “The Neurobiology of Posttraumatic Stress Disorder” Plenary Presentation, Trauma Disorders 1997: Theory, Research and Practice. Sheppard Pratt Hospital, Baltimore, MD, Nov. 8, 1997.
- “Hippocampal function in PTSD.” Presented at Biomedicine '98, in conjunction with VA Medical Research, Washington D.C., May 1-3, 1998.
- “The Neurobiology of Posttraumatic Stress Disorder: A Clinician’s Primer” presentation at Yale Psychiatric Institute Trauma Studies Program Conference, Yale Psychiatric Institute, New Haven CT, May 17, 1998.
- “Devastating Effects of Childhood Abuse on Mind and Brain” Chair of Symposium at American Psychiatric Association Annual Meeting, Toronto, Canada, May 25, 1998.
- “Lasting effects of childhood abuse on mind and brain” presented as part of symposium “Devastating Effects of Childhood Abuse on Mind and Brain” American Psychiatric Association Annual Meeting, Toronto, Canada, May 25, 1998.

- “Comorbidity of PTSD and Dissociative Disorders” Presented as part of symposium chaired by David Spiegel at American Psychiatric Association Annual Meeting, Toronto, Canada, May 25, 1998.
- “Does Stress Damage the Brain?” Grand Rounds presentation, Department of Psychiatry, Columbia University School of Medicine, New York, NY, August 22, 1998.
- “Lasting Effects of Stress on Memory and the Hippocampus” Grand Rounds presentation, Department of Psychiatry, Yale University School of Medicine, New Haven, CT, Oct. 22, 1998.
- “Neural Mechanisms in Delayed Recall of Childhood Abuse” Plenary Presentation, Trauma Disorders 1998: Theory, Research and Practice. Sheppard Pratt Hospital, Baltimore, MD, Nov. 6, 1998.
- “Effects of childhood abuse on Hippocampus and Memory” presented in symposium “Cognition in PTSD” (P Saigh, Chair), Annual Meeting of International Society for Traumatic Stress Studies, Washington, DC, Nov. 11, 1998.
- “Hippocampus and Memory in PTSD and Depression” presented in symposium “Neural Plasticity in Health and Disease (DS Charney, Chair), American College of Neuropsychopharmacology, Annual Meeting, Puerto Rico, Dec 7, 1998.
- “Hippocampal volume reduction in unipolar major depression” poster presentation, American College of Neuropsychopharmacology, Annual Meeting, Puerto Rico, Dec 7-12, 1998.
- “Decreased frontal cortical function in PTSD” poster presentation, American College of Neuropsychopharmacology, Annual Meeting, Puerto Rico, Dec 7-12, 1998.
- “Does Stress Damage the Brain?” Grand Rounds Presentation, Dept. of Psychiatry, University of Washington School of Medicine, Seattle WA, Jan 13, 1999.
- “PET and SPECT Measurement of Brain Function and Receptor Binding in Anxiety and Depression”. Department of Radiology Invited Lecture, University of Washington School of Medicine, Seattle WA, Jan 14, 1999.
- “Brain Imaging in PTSD” VA PTSD Conference, New Orleans VAMC, New Orleans LA, Jan 16, 1999.
- “Neuroimaging of PTSD and Depression” Dr. Paul Wood Memorial Lecture, Department of Psychiatry, University of Utah School of Medicine, Salt Lake City, Utah, Feb. 8, 1999.
- “Hippocampal function in PTSD” Invited presentation for the VA Medical Advisory Group, Houston, TX, March 1 1999.
- “Lasting effects of childhood abuse on memory, cortisol and the hippocampus.” Paper given in symposium “Neurosciences 1999: Breakthroughs in Brain Imaging”, March 20, 1999, Yale School of Medicine. A joint presentation of the Connecticut Mental Health Center and the Department of Mental Health and Addiction Services, State of Connecticut, in association with the National Alliance for the Mentally Ill-Connecticut.
- “Neuropsychological models and neural mechanisms in dissociation.” Presented in International Symposium About Controversies in Psychiatry: “Dissociative States,” Unitat de Psiquiatria, Hospital Universitari Germans Trias I Pujol, Barcelona, Spain, March 27, 1999.

