Curriculum Vitae

<u>Date Prepared</u>: January 5, 2020

Name: Diego A. Pizzagalli, Ph.D.

Office Address: McLean Hospital, de Marneffe Building, Room 233C, Mailstop 331,

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(617) 855-2797 (Neuroimaging Center)

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Place of Birth: Mendrisio, Switzerland

Education:

1995 M.S., Psychology, University of Zurich, Switzerland

1998 Ph.D., Psychology, University of Zurich, Switzerland

Postdoctoral Training:

1998-1999 Postdoctoral Research Fellow, KEY Institute for Brain-Mind Research, University

Hospital of Psychiatry, Zurich, Switzerland (Dietrich Lehmann, MD)

1999-2000 Postdoctoral Research Fellow, Laboratory of Affective Neuroscience, Psychology

Department, University of Wisconsin-Madison, WI, USA (Richard J. Davidson, Ph.D.)

2000-2002 Assistant Scientist, W.M. Keck Laboratory for Functional Brain Imaging and Behavior

and Laboratory of Affective Neuroscience, Psychology Department, University of

Wisconsin, WI, USA, Madison (Richard J. Davidson, Ph.D.)

Associate Scientist, W.M. Keck Laboratory for Functional Brain Imaging and Behavior

and Laboratory of Affective Neuroscience, Psychology Department, University of

Wisconsin, WI, USA Madison (Richard J. Davidson, Ph.D.)

Faculty Academic Appointments:

2002-2006 Assistant Professor, Department of Psychology, Harvard University

2006-2010 John and Ruth Hazel Associate Professor of the Social Sciences, Department of

Psychology, Harvard University

2010-2014 Associate Professor of Psychiatry, Department of Psychiatry, Harvard Medical School

2014- Professor of Psychiatry, Department of Psychiatry, Harvard Medical School

Appointments at Hospitals/Affiliated Institutions:

1992-1994 Research Assistant, Institute for Biological Psychology, University of Zurich,

Switzerland (Director: Norbert Bischof, Ph.D.)

1994-1997 Associate Research Specialist, EEG/EP-Mapping Laboratory, Department of Neurology,

University Hospital, Zurich (Director: Dietrich Lehmann, MD)

1995-1997 Clinical and Research Specialist, Neuropsychological Unit, Department of Neurology,

University Hospital, Zurich (Director: Marianne Regard, Ph.D.)

2009- Faculty Affiliate, Center for Brain Science, Harvard University, Cambridge, MA

2010- Psychologist, McLean Hospital, Belmont, MA

2011- Faculty Affiliate, Program in Neuroscience, Harvard Medical School, Boston, MA

Major Administrative Leadership Positions:

Local	
2002-2010	Director, Affective Neuroscience Laboratory, Department of Psychology, Harvard University
2010-	Director, Center for Depression, Anxiety and Stress Research, McLean Hospital
2010-	Director, McLean Imaging Center, McLean Hospital
2010-	Director, Laboratory for Affective and Translational Neuroscience, McLean Hospital
2015-	Director of Research, Division of Depression and Anxiety, McLean Hospital
<u>National</u>	
2011	Invited Moderator, National Institute of Mental Health (NIMH) Research Domain Criteria (RDoC) Project, "Positive Valence Systems" Workshop
2012-	National Institute of Mental Health (NIMH), National Advisory Mental Health Council, Workgroup on Targets and Compounds for FAST Clinical Trial Contracts
2015	Planning Committee, Institute of Medicine, Forum on Neuroscience and Nervous System Disorders, <i>Enabling Drug Development, Discovery, and Translation for Cognitive Dysfunction in Depression</i> (Chairs: Thomas Insel and Thomas Laughren)
2015	Organizer and Chair, <i>Beyond Monoamines: Towards New Conceptualizations and Treatments for Major Depression</i> , Radcliffe Institute for Advanced Study, Harvard University, August 20-21, 2015.
2016	Panelist, Foundation for the National Institutes of Health, <i>Consensus Workshop on Standardization of Reward Processing Tasks</i> , Bethesda, Maryland, February 18-19, 2016.
2016	Chair, Positive Valence Systems Subgroup, National Institute of Mental Health Council Workgroup, <i>Council Workgroup on Tasks and Measures for RDoC</i> , Bethesda, Maryland, April 5-6, 2016.
2017	Invited Panelist, <i>Computational Psychiatry: Opportunities and Challenges for the Future</i> , NIMH Office of Director, Bethesda, MD, June 26-27, 2017.

Committee Service

Local 2002/2003, 2003/2004	Co-chair for Organization of Departmental Colloquium, Department of Psychology, Harvard University
2002/2003, 2006/2007, 2008/2009	Committee on Higher Degrees, Department of Psychology, Harvard University
2002/2003, 2003/2004, 2005/2006	Junior Faculty Search in Psychopathology, Department of Psychology, Harvard University
2003/2004	Chair, Research Seminar in Experimental Psychopathology/Clinical Psychology,

2005/2006 2006/2007	Department of Psychology, Harvard University
2005/2006	Committee on Undergraduate Instruction, Department of Psychology, Harvard University
2006/2007	Curriculum Committee, Department of Psychology, Harvard University
2006-2007	William James Hall IT Consortium, Department of Psychology, Harvard University
2008-2009	Standing Committee on the Use of Human Subjects in Research, Harvard University
2008/2009	Co-chair, Research Seminar in Clinical Science, Department of Psychology, Harvard University
2007/2008	Senior Associate, Psychology of Conflict Research Group, International Negotiation Initiative, Harvard Law School (Director: Daniel Shapiro)
2010-	Research Vision Committee, McLean Hospital
2010-	Research Committee, McLean Hospital
2010-2015	Center for Depression, Anxiety and Stress Speaker Series, McLean Hospital, Chair
2010-2015	Neuroimaging Center Speaker Series, McLean Hospital, Chair
2010-	McLean Fellowship Advisory Committee, McLean Hospital
2011-	9.4T Steering Committee, McLean Hospital
2011-	Review Committee, McLean Research Day, McLean Hospital
2011-	Committee on Academic Integrity, McLean Hospital
2011-	Chair, Faculty Search, Center for Depression, Anxiety and Stress Research, McLean Hospital
2012-	Letters of Evaluation for Academic Promotions: Harvard Medical School (MGH)
2012-	Division Chief's Council, McLean Hospital
2012-2014	Clinical Research Committee, McLean Hospital
2013-2014	Neuroscience Seminar Series Committee, McLean Hospital
2013-	EE Lab Steering Committee, McLean Hospital
2015-	McLean Committee on Diversity and Inclusion
2015-2018	Standing Committee on Promotions, Reappointments, and Appointments, Harvard Medical School (reviews of promotion cases to Assistant and Associate Professors)
2016 -	HMS Full Professor Search Committee (2016: Psychiatry Dep.; 2018: Radiology Dep.)
2018-2020	President's Cabinet, McLean Hospital
2018-	McLean Academic Steering Committee, McLean Hospital
2019-2020	Subcommittee of Professors, Harvard Medical School (reviews of promotion cases to Full Professors)
National	
2010-2013	Research Domain Committee, National Network of Depression Centers
2011	Early Career Award (Psychopathology area) Committee, American Psychological Association
2012-	Letters of Evaluation for Academic Promotions: Northwestern University, New York

