

CURRICULUM VITAE

Revised: 09-17-16

NAME: Charles Louis Raison

OFFICE ADDRESS: School of Human Ecology
1285 Nancy Nicholas Hall
University of Wisconsin—Madison
Madison, WI 53706

E-MAIL: charles.raison@wisc.edu

Current H-Index: 38
Current i10-Index: 72

EDUCATION:

Undergraduate:
1976-1980 Stanford University, Stanford, CA, B.A. in Anthropology with honors and departmental distinction

Graduate:
1982-85 University of Denver, Denver, CO, M.A. in English, with emphasis in creative writing

PreMedical:
1985-86 Bryn Mawr College, Bryn Mawr, PA, Premedical Program, Post Baccalaureate

Medical:
1987-91 Washington University School of Medicine, St. Louis, MO, M.D. degree

POSTGRADUATE TRAINING:

1991-1992 Internship, Department of Psychiatry and Biobehavioral Sciences, UCLA Neuropsychiatric Institute and Hospital, Los Angeles, CA

1992-1995 Psychiatric Residency, Department of Psychiatry and Biobehavioral Sciences, UCLA Neuropsychiatric Institute and Hospital, Los Angeles, CA

1994-1995 Chief Resident, Adult Inpatient Services, Department of Psychiatry and Biobehavioral Sciences, UCLA Neuropsychiatric Institute and Hospital, Los Angeles, CA

1984 Colorado State Fellow, University of Denver, Denver, CO

LICENSURE:

Wisconsin State Medical License 64684-20; Expiration 10/31/2017

Arizona State Medical License No: 45842; Expiration 04/26/2016

DEA# BR3895856

SPECIALTY BOARDS: Diplomate, American Board of Psychiatry and Neurology, 1996, renewed 2007

CURRENT TITLES AND AFFILIATIONS:

Academic Appointments:

- 2015- Mary Sue and Mike Shannon Chair for Healthy Minds, Children & Families, School of Human Ecology, University of Wisconsin-Madison, Madison, WI
- 2015- Visiting Professor, Department of Human Development and Family Studies, School of Human Ecology, University of Wisconsin-Madison, Madison, WI
- 2015- Visiting Professor, Department of Psychiatry, School of Medicine and Public Health, University of Wisconsin-Madison, Madison, WI
- 2014- Founding Director, Center for Compassion Studies, University of Arizona, Tucson, AZ

Clinical Appointments:

- 1999-2011 Clinician, Emory Clinic, Emory University School of Medicine, Atlanta, Georgia
- 2012-present Clinician, University Physicians Healthcare, Tucson AZ

Research/Academic Consulting:

- 2016- Director of Research in Spiritual Health, Spiritual Health at Emory Healthcare, Emory University School of Medicine, Atlanta, GA
- 2016- Director of Clinical and Translational Research, Usona Institute, Madison, GA

PREVIOUS ACADEMIC AND PROFESSIONAL APPOINTMENTS:

2014-2015 Professor with tenure, Department of Psychiatry, College of Medicine, University of Arizona, Tucson, AZ

2014-2015 Barry and Janet Lang Professor of Integrative Mental Health, John & Doris Norton School of Family and Consumer Sciences, College of Agriculture, University of Arizona, Tucson, AZ

2014-2015 Affiliate Professor, School of Anthropology, College of Social and Behavioral Sciences, University of Arizona, Tucson, AZ

2014-2015 Affiliate Professor, Department of Psychology, School of Mind, Brain and Behavior, College of Science, University of Arizona, Tucson, AZ

2011-2014 Associate Professor, tenure eligible, Department of Psychiatry, College of Medicine, University of Arizona, Tucson, AZ

2012-2014 Barry and Janet Lang Associate Professor of Integrative Mental Health, John & Doris Norton School of Family and Consumer Sciences, College of Agriculture, University of Arizona, Tucson, AZ

2013-2014 Affiliate Associate Professor, Department of Psychology, School of Mind, Brain and Behavior, College of Science, University of Arizona, Tucson, AZ

2013-2014 Affiliate Member, The Partnership for Native American Cancer Prevention, a collaborative project to the University of Arizona Cancer Center and Northern Arizona University

2013-2015 Associate Member, Canyon Ranch Center for Prevention and Health Promotion, Mel and Enid Zuckerman School of Public Health, University of Arizona, Tucson, AZ

2011- Adjunct Associate Professor, Department of Psychiatry and Behavioral Sciences, Emory University School of Medicine, Atlanta, GA

1995-1999 Assistant Clinical Professor, Department of Psychiatry and Biobehavioral Sciences, University of California at Los Angeles (UCLA), Los Angeles, CA

1995-1999 Director, Emergency Psychiatric Services, UCLA Neuropsychiatric Institute and Hospital, Los Angeles, CA

1998-1999 Associate Director, Consultation & Evaluation Services, UCLA Neuropsychiatric Institute and Hospital, Los Angeles, CA

1997-1999 Consulting Psychiatrist, UCLA Congenital Heart Disorders Clinic, UCLA Medical Center, Los Angeles, CA

1996-1999 Consulting Psychiatrist, UCLA Seizure and Telemetry Service, UCLA Medical Center, Los Angeles, CA

- 1995-1999 Attending Physician, Adult Inpatient Service, UCLA Neuropsychiatric Institute and Hospital, Los Angeles, CA
- 1999-2006 Assistant Professor, Clinical Track, Department of Psychiatry and Behavioral Sciences, Emory University School of Medicine, Atlanta, Georgia
- 2006-2010 Assistant Professor, Tenure Track, Department of Psychiatry and Behavioral Sciences, Emory University School of Medicine, Atlanta, Georgia
- 2000-2011 Guest Researcher, Centers for Disease Control and Prevention, Atlanta, Georgia
- 1999-2002 Director, Consultation-Liaison Services, Grady Memorial Hospital System, Emory University School of Medicine, Atlanta, Georgia
- 2004-2011 Director, Behavioral Immunology Clinic, Department of Psychiatry and Behavioral Sciences, Emory University School of Medicine, Atlanta, Georgia
- 2006-2011 Co-Director, Collaborative for Contemplative Studies, Emory University, Atlanta GA
- 2007-2011 Clinical Director, Emory Mind Body Program, Department of Psychiatry and Behavioral Sciences, Emory University School of Medicine, Atlanta, Georgia
- 2010-2011 Associate Professor with tenure, Department of Psychiatry and Behavioral Sciences, Emory University School of Medicine, Atlanta, Georgia

HONORS AND AWARDS:

- 2016 Xiaohong Wang Memorial Lecture, Department of Psychiatry, Emory University
- 2015 Named one of five university-wide “Faculty of Excellence” highlighted for the launch of the “All Ways Forward” Capital Campaign, University of Wisconsin-Madison
- 2015 James L. Stinnett Honorary Lecture, Department of Psychiatry, University of Pennsylvania
- 2014 Raymond Pearl Award for “contributions to our understanding of evolutionary biocultural origins of mental health and illness,” Human Biology Association

- 2014 Principal Guest Scientist, 31st Midwest Symposium on Family Systems Theory and Therapy
- 2014 Invited to give Bench-to-Bedside Keynote Address at the International Behavioral Neuroscience Society (IBNS) meeting
- 2013 NARSAD Independent Investigator Award (Brain & Behavior Research Society)
- 2012 Chairman of the U.S. Psychiatric and Mental Health Congress
- 2011 Champion of Hope Award from the Africa's Children's Fund
- 2011 Distinguished Visiting Professorship, Brooke Army Medical Center, San Antonio, TX
- 2011 Chairman of the U.S. Psychiatric and Mental Health Congress
- 2008 Semi-finalist presidential search for Naropa University, Boulder, CO
- 2006 Emory College Seed Fund Award to Improve the Research Profile of the Arts and Sciences
- 2005 Emory College Seed Fund Award to Improve the Research Profile of the Arts and Sciences
- 2005 Emory University Teaching Fund Award to develop interdisciplinary course entitled *Phenomenology of Depression: Body, Mind and Culture*.
- 2003 Emory University Medical Students' Teaching Award for Psychiatry
- 2002 National Institutes of Health Extramural Loan Repayment Program Award
- 2001 Bristol Meyers Squibb Young Faculty Development Award
- 2001 Emory University Psychiatry Senior Residents' Outstanding Educator Award
- 2000 Emory University Teaching Fund Award for the development of an interdisciplinary course entitled *Psychobiological Foundations of Personhood: Tibetan Buddhist and Western Perspectives*
- 1993 American Psychoanalytic Association Fellow
- 1991 Alpha Omega Alpha, Washington University Chapter
- 1991 Missouri State Medical Association Award

GRANT SUPPORT (direct costs):

Active Support:

i. Federally and State funded:

R01AT004698 Role: Principal Investigator May 2009 – March 2015
“Mechanisms of Meditation”
National Center for Complementary and Alternative Medicine
Total Direct Costs: \$1,250,000

R01AT004698 Role: Principal Investigator August 2012 – March 2015
“The Sounds of Compassion: Testing How Specific Elements of Meditation Change Daily Life”
National Center for Complementary and Alternative Medicine (NCCAM)
Total Direct Costs: \$500,000

ii. Private and University funded:

NARSAD Independent Investigator Award 2013-2015
Study to expand the study of Whole Body Hyperthermia (WBH) treatment of Major Depression
Brain & Behavior Research Foundation
Total Direct Costs: \$100,000

Private Donor Support - Barry and Janet Lang for work at the Norton School
University of Arizona August 2011-2015
Total Support: \$450,000

Private donor support - Tim and Fran Orrok May 2013 to present
Support for the implementation of Cognitively-Based Compassion Training (CBCT) in adolescents
in foster care in metropolitan Tucson
Total Support: \$30,000

Previous Support (direct costs):

Federal Funding:

1R01AT007297 Role: Principal Investigator 2011-2013
“Inflammation, Stress, and Social Behavior: Using Ecological Assessments and Model Systems.”
National Center for Complementary and Alternative Medicine (NCCAM)
Total Direct Costs: \$990,000

3R01AT004698-01A1S1 Role: Principal Investigator September 2009-September 2011
“Mechanisms of Meditation”
National Center for Complementary and Alternative Medicine (NCCAM).
Total Direct Costs: \$474,482

NIMH R01 #MH70553 Role: Principal Investigator January 2005-December 2009

“Cytokine-CRH Interactions in IFN-alfa-induced Depression”

Total Direct Costs: \$800,000

September 2009 to September 2011.

1RC1AT005728 Role: Principal Investigator for Emory Sub-Award

“Imaging Cerebral and Sub-cerebral Correlates of Meditative States”

Total Direct Costs: \$499,636

R21MH077172 Role: Principal Investigator

January 2008 – December 2009

“Neurobiological and Behavioral Effects of Cytokine Antagonism in Major Depression,”

Total Direct Costs: \$625,000

NIH R01 #MH075102 Role: Co-Investigator

April 2006 - March 2011

“Neuroimmune Mechanisms of Glucocorticoid Resistance”

Total Direct Costs: \$750,000

NIH R01 #HL073921 Role: Co-Investigator

March 2004-March 2009

“Pathophysiology of IFN-alfa-induced Sleep Disturbances”

Total Direct Costs: \$600,000

NIMH K23 #MH064619 Role: Principal Investigator

January 2002 - December 2006

“Glucocorticoid Resistance in Immune-based Depression

Total Direct Costs: \$420,000

Other Funding:

(IMHR) Grant Award 2013-CLR-06

August 2013

“Antidepressant Effects of Whole Body Hyperthermia”

Institute for Mental Health Research

Total Support: \$20,000

2012-2014

The Depressive and Bipolar Disorder Alternative Treatment Foundation Research Grant

To study Whole Body Hyperthermia for the Treatment of Major Depression

Total Support: \$50,000

Braun Foundation

2014

Support to study Whole Body Hyperthermia research

Total Support: \$40,000

ARRA Grant Role: Principal Investigator

April 2010 – June 2011

“A Study of Cognitively-Based Compassion Training (CBCT) to Enhance Health and Well-Being in Adolescents in Foster Care in Metropolitan Atlanta.”