- “Measurement of Dissociative States with the Clinician Administered Dissociative States Scale: Development and Psychometric Properties.” Presented at the International Epidemiology Association Annual Meeting, Florence, Italy, Sept 1-4, 1999.
- “Neuroimaging in PTSD and Depression.” Grand Rounds presentation, Department of Psychiatry, Medical University of South Carolina, Charleston, S.C., Sept. 14, 1999 (interrupted by hurricane evacuation).
- “Traumatic Memories Lost and Found: Can Lost Memories of Childhood Abuse be Found in the Brain?” Presentation for Yale Psychiatric Institute Trauma Studies Conference, Sept. 15, 1999.
- “Neuroimaging of PTSD” Lecture for New York State Chapter of the American Psychiatric Association, Mystic, Conn., Oct. 4, 1999.
- “Does stress damage the brain? Evidence from neuroimaging studies in PTSD” Grand Rounds Lecture, Department of Psychiatry and Psychotherapy, Freiburg University Clinic, Freiburg, Germany, Oct 10, 1999.
- “Does stress damage the brain?” Invited lecture for New York State Chapter of the American Psychiatric Association, Mystic, Conn., Oct 16, 1999.
- “Lasting effects of childhood sexual abuse on the hypothalamic-pituitary-adrenal axis in women with and without posttraumatic stress disorder (PTSD)” Poster presentation at Annual Meeting of Society for Neuroscience, Miami, FL, Oct 20-25, 1999.
- “Data warehousing in PTSD” Presented as part of an Educational Workshop at Annual Meeting of International Society for Traumatic Stress Studies, Miami, FL, Nov 14-17, 1999.
- “False memories in women with childhood sexual abuse with and without PTSD: an empirical study” presented at Annual Meeting of International Society for Traumatic Stress Studies, Miami, FL, Nov 14-17, 1999.
- “Lasting effects of childhood sexual abuse on the hypothalamic-pituitary-adrenal axis in women with and without posttraumatic stress disorder (PTSD)” presented at Annual Meeting of International Society for Traumatic Stress Studies, Miami, FL, Nov 14-17, 1999.
- “Decreased frontal cortical benzodiazepine receptor binding in posttraumatic stress disorder” Poster presentation at American College of Neuropsychopharmacology Annual Meeting, Acapulco, Mexico, Dec. 12-16, 1999.
- Co-Chair of All-Day Panel Session, “Stress, Hormones, and Neural Circuits: Basic and Clinical Perspectives”. American College of Neuropsychopharmacology Annual Meeting, Acapulco, Mexico, Dec. 12-16, 1999.
- “HPA Axis Function and Hippocampus in Sexually Abused Women with and without PTSD” Presented in Panel “Stress, Hormones, and Neural Circuits: Basic and Clinical Perspectives” (JD Bremner & L Winsky, Co-Chairs). American College of Neuropsychopharmacology Annual Meeting, Acapulco, Mexico, Dec. 12-16, 1999.
- “Hippocampal Function in PTSD” Invited lecture, Veterans Administration Medical Advisory Group Meeting, Houston TX, March 13, 2000.
- Co-chair of symposium “HPA axis and neuroanatomical findings in PTSD” American Psychiatric Association Annual Meeting, Chicago IL, May 15-19, 2000.

- “HPA axis and hippocampus in sexually abused women with PTSD” presentation in symposium “HPA axis and neuroanatomical findings in PTSD” American Psychiatric Association Annual Meeting, Chicago IL, May 15-19, 2000.
- “Decreased frontal cortical benzodiazepine receptor binding in PTSD” new research presentation, American Psychiatric Association Annual Meeting, Chicago IL, May 15-19, 2000.
- Participant in workshop “Trauma and Memory, the Debate goes International” American Psychiatric Association Annual Meeting, Chicago IL, May 15-19, 2000.
- “Alterations in brain structures involved in memory in PTSD” invited lecture for New York Academy of Sciences, Neuropsychology Section, New York, NY, May 21, 2000.
- “Neuroimaging in Psychiatry” Invited lecture for Forum 2000, sponsored by SmithKline Beecham, Hawaii, May 31, 2000.
- “Neuropsychological and neuroanatomical consequences of stress” invited lecture for the Connecticut Neuropsychological Society, West Haven, CT, Sept 8, 2000.
- “Hippocampal Structure and Function in PTSD” invited paper presented in symposium “New advances in neuroimaging in PTSD” International Society for Traumatic Stress Studies Annual Meeting, Nov 17, 2000, San Antonio TX.
- “New advances in neuropeptides as therapeutic agents” invited presentation in “New Therapeutic Advances in Mood and Anxiety Spectrum Disorders” San Juan, Puerto Rico, Dec. 8 2000.
- “Neuroimaging of PTSD and Related Disorders” presented in symposium “The Legacy of PTSD and Beyond” (C Nemeroff and M Stein, Co-chairs), American College of Neuropsychopharmacology, Annual Meeting, Puerto Rico, Dec 11, 2000.
- “Increased cortisol reactivity to stressors in abuse-related PTSD” Poster presentation at American College of Neuropsychopharmacology, Annual Meeting, Puerto Rico, Dec 11, 2000.
- “Neurobiology and Treatment of PTSD” Invited lecture for PsychNet 2001, GlaxoSmithKline, Orlando FL, February 28, 2001.
- “Deficits in hippocampal structure and function in women with childhood sexual abuse-related PTSD”, Presented at the Annual Meeting of the Anxiety Disorders Association of America, March 22-25, 2001, Atlanta GA.
- “Neurobiology and Treatment of PTSD”, in symposium “Assessment and Treatment of Children and Adults with PTSD” (J Bremner & P Saigh, Co-chairs), Presented at the Annual Meeting of the Anxiety Disorders Association of America, March 22-25, 2001, Atlanta GA.
- Co-chair, “Assessment and Treatment of Children and Adults with PTSD” (J Bremner & P Saigh, Co-chairs), Presented at the Annual Meeting of the Anxiety Disorders Association of America, March 22-25, 2001, Atlanta GA.
- “Neurobiology of PTSD” Plenary session of the Dutch National Psychiatric Association, Rotterdam, The Netherlands, April 5, 2001.
- “Is there an epidemic of depression?” presentation for the lay public as part of “Conversations at the Carter Center”, Rosalyn Carter (Chair), Atlanta GA, April 19, 2001.