	University, UCSD	
2014	2014 NNDC Conference Program Committee, National Networks of Depression Center	
2017-	Scientific Advisor, American Foundation for Suicide Prevention	
2018	Ad-hoc reviewer, NIMH Board of Scientific Counselors	
<u>International</u>		
2015	Academic Advisory Committee, Wolfe Health Neuroscience Fellowship in the Neurobiology of Human Vulnerability and Resilience	
2016	Else Kröner-Fresenius-Stiftung (Reviewer)	
2019	Invited Nominator, Nobel Prize in Physiology or Medicine 2019, Nobel Committee, Assembly, Karolinska Institutet.	
2019	Reviewer, Oxford Health Biomedical Research Centre, Oxford University	
Professional	Societies	
2001-	International Society for Brain Electromagnetic Topography (ISBET), Member	
2003-	Society for Psychophysiological Research, Member	
	2008-2011: Early Career Award Committee	
2004-	American Psychological Society, Member	
2004-	Society of Biological Psychiatry, Member	
	2013-present: Mentee/Mentor Program	
	2015-2017: Program Planning Committee	
2004-2013	Society for Neuroscience, Member	
2004-	Society for Research in Psychopathology	
	2010-2014: Executive Board Member	
	2012: Early Career Award Committee	
2006 2000	2016: Chair, Smadar Levin Award Committee	
2006-2008	Emotion Research Group	
2012-	American College of Neuropsychopharmacology (ACNP)	
	2012-2017: Member	
	2017-2020: Membership Committee 2017-2018: Member	
	2017-2018: Member 2019: Co-chair	
	2019. Co-chair 2020: Chair	
	2016, 2017 Education and Training (Mentor)	
	2018-present: Fellow	
2013-	Anxiety and Depression Association of America (ADAA)	
2013- Alixiety and Depression Association of America (ADAA) 2014-2017: Scientific Council		
2015: Chair, Scientific Research Symposium, "Neural Circuita		
the Intersection and Divergence of Depression and Anxiety"		
	2015-present: Mentee/Mentor Program	

Grant Review	v Activities
2000	Reviewer, Wellcome Trust and the Higher Education Funding Council, England, Joint Infrastructure Fund
2001	Reviewer, National Science Foundation, USA
2003	Outside Reviewer, Intramural Program, National Institute of Mental Health
2004, 2005	Reviewer, Building Translational Research in Behavioral Science (ZMHI-NRB-Q 07), National Institute of Mental Health (NIMH/NIH)
2006	Study Section Member, NIH Adult Psychopathology and Disorders of Aging Study Section, National Institute of Mental Health (NIMH/NIH)
2008	Reviewer, Society in Science (The Branco Weiss Fellowship), Swiss Federal Institute of Technology Zurich
2011	Reviewer, Special Emphasis Panel, Basic Research on Self-Regulation (R21), <i>Biobehavioral & Behavioral Processes IRG</i> (ZRG1 BBBP-L(53), National Institute of Mental Health (NIMH/NIH)
2011	Reviewer, Integrated Discovery System Projects, Ontario Brain Institute (OBI), Toronto, Ontario, Canada.
2012	Reviewer, Harvard Catalyst Advanced Imaging Pilot Research Grants and Concept Development Awards Program, Harvard Clinical and Translational Science Center, Harvard University
2013	Reviewer, NIH Director's Transformative Research Awards (R01) (ZRG1-BCMB-A 51R), National Institute of Health (NIH)
2013	Reviewer, Mechanistic Research on CAM Natural Products (R01), Center for Complementary and Alternative Medicine (NCCAM/NIH)
2013	Co-Chair, Advancing Eating Disorders Research through Dimensional Studies of Biology and Behavior (RFA-MH-14-030), National Institute of Mental Health (NIMH/NIH)
2014	Reviewer, <i>Member-Conflict Applications MESH and CPDD</i> , ZRG1 BBBP-V (02), National Institute of Mental Health (NIMH/NIH)
2015	Reviewer, Dimensional Approaches to Research Classification in Psychiatric Disorders (RDoC), ZMH1 ERB-S (03), National Institute of Mental Health (NIMH/NIH)
2015	Oscar Stern Award, University of Michigan Depression Center
2015	Reviewer, Consortium on Biomarkers and Outcome Measures in Autism Spectrum Disorder (RFA-MH-15-800), National Institute of Mental Health (NIMH/NIH)
2015	Co-Chair, Silvio O. Conte Centers for Basic or Translational Mental Health Research (P50)
2016	NIH Director's Early Independence Awards (DP5) (Stage 1 Reviewer) (April and December 2016)
2017, 2018, 2019	Grant Reviewer, American Foundation for Suicide Prevention
2017	Reviewer, Special Emphasis <i>Member Conflict: Emotion, Substance Use, and Psychopathology</i> , ZRG1 BBBP-J 02, National Institute of Mental Health (NIMH/NIH)
2019	Reviewer, Development of Psychosocial Therapeutic and Preventive Interventions for

Mental Disorders, ZMH1 ERB-D (04) S, National Institute of Mental Health (NIMH/NIH) (Special Emphasis Panel, February 2019)

2020 Reviewer, Computational Approaches for Validating Dimensional Constructs of

Relevance to Psychopathology, RFA-MH-19-242, National Institute of Mental Health

(NIMH/NIH), March 2020.

Editorial Activities

2002 2000 October Description October Description		
2002, 2009	Outside Reviewer, Oxford University Press	
2003	Outside Reviewer, MIT Press	
2004	Outside reviewer, Allyn & Bacon [revision of Butcher/Mineka/Hooley, <i>Abnormal Psychology</i> , 13th ed.]	
2006-2011	Consulting Editor, <i>Emotion</i>	
2007-	Consulting Editor, Cognitive, Affective and Behavioral Neuroscience	
2009-	Advisory Board, Swiss Journal of Psychology	
2010-	Editorial Board, CNS Spectrums	
2010-2015	Editorial Board, Biology of Mood & Anxiety Disorders	
2012	Outside Reviewer, Gross, J.J. (Ed.) (2014). <i>Handbook of Emotion Regulation</i> (2nd ed.). New York, NY: Guilford Press.	
2012-2016	Editorial Board, Journal of Abnormal Psychology	
2012-	Editorial Board, Neuroscience and Biobehavioral Reviews	
2012-	Editorial Board, Depression and Anxiety	
2013-	Editorial Board, Neuropsychopharmacology	
2013-	Editorial Board, Psychological Medicine	
2013-	Field Editor, Harvard Review of Psychiatry	
2015	Guest Editor, Special Issue "Psychobiology of the Intersection and Divergence of Depression and Anxiety", <i>Depression and Anxiety</i>	
2016-	Editorial Board, Biological Psychiatry	
2016-	Editorial Board, Computational Psychiatry	
2019-	Editorial Board, Biological Psychiatry: Cognitive and Clinical Neuroscience	
2019-	Editorial Board, Affective Science	
2018-2019	Guest Editor, Special Issue, "Depression: Harnessing Biology and Technology for the Next Generation of Treatment", <i>Harvard Review of Psychiatry</i>	
2020-	The American Journal of Psychiatry	