American Recovery and Reinvestment Act Funding, Georgia Department of Human Services

Total Support: \$550,000

Private donor support – Joni Winston

Support the development of compassion meditation in adolescents and children and to aid in funding of the Compassion and Attention Longitudinal Meditation Study
Total Support: \$100,000

January 2009 – December 2010

Emory University Religion Health Collaborative Grant Role: Principal Investigator
Support for the development and testing of an instrument for more accurately assessing numerous aspects of meditation practice
Total Support: \$15,000

October 2006-Sept 2011

Emory University Contemplative Studies Initiative Role: Co-Director
Contemplative Practices and Optimal Health within the Contemplative Studies Initiative
Total Direct Costs: \$750,000

August 2000-Sept 2007

Centers for Disease Control and Prevention Role: Co-Principal Investigator
“Interferon Alpha as a Model System to Study Chronic Fatigue Syndrome”
Total Direct Costs: \$700,000

Sept 2005 to July 2007

Emory College Seed Funding Award Role: Principal Investigator
“Compassion Meditation as a Strategy to Protect Against Depressive Symptoms in Freshman College Students

Emory Medical Care Foundation Role: Principal Investigator
“Body Temperature in Patients Receiving Interferon-alpha”
Total Support: \$25,000

Balm Foundation Award Role: Principal Investigator 1998-1999
“Physiological Mechanisms of Advanced Tibetan Buddhist Meditation”
Total Support: \$25,000

BIBLIOGRAPHY:

Scientific Articles Published in Peer-Reviewed Journals:

1. Raison CL, Guze BH, Kissell RL. Successful treatment of clozapine-induced agranulocytosis with granulocyte colony-stimulating factor (letter). *Journal of Clinical Psychopharmacology* 1994; 14:285-86.
2. Raison CL, Klein HM. Psychotic mania associated with fenfluramine and phentermine use (letter). *American Journal of Psychiatry* 1997; 154: 711.
3. Raison C.L., Klein H.M., Steckler M.. The Moon and Madness reconsidered. 1998. *Journal of Affective Disorders* 53; 1: 99-106.
4. Raison, C.L., Miller, A.H. The Neuroimmunology of Stress and Depression. *Seminars in Clinical Neuropsychiatry*. 2001. 6; 4: 277-294.

5. Raison, C.L., Marcin, M., Miller, A.H. Antidepressant treatment of cytokine-induced depression. *Acta Neuropsychiatrica*. 2002; 4.
6. Capuron, L., Raison, C.L., Lawson, D.H., Musselman, D.L., Su, C., Nemeroff, C.B., Miller, A.H. An exaggerated HPA axis response to initial injection of interferon-alpha is associated with depression during interferon-alpha therapy. *American Journal of Psychiatry* 2003; 160(7): 1342-1345.
7. Raison, C.L. & Miller, A.H. When Not Enough Is Too Much: The Role of Insufficient Glucocorticoid Signaling in the Pathophysiology of Stress-Related Disorders. *American Journal of Psychiatry*. 2003;160: 1554-1565.
8. Raison, C.L. & Miller, A.H. Depression in Cancer: New Developments Regarding Diagnosis and Treatment. *Biological Psychiatry*, 2003; 54: 283-294.
9. Asnis, G.M., De La Garza II, R, Miller, A.H., Raison, C.L., Ribavirin May Be an Important Factor in IFN-Induced Neuropsychiatric Effects. *Journal of Clinical Psychiatry* 2004; 65(4): 581.
10. Raison, C.L., Broadwell, S.D., Borisov, A.S., Manatunga, A.K., Woolwine, B.J., Jacobson, I.M., Nemeroff, C.B., Miller, A.H. Depressive symptoms and viral clearance in patients receiving IFN-alpha and Ribavirin for Hepatitis C. *Brain, Behavior and Immunity* 2005; 19: 23-27.
11. Raison, C.L., , Borisov, Broadwell, S.D., A.S., Manatunga, A.K., Woolwine, B.J., Jacobson, I.M., Nemeroff, C.B., Miller, A.H. Depression during pegylated IFN-alpha plus ribavirin therapy: prevalence and prediction. *Journal of Clinical Psychiatry* 2005;66;1:41-48.
12. Raison, C.L., Demetrashvili, M., Capuron, L., Miller, A.H. Neuropsychiatric Side Effects of Interferon-alpha: Recognition and Management. *CNS Drugs*, 2005; 19(2): 1-19.
13. Raison, C.L., Demetrashvili, M., Capuron L., Miller A.H. The authors' reply. *CNS Drugs* 2005. 19(8):721-2.
14. Miller, A.H., Capuron, L., Raison, C.L. Immunologic influences on emotion regulation. *Clinical Neuroscience Research* 2005; 4(5-6): 235-333.
15. Yoshida, K., Alagbe, O., Wan, X., Woolwine, B., Thornbury, M., Raison, C.L., Miller, A.H. Promotor polymorphisms of the interferon-alpha receptor gene and development of interferon-induced depressive symptoms in patients with chronic hepatitis C. *Neuropsychobiology* 2005; 52(2):55-61.
16. Raison, C.L., Capuron L., Miller A.H. Depressive symptoms and viral clearance: In response. *Brain, Behavior, and Immunity* 2005; 19(4):273-4.
17. Raison, C.L., Capuron, L., Miller, A.H. Cytokines sing the blues: inflammation and the pathogenesis of depression. *Trends in Immunology* 2006. 27(1): 24-31.
18. Silverman, M.N., Macdougall, M.G., Raison, C.L., Miller, A.H. Endogenous glucocorticoids protect against TNF-alpha-induced increases in anxiety-like behavior in virally-infected mice. *Molecular Psychiatry* 2007; 12(4): 408-17.
19. Raison, C.L., Woolwine, B.J., Binongo, J., Demitrashvili, M.F., Borisov, A.F., Weinreib, R.,

- Staab, J.P., Zajecka, J.M., Bruno, C.J., Henderson, M.A., Reinus, J.F., Evans, D.L., Asnis, G.M., Miller, A.H. Paroxetine for Prevention of Depressive Symptoms Induced by Interferon-alpha plus Ribavirin for Hepatitis C. *Alimentary Pharmacology & Therapeutics* 2007; 25(10): 1163-74.
20. Majer, M., Welberg, L.A., Capuron, L., Pagnoni, G., Raison, C.L., Miller, A.H. IFN-alpha-induced motor slowing is associated with increased depression and fatigue in patients with chronic hepatitis C. *Brain Behavior and Immunity* 2008; 22(6): 870-80.
 21. Evans, D., Buxton, D.C., Borisov, A.S., Manatunga, A.K., Ngodup, D., Raison, C.L. (corresponding author). Shattered Shangri-la: differences in depressive and anxiety symptoms in students born in Tibet compared to Tibetan students born in exile. *Social Psychiatry and Psychiatric Epidemiology* 2008; 43(6): 429-36.
 22. Raison, C.L., Woolwine, B.J., Borisov, A.S., Cowles, Alagbe, O., M., Vogt, G., Miller, A.H. Effects of Interferon-alpha on diurnal hypothalamic-pituitary-adrenal axis activity and behavior in patients with hepatitis C. *Molecular Psychiatry* 2010; 15: 535-547.
 23. Raison, C.L., Borisov, A.S., Woolwine, B.J., Vogt, G.J., Massung, B. Miller, A.H. Activation of CNS inflammatory pathways by interferon-alpha: relationship to monoamines and depression. *Biological Psychiatry* 2009; 65(4):296-303.
 24. Pace, T.W.W., Negi, L.T., Adame, D, Cole, S.P., Sivilli, T.S., Brown, T., Issa, M., Raison, C.L. Effect of compassion meditation on neuroendocrine, innate immune and behavioral responses to psychosocial stress. *Psychoneuroendocrinology* 2009; 34(1):87-98.
 25. Raison, C.L. Lin, J.S., Reeves, W.C. Association of peripheral inflammatory markers with chronic fatigue in a population-based sample. *Brain, Behavior and Immunity* 2009; 23(3):327-37.
 26. Nater, U.M., Lin, J.M., Maloney, E.H., Jones, J.F., Tian, H., Boneva, R.S., Raison, C.L., Reeves, W.C. Psychiatric Comorbidity in Persons with Chronic Fatigue Syndrome Identified from the Georgia Population. *Psychosomatic Medicine* 2009, Epub.
 27. Miller, A.H., Maletic, V., Raison, C.L. Inflammation and its discontents: the role of cytokines in the pathophysiology of major depression. *Biological Psychiatry* 2009; 65(9):732-41.
 28. Maletic, V. & Raison, C.L. At the Crossroads of Mind and Body: Focus on the Neurobiology of Depression, Fibromyalgia and Neuropathic Pain. *Frontiers in Bioscience* 2009. 14: 5291-5338.
 29. Pace, T.W.W., Negi, L.T., Sivilli, T.S., Issa, M.J., Cole, S.P., Adame, D.D., Raison, C.L. Innate Immune, Neuroendocrine and Behavioral Responses to Psychosocial Stress do not predict Subsequent Compassion Meditation Practice Time. *Psychoneuroendocrinology* 2010; 35: 310-15.
 30. Raison, C.L., Dantzer, R. Kelley, K.W., Lawson, M.A., Woolwine, B.J., Vogt, G., Spivey, J.R., Saito, K., Miller, A.H. CSF Concentrations of Brain Tryptophan and Kynurenines during Immune Stimulation with IFN-alpha: Relationship to CNS Immune Responses and Depression. *Molecular Psychiatry* 2010;15: 393-403.
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- Owen-Smith, A., Raison, C.L., Master, V.A/ (2010) Major depression drives severity of American Urological Association Symptom Score. *Urology* 2010. 76(6):1317-1320.
32. Nater, U.M., Lin, J.M., Maloney, E.H., Jones, J.F., Tian, H., Boneva, R.S., Raison, C.L., Reeves, W.C. Criteria for chronic fatigue syndrome and co-morbid psychiatric conditions—Response to Kindlon. *Psychosomatic Medicine* 2009. 71(5):557-65.
 33. Johnson, T.V., Abbasi, A., Ehrlich, S.S., Kleris, S.S., Chirumamilla, S.L., Schoenberg, E.D., Owen-Smith, A., Raison, C.L., Master, V.A. Nocturia associated with depressive symptoms. *Urology* 2011. 77(1):183-6.
 34. Raison, C.L., Rye, D.B., Woolwine, B.J., Vogt, G., Bautista, B.M., Spivey, J., Miller, A.H. Chronic Interferon-Alpha Administration Disrupts Sleep Continuity and Depth in Patients with Hepatitis C: Association with Fatigue, Motor Slowing and Increased Evening Cortisol. *Biological Psychiatry* 2010;68(10): 942-9.
 35. Johnson, T.V., Abbasi, A., Ehrlich, S.S., Kleris, R.S., Chirumamilla, S.L., Schoenberg, E.D., Owen-Smith, A., Raison, C.L., Master, V.A. Major depression drives severity of American urological association symptom index. *Urology* 2010;76(6): 1317-20.
 36. Raison, C.L., Lowry, C.A., Rook, G.A.W. Inflammation, Sanitation and Consternation: Loss of Contact with Co-Evolved, Tolerogenic Micro-Organisms and the Pathophysiology and Treatment of Major Depression, *Archives of General Psychiatry* 2010 67(12):1211-24.
 37. Rook, G.A.W., Lowry, C.A., Raison, C.L. Lymphocytes in Neuroprotection, Cognition and Emotion: is Intolerance Really the Answer? *Brain, Behavior and Immunity* 2011; 25(4): 591-601.
 38. Jain, R., Jain, S., Raison, C.L., Maletic, V. Painful Diabetic Neuropathy is more than Pain Alone: Examining the Role of Anxiety and Depression as Mediators and Complicators. *Current Diabetes Reports* 2011; 11(4): 275-84.
 39. Felger, J.C., Alagbe, T., Pace, T.W.W., Woolwine, B.J., Raison, C.L., and Miller AH. Early activation of p38 mitogen activated protein kinase is associated with interferon-alpha-induced depression. *Brain, Behavior and Immunity* 2011; 25(6): 1094-8.
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 41. Raison, C.L. & Miller, A.H. Is Depression an Inflammatory Disorder? *Current Psychiatry Reports* 2011; 13(6): 467-75.
 42. Felger, J.C., Cole, S.W., Pace, T.W.W., Hu, F., Woolwine, B.J., Doho, G.H., Raison, C.L., Miller, A.H. Molecular Signatures of Peripheral Blood Mononuclear Cells during Chronic Interferon-alpha Treatment: Relationship with Depression and Fatigue. *Psychological Medicine* 2012; 42: 1591-603.
 43. Raison, C.L. & Miller, A.H. The Evolutionary Significance of Depression in Pathogen Host Defense (PATHOS-D). *Molecular Psychiatry* 2013; 18::15-37.