- “Deficits in hippocampal structure and function in childhood sexual abuse-related PTSD” invited lecture for symposium “Trauma and Memory” (Kristen Alexander and Jodie Quaas, Co-Chairs) Annual Meeting of the Society for Research on Child Development, Minneapolis, April 19-24, 2001.
- “Looking into the Minds Eye of PTSD” presented as part of program “Future Leaders in Psychiatry,” Boca Raton, FL, April 20-22, 2001.
- “Effects of Captivity Stress on Cardiovascular Disease” invited lecture for Robert Mitchell Center for RPOW Studies/Center for Naval Analysis/Naval Operational Medicine Institute Conference on RPOW Studies, Alexandria, VA, April 23-24, 2001.
- “Neurobiology of PTSD” Invited lecture for the American Society of Hispanic Psychiatrists, New Orleans, LA, May 1, 2001.
- “Role of hippocampus and medial prefrontal cortex in abuse-related PTSD” Presented as part of symposium, “Childhood Sexual Abuse: Victims and Perpetrators” (I. Galynker & JD Bremner, Co-Chairs), Annual Meeting of the American Psychiatric Association, New Orleans, LA May 5-10, 2001
- “Trauma and Memory Related to Bosnian Genocide: The Debate Goes International” Invited participant in Workshop for American Academy of Psychiatry and the Law, Annual Meeting, Boston MA, Oct. 25, 2001.
- “Failure of hippocampal activation in recurrent depression” oral presentation at Society for Neuroscience Annual Meeting, San Diego, CA, Nov 14-18, 2001.
- Participant in Workgroup “Early Responses to Trauma” sponsored by NIMH; presented “Alterations in brain structure and function in PTSD”, Bethesda, MD, Nov. 15-16, 2001
- “Effects of Stress and Anxiety on Brain Structure and Function: Lessons from Combat-related and Civilian PTSD” Invited lecture for the 23rd Annual PUK Symposium: “Posttraumatische Stress Stoornis...van neurobiologische modelvorming tot klinisch inzicht”. Utrecht, The Netherlands, Nov. 28, 2001.
- Chair of Symposium: “Neural Mechanisms in Posttraumatic Stress Disorder: Part II” Annual Meeting of the International Society of Traumatic Stress Studies, New Orleans, LA, Dec. 6, 2001.
- “Positron emission tomographic imaging of neural correlates of fear conditioning in PTSD” presented in Symposium: “Neural Mechanisms in Posttraumatic Stress Disorder: Part II” Annual Meeting of the International Society of Traumatic Stress Studies, New Orleans, LA, Dec. 6, 2001.
- “Neural correlates of exposure to the neutral and emotional Stroop in abuse-related PTSD” Presented in Symposium: “Neural Mechanisms in Posttraumatic Stress Disorder: Part I (Jim Hooper PhD, Chair) ” Annual Meeting of the International Society of Traumatic Stress Studies, New Orleans, LA, Dec. 6, 2001.
- “Neural correlates of fear conditioning in PTSD” poster presentation at the Annual Meeting of the American College of Neuropsychopharmacology, Waikaloa, Hawaii, Dec 9-14, 2001.
- “Neurophysiological mechanisms in dissociation.” Invited presentation for symposium “Estados Dissociativos (Dissociative Phenomena): Controversias em Psiquiatria (Controversies in Psychiatry)” (Chaired by Prof M. Luisa Figueira), Sintra, Portugal, Jan 12, 2002.

- “Neurobiology of PTSD” Atlanta VAMC Grand Rounds Presentation, Jan 15, 2002.
- “Pathways mediating the effects of stress on depression” Invited plenary lecture for the American College of Psychiatry, Mauna Lani, Hawaii, February 26, 2002.
- “Recent advances in the neurophysiology of trauma” invited plenary lecture for the American Society of Clinical Hypnosis annual meeting, Indianapolis IN, March 19, 2002.
- “Does Stress Damage the Brain?” Invited lecture for the NIMH Mood and Anxiety Disorders Program Distinguished Lecture Series, April 1, 2002, Bethesda MD.
- “Alterations in brain structure and function in PTSD” Invited lecture and invited participant in Sedona Conference “Effects of early life events on mind brain body interactions”, Sedona, AZ, April 7-11, 2002.
- “Memory and the hippocampus in posttraumatic stress disorder” Invited lecture for the Spring Hippocampus Research Conference, Grand Cayman, April 13-20, 2002.
- Discussant for “Functional imaging and the control of emotion and impulsivity in borderline personality disorder”, Workshop for Annual meeting of the Society for Biological psychiatry annual meeting, Philadelphia PA, May 7-12, 2002.
- “Neural correlates of memory for emotional words in abuse-related PTSD” presented in child/anxiety paper session, Society for Biological psychiatry annual meeting, Philadelphia PA, May 7-12, 2002.
- “Neural pathways in stress” Presentation at Society for Biological Psychiatry annual meeting, Philadelphia PA, May 7-12, 2002.
- “Neural correlates of fear conditioning and extinction in women with childhood abuse-related posttraumatic stress disorder” Presentation at the Annual Meeting for the Society of Nuclear Medicine, Los Angeles CA, June 16, 2002.
- “Neurobiology of PTSD and Depression” lecture for the Emory Program for Training of Psychiatry Residents, a national program held at Palm Beach, FL, Aug 22-26, 2002.
- “Neurobiology and Treatment of PTSD” presented as part of symposium “Neurobiology of Trauma related Disorders” World Psychiatry Congress Annual Meeting, Yokohama Japan, Aug 26-29, 2002.
- “Hippocampus and Memory in Twins with and without Vietnam Combat Service and PTSD” presented in symposium “New Brain Imaging Studies in PTSD” International Society of Traumatic Stress Studies Annual Meeting. Baltimore, MD, Nov 9-11, 2002
- “Neurobiology and Treatment of PTSD” presented in symposium “Biology and Clinical Psychopathology of Trauma, Stress and Dissociation” joint session of the International Society of Traumatic Stress Studies, and International Society for the Study of Dissociation. Baltimore, MD, Nov 9-11, 2002
- “Depression and Bipolar Support Alliance Consensus Conference on Diagnosis and Treatment of Depression in the Medically Ill”, Washington, DC, Nov 12-13, 2002. Participant in Consensus Conference and in Workgroup on “Stroke, Parkinson’s Disease and Alzheimer’s Disease.”
- “Does Stress Damage the Brain? Invited plenary lecture for Program “Nye udfordringer i arbejdsmedicinen”, Dept. of Occupational Medicine, Aarhus University Hospital, Aarhus, Denmark, Nov. 21, 2002.