Ad hoc Reviewer

Total Numbers of Journals:N = 125Total Numbers of Reviews Performed since 1998:N = 718Average reviews/year over past 10 years:N = 54/year

Acta Psychiatrica Scandinavica; Acta Psychologica; Addiction; Aging and Mental Health; American Journal of Psychiatry; Archives of General Psychiatry; Assessment; Behavior Genetics; Behavior Therapy; Behavioral Neuroscience; Behaviour Research and Therapy; Behavioural Brain Research;

Biological Psychiatry; Biological Psychiatry: Cognitive Neuroscience and Neuroimaging; Biological Psychology; Biology of Mood & Anxiety Disorders; Brain; Brain & Cognition; Brain Imaging and Behavior; British Journal of Psychiatry; Brain Research; Cerebral Cortex; Clinical Neurophysiology; Clinical Psychological Science; CNS Neuroscience & Therapeutics; CNS Spectrums; Cognitive, Affective, and Behavioral Neuroscience; Cognitive Brain Research; Cognitive Neurodynamics; Cognitive Neuropsychiatry; Cognitive Therapy and Research; Cognition & Emotion; Comprehensive Psychiatry; Computational Psychiatry; Computer Methods and Programs in Biomedicine; Current Opinion in Behavioral Sciences; Current Psychiatry Reviews; Depression and Anxiety; Development and Psychopathology; Developmental Science; Emotion; Emotion Review; European Journal of Neuroscience; European Neuropsychopharmacology; European Child & Adolescent Psychiatry; European Psychiatry; Experimental Brain Research; Experimental & Clinical Psychopharmacology; Frontiers in Human Neuroscience; Frontiers in Language Sciences; Frontiers in Psychiatry; Genes, Brain and Behavior; Harvard Review of Psychiatry; Human Brain Mapping; International Journal of Neuropsychopharmacology; International Journal of Psychophysiology; JAMA Network Open; JAMA Psychiatry; Journal of Abnormal Psychology; Journal of Addiction Medicine; Journal of Affective Disorders; Journal of Clinical Child and Adolescent Psychology; Journal of Child Psychology and Psychiatry; Journal of Clinical Psychiatry; Journal of Clinical Psychopharmacology; Journal of Cognitive Neuroscience; Journal of Consulting and Clinical Psychology; Journal of Experimental Psychology: General; Journal of Experimental Psychology: Learning, Memory, and Cognition; Journal of Behavior Therapy and Experimental Psychiatry; Journal of Neuroimaging; Journal of Neurophysiology; Journal of Neuroscience; Journal of Personality and Social Psychology; Journal of Psychopharmacology; Journal of Psychopathology and Behavioral Assessment; Journal of Psychiatric Research; Journal of Psychiatry and Neuroscience; Lancet Psychiatry; Molecular Psychiatry; Nature Human Behaviour; Nature Neuroscience; Nature Reviews Neuroscience; Neurobiology of Disease; NeuroImage; Neuron; Neuropsychobiology; Neuropsychologia; Neuropsychology; Neuropharmacology; Neuropsychopharmacology; NeuroReport; Neuroscience; Neuroscience & Biobehavioral Reviews; Neuroscience Letters; Neuroscience Research; Personality & Individual Differences; Perspectives on Psychological Science; Pharmacology & Therapeutics; Physiology & Behavior; PLOSOne; PLOS Computational Biology; Proceedings of the National Academy of Sciences: Psychiatry and Clinical Neurosciences: Psychiatry Research: Psychiatry Research: Neuroimaging; Psychological Medicine; Psychological Review; Psychological Science; Psychoneuroendocrinology; Psychopharmacology; Psychophysiology; Schizophrenia Research; Science; Scientific Reports; Social Cognitive and Affective Neuroscience; Stress and Health; Swiss Journal of Psychology; The FASEB Journal; The Pharmacogenomics Journal; The World Journal of Biological Psychiatry; Translational Psychiatry; Trends in Cognitive Sciences; Trends in Neurosciences

Second (2014, 2015) and Fifth (2018) Top Reviewer for *Neuropsychopharmacology* Top 10 Reviewer for *Biological Psychiatry* (2014, 2016, 2017, 2018, 2019) Top 10 Reviewer for *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging* (2016)

Honors and Prizes

1988 Award from the Foundation "Swiss Youth and Science", Section

Mathematics/Informatics

1999, 2000 Swiss National Science Foundation Fellowship
 2003 William F. Milton Fund Award, Harvard University

2003, 2005, 2009	Clark Fund Award, Harvard University
2004, 2006, 2007, 2008	Honorable Mention, Everett S. Mendelsohn Excellence in Mentoring Award, Graduate School Council, Harvard University
2005, 2008	Talley Fund Award, Harvard University
2006	Merck Awards for Genome-Related Research, Harvard University
2006	Distinguished Scientific Award for an Early Career Contribution to Psychophysiology, Society for Psychophysiological Research
2006, 2008	Harvard/Robert Wood Johnson Health and Society Scholars Grant
2007	Hazel Chair
2007	Early Career Award, The EEG & Clinical Neuroscience Society
2008	NARSAD Independent Investigator Award
2011	William K. Warren Frontiers in Neuroscience Lecture, Laureate Institute for Brain Research, Tulsa, OK, USA
2012	Full Member, American College of Neuropsychopharmacology (ACNP)
2012	Kendon Smith Lecture Series, University of North Carolina at Greensboro, NC, USA
2015	Anne M. Cataldo Excellence in Mentoring Award, McLean Hospital
2016	Method to Extend Research in Time (MERIT) award, National Institute of Mental Health
2017	The Stuart T. Hauser, M.D. PhD. Mentorship Award in Psychiatry, Harvard Medical School
2017	Joel Elkes Research Award, American College of Neuropsychopharmacology
2018	Fellow, American College of Neuropsychopharmacology
2018	NARSAD Distinguished Investigator Award, Brain & Behavior Research Foundation
2019	Anna-Monika-Prize for Research in the Neurobiology and Treatment of Depressive Disorders, Anna-Monika-Foundation
2019	2019 Highly Cited Researcher (Web of Science) [Awarded to 0.1%, of the world's researchers across 21 research fields]

Report of Funded and Unfunded Projects

Past

01/01/98 – 12/31/99 Research Grant, Institut für Grenzgebiete der Psychologie und Psychohygiene,

Freiburg, Germany (grant #: 67 13 10; PI: Peter Brugger)