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45. Rook, G.A.W., Raison, C.L., Lowry, C.A. Can we vaccinate against depression. *Drug Discovery Today* 2012; 17: 451-8.
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48. Pace, T.W., Negi, L.T., Dodson-Lavelle, B., Ozawa-de Silva, B. Reddy, S.D., Cole, S.P., Danes, A., Craighead, L.W., Raison, C.L. Engagement with Cognitively-Based Compassion Training is associated with reduced salivary C-reactive protein from before to after training in foster care program adolescents. *Psychoneuroendocrinology* 2012; 38: 294-9.
49. Raison, C.L., Haroon, E., Woolwine, B.J., Shuo, C., Haber, M. Rutherford, R., Miller, A.H. A randomized controlled trial of the tumor necrosis factor antagonist **infliximab** for treatment-resistant depression: the role of baseline inflammatory biomarkers. *Archives of General Psychiatry* 2012; 70: 31-41.
50. Mascaró, J.S., Rilling, J.K., Negi, L.T., Raison, C.L. Compassion meditation enhances empathic accuracy and related neural activity. *Social Cognitive and Affective Neuroscience* 2012; 8: 48-55.
51. Desbordes, G., Negi, L.T., Pace, T.W., Wallace, B.A., Raison, C.L., Schwartz, E.L. Effects of mindful-attention and compassion meditation training on amygdala response to emotional stimuli in an ordinary, non-meditative state. *Frontiers in Neuroscience* 2012; 6: 292.
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53. Felger, J.C., Li, L., Marvar, P.J., Woolwine, B.J., Harrison, D.G., Raison, C.L., and Miller, A.H. Tyrosine Metabolism During Interferon-alpha Administration: Association with Fatigue and CSF Dopamine Concentrations. *Brain, Behavior, and Immunity* 2012; 31:153-60.
54. Mascaró, J.S., Rilling, J.K., Negi, L.T., Raison, C.L. Pre-existing brain function predicts subsequent practice of mindfulness and compassion meditation. *Neuroimage* 2013; 69:35-42.
55. Berg, J.M., Lilienfeld, S.O., Reddy, D., Latzman, R.D., Roosem A., Craighead, L.W., Pace,

- T.W., Raison, C.L. The Inventory of Callous and Unemotional Traits: A Construct-Validation Analysis in an At-Risk Sample. *Assessment* 2013; 20: 532-44.
56. Miller, A.H., Haroon, E., Raison, C.L., Felger, J.C. Cytokine Targets in the Brain: Impact on Neurotransmitters and Neurocircuits. *Depression & Anxiety* 2013; 30::297-306.
57. Rook, G.A.W., Lowry, C.A., Raison, C.L. Microbial “Old Friends,” immunoregulation and stress resilience. *Evolution, Medicine and Public Health* 2013; 13: 46-64.
58. Hanusch, K., Janssen, C.H., Billheimer, D, Jenkins, I., Spurgeon, E., Lowry, C.A., Raison, C.L. Whole Body Hyperthermia (WBH) for the Treatment of Major Depression: Associations with Thermoregulatory Cooling. *American Journal of Psychiatry* 2013; 170: 802-4.
59. Mehta, D., Raison, C.L., Woolwine, B.J., Haroon, E., Binder, E.B., Miller, A.H., Felger, J.C. Transcriptional signatures related to glucose and lipid metabolism predict treatment response to the tumor necrosis factor antagonist infliximab in patients with treatment-resistant depression. *Brain, Behavior and Immunity* 2012; 31:205-15.
60. Rook, G.A., Raison, C.L., Lowry, C.A. Childhood microbial experience, immunoregulation, inflammation and adult susceptibility to psychosocial stressors and depression in rich and poor countries. *Evolutionary Medicine and Public Health* 2013; 12: 14-17.
61. Rook, G.A.W., Raison, C.L., Lowry, C.A. Microbial “Old Friends,” immunoregulation and socio-economic status. *Clinical and Experimental Immunology* 2014; 177: 1-12.
62. Whisman, M.A., Li, A., Sbarra, D.A., Raison, C.L. Marital quality and diabetes: results from the health and retirement study. *Health Psychology* 2014; 33: 832-40.
63. Rook, G.A., Raison, C.L., Lowry, C.A. Microbiota, immunoregulatory old friends and psychiatric disorders. *Advances in Experimental Medical Biology* 2014; 817: 319-56.
64. Raison C.L. Inflammatory depression: a trifecta of trouble. *Journal of Clinical Psychiatry* 2014; 75: 663-4.
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Nervous System (Psychiatry). In: Zigmond, M.J., Coyle, J.T., Rowland, L.P. (Eds.) **Neurobiology of Brain Disorders**. Elsevier, 2013.

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26. Rook, G.A.W., Lowry, C.A., Raison, C.L. Microbiota and the hygiene hypothesis of psychiatric disorders. In: Cryan, J., Lyte, M. (Eds.) **The Microbiota-Gut-Brain Axis in Health and Disease**, Springer, 2013.
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Commentaries/Editorials:

1. Miller, A.H., Raison, C.L. Cytokines, p38 MAP Kinase and the Pathophysiology of Depression. *Neuropsychopharmacology* 2006. 31: 2089-2090.
2. Raison, C.L. Buddhists Meet Mind Scientists in Conference on Meditation and Depression. *Psychiatric Times*, 25(3), May 2008.
3. Raison, C.L. An Evolutionary View on the Anti-Inflammatory Potential of Compassion. *Annals of the New York Academy of Sciences* Winter 2009.

4. Raison, C.L., Maletic, V., Jain, R., Draud, J. From Chaos to Consilience Parts I-III. *Psychiatric Times*, May-August 2009.
5. Rook, G.A.W., Raison, C.L., Lowry, C.A. Childhood microbial experience, immunoregulation, inflammation and adult susceptibility to psychosocial stressors and depression in rich and poor countries. *Evolution, Medicine, and Public Health* 2012; Epub.
6. Raison, C.L. & Miller A.H. Malaise, melancholia and madness: The evolutionary legacy of an inflammatory bias. *Brain, Behavior and Immunity* 2013; Epub.
7. Raison, C.L. Cingulate and insula: the pain in the brain is not all the same. *Biological Psychiatry* 2014; Epub.

Forthcoming Books:

1. Maletic, V. & Raison, C.L. *The New Mind-Body Science of Depression*. New York: W.W. Norton, to be published September 2015.

INVITED RESEARCH PRESENTATIONS

Ancient Therapeutics and Sensory Pathways as Deep Brain Stimulators: Implications for the Treatment of Major Depression. Keynote Address, 48th Annual Scientific Meeting of the Association for Applied Psychophysiology and Biofeedback, Chicago, IL, March 16, 2017

The New Mind-Body Science of Mood Disorders: Implications of the Immune-Neural Interface. Keynote Address, 54th Annual Meeting of the American College of Psychiatrists, Scottsdale, AZ, February 23, 2017

The Immune System's Potential in the Treatment of Depression. Department of Psychiatry Grand Rounds. Western Michigan University Homer Stryker M.D. School of Medicine, June 14, 2016

Whole Body Hyperthermia (WBH) as a Novel Treatment for Major Depressive Disorder. Body to brain: illuminating the role of interoception in psychiatry seminar. Society of Biological Psychiatry 71st Annual Meeting, Atlanta, GA, May 12, 2016

Ancient Therapeutics and Sensory Pathways as Deep Brain Stimulators: Implications for the Treatment of Major Depression. Arizona Psychiatric Society Annual Spring Meeting, Phoenix, AZ, April 30, 2016

Mindful Compassion as a Path to Lifelong Emotional Health and Well-Being. Keynote Address, Mindful Health Challenge, Beloit College, Beloit, IL, March 28, 2016

In Search of New Treatments in the Body of Depression. Xiaohong Wang Memorial Lecture, Department of Psychiatry, Emory University, Atlanta, GA, February 10, 2016

Ancient Therapeutics and Sensory Pathways as Deep Brain Stimulators: Implications for the Treatment of Major Depression. Southern California Psychiatric Society's (SCPS) 27th Annual Psychopharmacology Update, Los Angeles, CA, January 30, 2016

Anti-Inflammatory Agents as Antidepressants: Truth or Dare. Presidential Symposium, 168th Annual Meeting, American Psychiatric Association, Toronto, Ontario, Canada, 2015

Explorations into the Body of Consciousness. International Forum on Consciousness. Biopharmaceutical Technology Center Institute, Madison WI, 2015

Coming to Our Senses: Implications of Embodiment for the Pathogenesis and Treatment of Major Depression. James L. Stinnett Memorial Lecture, Department of Psychiatry, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA, 2015

Coming to Our Senses: Implications of Embodiment for the Pathogenesis and Treatment of Major Depression. Social, Personality & Health Preconference, Society for Personality and Social Psychology Annual Meeting, Long Beach, CA 2015

Coming to Our Senses: Implications of Embodiment for the Pathogenesis and Treatment of Major Depression. BRI Adolescence Affinity Group & Cousins Center for Psychoneuroimmunology, Semel Institute, University of California Los Angeles (UCLA), Los Angeles, CA

Compassion Training as a Path to Health and Well-Being: Brain and Body. Inaugural keynote address for the Institute of the Study of Religion and Culture, College of Humanities, University of Arizona, Tucson, AZ, 2015.

Health, Well-Being and Compassion: Update on studies of the brain, body and social effects of Cognitively-Based Compassion Training (CBCT). Science of Compassion 2014 Conference, the Center for Compassion and Altruism Research and Education (CCARE), San Francisco, CA, 2014.

Brain, Body and Social Effects of Cognitively-Based Compassion Training (CBCT). Compassion & Healthcare Conference, the Center for Compassion and Altruism Research and Education (CCARE), San Francisco, CA, 2014.

Coming to Our Senses: Implications of Embodiment for the Pathogenesis and Treatment of Major Depression. Basic Medical Sciences Seminar Series, University of Arizona College of Medicine Phoenix, 2014.

Fractal Compassion: Bugs, Immunity, and the Ancient Mind, Principal Guest Scientist Keynote Address at the Center for Family Consultation's 31th Midwest Symposium on Family Systems Theory and Therapy, Wilmette, IL, 2014.

Coming to Our Senses: Implications of Embodiment for the Pathogenesis and Treatment of Major Depression, 2014 Raymond Pearl Memorial Award Lecture, Human Biology Association Annual Meeting, Calgary, Alberta, 2014.

The Preventive Health Promise of Compassion Training: Focus on Brain—Immune System Interactions Essential for Health and Well-Being, keynote presentation for the Conference for Contemplative Practices to Promote Child and Family Well-Being, School of Human Ecology, University of Wisconsin, Madison, WI, 2013.

Compassion Meditation as a Path to Mental Well-Being, invited talk, Oregon Psychiatric Association Fall Meeting, Ashland, OR, 2013.

Western Scientific Perspectives on Brain, Mind and Body, Invited presentation for Men Tsee Khang Tibetan Medical & Astrological Institute inaugural Body, Mind & Life Conference, Dharamsala, India, 2013.

Biological and Behavioral Effects of Compassion Training Relevant to Physical Health and Emotional Well-Being, The Center for Excellence in Family Studies (CEFS) first annual seminar series, "Families and Well-Being," School of Human Ecology, University of Wisconsin, Madison, WI, 2013.

Coming to Our Senses: Harnessing the Mind-Body Connection to Enhance Behavioral and Pharmacological Interventions for Major Depression, Research Seminar Presentation, University of Arizona College of Nursing, 2013.

Behavioral and Physiological Effects of Compassion Training Relevant to Cancer, Cancer Prevention and Control (CPC) Seminar, Arizona Cancer Center, University of Arizona College of Medicine, Tucson, AZ, 2012.

Coming to Our Senses: Harnessing the Mind-Body Connection to Enhance Behavioral and Pharmacological Interventions for Major Depression Seminar Series in Neuroscience, University of Colorado Boulder, Boulder, CO, 2012

Depression and Inflammation. International Conference on Diabetes and Depression, sponsored by the National Institute of Diabetes, Digestive and Kidney Diseases, National Institute of Mental Health and Department of Health and Human Services, Dulles Corner, VA, 2012.

Harnessing the Mind-Body Connection for Treatment of Depression: Behavioral & Pharmacologic Interventions at the Immune-Stress Interface, Greenfield Memorial Lecture, Department of Psychiatry, University of Wisconsin, Madison, WI, 2012.

Compassion Training as a Pathway to Stress Resilience: Effects along the Mind-Body Continuum. Promoting Stress Resistance and Stress Resilience Oral Symposium at PsychoNeuroImmunology Research Society's 19th Annual Scientific Meeting, San Diego, CA, 2012.