- “Hippocampal volume in dizygotic twins discordant for Vietnam combat exposure and PTSD” presented at American College of Neuropsychopharmacology Annual Meeting, San Juan PR, December 9, 2002.
- “Neurobiology and treatment of PTSD” invited lecture and participant in the conference “Trauma, Culture and the Brain” sponsored by the Foundation for Psychocultural Research and UCLA, Los Angeles CA, Dec 13-15, 2002.
- “Does Stress Damage the Brain?” Invited lecture, St. Josef Hospital & University of Leuven, Leuven, Belgium, March 21, 2003.
- “Recent Research Findings in PTSD” Invited lecture, University of Utrecht, Utrecht, The Netherlands, March 23, 2003.
- “The Neurobiology of Early Trauma” invited lecture for Satellite Symposium of the Anxiety Disorders Association of America Annual Meeting, Toronto, Canada, March 26-9, 2003
- “PET and MRI Studies of Mood and Anxiety Disorders” presented as part of symposium “Common Circuits in Depression and Anxiety: Evidence from Neuroimaging Studies” Anxiety Disorders Association of America Annual Meeting, Toronto, Canada, March 26-9, 2003.
- “Does Stress Damage the Brain” Invited lecture for the Annual Meeting of the Colorado Neuropsychological Association, Denver, CO, April 2, 2003.
- “Effects of Stress on Mind, Brain and Body: Evidence from Neuroimaging Studies” Invited Lecture for the UCLA Center for Integrative Medicine, Los Angeles CA, May 12, 2003.
- “Does Stress Damage the Brain?” Invited Lecture for the UCLA Center for Ulcer Research, Los Angeles CA, May 13, 2003.
- “Memory and the Hippocampus in Vietnam Twins with PTSD” presented in paper session at Annual Meeting of Society of Biological Psychiatry, San Francisco CA, May 14-18, 2003.
- “Neural Correlates of Memory for Emotionally Valenced (Sad) Words in Patients with Unipolar Major Depression” poster presented at Annual Meeting of Society of Biological Psychiatry, San Francisco CA, May 14-18, 2003.
- “Is BPD a Variant of PTSD? Evidence from Neuroimaging Studies” presented in workshop at Annual Meeting of Society of Biological Psychiatry, San Francisco CA, May 14-18, 2003.
- “Does Stress Really Damage the Brain” presented in workshop at Annual Meeting of Society of Biological Psychiatry, San Francisco CA, May 14-18, 2003.
- “Does Stress Damage the Brain?” invited plenary lecture at the European Society for Traumatic Stress Studies, Berlin, Germany, May 22, 2003.
- “Effects of pharmacological treatment on brain structure in PTSD” Invited plenary lecture for the Annual Meeting of the International Society for Psychoneuroendocrinology, New York NY, Sept 10, 2003.
- “Brain imaging in PTSD” invited presentation for “PTSD Roundtable” sponsored by GlaxoSmithKline, New York, NY, Sept 14, 2003.
- “Neurobiology of Early Stress” Grand Rounds presentation, Department of Pediatrics, Virginia Commonwealth University School of Medicine, Richmond, Virginia, Oct. 14, 2003.

- “HPA axis and serotonergic function in PTSD” part of symposium “An integration of pathophysiology and pharmacotherapy of PTSD” Annual Meeting of the International Society for Traumatic Stress Studies, Chicago IL, Oct 29-31, 2003.
- “Memory and the Hippocampus in Vietnam Twins with PTSD” part of symposium “New research in brain imaging in PTSD” Annual Meeting of the International Society for Traumatic Stress Studies, Chicago IL, Oct 29-31, 2003.
- “Regional metabolic correlates of alpha-methyl paratyrosine induced return of depressive symptoms” presented at Annual Meeting of the Society for Neuroscience, New Orleans, LA, Nov 11, 2003.
- “Effects of glucocorticoids on verbal declarative memory in posttraumatic stress disorder” presentation at Annual Meeting of the American College of Neuropsychopharmacology, San Juan PR, Dec 8-12, 2003.
- “Does stress damage the brain?” Grand Rounds in Psychiatry, Vanderbilt University School of Medicine, Jan 13, 2004.
- “Does Stress Damage the Brain?” Invited lecture for the Colorado Psychiatric Society, Englewood CO, January 23, 2004.
- “Neurobiology of PTSD” Invited lecture at the Department of School Psychology, Teachers College, Columbia University, New York, Feb 19, 2004.
- “Neurobiology of Early Life Stress in Women with Posttraumatic Stress Disorder” presented in symposium “Biological, Cognitive and Behavioral Changes Associated with Early Trauma In Women” (Mazure, Chair) at 2nd World Congress for Women’s Mental Health, International Association for Women’s Mental Health, Washington DC, March 17-20, 2004.
- “HPA Axis and Serotonin Function in PTSD” presented as part of panel, Neurobiology and Neuropharmacology of PTSD, L Davis, Chair, Annual Meeting of the American Psychiatric Society, New York, May 6, 2004.
- “Does Stress Damage the Brain?” Invited Keynote Address, Bi Annual Retreat, Developmental Psychobiology Research Group Training Program, University of Colorado Health Sciences Center, Estes Park CO, May 19, 2004.
- “Role of the Hypothalamic-pituitary-adrenal Axis in Stress-induced Glutamate Pathology in Hippocampus” invited lecture as part of symposium on “The Role of Glutamate in Stress Response” (G. Marek, Chair), presented at 5th World Congress on Stress, International Society for the Investigation of Stress, King’s College, London, June 18, 2004.
- “Alterations in Brain Structure and Function in Posttraumatic Stress Disorder” presented in symposium “Update on PTSD: From Acute Trauma to Chronic Disorder” (J. Zohar, Chair) at XXIVth Collegium Internationale Neuropsychopharmacology Congress, Paris, June 23, 2004.
- “Memory and the Hippocampus in PTSD” Invited lecture for 13th Hakone Psychopharmacological Symposium, Hakone, Japan, September 5, 2004.
- “Neurobiology of Sexual Abuse in Women” Invited lecture, Japan National Institute of Health, Tokyo, Japan, Sept. 7, 2004.
- “Does Stress Damage the Brain?” invited lecture for Co-Occurring Disorders Inst., Wasila, AK, Sept. 20, 2004.