The Magical Brain: Neuronal Mechanisms Underlying Paranormal Belief

Role: Co-PI Direct costs: \$199,955

01/01/99 - 12/31/99 81ZH-52864

Swiss National Science Foundation Fellowship for Prospective Researchers Investigations of Emotional Processing and Style: Electroencephalographic

and Brain Imaging Studies

Role: PI Direct costs: \$35,000 01/01/99 - 12/31/00Research Grant, "Holderbank"-Stiftung zur Förderung der wissenschafttlichen Fortbildung Role: PΙ Direct costs: \$11,000 01/01/02 - 12/31/0281ZH-52864 Competitive Renewal, Swiss National Science Foundation Fellowship for Prospective Researchers Investigations of Emotional Processing and Style: Electroencephalographic and Brain Imaging Studies Role: PΙ Direct costs: \$38,000 01/01/03 - 12/31/03The Clark Fund, Harvard University Functional Neuroimaging Studies of Depression Role: Direct costs: \$6,000 01/01/03 - 12/31/04William F. Milton Fund, Harvard University Investigation of Affective Processing in Depression: Clues from Affective Neuroscience Role: PΙ Direct costs: \$34,943 06/07/04 - 04/30/091R01MH068376-01A1 (priority score: 121, percentile: 0.7) National Institute of Mental Health/NIH Neuroimaging Studies of Reward Processing in Depression Role: ΡI Direct costs: \$1,125,000 12/01/04 - 11/30/05GlaxoSmithKline The Effects of Acute Administration of Bupropion on Neural Substrates Underlying Hedonic Capacity in Depression: A Placebo-controlled, Singledose fMRI Study Role: PΙ Total costs: \$91,596 07/01/05 - 06/30/08Harvard University, Department of Psychology, Talley Fund Childhood Sexual and Physical Abuse as Predictor of Depression and Reward Processing in Young Adulthood: A Neuroimaging Approach Role: Direct costs: \$225,875 01/01/06 - 12/31/06The Clark Fund, Harvard University Behavioral and Electroencephalographic Predictors of Treatment Response in Depression Role: PI Direct costs: \$6,000 03/01/06 - 02/28/07Merck Awards for Genome-Related Research, Harvard University

Neurobiological Substrates Underlying Genetic Vulnerability to Depression: A Multi-level Approach Integrating Molecular Genetics and Neuroimaging

Role: PI Direct costs: \$20,000

06/01/06 - 12/31/06 GlaxoSmithKline

The Effects of Acute Administration of Bupropion on Neural Substrates Underlying Hedonic Capacity in Depression: A Placebo-controlled, Single-

dose fMRI Study
Role: PI
Total costs: \$27,519

07/01/06 – 08/31/07 Robert Wood Johnson Health and Society Scholars Grant

Early Adverse Events and Depression: A Neuroimaging Study Assessing the Effects of Childhood Maltreatment on Reward Processing in Young Adulthood

Role: PI Direct costs: \$29,874

07/01/06 - 06/30/08 1R21AT002974

National Center for Complementary & Alternative Medicine/NIH

The Effects of SAMe on Reward Circuitry in Depression

Role: PI Direct costs: \$250,000

09/01/06 – 08/31/07 Provost's Content Fund, #180 (with Craig Smith)

Provost's Instructional Technology Content Fund, Harvard University Abnormal Online: A Multimedia Exploration of Psychopathology

Role: Co-PI Direct costs: \$7,450

01/01/08 – 4/30/09 Robert Wood Johnson Health and Society Scholars Grant

Early Adverse Events and Depression: A Neuroimaging Study Assessing the Effects of Childhood Maltreatment on Reward Processing in Young Adulthood

Role: PI Direct costs: \$10,000

09/01/08 – 08/31/09 Harvard University, Department of Psychology, Talley Fund

Childhood Sexual and Physical Abuse as Risk Factors for Depression: A

Molecular Genetics Approach with a Focus on Anhedonia

Role: PI Direct costs: \$100,000

01/01/09 – 12/31/09 The Clark Fund, Harvard University

Neural Mechanisms of Emotion Dysregulation in Depression

Role: Co-PI Direct costs: \$6,000

09/23/09 – 06/30/09 ANT (Advanced NeuroTechnology) B.V., Enschede, Netherlands

Predicting Treatment Response in Depression

Role: PI Direct costs: \$6,000 11/01/09 – 10/31/10 Harvard Catalyst Pilot Grant

Toward a Neurobiological Understanding of Anhedonia in Major Depression

Role: PI Direct costs: \$49,976

06/01/08 – 03/31/11 1R21MH078979 (priority score: 115)

National Institute of Mental Health/NIH

Translational Measures of Anhedonia in Humans and Rats

Role: PI

Direct costs: \$275,000

09/15/08 – 09/14/11 NARSAD Independent Investigator Award

National Alliance for Research on Schizophrenia and Depression

The Effects of Acute Stress on the Neurobiology of Reward Processing in

Major Depressive and Bipolar Disorders

Role: PI

Direct costs: \$100,000

07/01/11 – 06/30/12 1U01MH010040-01 Supplement (Trivedi)

National Institute of Mental Health/NIH

Establishing Moderators/Biosignatures of Antidepressant Response-Clinical

Care (Supplement)

Role: Subcontract PI

Direct costs: \$26,530

07/01/10 – 06/28/15 7R01MH068376-07 (Pizzagalli) (priority score: 14)

National Institute of Mental Health/NIH

Neuroimaging Studies of Reward Processing in Depression

Role: P

Direct costs: \$2,035,842

10/01/10 – 09/30/14 1U01MH010040-01 (Trivedi)

National Institute of Mental Health/NIH

Establishing Moderators/Biosignatures of Antidepressant Response-Clinical

Care

Role: Subcontract PI Direct costs: \$411,992

Direct 603t3. \$\psi +11,572

06/01/12 - 02/28/15

3R01MH068376-09S1 (Pizzagalli) National Institute of Mental Health/NIH

Neuroimaging Studies of Reward Processing in Depression (Supplement)

Role: PI Direct costs: \$83,126

07/01/15 – 06/30/16 1U01MH092221 (Trivedi)

National Institute of Mental Health/NIH

Establishing Moderators/Biosignatures of Antidepressant Response-Clinical

Care

Role: PI Direct costs: \$98,628 02/29/12 - 02/28/17W81XWH-12-1-0109 (Rauch, Killgore, Pizzagalli) **USAMRAA** Internet Based Cognitive Behavioral Therapy Effects on Depressive Cognitions and Brain Function Co-PI Role: Direct costs: \$1,646,035 Contract HHSN271201100061 (Fava) 09/15/13 - 04/30/17National Institute of Mental Health/NIH Double-Blind, Placebo-Controlled, Proof-of Concept (POC) Trial of LY2456302, a Kappa-Selective Opioid Receptor Antagonist, Augmentation of Antidepressant Therapy in Treatment-Resistant Depression (TRD) Role: Sub-contract PI Direct costs: \$21,958 (McLean Hospital subcontract) 09/18/12 - 05/31/171R01MH095809-01A1 (Pizzagalli) (priority score: 10) National Institute of Mental Health/NIH Early Life Stress and Depression: Molecular and Functional Imaging Approaches Role: PΙ Direct costs: \$1,636,789 09/01/14 - 08/31/17Tommy Fuss Fund Toward Identification of Genetic and Neural Predictors of Adolescent Depression Role: Co-PI (with Randy Auerbach) Direct costs: \$86,956 08/15/15 - 05/31/171R01MH095809-03S1 (Pizzagalli) Supplement National Institute of Mental Health/NIH Early Life Stress and Depression: Molecular and Functional Imaging Approaches Role: PΙ Direct costs: \$98,628 04/01/13 - 03/30/181R01MH100350-01 (Normandin) National Institute of Mental Health/NIH Combined PET and fMRI Imaging of Dopamine and Serotonin Responses in Depression Role: Sub-contract PI Direct costs: \$107,771 (McLean Hospital subcontract) 01/01/14 - 6/30/18Clinical Neuroscience Research Grant Program (Pizzagalli, Auerbach) Dana Foundation Towards Identification of Neural Predictors of Adolescent Depression: A Multi-Modal Neuroimaging Study Role: ΡI Direct costs: \$299,427