The role of tryptophan Catabolites in the Pathogenesis of Depression: Lessons from Interferon-alpha. Mental Health and the Immune System Symposium at 28th CINP World Congress of Neuropsychopharmacology, Stockholm, Sweden, 2012.

Coming to Our Senses: Harnessing the Mind-Body Connection to Enhance Behavioral & Pharmacologic Interventions for Depression. Keynote Address for Translational Medicine in Arizona: Networks, Partnerships and Initiatives Meeting, Flagstaff AZ, 2012.

And You Think Your Family Bugs You: The Role of Pathogen Host Defense in Human Emotions and Social Relations. 2012 Heartland Conference: Depression, Inflammation & Emotional Reactivity through a Systems Perspective, 2012.

Harnessing the Mind-Body Connection for Treatment of Depression: Behavioral & Pharmacologic Interventions at the Immune-Stress Interface, Dartmouth University Department of Psychiatry Grand Rounds, Hanover, NH, 2011.

Compassion Training as a Path to Emotional and Physical Well-Being. Keynote Address for 2011 Annual Meeting, Licensed Psychological Counselors Association of North Carolina, 2011.

Cytokines Sing the Blues: Inflammatory Implications for the Phenomenology, Pathophysiology and Treatment of Major Depression. Mood Disorders Program, Department of Psychiatry, Case Western University School of Medicine, Cleveland OH, 2011.

Inflammatory Processes in the Evolution of Depression. Clinical Cardiovascular Research Conference. Emory Program in Cardiovascular Outcomes Research and Epidemiology (EPICORE), Emory University School of Medicine, Atlanta, GA, 2011.

Inflammation, Sanitation and Consternation: Loss of Contact with Co-Evolved, Tolerogenic Micro-organisms and the Pathophysiology and Treatment of Major Depression. Spring Conference: Scientific Foundations of the Unidisease Concept, Bowen Center for the Study of the Family, Washington, DC, 2011.

A Clinician's Guide to the Future Treatment of Mood Disorders: an Inflammatory Perspective. Keynote Address for the Annual Dewitt C. Alfred, Jr., Psychiatric Research Colloquium, Department of Psychiatry and Behavioral Sciences, Morehouse School of Medicine, Atlanta, GA, 2011.

PATHOS-D and the Evolution, Risk Factors, Symptoms and Treatment of Depression, Parts I-III. Mental Health at the Far Frontier: Practicing Tomorrow's Psychiatry Today, 18th Annual CME Conference of the Alaska Psychiatric Association, Girdwood, Alaska, 2011.

Compassion Meditation and the Foundations of Well-Being. Keynote Address. 42nd Annual Meeting of the American Association of Psychophysiology and Biofeedback, New Orleans, LA, 2011.

Report from the Frontlines: an update on health relevant effects of compassion meditation. Presentation to His Holiness the Dalai Lama for Compassion Meditation: Mapping Current Research and Charting Future Directions Symposium, Emory University, Atlanta, GA, 2010.

Inflammation, Meditation and Consternation: Compassion Training as a Preventive Health Strategy for High Risk Populations. Dean's Choice College-wide Seminar, Mel and Enid Zuckerman College of Public Health, University of Arizona, Tucson, AZ, 2010.

Inflammation, Sanitation and Consternation: Loss of Contact with Co-Evolved, Tolerogenic Micro-Organisms and the Pathophysiology and Treatment of Major Depression. Department of Integrative Physiology Colloquium, University of Colorado, Boulder, 2010.

Evolution, Depression and the Search for Fractal Interdependency Parts I and II, Alaska Psychiatric Association Annual Continuing Medical Education Conference, Alyeska, Alaska, 2010.

The Whole Picture of Health - Mind over Matter and Vice Versa, concluding lecture for the 5th Annual National Predictive Health Symposium, Emory University, Atlanta, GA, 2009.

Cytokines Sing the Blues: Inflammatory Implications for the Phenomenology, Pathophysiology and Treatment of Mood Disorders, invited lecturer for Department of Psychology Colloquium, University of Arizona, Tucson, AZ.

Meditation, Inflammation and Consternation: Applying Buddhist Wisdom to the Search for Health and Well-Being. Invited lecture for the Louise W. and Edmund J. Kahn Liberal Arts Institute, Smith College, Northampton, MA. I was one of 5 invited guests of the Kahn Institute 2009-2010 program “Health and Wellness.”

Compassion-Based Therapies for Mental Disorders. Invited lecture for International Conference on Buddhism and Mind Science, Mahidol University, Bangkok, Thailand—conference was attended by Princess of Thailand.

Cytokines Sing the Blues: Inflammatory Implications for the Phenomenology, Pathophysiology and Treatment of Mood Disorders, invited lecture for the Foundations of Human Social Behavior Seminar, Center for the Study of Social and Neural Systems, University of Zürich, Zürich, Switzerland, 2008.

Mechanisms of Action, Active Ingredients, Dose Response Relationships and Other Challenges Facing Meditation Research, invited lecture for Integrating Clinical and Neuroscience Perspectives on Mindfulness Training In Health and Disease, a 2-day Forum for key thought leaders in the field of mindfulness research, University of Toronto, Toronto, Canada.

Discussant for the Panel Pharmacologic Targets at the Brain-Immune Interface: Relevance to Major Depression (speakers: Andrew H. Miller, Richard Shelton, Ronald Duman, Robert Dantzer, Ranga Krishnan), 47th Annual Meeting of the American College of Neuropsychopharmacology, Scottsdale, AZ.

Behavioral and Neuroimmune Mechanisms by which Compassion Meditation may Enhance Health and Well-being for “Meditation & Brain: Applications to Psychosomatic Medicine” symposium at the 2008 Meeting of the Academy of Psychosomatic Medicine, Miami, FLA, 2008.

Biological mechanisms of the association between depression, other behavioral co-morbidities, and cancer, lecture for “Beyond Support Groups and Survival: New Directions in Biobehavioral Research,” plenary session for the Fourth Biennial Cancer Survivorship Research Conference, Atlanta, GA, 2008.

A Psychopharmacologist Confronts Contemplation: Insights and Challenges from the Study of Compassion Meditation. 6th Annual International Scientific Conference Integrating Mindfulness-Based Interventions into Medicine, Healthcare and the Larger Society sponsored by the Center for Mindfulness in Medicine, Health Care and Society, Division of Preventive and Behavioral Medicine, University of Massachusetts Medical School, Worcester MA, 2008.

Religion and Healing: Implications of Interpersonal and Interphylogenetic Relationships. Widening the Lens for Health and Healing – Intercultural and Religious Literacy, a Faculty Seminar in Three Parts, sponsored by the Religion and Health Collaborative, Emory University, Atlanta, GA, 2008.

Depression in Cancer: new insights into pathophysiology. Invited lecture For Mechanisms and Treatment of Cancer-Related Symptoms academic symposium hosted by the University of Texas MD Anderson Cancer Center, Houston, TX, 2008.

Warming the Heart While Keeping Your Cool: Compassion Meditation as a Novel Path to Lifelong Health and Wellbeing. Invited lecture for Maps and Mazes: Critical Inquiry at the Intersections of Religion and Health, an interdisciplinary conference hosted by the Religion Health Collaborative of Emory University, Atlanta, GA, 2007.

Compassion Training as a Path to Emotional and Physical Wellbeing. Presentation to His Holiness the Dalai Lama at Mind and Life XV: Mindfulness, Compassion, and the Treatment of Depression. Emory University, Atlanta, GA, 2007.

Cytokines Sing the Blues: Clinical, biological and ethical implications of the link between inflammation and emotional health. Grand Rounds. Department of Psychiatry, University of Virginia, Charlottesville, VA, 2007.

Cytokines Sing the Blues: Inflammation in the pathogenesis and treatment of depression. Grand Rounds. Department of Psychiatry, Virginia Commonwealth University, Richmond, VA, 2007.

Cytokines Sing the Blues: Clinical, Biological and Ethical Implications of the Link Between Inflammation and Optimal Emotional Health. Invited seminar, Norman Cousins Program in Psychoneuroimmunology, UCLA Neuropsychiatric Institute, Los Angeles, CA, 2007.

Shattered Shangri-la: differences in the prevalence of anxiety and depression in ethnic Tibetans born in Tibet versus in exile. WAR and HEALTH: A Symposium on Contemporary Issues, Emory University, Atlanta GA, 2007.

Immunology and the Psyche: Implications for the Pathogenesis and Treatment of Depression. Frontiers in Neuroscience Presentation, Emory Neuroscience Graduate Program. Emory University, Atlanta, GA, 2006.

Mind-Body Connections and the Search for Health Past, Present, & Future a lecture and discussion with Anne Harrington, Ph.D. History of Science Department, Harvard University and Nat C. Robertson Distinguished Professor in Science & Society, Emory University, Charles Raison, M.D., and Dr. Pema Dorjee, Chairman, Tibetan Medical Council, Atlanta, GA, 2006.

NATIONAL AND INTERNATIONAL SCIENTIFIC REVIEW PANELS:

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|--------------|--|
| 2013-present | Permanent member, “Biobehavioral Mechanisms of Emotion, Stress, and Health” (MESH), National Institutes of Health Center for Scientific Review |
| 2014 | Invited “second-stage” discussant for 2015/05 ZAT1 SM (34) P50 Botanical Centers, National Center for Complementary and Alternative Medicine |
| 2014 | Invited grant reviewer for the Foundation for Polish Science, <i>The MASTER Program</i> |

- 2014 Invited member, “ITVC Interventions Committee for Disorders Involving Children and Their Families,” National Institutes of Health Center for Scientific Review
- 2014 Invited member, “ZMH1 ERB-D 08 S, Translational Research for the Development of Novel Interventions,” National Institutes of Health Center for Scientific Review
- 2013 Invited member, 2014/01 ZMH1 ERB-S (03) R “Dimensional Approaches to Research Classification in Psychiatric Disorders (RDoC)” Review Panel, National Institutes of Health Center for Scientific Review
- 2013 Invited grant reviewer for The Netherlands Organisation for Health Research and Development (ZonMw)
- 2013 Invited grant reviewer for French National Research Agency
- 2012 Member, Varela Awards Selection Committee, Mind & Life Institute
- 2011 Invited Member, The Placebo Effect: Mechanisms and Methodology Review Panel, jointly sponsored by NIAAA, NIDA and NCCAM
- 2011 Invited grant reviewer, The Netherlands Organisation for Health Research and Development (ZonMw)
- 2011 Member, National Library of Medicine Scholarly Works (G13) Special Emphasis Panel (ZLM1 ZH-P)
- 2010 Invited grant reviewer for the Wellcome Trust, London UK
- 2010 Member, National Heart Lung and Blood Institute Special Emphasis Panel for Conference Grant (R13) Applications
- 2010 Member, National Center for Complementary and Alternative Medicine Special Emphasis Panel/Scientific Review Group 2010/05 ZAT1 PK (10) L
- 2009 Invited reviewer for NIH/CSR Challenge Grant Program
- 2009 Member, Mechanisms of Immune Modulation” review meeting held by the National Center for Complementary and Alternative Medicine (NCCAM / NIH)
- 2008 Member, the Chronic Fatigue and Immune Dysfunction Syndrome Association of America, RFA for discovery of biomarkers and methods for

early detection, objective diagnosis and effective treatment of CFS grant review panel

- 2007 Member, Small Grants for Behavioral Research in Cancer Control Council ZCA-1 SRLB-H 01 S. National Cancer Institute
- 2007 Ad hoc Reviewer for the John Templeton Foundation
- 2007 Ad hoc Reviewer, Behavioral and Social Consequences of HIV/AIDS Scientific Review Group
- 2006 Co-Chair, External Blue Ribbon Panel (EBRP) called to review the Chronic Fatigue Syndrome Research Program (CDC-CFSRP) within the Centers for Disease Control and Prevention, Atlanta, GA
- 2006 Member, Special Emphasis panel (ZMH1-ERB-S-07) for “HIV and Psychiatric Comorbidity Research Project” RFA-MH-07-020 and -21, National Institutes of Health
- 2006 Member, Special Emphasis RFA panel for “Neuroimmune Mechanisms and Chronic Fatigue Syndrome” RFA-OD-06-006, National Institutes of Health
- 2006 Ad hoc Reviewer for Health Review Board of Ireland
- 2005-present Ad hoc Reviewer for National Institute of Mental Health BSTART program
- 2005-present Ad hoc Reviewer for Department of Veteran Affairs Career Development Awards