- “Functional brain imaging abnormalities in acne patients treated with isotretinoin” presented at Annual Meeting of Society for Neuroscience, San Diego CA, Oct. 22-26, 2004.
- “Childhood abuse and PTSD” presented in NIH Workshop “Fibromyalgia: The Next Advances” jointly sponsored by Oregon Health & Science University and The National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMSD), NIH, Washington DC, November 11-12, 2004
- “PTSD and the Effect of Interventions” invited lecture for “Neuroimaging, de invloed van therapeutische interventies”, Parnassia Hospital, The Hague, Netherlands, Dec 10, 2004.
- “Treatment of posttraumatic stress disorder with phenytoin: An open label pilot study.” Poster presentation at the Annual Meeting of the American College of Neuropsychopharmacology, San Juan PR, Dec 12-16, 2004.
- “Effects of phenytoin on memory, cognition, and brain structure in posttraumatic stress disorder: A pilot study.” Poster presentation at the Annual Meeting of the American College of Neuropsychopharmacology, San Juan PR, Dec 12-16, 2004.
- “Effects of stress and depression on stress-induced myocardial ischemia in patients with Coronary Heart Disease” Poster presentation at Annual Meeting of American Psychosomatic Society, Vancouver BC, Feb 28-March 3, 2005.
- “Effects of stress and depression on stress-induced myocardial ischemia in patients with Coronary Heart Disease” slide presentation at Annual Meeting of Society of Biological Psychiatry, Atlanta GA, May 20-22, 2005.
- “Effects of isotretinoin on brain function in acne patients”, poster presentation at Annual Meeting of Society of Biological Psychiatry, Atlanta GA, May 20-22, 2005.
- “Brain imaging in psychiatry,” presented as part of symposium “Research advances in psychiatry,” Annual Meeting of the American Psychiatric Association, Atlanta GA, May 23-25, 2005
- “Effects of isotretinoin on brain function in acne patients”, poster presentation at Annual Meeting of the American Psychiatric Association, Atlanta GA, May 23-25, 2005.
- “Neural Circuits in Trauma Spectrum Disorders”, presentation as part of symposium “Disturbed fronto-limbic brain circuitry: How specific is it for different psychiatric disorders” (K. Lieb, Chair), presentation at Annual Meeting of the American Psychiatric Association, Atlanta GA, May 23-25, 2005
- “Effects of Stress on Brain Structure and Function: Applications to Trauma Spectrum Disorders”, invited lecture for 2005 Workshop on the Neuroendocrinology of Stress, supported by the American Neuroendocrine Society, San Diego, CA, June 1, 2005.
- “Relationship between Cognitive and Brain Changes in PTSD”, invited lecture for “Psychobiology of PTSD: A Decade of Progress”, New York Academy of Sciences, New York NY, Sept 11-13 2005.
- “Mental depression and cardiovascular disease” invited lecture for American Heart Association Sponsored Workshop on Emerging Concepts on Neural Interactions in Hypertension, Washington DC, Sept. 21, 2005.
- “Structural and Functional Brain Imaging of Trauma Spectrum Disorders,” invited Grand Rounds presentation at Wake Forest University School of Medicine, Winston-Salem, NC, December 1, 2005.

- “Hippocampus in Stress Related Psychiatric Disorders” invited lecture for the Annual Meeting of the American College of Psychiatrists, San Juan, P.R., Feb 22, 2006.
- “Plasma cholesterol concentrations in depression and posttraumatic stress disorder,” poster presentation and published abstract, Annual Meeting of the American Psychosomatic Society, Denver CO March 1-4, 2006.
- “Single photon emission computed tomography (SPECT) measurement of myocardial perfusion in repatriated prisoners of war,” poster presentation and published abstract, Annual Meeting of the American Psychosomatic Society, Denver CO March 1-4, 2006.
- “Longitudinal assessment of cortisol in repatriated prisoners of war,” poster presentation and published abstract, Annual Meeting of the American Psychosomatic Society, Denver CO March 1-4, 2006.
- “Genetic and Neurobiologic Risk Factors for PTSD”, invited lecture for VA/DOD/NIH Meeting, “Mapping the Landscape of Deployment Related Mental Health Illness” Washington DC, May 18-19, 2006.
- “Memory and the Hippocampus in Vietnam Twins with PTSD” invited lecture to the Georgia Prevention Institute, Medical College of Georgia, Augusta GA May 20 2006.
- “Lipid concentrations in patients with posttraumatic stress disorder and depression,” poster presented at International Symposium on Atherosclerosis, Rome Italy June 18-22, 2006.
- “Structural and functional plasticity of the human brain in posttraumatic stress disorder,” invited lecture for the Dutch Royal Academy of Arts and Sciences, Amsterdam, The Netherlands, Aug 29, 2006.
- “Brain morphology and psychiatric consequences of childhood sexual abuse,” invited lecture for symposium “Early stress and psychiatric outcomes,” chaired by R. de Kloet and F. Noble, Annual Meeting of the European College of Neuropsychopharmacology, Paris, France, Sept 16-20, 2006.
- “Neural correlates of stress induced myocardial ischemia in coronary heart disease patients with and without depression,” poster at Society for Neuroscience Annual Meeting, Atlanta GA October 16 2006.
- “Brain imaging and neurobiology of PTSD in returning OIF veterans,” invited talk for Defense Appropriations Research Program Agency (DARPA) meeting on “Non kinetic war trauma”, Alexandria VA, October 23, 2006.
- “Neural and cardiac correlates of resilience and recovery from traumatic stress”, presented in symposium “Mechanisms in resilience and recovery from traumatic stress (JD Bremner, Chair), Annual Meeting of the International Society for Traumatic Stress Studies” Hollywood CA, Nov 4-7, 2006.
- “Glutamate, memory, the hippocampus and dissociation” presented in symposium “New Perspectives in Post-traumatic Dissociation” (R. Lanius, Chair) Annual Meeting of the International Society for Traumatic Stress Studies” Hollywood CA, Nov 4-7, 2006.
- “Memory and the hippocampus in Vietnam twins with PTSD”, poster presentation at the Annual Meeting of the International Society for Traumatic Stress Studies” Hollywood CA, Nov 4-7, 2006.