R21 MH105775-01 (Kumar) [NCE]

07/01/15 - 06/30/18

National Institute of Mental Health/NIH

Influence of GABA on Reinforcement Learning in Individuals with Current and

Remitted Depression

Role: Co-investigator

Direct costs: \$275,000

09/01/13 – 08/31/18 1R01MH101521 (Pizzagalli) [NCE]

National Institute of Mental Health/NIH

Multi level Analysis of Positive Valence Systems Across Mood Disorders

Role: PI

Direct costs: \$1,589,524

08/01/13 – 07/31/18 1R01MH101521 (Schneier) [NCE]

National Institute of Mental Health/NIH

Ventrostriatal Dopamine Release and Reward Motivation in MDD

Role: Sub-contract PI

Direct costs: \$178,740 (McLean Hospital subcontract)

09/26/17 – 09/25/18 HHSN271201700776P (Germine)

National Institute of Mental Health/NIH

TestMyBrain Design Consulting for Research Domain Criteria Field Test

Battery

Role: Co-investigator

Direct costs: \$91,447

07/01/14 – 03/31/19 1R01 DA036032 (Gilbert)

National Institute of Drug Abuse/NIH Predictors of Light Smoker Trajectories

Role: Sub-contract PI

Direct costs: \$151,959 (McLean Hospital subcontract)

Current

09/18/15 – 06/30/20 1R01MH102279 (Cusin, Fava, Pizzagalli)

National Institute of Mental Health/NIH

Neurobiological Underpinnings of Placebo Response in Depression

Role: Multiple PI

Direct costs: \$751,405 (McLean Hospital subcontract)

04/01/16 – 03/31/21 1 U01 MH108168 (Gabrieli, Whitfield-Gabrieli)

National Institute of Mental Health/NIH

Connectomes Related to Human Disease (U01)

Role: Subcontract PI

Direct costs: \$354,184 (McLean Hospital subcontract)

12/01/15 – 11/30/20 R01 DK104772 (Holsen)

National Institute of Diabetes and Digestive and Kidney Diseases/NIH *Ghrelin Modulation of Mesolimbic Reward Signaling in Stress-induced*

Hyperphagia

Role: Subcontract PI

Direct costs: \$60,490 (McLean Hospital subcontract)

10/01/15 - 09/30/19Tommy Fuss Fund Identifying Neural Markers that Predict Depression in Adolescence Role: Co-PI (with Randy Auerbach) Direct costs: \$240,000 04/01/16 - 03/31/20UH2/UH3 MH109334-01 (Pizzagalli) National Institute of Mental Health/NIH Novel Cross-Species Neurophysiological Assays of Reward and Cognitive Domains Role: ΡI Direct costs: \$1,953,411 2R01MH068376-14 (Pizzagalli) [recoded as MERIT award, 2R37MH068376] 04/28/16 - 02/28/21National Institute of Mental Health/NIH Neuroimaging Studies of Reward Processing in Depression Role: Direct costs: \$2,497,470 08/10/16 - 04/30/215R01MH108602 (Pizzagalli, Goldstein) National Institute of Mental Health/NIH Sex specific GABA Stress Circuitry and Hedonic Deficits in Depression Role: Multiple PI Direct costs: \$2,701,504 01/01/17 - 12/31/19Richard Saltonstall Charitable Foundation (Pizzagalli, Whitton) Using Reward-Based Biomarkers to Detect Genetic Risk for Bipolar Disorder Role: Co-PI Direct costs: \$50,000 01/01/18 - 12/31/19Richard Saltonstall Charitable Foundation (Pizzagalli, Whitton) Identifying Abnormalities in Brain Structure Associated with Genetic Risk for Bipolar Disorder Role: Co-PI Direct costs: \$50,000 09/15/18 - 09/14/19NARSAD Distinguished Investigator Award, Brain & Behavior Research Foundation (Pizzagalli) (grant #: 26950) Beyond Monoamines: The Role of the Nociceptin/Orphanin FQ Receptor in Major Depression Role: ΡI Direct costs: \$92,591 06/01/18 - 04/30/201R61MH116089 (Schneier) National Institute of Mental Health/NIH Gaze-contingent Music Reward Therapy for Social Anxiety Subcontract PI Direct costs: \$231,779 (McLean subcontract) 07/01/18 - 06/30/19Partners Innovation Discovery Grant (Webb, Pizzagalli) Partners HealthCare

Development of a Machine Learning Algorithm-guided Approach to Treatment

Selection for Depressed Patients

Role: Co-PI Direct costs: \$50,000

02/15/19 - 03/31/24R01 MH116205-A1 (MPI: Misra, Eddy)

National Institute of Mental Health/NIH

The Role of Estrogen in the Neurobiology of Eating Disorders: A Study of

Cognitive Flexibility and Reward in Eating Disorders

Role: Subcontract PI

Direct costs: \$724,961 (McLean subcontract)

3 U01 MH108168-04S (Gabrieli J., Whitfield-Gabrieli S.) 03/26/19 - 06/30/20

National Institute of Mental Health/NIH

Connectomes Related to Anxiety and Depression in Adolescents

Role: Subcontract PI

Direct costs: \$41,664 (McLean subcontract)

01/01/20 - 12/31/20Richard Saltonstall Charitable Foundation (Pizzagalli)

Toward Novel Antidepressant Targets for Major Depression: Focus on

Nociceptin/Orphanin FO Receptors

Role: PΙ

Direct costs: \$100,000

Awards/Grants to Mentees

Past (as primary mentor)

09/01/06 - 09/1/071 F31 MH074246 (Christen M. Deveney)

National Institute of Mental Health/NIH

An ERP Analysis of Cognition After Emotion Regulation Primary Mentor (pre-doctoral fellowship) Role:

Direct costs: \$27,124

1 F31 MH078346 (Avram J. Holmes) 04/01/07 - 06/30/08

National Institute of Mental Health/NIH

Action Monitoring in Depression: ERP and fMRI Correlates Primary Mentor (pre-doctoral fellowship)

Direct costs: \$35,173

12/01/08 - 08/31/101 F32 MH081394 (Daniel G. Dillon)

National Institute of Mental Health/NIH

Emotion Regulation in Depression: Neural Bases of Reappraisal

Primary Mentor (post-doctoral fellowship) Role:

Direct costs: \$88,361

01/01/10 - 12/31/11NARSAD Young Investigator Award (Daniel G. Dillon)

> National Alliance for Research on Schizophrenia and Depression *Toward a Functional Dissection of Anhedonia in Major Depression:* Dissociating Decision-making Deficits from Reward Insensitivity

Primary Mentor Role:

Direct costs: \$59,530

07/01/11 – 06/30/12 The Adam Corneel Young Investigator Award (Randy P. Auerbach)

McLean Hospital/Harvard Medical School

Project ADAPT: Examining the Efficacy of an Investigatory Group Treatment

for Adolescent Depression
Role: Primary Mentor

Total costs: \$20,000

02/1/12 – 01/31/13 The O'Keefe Family Junior Investigator Award For Excellence In Imaging

Research (Pechtel)