EDITORIAL BOARDS

- 2014- Editorial Advisory Board, *Family Systems: A Journal of Natural Systems Thinking in Psychiatry and the Sciences*
- 2010- *Brain, Behavior and Immunity*

EDITORSHIPS

- 2013 Guest Editor, *Brain, Behavior and Immunity*, special edition: “Inflammation and Mental Health”

MANUSCRIPT REVIEWER (all active):

Nature Reviews Neuroscience, Proceedings of the National Academy of Science, Journal of Affective Disorders, Biological Psychiatry, Journal of Psychosomatic Research, International Clinical Psychopharmacology, Journal of Clinical Psychiatry, Psychosomatic Medicine, Journal of Hepatology, Neuropsychopharmacology, General Hospital Psychiatry, Psychological Medicine,

JAMA Psychiatry, Psychosomatics, American Journal of Psychiatry, Journal of Postgraduate Medicine, Journal of Psychiatric Research, Clinical Drug Investigation and Drugs in R&D, Neuroscience Letters, The American Journal of Gastroenterology, Neuropsychiatric Disease and Treatment, Psycho-Oncology, Brain, Behavior and Immunity, Psychoneuroendocrinology, Translational Psychiatry, Lancet Psychiatry, Biological Psychiatry

FORMAL TEACHING:

Medical Student Teaching:

- 1996-1999 Medical Student Course Instructor, MP 201 Psychopathology Course. UCLA School of Medicine
- 1995-1999 Psychiatry PS 11 Instructor, Medical Students-Psychiatry Clerkship. UCLA School of Medicine
- 2004-2011 Mentor for Emory University School of Medicine MD/PhD Clinical Research Conference (MDPH 799r/IBS799r)
- 2005-2011 Directed Study supervisor for 2nd year medical students, Emory University School of Medicine
- 2006-2011 Lecturer, second year medical students, Emory University School of Medicine
- 2007-2011 *When, Whence, Whither: how the origin, status and fate of consciousness impact the practice of medicine.* Lecture for Foundations in Neuroscience series, First Year Medical Student course, Emory University.

Graduate Program and Residency Program Teaching:

- 1995 Psychiatry for the Neurologist. Developed and co-taught this lecture series for neurology residents. UCLA Neuropsychiatric Institute
- 1995-1999 Developed and taught a Board Review class for psychiatry residents. UCLA Neuropsychiatric Institute
- 1995-1999 Psychiatry 497 Instructor, Consultation-Liaison Attending Rounds, UCLA Neuropsychiatric Institute
- 1995-1999 Psychiatry 421.2 Instructor, Adult Inpatient Attending Rounds and Consultation-Liaison Psychiatry service, UCLA Neuropsychiatric Institute
- 1995-1999 Psychiatry 420 Instructor, Consultation-Liaison Grand Rounds, UCLA Neuropsychiatric Institute
- 1995-1999 PS252.01 Instructor Adult Inpatient Services Seminar, UCLA Neuropsychiatric Institute

- 1995-1999 PS350.01 Instructor Adult Psychiatry Residency Program, UCLA Neuropsychiatric Institute
- 1999-2003 Fundamentals of Consultation Liaison Psychiatry. Developed all content and taught all lectures at this weekly seminar for residents and medical students on the Grady Hospital Psychiatric Consultation Liaison Service. Emory University Department of Psychiatry and Behavioral Sciences
- 2000-2004 Instructor and case discussant, Grady Hospital Inpatient Service Weekly Clinical Case Conference, Emory University Department of Psychiatry and Behavioral Sciences
- 2000-2011 First-year Residents' Journal Club discussion leader, Emory University Department of Psychiatry and Behavioral Sciences
- 2001-2011 Emory University Hospital Psychiatry Residents Case Conference, interviewer and discussant, Emory University Department of Psychiatry and Behavioral Sciences
- 2000-2011 Grady Hospital Psychiatry Residents Case Conference, interviewer and discussant, Emory University Department of Psychiatry and Behavioral Sciences
- 2003-2011 Seasonal affective disorder and circadian rhythms lecture for Mood Disorders curriculum for PGY-3 Emory Psychiatric Residents
- 2005-2011 Evolutionary Perspectives on the Persistence of Genes for Major Depression in the Human Gene Pool. Emory University Department of Psychiatry and Behavioral Sciences PGY-2 Inpatient Residents' Seminar
- 2005-2009 IBS 526, Neuroscience II - Neuroanatomy and Systems Neuroscience—
"Psychoimmunology Lecture," Emory University Neurosciences Graduate Program
- 2006-2011 Management of Depression in the Medically Ill: Novel Perspectives from Cytokine Research. Emory University Department of Psychiatry and Behavioral Sciences PGY-4 Residents' Seminar
- 2008-2011 Immune System and Mood Disorders lecture for Mood Disorders curriculum for PGY-3 Emory Psychiatric Residents
- 2009-2011 RLAR 737/PSYC 770: Topics in Asian Religion, "Mind and Brain from the Perspective of Buddhism and Western Science." Guest Lecturer on Stress and Immune system interactions relevant to well-being and positive psychosocial connectivity
- 2010 Department of Cardiology Clinical Research Conference, "Cytokines Sing the Blues: Inflammation in the Pathophysiology and Treatment of Major Depression"

- 2011-2015 Clinical Instructor/Interviewer/Discussant for University of Arizona Department of Psychiatry Residency Program Second Year Clinical Case Conference
- 2012-13 University of Arizona Psychiatry Residency Program, “Major Depression” (core curriculum class for 3rd year residents)
- 2012-13 University of Arizona Psychiatry Residency Program, “Major Depression” (core curriculum class for 1st year residents)
- 2012 “The Significance of Depression in Pathogen Host Defense (PATHOS-D),” lecture for the interdisciplinary “Evo-Devo” Study Group
- 2012 “Effects of Compassion Training on Physiological Processes Relevant to Health and Emotional Well-Being,” lecture for the Arizona Meditation Research Interest Group, an interdisciplinary study group for graduate and undergraduate students at the University of Arizona
- 2013 Mind-Body Perspectives on Major Depression, seminar presented to University of Arizona Psychology Internship Program

Undergraduate Student Teaching:

- 2000 *Psychobiological Foundations of Personhood: Tibetan Buddhist and Western Perspectives.* Developed and co-taught this novel interdisciplinary class with Geshe Lobsang Tenzin, Ph.D., Department of Religion. Received a University Teaching Fund award for this work. Emory, University
- 2001 *Neuroscience and Eastern Wisdom: Similarities and Differences.* Taught at the Emory Study Abroad Program in Dharamsala, India
- 2006 *Depression and the Immune System* lecture and group discussion, Biology 470S: Biology and History of Addiction & Depression. Emory, University
- 2006 *A 360 Degree View of Addiction and Depression. A symposium on current addiction and depression issues at Emory, Biology 470S,* with Charles L. Raison, Howard Kushner, Ph.D. and Mark McLeod, Ph.D.
- 2006 *Cross-cultural views of medicine – East versus West. How has the mind/body interface been dealt with historically?* Lecture with Geshe Lobsang Tenzin Negi, Ph.D. (Religion) for the Emory undergraduate class “Mind/Body Issues in Medicine (NBB470S). Emory, University
- 2006 *Phenomenology of Depression: Body, Mind and Culture.* Co-course director and teacher for half-semester interdisciplinary class within Departments of Anthropology, Religion and Psychiatry, Emory University. This was a new course

for which I wrote and received a University Teaching Fund award. Emory University

- 2004-2011 Guest lecturer on mind-body interactions, REL 358R: *Religion and Healing: Tibetan Buddhist and Western Perspectives on the Mind-Body Connection* . Emory University
- 2007-2010 *Mind-Body Program Seminar for Issues at the Interface of Science, Spirituality and Health*. Created and co-taught (with Geshe Lobsang Tenzin Negi, Ph.D.) this bi-weekly seminar is for undergraduate, medical and graduate students serving as volunteers within meditation-related research studies conducted under the auspices of the Emory Collaborative for Contemplative Studies
- 2008-2011 *Immune Function and health*, lecture for ANT 385 003 Special Topics: Anthropology, BSHE 560R 001 Health Education Seminar – Advanced Seminar in Predictive Health and Society
- 2008-2009 *Religion and Healing: Implications of Interpersonal and Interphylogenetic Relationships*, lecture for Health and Healing: Understanding the Role of Religion, Religion 358, Theology School SR698, Public health: GH 590R
- 2010 *Evaluating Scientific Studies of Meditation*, lecture for Health and Healing: Understanding the Role of Religion, Religion 358, Theology School SR698, Public health: GH 590R
- 2011 Invited Lecturer, *The University Course: Methland*
- 2013 Invited lecture on *Compassion Training and Mental Health* for Secular Ethics Class, Emory University, Atlanta, GA

SUPERVISORY TEACHING:

Graduate Students Directly Supervised (PhD and MPH):

- 2005-2006 Tyra Lynn Frazier, Ph.D student in the Department of Anthropology, Emory University, Atlanta, GA. I served as mentor for her research work related to meditation, depression and attachment style in college students.
- 2007-2009 Ashli Owen-Smith, Ph.D. student at Rollins School of Public Health, Emory University, Atlanta, GA. I serve as a consultant on her NRSA project on the use of Complementary and Alternative treatment modalities in patients with human immunodeficiency virus disease.
- 2007-2009 Bridhid Kleinman, Ph.D. student in Department of Psychology, Emory University, Atlanta, GA. I serve as co-dissertation advisor and mentor for her research on attachment and meditation.

- 2008-2009 Beth Ann Brennan, supervised her dissertation looking at the effect of meditation training on emotional symptoms in college freshmen.
- 2008-2011 Brooke Dodson-Lavelle, Ph.D. student in Department of Religion, Emory University, Atlanta, GA. I serve as a mentor on her dissertation project on relationships between specific meditation practices and health outcomes.
- 2007-2011 Jenny Mascaro, Ph.D. student in the Department of Anthropology, Emory University, Atlanta, GA. I served as a co-sponsor on her RSA application in the field of meditation research and sat on her dissertation committee.
- 2007-2010 Pritpal Sidhu, Ph.D. student at Pacifica Graduate Institute, Carpinteria, CA. I serve as the external reader for Ms. Sidhu's dissertation committee on a project entitled "Mindfulness Meditation and ADHD: The Effects of Mindfulness Meditation on Increasing the Attention Span in Attention-Deficit Hyperactivity Disorder."
- 2010-2011 Erica Lipizzi, MPH student at Rollins School of Public Health, Emory University. I 10 engagement with meditation training that translate to improved physiological stress responses. Ms. Lipizzi is also working with me on a study of the effect of chronic immune activation on social behavior.
- 2012-2015 Rebecca G. Reed, PhD student at the John and Doris Norton School of Family and Consumer Sciences. Ms. Reed conducted independent study under me spring semester 2012 on the role of inflammation in mental and social phenomenon. I also serve as a primary mentor and committee member for her PhD dissertation.
- 2012-2015 Clemens Janssen, PhD student at John and Doris Norton School of Family and Consumer Sciences. I am Mr. Janssen's primary mentor and thesis advisor. He is working closely with me on the application of hyperthermia for the treatment of major depression, looking in this context at the effect of skin heating on human social behavior.
- 2014-2015 Brintha Subramaniam, PhD student at the John and Doris Norton School of Family and Consumer Sciences. I serve on Ms. Subramaniam's dissertation committee help mentor her on her project "Mindfulness and Consumer Behavior."

Post-doctoral Fellows Directly Supervised:

- 2001-2002 Marina Demitrashvili, M.D., Assistant Professor, Department of Psychiatry, Emory University School of Medicine, co-mentored with Andrew H. Miller, M.D.
- 2005-2009 Monica K. Cowles, M.D. I co-mentor this fellow with Andrew H. Miller, M.D.
- 2005-2008 Oyetunde Alagbe, M.D., Department of Psychiatry, Emory University School of Medicine, co-mentored with Andrew H. Miller, M.D.

- 2009-2014 Donna Evon, PhD, Dept. of Psychology, University of North Carolina Chapel Hill, mentor for her K23 application to study psychotherapy in patients receiving interferon-alpha.
- 2010-2011 Heather Ross, PhD, Department of Psychiatry and Behavioral Sciences, Emory University School of Medicine.
- 2011-2012 Marnie Lamm, MD, T32 NCCAM-postdoctoral fellowship, I am providing mentorship on issues related to psychoneuroimmunology.
- 2012-2013 Ashley Randall, PhD, post-doctoral student at the Norton School of Family and Consumer Sciences. Dr. Randall is working with me to study behavioral and biological elements of dyadic interactions relevant to emotional health and mechanisms of action of behavioral and biological antidepressant modalities.
- 2012-2014 Tommy K. Begay, PhD, post-doctoral student at the Norton School of Family and Consumer Sciences. Dr. Randall works with me to develop and implement methodologies for studying potential health benefits of traditional Native American healing practices.