- “Long term neurobiological effects of childhood abuse” invited lecture presented as part of “Brainstorm” for Brain Awareness Week, sponsored by the Vanderbilt Brain Institute and Vanderbilt University, February 28, 2007.
- “Neurobiology of Childhood Abuse Related PTSD” invited lecture for symposium ‘Psychosomatic Medicine and PTSD: From Bench to Bedside to Community,’ American Psychosomatic Society Annual Meeting, Budapest, Hungary, March 7, 2007.
- “PTSD and Substance Abuse: Neurobiology” invited lecture in symposium “PTSD and Substance Abuse: Diagnosis, Neurobiology and Treatment” (C. Whitfield, Chair) American Substance Abuse Medicine Annual Meeting, Miami FL April 27, 2007.
- ‘Effects of traumatic stress on brain and relationship to physical health,’ presented in ‘Effects of Trauma on Neurobiology and Physical Health,’ Symposium at European Conference on Traumatic Stress, Opatija, Croatia, June 9, 2007.
- ‘Brain imaging in anxiety disorders’, presented at the Gordon Research Conference ‘The Amygdala’, Bates College, Lewiston Maine, Aug 2, 2007.
- ‘Effects of childhood abuse on the brain: Lessons from neuroimaging’, presented at the 13th Annual Habeus Corpus Convention, Nashville TN, Aug 16, 2007
- ‘Childhood trauma and cardiovascular disease’ poster presented as last author, European Society for Cardiology Annual Meeting, Vienna, Austria, Sept 4, 2007.
- ‘Brain Imaging of Childhood Abuse Related Posttraumatic Stress Disorder’ invited lecture for the International Society of Brain Mapping and Intraoperative Surgical Planning (ISBMISP), Annual Meeting, Washington DC, Sept 8, 2007.
- ‘Neural correlates of stress induced myocardial ischemia in patients heart disease with and without depression’ poster presented at the Annual Meeting of the American College of Neuropsychopharmacology, Boca Raton FL, Dec 6-10 2007.
- ‘Neurobiology and brain imaging of trauma-related psychiatric disorders,’ Grand Rounds presentation, Dept of Psychiatry, University of Chicago, Chicago IL, Jan 31, 2008.
- ‘Neurobiology of trauma’ invited lecture for Annual Meeting of the Georgia Psychiatric Physicians Association (GPPA), Atlanta, GA, Feb 15, 2008
- ‘Neurobiology of affective disorders,’ invited lecture for the Department of Neuroscience, University of Aberdeen, Scotland, July 2, 2008.
- “Functional Imaging of Depression,” invited lecture for 6th Annual International Workshop on Neural Plasticity, St Paul de Vence, France, September 26-28, 2008.
- “Neurobiology and Neuroimaging of psychological Trauma” invited presentation for the Research and Resources Center for Victims of Torture, Torture Rehabilitation Conference, Copenhagen, Denmark, Dec 3-4, 2008.
- “Memory and the hippocampus in Vietnam twins” part of panel “Twin studies in PTSD” Chaired by Roger Pitman MD, Annual meeting of the American College of Neuropsychopharmacology, Scottsdale AZ Dec 7-11, 2008.
- “Effects of Mental Stress Induce Myocardial Ischemia on Brain Function in Patients with Depression” poster presented at the Annual Meeting of the American Psychosomatic Society, March 4-7, 2009
- “Neuroplasticity in PTSD”, invited lecture for Joint SAN/COST B27 Training Schools on Neurofeedback and ADHD & International Course and Conference

MIND AND BRAIN VI: Neuroplasticity of Brain and Behavior, April 16-21, 2009, Dubrovnik, Croatia.