McLean Imaging Center, McLean Hospital

Neural Substrates of Emotion Dysregulation and High-Risk Behavior in

Adolescents with a History of Childhood Sexual Abuse

Role: Primary Mentor

Direct costs: \$7,900

07/01/12 – 06/30/13 Kaplen Fellowship on Depression (Auerbach)

Department of Psychiatry, Harvard Medical School

The Neural Underpinnings Associated with Reward Dysfunction in Adolescent

Depression

Role: Primary Mentor

Direct costs: \$72,414

07/01/12 - 06/30/13 Livingston Fellowship Award (Kumar)

Department of Psychiatry, Harvard Medical School

Social Reinforcement Learning and Depression: An fMRI Study

Role: Primary Mentor

Direct costs: \$5,000

07/01/12 – 06/30/13 The Adam Corneel Young Investigator Award (Treadway)

McLean Hospital/Harvard Medical School

Neuroinflammatory Mechanisms of Stress-induced Anhedonia

Role: Primary Mentor

Direct costs: \$19,188

04/1/12 - 03/31/14 K99MH094438 (Dillon)

National Institute of Mental Health/NIH

Neuroscience of Reward-related Learning and Memory in Depression

Role: Primary Mentor

Direct costs: \$691,049 (K phase: \$167,964)

01/15/13 – 01/14/15 Brain & Behavior Research Foundation (formerly NARSAD) Young

Investigator Award (Kumar)

Neurobiology of Reward and Punishment Learning in Major Depressive

Disorder

Role: Primary Mentor

Direct costs: \$59,977

01/15/13 – 01/14/15 Brain & Behavior Research Foundation (formerly NARSAD) Young

Investigator Award (Pechtel)

Depression and Reward Responsiveness in Adolescents with a History of

Childhood Sexual Abuse
Role: Primary Mentor

Direct costs: \$59,977

01/15/13 – 01/14/15 Brain & Behavior Research Foundation (formerly NARSAD) Young

Investigator Award (Reich)

Neuroimaging of Affective Instability in BPD/BP II

Role: Primary Mentor

Direct costs: \$59,952

01/15/13 - 01/14/16 F32 MH099801-01 (NRSA) (Webb)

National Institute of Mental Health/NIH

Investigating Neural and Psychotherapeutic Mediators of Placebo Response in

MDD

Role: Primary Mentor

Direct costs: \$150,407

07/01/13 – 06/30/14 The Adam Corneel Young Investigator Award (Roee Admon)

Neural Networks Mediating Acute and Sustained Positive Mood Deficits in

Depression

Role: Primary Mentor

Direct costs: \$20,000

07/01/13 – 06/30/15 Klingenstein Third Generation Fellowship Award in Depression (Auerbach)

Predicting Adolescent Major Depressive Disorder: A Multimodal Brain

Imaging Approach

Role: Primary Mentor

Direct costs: \$60,000

12/26/13 – 11/30/15 1K99MH102355-01 (Treadway)

National Institute of Mental Health/NIH

Stress and MDD Effects on mPFC Glutamate and GABA During Reward

Processing

Role: Primary Mentor

Direct costs: \$708,000

01/15/14 – 01/14/16 Brain & Behavior Research Foundation (formerly NARSAD) Young

Investigator Award (Admon)

Neural Networks Mediating Acute and Sustained Positive Mood Deficits in

Depression

Role: Primary Mentor

Direct costs: \$59,991

01/15/14 – 01/14/16 Brain & Behavior Research Foundation (formerly NARSAD) Young

Investigator Award (Treadway)

Assessment of Neuroinflammation and Reward Processing Dysfunction in

Depression with Simultaneous PET and fMRI

Role: Primary Mentor

Direct costs: \$59,402

07/01/14 - 06/30/15 The Phyllis and Jerome Lyle Rappaport Mental Health Research Fellowship

(Ashlee Van'T Veer)

McLean Hospital/Harvard Medical School

Reward Responsiveness and Cognitive Control in Individuals with a History of

Depression

Role: Primary Mentor Direct costs: \$35,000 (withdrawn)

09/01/14 – 08/31/17 1 F32 MH106256 (Ashlee Van'T Veer)

National Institute of Mental Health/NIH

Investigating Neurobiological and Behavioral Effects of Stress on Reward

Processing in Depression
Role: Primary Mentor

Direct costs: \$167,451 (withdrawn)

07/1/14 – 06/30/15 Andrew P. Merrill Memorial Research Fellow Award (Whitton)

McLean Hospital/Harvard Medical School

Neural Processes Underpinning Differences in Sensitivity to Temporal Variation in Reward: Moving Towards a Biomarker of Impulsivity that May

Distinguish Bipolar from Unipolar Depression

Role: Primary Mentor

Direct costs: \$15,217

07/01/14 – 06/30/15 The Phyllis and Jerome Lyle Rappaport Mental Health Research Fellowship

(Kaiser)

McLean Hospital/Harvard Medical School

Neural Network Dysfunction in Teen Depression: Temporal Dynamics and

Behavioral Correlates

Role: Primary Mentor

Direct costs: \$25,379

07/01/14 - 06/30/15 Sir Keith Murdoch Fellowship (Whitton)

American Australian Association

Neurobiological Predictors of (Hypo)mania in Individuals Seeking Treatment

for Depression

Role: Primary Mentor

Direct costs: \$32,000

07/01/15 – 06/30/16 Kaplen Fellowship on Depression (McGrath)

Department of Psychiatry, Harvard Medical School

Brain Correlates of Abnormal Approach-Avoidance Behaviors in Major

Depression

Role: Primary Mentor

Direct costs: \$71,000

07/01/15 – 06/30/16 Livingston Fellowship Award (McGrath)

Department of Psychiatry, Harvard Medical School

Brain Correlates of Abnormal Approach-Avoidance Behaviors in Major

Depression

Role: Primary Mentor

Direct costs: \$5,500

03/01/15 – 11/23/16 1F32MH106262 (Kaiser)

National Institute of Mental Health/NIH

Temporal Dynamics of Neural Network Dysfunction in Depression

Role: Primary Mentor

Direct costs: \$178,603

07/01/15 – 06/30/16 The Adam Corneel Young Investigator Award (Webb)

McLean Hospital/Harvard Medical School

Predicting Future Depressive Symptoms in Adolescents: A Multi-Modal

Approach

Role: Primary Mentor

Direct costs: \$19,184

07/01/15 – 06/30/16 Eleanor & Miles Shore HMS Fellowship (Kumar)

McLean Hospital/Harvard Medical School

The Relationship between Reinforcement Learning Abnormalities and the

Emergence of Depressive Symptomology

Role: Primary Mentor

Direct costs: \$26,087

04/01/13 – 03/30/17 1 K23 MH097786-01A1 (Auerbach)

National Institute of Mental Health/NIH

Examination of Reward Processing in the Treatment of Adolescent Major

Depression

Role: Primary Mentor

Direct costs: \$791,450

07/01/15 – 06/30/17 Klingenstein Third Generation Fellowship Award in Depression (Webb)

Towards Reward-Related Biomarkers of Adolescent Depression Vulnerability

Role: Primary Mentor

Direct costs: \$60,000

01/01/16 – 12/31/17 NHMRC CJ Martin Early Career Biomedical Fellowship (Whitton)