Undergraduate Students Directly Supervised:

- 2006-2007 Marissa Krinsky, supervised research elective during Emory Semester Abroad Program in Dharamsala, India, and served as honors thesis advisor and committee chair.
- 2006 Kristina Lam and Christine Blachly, supervised their research project entitled "Meditation and Depression" for Biology 470S: Biology and History of Addiction & Depression.
- 2002-2004 David Buxton, supervised and helped student develop an extended research program to examine rates of depression and anxiety in Tibetan young people born and raised in exile in India/Nepal vs. Chinese-occupied Tibet. I helped student obtain a Vernacular Modernities Undergraduate Foreign Project Summer Scholarship and a Patrick Stewart Human Rights Scholarship to conduct this work.
- 2005-2007 Mentored a number of Emory undergraduate students who worked with me on my compassion meditation research project, including Walton Dumas, Doug Wetmore, Elizabeth Wilson, Drew Harbur (Sonny Carter Memorial Scholarship recipient), Ankith Kamaraju. Steven Lee and Nora Kleinman.

Medical Students Directly Supervised for Research:

- 2008- Simone M. Langness. I served as supervisor for her second year medical school elective in Mind-Body Medicine.

- 2007-2008 Timothy Johnson. I served as co-mentor with Viraj Master for a project on depression and prostate disease.
- 2007 William Leasure. I served as research mentor for his 4th year Medical School research elective in which he worked on the study of compassion meditation.
- 2007 Elliot Tapper, Directed study under my supervision on “The Mind-Body Connection: Clinical and Philosophical Perspectives.

Other:

- 2013 Faculty Mentor for Pamela Mirsky, MD. Dr. Mirsky is an assistant professor in the Department of Psychiatry, College of Medicine, University of Arizona, with specialty training in psychosomatic medicine.
- 2012-2015 Faculty Mentor for Patricia Haynes, PhD. Dr. Haynes is a well-published Assistant Professor in the Department of Psychiatry, College of Medicine, University of Arizona who specializes in bi-directional interaction of sleep physiology with traumatic stress.
- 2006-2008 Founding faculty, co-creator of neuroscience curriculum and lecturer for Emory-Tibetan Science Education project for Monks, a collaborative project with the Library of Tibetan Works and Archives. With Preetha Ram (assistant dean of science education) and Geshe Lobsang (Department of Religion) I met with His Holiness the Dalai Lama in the summer of 2006 in Dharamsala, India, to articulate and plan an integrated science education program for Tibetan Buddhist monks in their final stages of monastic training. With Carol Worthman and Jim Rilling I developed the neuroscience curriculum for the first year’s program. I helped initiate the first Science Education session by spending 10 days during June 2008 teaching neuroscience (with Carol Worthman, Anthropology) to 40 Tibetan Buddhist monks and nuns in Dharamsala, India.

INVITED CLINICAL LECTURES:

Welcome to the Academy of Ancient Practices and Associations: Optimizing the 21st Century Treatment of Depression. 8th Annual Doctors Hospital at Renaissance Behavioral Medicine Conference, McAllen, TX, November 4, 2016

Treatment of Major Depression Pre-Conference. Nevada Psychiatric Association 20th Annual Psychopharmacology Update. 8-Hour CME event with material developed and delivered in collaboration with Vladimir Maletic, MD, 2015

Managing Depression in Patients with Rheumatic Diseases. 7th Perspectives in Rheumatic Diseases Meeting, Las Vegas, NV, 2014

Chronic Pain: Behavioral Aspects. 2014 Clinical and Quality Conference, Missouri Primary Care

Association, Branson, MO, 2014

Compassion Training as a Path to Genuine Happiness, Downtown Lecture Series, School of Social and Behavioral Sciences, University of Arizona, Tucson, AZ, 2013

Coming to Our Senses: Rethinking Depression and Its Treatment, Grand Rounds, Department of Psychiatry, College of Medicine, University of Arizona, Tucson, AZ, 2013

Mind-Body Balance, Applied Brilliance Conference, Brooklyn, NY, 2013

Novel Treatments for Depression, invited talk, Oregon Psychiatric Association Fall Meeting, Ashland OR, 2013

Coming to Our Senses: Harnessing the Mind-Body Connection to Enhance Behavioral and Pharmacological Interventions for Major Depression, Grand Rounds, Department of Obstetrics and Gynecology, College of Medicine, University of Arizona, 2013

Coming to Our Senses: Harnessing the Mind-Body Connection to Enhance Behavioral and Pharmacological Interventions for Major Depression, Annual Convention Body and Mind Connection: Treating The Whole Patient Remodeling the Brain Through Mind Body Interventions, Hospital Panamericano, Fajardo, Puerto Rico, 2102

Harnessing the Mind-Body Connection for Treatment of Depression: Behavioral & Pharmacologic Interventions at the Immune-Stress Interface, 4th Annual Neuropsychiatry Conference, Renaissance Behavioral Center, McAllen, TX, 2012

Cytokines Sing the Blues: Inflammatory Implications for the Phenomenology, Pathophysiology and Treatment of Mood Disorders. Department of Medicine Grand Rounds, Brooke Army Medical Center, San Antonio TX

Bringing Spirituality to Health: the Case for Compassion Training. 22nd Annual Clinical Meeting of the American Academy of Pain Management. Las Vegas, NV, 2011

Cytokines Sing the Blues: Clinical Implications of an Inflammatory Perspective on Mood Disorders. To Restore Health We Have to Go Back to the Future. Bonusan Congress, Amersfoort, Netherlands, and Zurich, Switzerland, 2011

Can't Shake These Blues: Inflammatory Perspectives on the Origin and Persistence of Depressogenic Genes. To Restore Health We Have to Go Back to the Future. Bonusan Congress, Amersfoort, Netherlands, and Zurich, Switzerland, 2011

Cytokines Sing the Blues: Inflammatory Perspectives on Pathophysiology and Treatment of Major Depression. Grand Rounds, Department of Psychiatry, University of Arizona, Tucson, AZ, 2010

Treating the Whole Patient, a 2-day seminar created and co-developed by Dr. Raison for 2009 U.S. Psychiatric Congress, Las Vegas, NV

Developed course material and co-taught in the Psychoneuroimmunology Academic Program in the Clinical Psychoneuroimmunology Masters Program, University of Gerona, Gerona, Spain, 2009

Current Models on the Biology of Depression in Cancer, lecture for the Fourth Annual Chicago Supportive Oncology Conference, Chicago, IL, 2008

Homeostatic Imbalances in Depression: Stress, Inflammation and Symptoms, lecture for the forum The Neurophysiology of Depression: Exploring the Mind-Body Link at the American Academy of Family Physicians Annual Meeting, San Diego, CA, 2008

Warming the Heart While Keeping Your Cool: Compassion Meditation as a Novel Path to Lifelong Health and Wellbeing. Emory University Department of Pediatrics Research Seminar Series, Atlanta, GA, 2008

Translational Research: A Physician Bridges Basic Science and Clinical Care. Keynote address for a half-day CME Event and Faculty Workshop hosted by the Office of Faculty Affairs and Development, University of Nevada, Reno, NV, 2007

Depression Associated With HCV Infection and Its Therapy: Impact on Patient Management. Chair and presenter for Postgraduate Institute for Medicine CME meeting. New York, NY, 2007

How to Make the Journey from Clinician to Clinical Researcher. Psychiatry Residents' Research Seminar. Department of Psychiatry, Albert Einstein School of Medicine, Montefiore Medical Center, Bronx, NY, 2007

Neuropsychiatric Aspects of HCV and its Treatment. Centers for Disease Control and Prevention, Division of Viral Hepatitis Seminar Series, Atlanta, GA, 2006

Meditation, Inflammation and Consternation: Applying Buddhist Wisdom to the Fight against Depression at Emory. General Clinical Research Center Seminar, Emory University School of Medicine, Atlanta GA. 2006

Immunology and the Psyche: Implications for the Pathogenesis and Treatment of Depression. Grand Rounds, Department of Psychiatry and Behavioral Science, State University of New York, Stony Brook. Stony Brook, NY, 2006

Cytokines Sing the Blues: Inflammation in the Pathogenesis and Treatment of Depression. Grand Rounds, University of Nevada at Reno Department of Psychiatry. Reno, NV, 2006

Depression and Cancer. Grand Rounds. Fitzpatrick Cancer Center, CVPH Medical Center. Plattsburgh, NY, 2006

Mirror Neurons, Inflammation & the Cost of Identification: What Science Tells Us About the Causes, Consequences & Treatment of Caregiver Stress. CVPH Medical Center CME Presentation, Plattsburgh, NY, 2006

Recognition and Management of Psychiatric Side Effects from Interferon Therapy. Annual Conference of the Canadian Association of Hepatology Nurses held in partnership with the Canadian Association for the Study of the Liver. Toronto, Ontario, CA, 2006

Mind-Body Perspectives on the Development and Treatment of Depression. 2-hour presentation for the monthly meeting of the Metropolitan Atlanta Advanced Practice Psychiatric Nurses Group. Atlanta, GA, 2006

Immunology and the Psyche: Implications for the Pathogenesis and Treatment of Depression. Half-day seminar presented to the Georgia Psychiatric Physicians Association 2006 Winter Meeting. Atlanta, GA, 2006

Recognition and Management of Depression in Patients Receiving IFN-alpha for Hepatitis C. Canadian Redipen Investigators Meeting. Las Vegas, NV, 2006

Psychological Management of the Hepatitis C Patient. Hepatologist Associates Course, American Association for the Study of Liver Diseases 56th Annual Meeting. San Francisco, CA, 2005

Mind-Body Perspectives on the Development and Treatment of Depression. Presented at the Texas Society of Psychiatric Physicians Annual Convention and Scientific Program. Austin, TX, 2005

Pathophysiologic Mechanisms of Depression: Implications for Medical Illness. American College of Clinical Pharmacy Annual National Meeting. San Francisco, CA, 2005

Answering the October Letter: Depression in the Context of Cancer and its Treatment. Champlain Valley Griffin Hospital CME presentation. Plattsburgh, NY, 2005

Health and Spirituality at the Mind-Body Interface. Morton Plant Mease Foundation, Clearwater Hospital. Clearwater, FL, 2005

Neurotoxicity of Biotherapy and Chemotherapy. Vermont Cancer Center Grand Rounds, University of Vermont. Burlington, VT, 2005

Neuropsychiatric Effects of Interferon-alpha: Recognition and Management. Presented at the symposium "New Treatments in Chronic Liver Disease." Scripps Clinic. La Jolla, CA, 2005

Hepatitis C: Neuropsychiatric Management. Presented at the seminar "Liver Diseases: Therapeutic Challenges 2005." Washington University School of Medicine. St. Louis, MO, 2005

Identity as Psychiatrists: Heritage and Creativity in this Unique Specialty. Co-Chair, Forum #6. 158th American Psychiatric Association Annual Meeting. Atlanta, GA, 2005

Neuropsychiatric Side Effects of Antiviral Therapy: The Psychiatrist's Perspective. Presented at the symposium "Making a Difference: Improving Outcomes and QOL in Patients with Hepatitis C." American College of Gastroenterology Annual Meeting. Kissimmee, FL, 2004

Managing Psychiatric Side Effects of Interferon-alpha. Presented at the symposium "Practical Strategies to Maximize Response to Hepatitis C Therapy." American College of Gastroenterology Annual Meeting. Kissimmee, FL, 2004

Neuropsychiatric Side Effects of Interferon-alpha: Recognition and Management. Grand Rounds, Department of Gastroenterology, Emory University School of Medicine, Atlanta, GA, 2004

Role of Atypical Antipsychotics in Treatment of Bipolar Disorder. International Society for Affective Disorders 2004 Meeting. Program Chairman and lecturer. Cancun, Mexico, 2004

Advances in Psychoimmunology: Implications for Treatment. Presented at the symposium “Interface of Psychiatry and Medicine: Focus on Early Life Trauma, Somatic Symptoms and Psychoimmunology,” Atlanta, GA, 2004