- “Declarative Memory for Neutral and Emotional Material in PTSD” presented as part of session, “Information Processing and PTSD: Cognitive Research Across Different Stages of Processing,” co-chaired by N Fani and JD Bremner, International Society of Traumatic Stress Studies, Annual Meeting, Atlanta GA, Nov 4-8, 2009
- “Neural Correlates of Learning in PTSD” presented as part of session “Hippocampal Neuroplasticity in PTSD: Evidence from Brain Imaging” chaired by R Yehuda, International Society of Traumatic Stress Studies, Annual Meeting, Atlanta GA, Nov 4-8, 2009
- Member of panel “Therapeutic and Research Implications of a Dissociative Subtype of PTSD”, International Society of Traumatic Stress Studies, Annual Meeting, Atlanta GA, Nov 4-8, 2009
- “Cognitive and Physiological Factors Underlying PTSD” presented as part of “Third Annual Symposium on Cognitive Impairment and CNS Diseases” Lilly Centre for Neurosciences, Erl Wood Manor, Windlesham, Surrey, UK, Nov 19, 2009
- “Plasma Homocysteine Concentrations and Depression in Twins” poster presented at the Annual Meeting of the American Psychosomatic Society, Portland OR, March 10-14, 2010.
- Presented at Ben Franklin Institute Summit in Chicago IL “Freud Meets Buddha” invited lectures “Trauma and Neuroscience: The Connection” “Neuroscience and Brain Imaging of Trauma-related Disorders” and “Brain Imaging of Anxiety Disorders”, March 19, 2010.
- Presented at Ben Franklin Institute Summit in Tucson AZ, “Depression and Heart Disease”, “Mindfulness Treatment of PTSD” and “Before You Take that Pill: Focus on Psychotropics”, Oct 21-22, 2010.
- “Mediterranean Diet and Neuropsychiatric Disorders” presented as part of conference “Mediterranean Diet and Health” at Emory University, Chaired by V. Vaccarino and G. Trovato, Dec 3, 2010.
- “Does Stress Damage the Brain” and “Before You Take that Pill: Focus on Psychotropics”, presented at National Institute of Clinical and Behavioral Medicine meeting in Hilton Head, S.C., Dec 6-10, 2010.
- “Treatment of PTSD in Iraq Veterans with Mindfulness Based Stress Reduction” poster presented at the Annual Meeting of the American Psychosomatic Society, San Antonio TX, Mar 9-12, 2011.
- Participated in workshop and presented “MRI: Assessing cognitive and behavioral correlates of brain disease” at “Review and Analysis Workshop on Methods and Metrics for the Biological Assessment of Brain Dysfunction” co-chaired by Col Karl Friedl, PhD, Telemedicine & Advanced Technology Research Center (TATRC), Ft Detrick, MD, US Army Medical & Materiel Research Command; Dr. Robert Kane, PhD, Defense and Veterans Brain Injury Center (DVBIC), Washington DC; Jay H. Shore, MD MPH (TATRC); Victoria Tepe PhD, Survivability/Vulnerability Information Analysis Center (SURVCIAC); Georgetown University Inn, Georgetown, MD, May 24-25, 2011.
- Presented at Ben Franklin Institute Summit in Atlanta GA, “Neuroimaging of PTSD”, Sep 22-24, 2011.

- Presented “Neural Correlates of Fear Learning in PTSD” in symposium “Update on Neuroimaging and PTSD: Evolving Methods and New Directions” (Brian Engdahl, PhD, Chair) at International Society for Traumatic Stress Studies (ISTSS) Baltimore MD Nov 3-6, 2011.
- “Retinoic Acid and Affective Disorders: The Evidence for an Association” presented poster at Annual Meeting of the American College of Neuropsychopharmacology, Dec 5-9, 2011, Miami Beach FL.
- “Neuroimaging of PTSD” Emory Psychiatry Grand Rounds, Feb. 22, 2012, Atlanta GA
- “Neurobiology and neuroimaging of early stress in women,” paper presented at conference “Women, Stress and Health,” chaired by Kristina Orth-Gomér and Hans-Christian Deter, Karolinska Institute, Stockholm, Sweden, March 9, 2012.
- “The relative contributions of posttraumatic stress disorder and major depression to coronary heart disease risk: A prospective twin study,” presented at Annual Meeting of the American Psychosomatic Society, Athens Greece, March 12-16, 2012.
- “Declarative memory function in twins discordant for combat-related posttraumatic stress disorder,” poster presentation at 14th Congress of the International Society for Twin Studies, Florence, Italy, April 1-7, 2012.
- “Brain Imaging of Anxiety Disorders” and “Effects of Childhood Abuse on the Brain: Lessons from Neuroscience” presented at the Ben Franklin Inst. Summit at Columbus OH April 13, 2012.
- Keynote lecture of 27th Annual Dartmouth Neuroscience Day, “Neurobiology of PTSD”, April 5, 2013, Dartmouth College, Hanover, NH.
- “Biomarkers of PTSD” Annual Meeting of the International Society of Psychoneuroendocrinology (ISPNE), Leiden, The Netherlands, Aug 21, 2013
- “Brain Imaging in PTSD”, Satellite Meeting of the ISPNE at the Dutch Naval Center, The Use of Biomarkers in the Military: From PTSD Susceptibility to Disease, Amsterdam, The Netherlands, Aug 23, 2013.
- “Mechanisms of Stress and Depression in Cardiovascular Disease,” presented at the conference “Psychological Stress and the Heart,” sponsored by the Emory Clinical Cardiovascular Research Institute (ECCRI), the Division of Cardiology, and the Department of Psychiatry in the Emory University School of Medicine and the Department of Epidemiology in the Rollins School of Public Health at Emory University, Atlanta, GA, October 18, 2013.
- “40 Years of Silence,” film by Robert Lemelson, PhD, symposium discussant, Emory University Mind, Brain and Culture Institute, October 21, 2013.
- Invited participant in: “Severe Trauma & Torture Treatment Workshop: Strategies in Research, Treatment, Education, & Advocacy,” for the National Consortium of Torture Treatment Programs (NCTTP) Oct 4-6, 2013, Portland, Oregon.
- “Depression symptoms are associated with arterial stiffness with mental stress.” Co-presenter at Annual Meeting of the American Psychosomatic Society, March 11-15, 2014, San Francisco, CA
- Participant in Academy of Behavioral Medicine Research meeting at Warrenton, Virginia, Jun 25-29, 2014.