National Health and Medical Research Council

Using Reward-based Biomarkers to Improve the Early Detection of Bipolar

Disorder in Individuals Seeking Treatment for Depression

Role: Primary Mentor

Direct costs: \$258,040

01/01/16 - 12/31/17 R.G. Menzies Award (Whitton)

National Health and Medical Research Council

Using Reward-based Biomarkers to Improve the Early Detection of Bipolar

Disorder in Individuals Seeking Treatment for Depression

Role: Primary Mentor

Direct costs: \$63,409

01/15/16 – 01/14/18 Brain & Behavior Research Foundation (formerly NARSAD) Young

Investigator Award (Kumar)

Influence of GABA on reinforcement learning in individuals with major depression

Role: Primary Mentor

Direct costs: \$69,990

01/15/16 – 01/14/18 Brain & Behavior Research Foundation (formerly NARSAD) Young

Investigator Award (Webb)

Predicting Future Depressive Symptoms in Adolescents: A Multi-Modal

Approach

Role: Primary Mentor

Direct costs: \$70,000

01/15/16 – 01/14/18 Brain & Behavior Research Foundation (formerly NARSAD) Young

Investigator Award (Whitton)

Examining the Relationship Between Resting Glutamate, Corticostriatal Connectivity and Delay Discounting: Identifying Potential Predictors of

(Hypo)mania in Depressive Disorders

Role: Primary Mentor

Direct costs: \$69,894

09/25/15 – 08/31/19 1K23MH108752 (Webb)

National Institute of Mental Health/NIH

Examining Reward-Related Predictors and Mechanisms of Change in BA

Treatment for Anhedonic Adolescents

Role: Primary Mentor

Direct costs: \$591,471

01/15/17 – 01/14/19 Brain & Behavior Research Foundation (formerly NARSAD) Young

Investigator Award (Kaiser)

Neurocognitive Phenotyping of Mood Disorders

Role: Primary Mentor

Direct costs: \$69,394 [transferred to UCLA]

07/01/17 – 06/30/19 Kaplen Fellowship on Depression (Belleau)

Department of Psychiatry, Harvard Medical School

Bouncing back from stress in adolescent depression: Investigating aberrant

resting state connectivity in the aftermath of stress

Role: Primary Mentor

Direct costs: \$73,670

07/01/17 – 06/30/19 Livingston Fellowship Award (Belleau)

Department of Psychiatry, Harvard Medical School

Bouncing back from stress in adolescent depression: Investigating aberrant

resting state connectivity in the aftermath of stress

Role: Primary Mentor

Direct costs: \$4,800

Current (as primary mentor)

07/01/17 – 06/30/20 The Adam Corneel Young Investigator Award (Belleau)

McLean Hospital/Harvard Medical School

Recovery from stress in adolescent depression: Investigating abnormal stress-related resting state connectivity changes

Role: Primary Mentor

Total costs: \$20,000

03/01/18 – 2/29/20 F32MH115530 (Peckham)

National Institute of Mental Health/NIH

A Randomized Controlled Trial of Cognitive Control Training For Urgency in

A Naturalistic Clinical Setting
Role: Co-Sponsor
Direct costs: \$179,170

05/01/18 – 04/30/20 Klingenstein Third Generation Fellowship Award in Depression (Belleau)

Neural Underpinnings of Acute Stress and Stress Recovery in Adolescent

Depression

Role: Primary Mentor

Direct costs: \$60,000

08/01/18 – 07/31/19 Dorris Translational Research Pilot Award, McLean Hospital (Ang)

Cognitive Effort-based Decision Making and Motivational Anhedonia in Major

Depressive Disorder

Role: Primary Mentor

Direct costs: \$5,217

08/01/18 – 07/31/19 Dorris Translational Research Pilot Award, McLean Hospital (Kumar)

Translational Approach to Understanding the Neurobiology of Reinforcement

Learning in Depression
Role: Primary Mentor

Direct costs: \$10,434

01/15/19 – 01/14/21 Brain & Behavior Research Foundation (formerly NARSAD) Young

Investigator Award (Webb)

Matching depressed patients to the optimal treatment: A machine learning

approach

Role: Primary Mentor

Direct costs: \$70,000

09/01/18 – 07/31/23 1K23 DK120517 (Javaras)

National Institute of Diabetes and Digestive and Kidney Diseases/NIH

Understanding the Effects of Acute Stressors and Negative Emotion on Eating Behavior in Binge-Eating Disorder: The Role of Stressor-Induced Changes in

Reward and Cognitive Control
Role: Primary Mentor

Direct costs: \$899,155

11/1/18-10/31/2020 Brain & Behavior Research Foundation (formerly NARSAD) Young

Investigator Award (Fanning)

Neural Dynamics of Cognitive Control in PTSD

Role: Primary Mentor

Direct costs: \$70,000

07/01/18 – 06/30/19 The Phyllis and Jerome Lyle Rappaport Mental Health Research Fellowship

(Ironside)

McLean Hospital/Harvard Medical School

Biomarkers of Response to Treatment with Frontal Cortex Stimulation for

Anxious Depression

Role: Primary Mentor

Direct costs: \$35,000

01/15/19 – 01/14/21 Brain & Behavior Research Foundation (formerly NARSAD) Young

Investigator Award (Webb)

Development of a Machine Learning Algorithm-guided Approach to Treatment

Selection for Depression
Role: Primary Mentor

Direct costs: \$70,000

09/01/18 – 08/31/20 1K23 MH109824 (Fanning)

National Institute of Mental Health/NIH

Neural Mechanisms Mediating Trauma and Aggression

Role: Co-Mentor Direct costs: \$899,155

07/01/19 - 06/30/21 Kaplen Fellowship on Depression (Ang)

Department of Psychiatry, Harvard Medical School

Developing a novel behavioral index to probe the neural basis of motivational

anhedonia in Major Depressive Disorder

Role: Primary Mentor

Direct costs: \$73,670

07/01/19 - 06/30/21 Livingston Fellowship Award (Ang)

Department of Psychiatry, Harvard Medical School

Developing a novel behavioral index to probe the neural basis of motivational

anhedonia in Major Depressive Disorder

Role: Primary Mentor

Direct costs: \$9,675

07/01/19 – 06/30/20 The Phyllis and Jerome Lyle Rappaport Mental Health Research Fellowship

(Sacchet)

McLean Hospital/Harvard Medical School

Depression, Mindfulness, and Individualized Brain Systems: Toward Brain-

based Precision Psychiatry
Role: Primary Mentor

Direct costs: \$35,000

Report of Local Teaching and Training

Teaching of Students in Courses

University of Zurich, Switzerland

1996 – 1998 Lecturer on Electrophysiology, University Hospital of Psychiatry, Zurich

1990 – 1993 Teaching Assistant in Neurophysiology, M.-C. Hepp-Reymond, Ph.D., Brain