Diagnosis and Treatment of Interferon-alpha Psychiatric Side Effects in Patients with Hepatitis C Virus. Presented at the symposium “Interferon-Induced Depression: Consequences of Treating Chronic Hepatitis C” symposium. 157th American Psychiatric Association Annual Meeting. New York, NY, 2004

Management of Depression in the Medically Ill. Tenth Annual Santa Fe Psychiatric Symposium. Santa Fe, NM, 2004

Managing Patients with Somatic Symptoms. Asia Pacific Neuroscience Summit. Taipei, Taiwan, 2004

What the Immune System Tells Us About Symptom Responses to Antidepressants. Grand Rounds, The University of Texas Health Science Center at San Antonio. San Antonio, TX, 2004

Neuropsychiatric Side Effects of Interferon-alpha: Diagnosis and Treatment. 8th Annual Hepatitis Update. Sponsored by Stanford University. Palo Alto, CA, 2004

HCV, IFN and the Brain. European PegIntron Investigators’ Meeting. London, England, 2004

Efficacy of Dual Action Antidepressants: Lessons from Inflammation. CME program for the Lovelace Clinical Foundation, Albuquerque, NM, 2005

Can’t Shake These Blues: Evolutionary Perspectives on the Development and Persistence of Major Depression. Keynote Address, 11th Annual Northern California Regional Psychiatric Conference, Kaiser Permanente, San Francisco, CA, 2003

Nerves, Inflammation and Illness: Harnessing the Stress System to Improve Mental and Physical Health. Full-day Workshop presented at the 11th Annual Northern California Regional Psychiatric Conference, Kaiser Permanente, San Francisco, CA, 2003

Psychiatric Issues in Hepatitis C. Symposium at the American Association of Physician Assistants’ 31 Annual Physician Assistant Conference, New Orleans, LA, 2003

Psychiatric Side Effects of Interferon-alpha for the Treatment of Hepatitis C. Symposium at the Annual American Psychiatric Association Meeting, San Francisco, CA, 2003

Managing Psychiatric Side Effects. First Annual Clinical Care Options for Hepatitis Symposium. Laguna Niguel, CA, 2003

Psychoneuroimmunology. Keynote Address. 9th Annual Midwest Neuropsychopharmacology Update. Lexington, KY, 2003

Neuropsychiatric Side Effects of Interferon-alpha. American College of Gastroenterology 2003 Annual Meeting and Postgraduate Course. Baltimore, MD, 2003

Harnessing the Stress System to Improve Mental and Physical Health. Five hour seminar for “Mind and Body: an Integrated Approach to Care” Behavioral Healthcare Symposium, Southern California Kaiser Permanente Medical Group. Palm Springs, CA, 2003

Immunology and Psychiatric Illness. Psychiatry in Medicine: Medicine in Psychiatry, CME course hosted by University of Pennsylvania. Philadelphia, PA, 2003

21st Century Medicine—What we Know About the Brain and The Impact of Stress on Physical and Mental Health. Keynote address for the symposium entitled “The Mind-Body Connection: Implications for Medical Practice.” Asheville, NC, 2003

The Diagnosis and Management of Somatoform and Related Disorders. Grand Rounds. Morehouse University Department of Psychiatry. Atlanta, GA, 2002

Comorbid and Treatment-Induced Psychiatric Disease. “Expert Perspectives III: Strategies for the Management of HIV/HCV” Coinfection Conference. Aspen, CO, 2002

Neuropsychiatric Effects of Peg Interferon. 2002 Clinician’s Companion VI Development Meeting. Laguna Niguel, CA, 2002

Treating Hepatitis C in Patients with a History of Depression. American College of Gastroenterology Annual Meeting. Seattle, WA, 2002

Response vs. Remission in the Long-Term Prognosis of Major Depression. Anderson County Medical Society. CME meeting, Anderson, SC, 2001

Treatment Refractory Conditions: The Stress Paradigm. All day-seminar for Northern California Kaiser-Permanente Conference for Psychiatry and Chemical Dependency, San Francisco, CA, 2001

Depression and the Immune System. Grand Rounds. Department of Medicine. Emory University Crawford Long Hospital. Atlanta, GA, 2001

Depression and the Immune System. Grand Rounds. SUNY Buffalo Department of Psychiatry. Buffalo, NY, 2001

Emergency Psychiatry. Grand Rounds presentation. St. Louis University School of Medicine, St. Louis, MO, 2000

The Rational Use of Antidepressant Medications. Slidell Memorial Hospital Grand Rounds, Slidell, LA, 2000

Depression and Chronic Pain. Capitol Medical Society CME Meeting, Austin, TX, 2000

Treatment Resistant Depression: the Mind-Body Connection. Grand Rounds. Napa State Hospital, Napa, CA, 2000

Emerging Issues in Psychiatry. Grand Rounds. Loma Linda University School of Medicine Department of Psychiatry, 1999

Manipulating the Mind. Invited Lecture for the Osteopathic Physicians and Surgeons of California Annual Spring Seminar. South Lake Tahoe, CA, 1999

Depression in the Primary Care Setting. Monthly meeting, Nevada Society of Family Physicians, Las Vegas, NV, 1998

Advanced Strategies for the Treatment of Depression. Grand Rounds, Tripler Army Hospital, Honolulu, HI, 1998

Advanced Strategies for the Treatment of Depression. Grand Rounds, Downey Community Hospital, Downey, CA, 1998

Emergency Psychiatry, California Academy of Physicians Assistants Annual Meeting, Palm Springs, CA, 1998

Mind, Body and Mood. Invited Lecture for the American Psychiatric Association, Nevada Chapter Monthly Meeting. Las Vegas, NV, 1998

Advances in the Treatment of Depression. Sunrise Columbia Hospital Grand Rounds, Las Vegas, NV, 1997

Management of Sexual Side Effects of Antidepressants. University of Nevada Family Practice Residency Program. Las Vegas, NV, 1997

Depression: An Overview Of Treatment Options. Grand Rounds. Loma Linda Medical Center. Redlands, CA, 1997

Treatment of Attention Deficit with Antidepressants. Grand Rounds. Henry Mayo Newhall Memorial Hospital, Santa Clarita, CA 1997

Diagnosis and Treatment of Major Depression. National Depression Day Symposium, Adult Psychiatric Hospital Service, UCLA-Neuropsychiatric Institute and Hospital, Los Angeles, CA, 1996

Emergency Psychiatry. Grand Rounds. UCLA Department of Psychiatry and Biobehavioral Sciences. Los Angeles, CA, 1996

OUTREACH/PUBLIC TEACHING AND RELATED MEDIA ACTIVITIES

Invited Outreach/Public Lectures

Compassion Training as a Path to Genuine Happiness, Downtown Lecture Series, School of

Social and Behavioral Sciences, University of Arizona, Tucson, AZ, 2013

Mind-Body Balance, Applied Brilliance Conference, Brooklyn, NY, 2013

Rethinking How We Understand and Treat Depression. TEDxTucsonSalon, Tucson AZ, 2013

Compassion Training as a Pathway to Lifelong Health and Well-Being. Keynote Address, John and Doris Norton School Homecoming for Alumni and Friends, University of Arizona, Tucson, AZ, 2012

Compassion Meditation and the Real Enemy. Balance. TEDxAtlanta, Atlanta 2011

Food Fundamentals for Healthy Kids and Communities. Panel Discussion on nutrition and health, sponsored by the Friends School of Atlanta, 2010

The Health Benefits of Meditation, The Bonnie Brown Johnson Women's Health Lectureship, Agnes Scott College, Atlanta, GA, 2010

Speaker and Discussion Leader for Science of Meditation, hosted by Swissnex, San Francisco, CA, 2009

Panelist and Speaker for Using Wisdom as the Heart of Change, which served as the afternoon session for "The Heart of Change: Finding Wisdom in the Modern World," a public teaching by His Holiness the Dalai Lama, sponsored by the Conservancy for Tibetan Arts and Culture, Washington, DC, 2009

Foundations of Emotional and Physical Well-Being: Old Lessons from the New Science, invited lecture for Jung Society of Atlanta, Atlanta, GA, 2009

Foundations of Emotional and Physical Well-Being, invited lecture for Meditation & the Mind Body Connection, a workshop at Mary & Martha's Place, Atlanta, GA, 2009

Managing Stress. Emory University School of Medicine New Faculty Orientation, Atlanta, GA, 2008

Meditation, Compassion and Health. Invited lecture for the Library of Tibetan Works and Archives, Dharamsala, India, 2008

Cytokines Sings the Blues: Stress, Inflammation and Emotional Well-Being. Invited lecture for Advisory Board of the George West Mental Health Foundation, Skyland Trails, Atlanta, GA, 2008

Warming the Heart While Keeping Your Cool: Compassion Meditation as a Novel Path to Lifelong Health and Wellbeing. Invited lecture for the Emory Board of Visitors Meeting. Atlanta, GA, 2007

Depression, Sadness and Satisfaction. Emory University Mini-Medical School Lecture. Atlanta, GA, 2007

Can Meditation be a Medication for our Ailments? A Traditions in Dialogue Lecture. Drepung Loseling Institute, Atlanta GA, 2006

Managing Stress. 2005 Emory University School of Medicine New Faculty Orientation Program, Atlanta, GA, 2005

Western Perspectives on the Mind-Body Connection. Presented at the symposium “Mind-Body Medicine at the Interface of Mood and Health: Tibetan Buddhist and Western Perspectives on Depression in the Medically Ill.” (Also event co-coordinator). Emory University. Atlanta, GA, 2004

Emory University 5th Annual Symposium on Science and Religion: “Relationship of Spirituality and Health.” Invited respondent to Dr. Harold Koenig. Emory University, Atlanta, GA, 2004

Tummo, Toughening Up, and the Training of Desire: Studies in Tibetan Buddhist Meditation at Emory. Invited Lecture. Emory-Tibetan Exchange Program. Atlanta, GA, 2002

Student Personality and Risk of Violence. Invited lecture. Fresno Community College. Fresno, CA, 2001

The Moon and Madness Reconsidered. Invited Paper presented at the West Coast College of Biological Psychiatry, Annual Meeting, Tucson, AZ, 1999

Learning in the Between: Can Modern Psychiatry Benefit from Tibetan Death Practices. First International Conference on Tibetan Medicine. Washington, DC, 1998

Inner Fire Meditation and the Circuitry of Mood: Implications for the Pathophysiology of Depression. First International Conference on Tibetan Medicine. Washington, DC, 1998

Media Appearances (selected):

2015:

Dogs as Probiotics. Interview with Sean Carroll, News Talk Radio Ireland.

Evolutionary Reasons for Romance, extended interview for Valentine’s week segment for PBS KUAT, Tucson, AZ

2014:

Family Grief and Trauma Following Loss of Flight 307, extended interview on Sanjay Gupta, MD, CNN

2013:

Effect of the Martin MacNeil Murder Trial on the Children panel member for hour-long segment on HLN News, CNN, Mike Galanos anchor

Long-Term Health and Emotional Consequences of Childhood Trauma. Interview for AZ Illustrated with Tony Paniagua in which we discussed my research on compassion training

Soil-Based Bug Could Boost Mental Health, Interview for Arizona Illustrated with Gisela Telis, KUAT Tucson

Nature as Therapy. Interview for Arizona Illustrated with Gisela Telis, KUAT Tucson

Facing the Psychiatric Consequences of Newtown: Will it Change Our Practices? Interview for CNN radio with Edgar Treiguts

2012:

Mental Illness and Violence Prevention: How to Recognize the Warning Signs, Expert interview for Arizona Week with Michael Chihak, KUAT Tucson

Dealing with the Psychological Aftermath of the Connecticut School Shooting, Expert interview for the Situation Room with Wolf Blitzer, CNN

Why Did Depression Evolve? Special guest and subject for hour-long public television program, Arizona Illustrated, KUAT Tucson

2010:

Psychological Challenges Faced by the Trapped Chilean Miners. ABC News

Overcoming Weather Phobias, live interview with Betty Davis on The Weather Channel

Are Antidepressants Safe for Pilots? Expert interview for Good Morning America, ABC News.

Improving the Treatment of Chronic Pain, one of 3 guest experts for hour-long CME show on Discovery Channel, hosted by Rea Blakey

Full Moon, extended expert interview with Rasmus Akerblom for Sveriges Television, (SVT), which is the Swedish National Channel.