- Invited Lecture, “Guiding Clients in Recovery from Psychological Trauma” Atlanta, GA, Ben Franklin Institute, October 2014.
- Invited Lecture, “Recovery from Psychological Trauma” Las Vegas, Nevada, November 2014.
- “Brain Correlates of Mental Stress-Induced Myocardial Ischemia,” poster presentation at the Annual Meeting of the American Psychosomatic Society, Savannah, Georgia, March 18-21, 2015.
- “Neurobiology of Stress, Depression and PTSD and Applications to Mechanisms in Cardiovascular Disease,” presented at the annual Academy of Behavioral Medicine Research meeting at Cambridge, Maryland, June 25-28, 2015. Also participant in conference.
- “Stress, Behaviour and Heart Disease”, invited lecture and also conference participant, “Heart and Behaviour. Stress, behaviour and the heart.” (M. Esler, N. Montano, A. Sgoifo, V. Vaccarino, Directors), Ettore Majorana Foundation and Centre for Scientific Culture, Erice, Sicily, Italy, Oct. 1-6, 2015.

29. Other Activities:

30. Bibliography:

Published and accepted articles in refereed journals:

1. **Bremner JD**, Southwick SM, Charney DS: Animal models for the neurobiology of trauma. *PTSD Res Q* 1991; 2(4):1-7.
2. **Bremner JD**, Southwick SM, Rosenheck R, Brett E, Fontana A, Charney DS: Dissociation and posttraumatic stress disorder in Vietnam combat veterans. *Am. J. Psychiatry*. 1992;149(3):328-332.
3. Yehuda R, Southwick SM, Krystal JH, **Bremner JD**, Charney DS, Mason J: Enhanced suppression of cortisol with low dose dexamethasone in posttraumatic stress disorder. *Am. J. Psychiatry*. 1993;150:83-86.
4. **Bremner JD**: Dissociazione e La Malattia del Stress Post Traumatico. *Il Piccolo Hans* 1993.
5. **Bremner JD**, Southwick SM, Johnson DR, Yehuda R, Charney DS: Childhood physical abuse and combat-related posttraumatic stress disorder in Vietnam veterans. *Am. J. Psychiatry*. 1993;150:235-239.
6. **Bremner JD**, Steinberg M, Southwick SM, Johnson DR, Charney DS: Use of the Structured Clinical Interview for DSMIV-Dissociative Disorders for systematic assessment of dissociative symptoms in posttraumatic stress disorder. *Am. J. Psychiatry*. 1993;150:1011-1014.
7. **Bremner JD**, Scott TM, Delaney RC, Southwick SM, Mason JW, Johnson DR, Innis RB, McCarthy G, Charney DS: Deficits in short-term memory in post-traumatic stress disorder. *Am. J. Psychiatry*. 1993;150:1015-1019.
8. Sybirska E, Seibyl JP, **Bremner JD**, Baldwin RM, Al-Tikriti MS, Bradberry C, Malison RT, Zea-Ponce Y, Zoghbi S, Doring M, Goddard AW, Woods SW, Hoffer PB, Charney DS,

- Innis RB: [¹²³I]Iomazenil SPECT imaging demonstrates significant benzodiazepine receptor reserve in human and non-human primate brain. *Neuropharmacology*. 1993;32:671-680.
9. Southwick SM, Morgan A, Nagy LM, **Bremner JD**, Nicolaou AL, Johnson DR, Rosenheck R, Charney DS: Trauma related symptomatology in Desert Storm veterans: a preliminary report. *Am. J. Psychiatry*. 1993;150:1524-1528.
 10. Krystal JH, Karper LP, Seibyl JP, Delaney R, **Bremner JD**, Bowers MB, Charney DS: Dose-related effects of the NMDA antagonist, ketamine, in healthy humans. *Schizophrenia Res*. 1993;9:240.
 11. Krystal JH, Karper LP, Abi-Dargham A, Delaney R, **Bremner JD**, Bowers MB, Charney DS: Ketamine effects reduced by lorazepam in healthy humans. *Schizophrenia Res*. 1993;9:241.
 12. Mason J, Southwick S, Yehuda R, Wang S, Riney S, **Bremner D**, Johnson D, Lubin H, Blake D, Zhou G, Guzman F, Charney D: Elevation of serum free triiodothyronine, total triiodothyronine, thyroxine-binding globulin, and total thyroxine levels in combat-related posttraumatic stress disorder. *Arch. Gen. Psychiatry*. 1994;51:629-641.
 13. **Bremner JD**, Charney DS: The neurobiology of posttraumatic stress disorder: implications for treatment. *Int. Acad. Biomed. Drug Res.* (Basel, Karger; Darcourt G, Mendlewitz J, Racagni G, Brunello N (eds.)); 1994;8:171-186.
 14. Southwick SM, **Bremner JD**, Krystal JH, Charney DS: Psychobiologic research in posttraumatic stress disorder. *Psychiatric Clin. N.A.* 1994;17(2):251-264.
 15. Abi-Dargham A, Laruelle M, Seibyl J, Rattner Z, Baldwin RM, Zoghbi SS, Zea-Ponce Y, **Bremner JD**, Hyde TM, Charney DS, Hoffer PB, Innis RB: SPECT measurement of benzodiazepine receptors in human brain with [¹²³I]iomazenil: Kinetic and equilibrium paradigms. *J. Nucl. Med.* 1994;35:228-238.
 16. Krystal JH, Karper LP, Seibyl JP, Freeman GK, Delaney R, **Bremner JD**, Heninger GR, Bowers, MB, Charney DS: Subanesthetic effects of the non-competitive NMDA antagonist, ketamine, in humans: Psychotomimetic, perceptual, cognitive, and neuroendocrine responses. *Arch. Gen. Psychiatry*. 1994;51:199-214.
 17. Baldwin R, Horti A, **Bremner JD**, Stratton MD, Dannals RF, Ravert HT, Zea-Ponce Y, Ng CK, Dey HM, Soufer R, Charney DS, Mazza SM, Sparks RB, Stubbs JB, Innis RB: Synthesis and PET imaging of the benzodiazepine tracer [*N*-Methyl-¹¹C]iomazenil. *Nucl. Med. Biol.* 1995; 22:659-665.
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