2009:

Helping Children Overcome Fear of the Weather, expert interview for the Weather Channel

Bipolar Disorder, expert interview for CNN Accent Health Channel

Marriage, Divorce and Health, ABC News with Dr. Tim Johnson

About Major Depression, the Medical Minute, CNN Headline News

Support Groups for Patients with Cancer, the Medical Minute, CNN Headline News

Stress, Suicide and the Economy, interviewed for ABC Nightly News with Charles Gibson

Stress, Health and the Recession, hour-long interview and listener call-in for the final segment of “Sound Health” with Cheri Lawson, WMUB, Cincinnati, OH

Stress and the Recession, interview for “House Call” with Dr. Sanjay Gupta, CNN

Helping Men Cope with the Stress of Job Loss interview for NBC 11 Alive News, Atlanta, GA

2008:

Stress and the Economy, WSB TV Atlanta

Inflammation, Stress and Depression, radio interview for BBC News

Mental Health Challenges among Young Tibetan Refugees, interview for Voice of America

Stress, depression and the failing economy. Fox 5 News segment, Atlanta GA

Stress and viral infections. Interview for <http://www.healthday.com>

2007:

Stress and Overeating. RealHealth TV On-line Interview

Regarding the Bizarre Behavior of Karyn McConnell Hancock, Interview for Good Morning America, ABC News

Answering Questions about Seasonal Affective Disorder. Interview for House Calls with Dr. Sanjay Gupta, CNN

Why Stress Exists and How to beat it in the Modern World. Expert commentary on House Calls with Dr. Sanjay Gupta, CNN

Stress and Illness. Interview for webcast on www.abcnews.go.com and www.realhealth.tv

Depression, Evolution and Inflammation. Featured guest on Clinicians’ Roundtable with Dr. Leslie Lundt, ReachMD XM Satellite Radio XM 157

Teaching Students Compassion Meditation. Interview with Dr. Sanjay Gupta for CNN on our research work with compassion meditation

The High Cost of Hidden Child Abuse. Interview with Susan Hendricks, Prime News Tonight, CNN Headline News

How to Reduce the Impact of Stress on Your Life and Health. Interview with Dr. Sanjay Gupta, on House Calls, CNN

How to Reduce Holiday Stress. Expert commentary on Medical Minute with Judy Fortin, CNN.

Psychological Insights into the Virginia Tech Shooter. Live interview on “Healthy Life” program on ABC News Now

The Stress Aftermath of the Virginia Tech Shooting. Interview on CNN Radio Network

Profiling the Virginia Tech Shooter. Live interview on “World Tonight” with Rosemary Church, CNN International

Reducing the Stress of Taxes. Interviewed for “The Medical Minute” with Judy Fortin, CNN
Headline News

Boost Your Immune System, interviewed for WebMD Internet Broadcast

2006:

Discovery Health CME: Managing the Link between Depression and Pain. An hour-long program with Drs. Charles L. Raison, John F. Tierney and Vladimir Maletic broadcast on the Discovery Health Channel

How to Recognize and Treat Seasonal Affective Disorder. Interview with Dao Vu for Weekend View on the Weather Channel

Are We Ignoring Depression? Taped interview with Mike Galanos on CNN Prime News Tonight.

Is Stress Killing New Orleans? Live interview with Robin Meade, Robin & Company, CNN
Headline News

Stress and Taxes interview with Judy Fortin for the Medical Minute segment on CNN
Headline News

Obsessive Compulsive Disorder. Live interview with Erica Hill on Prime News Tonight, CNN
Headline News

Graduation Stress and Depression interview with Judy Fortin for the Medical Minute segment on
CNN Headline News

Grown Children Living at Home interview with Judy Fortin for the Medical Minute segment on
CNN Headline News

Intermittent Explosive Disorder. Live interview with Erica Hill on Prime News Tonight, CNN
Headline News

Moving Beyond Stress. Guest for an hour-long program in the series Moving Toward Greatness
with Charlie Cummins. Broadcast on VoiceAmerica Business at www.voiceamerica.com.

2005:

Killer Stress. WebMD Online Broadcast at <http://www.webmd.com/content/pages/24/111838.htm>

Post Holiday Blues. WebMD Broadcast at <http://www.webmd.com/content/pages/24/112362.htm>

Stress and taxes interview. WSB 750 AM, Atlanta, GA

Runaway Bride segment, Morning News with Fred Grandy and Andy Parks on ABC Radio's 630 WMAL, Washington, DC

Panel discussion on "Runaway Bride," Abrams Report, MSNBC

Commentary on slaying of Laura Hobbs, Morning News with Fred Grandy and Andy Parks on ABC Radio's 630 WMAL, Washington, DC

Crying in Public, on the Morning Show with Toucher, Jimmy and Leslie, 99X Radio, Atlanta, GA

Psychological Aftermath of Hurricane Katrina, live interview with Thomas Roberts and Sophia Choi, CNN Headline News.

What to do about Depression and Anxiety Following Hurricane Katrina, live interview with Mike Galanos and Erica Hill, [CNN Prime News Tonight](#)

Why did Jeff Reardon rob a jewelry store? Expert opinion on air for [Paula Zahn Now](#), CNN.

Did medications cause Jeff Reardon to rob a jewelry store? Taped interview with Mike Galanos on CNN Prime News Tonight.

2004:

Expert Psychiatric Commentary on the Murder of Bobbie Jo Stinnett. CNN interview with Daryn Kagan

2003:

New Year's Resolutions. Interviewed for health segment on CNN

Summer Depression. Interviewed for The Weather Channel.

Winter Woes. Interviewed for [CNN Sunday Morning](#)

Winter Depression. Interviewed for [House Calls with Sanjay Gupta](#) on CNN

2002:

Psychological Reactions to the Terrorist Threat. Interviewed for [Paging Dr. Gupta](#) segment on CNN and invited guest for live discussion segment with anchor Leon Harris

Screening for Depression. Interviewed for [Wolf Blitzer Reports](#) on CNN

Anxiety in the Work Place. Interviewed for CNN Morning News

Staying One Step Ahead of the Flu Season. Interviewed for Your Health segment on CNN

INSTITUTIONAL, SERVICE-RELATED AND OTHER COMMITTEE/BOARD WORK:

2014-2015	Steering Committee Member, The Partnership for Native American Cancer Prevention, a collaborative project to the University of Arizona Cancer Center and Northern Arizona University
2015-	Scientific Advisory Board, Usona Institute, Madison, WI
2014-2015	Member, Board of Directors, The Ben's Bells Project, Tucson, AZ
2012	Chairman, U.S. Psychiatric and Mental Health Congress
2011	Chairman, U.S. Psychiatric and Mental Health Congress
2010-present	Psychoneuroimmunology Research Society Scientific Meeting Program Planning Committee
2010-present	Psychoneuroimmunology Research Society Communications Committee
2010-2012	Scientific President, European Association of Clinical Psychoneuroimmunology
2009-present	Senior Fellow for the Mind & Life Institute, a position which provides scientific guidance/strategy for the Institute
2009-2011	Member, Transforming Trauma Leadership Council, Garrison Institute, Garrison, NY
2007-present	Member, Board of Directors, Projects Linking Art, Community & Environment (PLACE), a national nonprofit organization that helps communities create state-of-the-art buildings and neighborhoods that bring together the arts, environmentalism and social justice.

Institutional:

2015	Undergraduate Planning Committee, School of Human Ecology, University of Wisconsin—Madison
2015	Peer Faculty Annual Review Committee, School of Human Ecology, University of Wisconsin—Madison
2015	Search Committee for the Laura Secord Chair in Early Childhood Development & Faculty Director of the Preschool Laboratory, School of Human Ecology, University of Wisconsin--Madison

2014-2015	Partnership for Native American Cancer Prevention Internal Advisory Committee
2014-2015	MESH Initiative Team Leader for the University of Arizona AZiCATS (Clinical and Translational Science Award) Application Working Group
2013-2015	Invited Member, Arizona Health Sciences Center Population Health/Health Outcomes Advisory Council
2013-2015	Search Committee for Director of Norton School of Family and Consumer Sciences
2012-2015	Dean's Research Council, University of Arizona College of Medicine
2012-present	Member, Board of Directors, Arizona Friends of Tibet
2012-present	Member, Advisory Committee for the Standish Foundation For Children, Austin, TX
2011-2012	Member, Center for Health Discovery and Well-Being Technical Advisory Group
2007-2011	Member, Neuroscience Initiative and Comprehensive Neuroscience Center (NI-CNC) Research Committee
2007-2011	Member, Religion and the Human Spirit Strategic Initiative Advisory Committee
2007	Planning Committee for Mind and Life XV dialogue with His Holiness the Dalai Lama: "Mindfulness, Compassion and the Treatment of Depression"
2006	Religion and Human Spirit Strategic Planning Committee, Emory University, Atlanta, GA
2005-2011	Standing Nominations Committee, Emory University School of Medicine, Atlanta, GA
2005-2011	Strategic Planning Committee, Department of Psychiatry and Behavioral Sciences, Emory University School of Medicine, Atlanta, GA
2001-present	Emory-Tibet Partnership Executive Committee, Emory University, Atlanta, GA
2001-2011	General Clinical Research Center Advisory Council, Emory University School of Medicine, Atlanta, GA

1999-2003	Emory Medical Care Foundation Research Committee, Grady Hospital, Emory University School of Medicine, Atlanta, GA
1998-1999	Clinical Coordinating Committee, UCLA Neuropsychiatric Institute and Hospital, Los Angeles, CA
1997-1999	Emergency Care Committee, UCLA Center for Health Sciences, Los Angeles, CA
1996-1999	UCLA Neuropsychiatric Institute and Hospital Consultation-Liaison Administrative Committee, Los Angeles, CA
1995-1999	Adult Division Core Faculty Committee, UCLA Neuropsychiatric Institute and Hospital, Los Angeles, CA
1995-1999	Credentials and Ethics Committee, UCLA Neuropsychiatric Institute and Hospital, Los Angeles, CA
1995-1999	Department Executive Committee, UCLA Neuropsychiatric Institute and Hospital, Los Angeles, CA
1995-1999	Voluntary Clinical Faculty Academic Appointments & Advancements Committee, UCLA Neuropsychiatric Institute and Hospital, Los Angeles, CA
1995-1999	Peer Review Committee, UCLA Neuropsychiatric Institute and Hospital, Los Angeles, CA

CONSULTANTSHIPS:

2014	Otsuka - Lundbeck
2012-	Lilly Pharmaceuticals
2011	Bristol Myers Squibb
2011-	Pamlab
2011	Biorex Therapeutics LLC
2009-	American Academy of Physician Education, Psychiatry and Pain Advisory Board
2008-	CME, LLC, Educational Steering Committee
2008-	Mental Health Expert, CNNhealthcare.com

- 2008- Integrative Neurobiology Educational Alliance, founding member
- 2008-2009 Mind-Body Medicine and Spirituality Consultant for eGenHealth
- 2008-2009 Scientific and clinical content development consultant for *The Mind Body Link Unipolar and Bipolar Disorders: Implications for a New Treatment Paradigm*. This series of highly innovative half-day CME symposia is being held in major cities across the United States and will provide an integrative perspective on risk factors, physiological mechanisms, brain activity changes and adverse health outcomes shared by bipolar and unipolar conditions. Co-developed with Vladimir Maletic, MD, and Rakesh Jain, MD.
- 2007- Scientific Affiliate, Mind and Life Institute
- 2006-2007 Co-developed National Program *Neurobiology of Depression: Mind and Body* for Eli Lilly
- 2006-present Clinical Care Options for Hepatitis. Have developed slide content and accompanying written chapter for the *Depression and Suicidal Risk Associated with HCV Treatment* segment of a National CME program on Depression during Treatment with Interferon-alpha as well as enduring written materials on treatment of IFN-alpha-induced psychiatric side effects
- 2006 United States Attorney's Office, Los Angeles CA. Retained as expert consultant for the assessment of the possible role played by treatment with interferon-alpha in a federal prisoner who attempted to commit murder while receiving the medication
- 2006-2007 International Fatigue Advisory Board, Schering Plough Pharmaceuticals
- 2006 International Depression Advisory Board, Schering Plough Pharmaceuticals
- 2006 Advisory Board for Treatment Trial of RedIon Technology in Patients with Hepatitis C, Boston Medtech Advisors
- 2006 Depression Education Advisory Board, Wyeth Pharmaceuticals
- 2006-2007 Neurobiology of Depression Educational Advisory Board, Eli Lilly Pharmaceuticals. With Vladimir Maletic co-developed the 2007 Neurobiology of Depression National Speakers' series slide deck
- 2005 Stakeholders Task Force member, Projects in Knowledge, Inc.