Research Institute, University of Zurich

Harvard University

Year	Course Title	Location/Enrollment
2002-	Psych 2450. Affective and Social Neuroscience	Harvard University
2003	Graduate Seminar (n = 8)	2-hr sessions/wk, 12 wks
	Psych 1808. Neurobiological Aspects of Psychopathology	Harvard University
	Undergraduate Lecture Course (n = 8)	Two 1.5-hr sessions/wk, 12 wks
2003-	Psych 2450. Affective and Social Neuroscience	Harvard University
2004	Graduate Seminar (n = 8)	2-hr sessions/wk, 12 wks
	Psych 1808. Neurobiological Aspects of Psychopathology	Harvard University
	Undergraduate Lecture Course (n = 12)	Two 1.5-hr sessions/wk, 12 wks
	Psych 1855. Mood Disorders	Harvard University
	Upper Undergraduate Seminar (n = 6)	2-hr sessions/wk, 12 wks
	Psych 3200. Research Seminar in Experimental	Harvard University
	Psychopathology/Clinical Psychology (n = 10)	1-hr sessions/wk, 24 wks
2005-	Psych 18. Abnormal Psychology	Harvard University
2006	Undergraduate Lecture Course (n = 88)	Two 1.5-hr sessions/wk, 12 wks
	Psych 1855. Mood Disorders	Harvard University
	Upper Undergraduate Seminar (n = 8)	2-hr sessions/wk, 12 wks
	Psych 2450. Affective and Social Neuroscience	Harvard University
	Graduate Seminar (n = 8)	2-hr sessions/wk, 12 wks
	Psych 3200. Research Seminar in Experimental	Harvard University
	Psychopathology/Clinical Psychology (n = 8)	1-hr sessions/wk, 24 wks
2006-	Psych 18. Abnormal Psychology	Harvard University
2007	Undergraduate Lecture Course (n = 54)	Two 1.5-hr sessions/wk, 12 wks
	Psych 1855. Mood Disorders	Harvard University
	Upper Undergraduate Seminar (n = 13)	2-hr sessions/wk, 12 wks
	Psych 2450. Affective and Social Neuroscience	Harvard University
	Graduate Seminar (n = 3)	2-hr sessions/wk, 12 wks
	Psych 3200. Research Seminar in Experimental	Harvard University
	Psychopathology/Clinical Psychology (n = 8)	1-hr sessions/wk, 24 wks
	Psych 2851r. Affective Neuroscience: Research Seminar	Harvard University
	Undergraduate Lab Course (n = 4)	1-hr sessions/wk, 12 wks
2008-	Psych 1808. Neurobiological Aspects of Psychopathology	Harvard University
2009	Undergraduate Lecture Course (n = 18)	Two 1.5-hr sessions/wk, 12 wks
	Psych 2441. Clinical Neuroscience	Harvard University
	Upper-level Undergraduate Seminar (n = 18)	2-hr sessions/wk, 13 wks
	Psych 2851r. Affective Neuroscience: Research Seminar	Harvard University
	Undergraduate Lab Course (Fall: n = 5, Spring: n = 4)	1-hr sessions/wk, 13 wks
	Psych 3200. Research Seminar in Experimental	Harvard University
	Psychopathology/Clinical Psychology (n = 11)	1-hr sessions/wk, 24 wks
2009-	Psych 2441. Clinical Neuroscience	Harvard University
2010	Upper-level Undergraduate Seminar (n = 8)	2-hr sessions/wk, 13 wks
	Psych 2851r. Affective Neuroscience: Research Seminar	Harvard University
	Undergraduate Lab Course (Fall: n = 6, Spring: n = 3)	1-hr sessions/wk, 13 wks
	Psych 1855. Mood Disorders	Harvard University

	Upper Undergraduate Seminar (n = 17)	2-hr sessions/wk, 13 wks
2013-	Psych 18. Abnormal Psychology	Harvard University
2014	Undergraduate Lecture Course (n = 107)	Two 1.5-hr sessions/wk, 12 wks
2016-	Psych 18. Abnormal Psychology	Harvard University
2017	Undergraduate Lecture Course (n = 96)	Two 1.5-hr sessions/wk, 12 wks

Harvard University Extension School

2003-	Psyc E-2450: Affective and Social Neuroscience	Harvard Extension School
2004	Master of Liberal Arts Degree Candidates (n = 15)	2-hr sessions/wk, 15 wks
	Psyc E-1855: Mood Disorders	Harvard Extension School
	Master of Liberal Arts Degree Candidates (n = 15)	2-hr sessions/wk, 15 wks
2005-	Psyc E-2450: Affective and Social Neuroscience	Harvard Extension School
2006	Master of Liberal Arts Degree Candidates (n = 15)	2-hr sessions/wk, 15 wks
2006-	Psyc E-1855: Mood Disorders	Harvard Extension School
2007	Master of Liberal Arts Degree Candidates (n = 15)	2-hr sessions/wk, 15 wks
2008-	Psyc E-2441: Clinical Neuroscience	Harvard Extension School
2009	Master of Liberal Arts Degree Candidates (n = 15)	2-hr sessions/wk, 15 wks
2009-	Psyc E-2441: Clinical Neuroscience	Harvard Extension School

2009-	Psyc E-2441: Clinical Neuroscience	Harvard Extension School
2010	Master of Liberal Arts Degree Candidates (n = 14)	2-hr sessions/wk, 15 wks
	Psyc E-1855: Mood Disorders	Harvard Extension School
	Master of Liberal Arts Degree Candidates (n = 6)	2-hr sessions/wk, 15 wks

Harvard Medical School

2010	Clinical Investigator Training Program (CITP), Beth Israel	Harvard Medical School
	Deaconess Medical Center, Boston	Lecture on the Neuroscience of
	Junior faculty at HMS & affiliated hospitals (n = 15)	Depression
2013	Harvard Clinical and Translational Science Center,	Harvard Medical School
	"Imaging in Neuroscience" course	Lecture on the <i>Use of PET</i>
	Junior faculty at HMS & affiliated hospitals (n = 105)	Imaging in Psychiatry
2017	NEUROBIO 319QC: Neurobiology of Psychiatric	Harvard Medical School
	Disease: From Bench to Bedside	Lecture on the <i>Neurobiology of</i>
	HMS graduate students (n = 10)	Depression
2019	NEUROBIO 319QC: Neurobiology of Psychiatric	Harvard Medical School
	Disease: From Bench to Bedside	Lecture on the <i>Neurobiology of</i>
	HMS graduate students (n = 15)	Depression

Laboratory and Other Research Supervisory and Training Responsibilities

Research Assistants

Period	Name	After leaving the lab	Current position
2002-2004	Allison Jahn (Harvard)	Graduate Student, University of Wisconsin-Madison (Clinical	Licensed clinical psychologist
		Psychology)	

2002-2006	James O'Shea (Harvard)	Graduate Student, University of California-Berkeley (Vision Science)	Engineering Specialist, Albany Engineered Composites
2004-2006	Kyle G. Ratner (Harvard)	Graduate Student, New York University (Social Neuroscience)	Assistant Professor, UC Santa Barbara
2006-2008	Jeffrey Birk (Harvard)	Graduate Student, Tufts University (Clinical Psychology)	Instructor, Columbia University Medical Center
2006-2008	Elena Goetz (Harvard)	Graduate Student, Duke University (Clinical Psychology)	Post-doctoral fellow, Stanford University
2008-2010	Sunny Dutra (Harvard)	Graduate Student, Yale University (Clinical Psychology)	Assistant Professor, William James College
2010-2012	Breanna Glaeser (McLean)	Parsons School of Design, Masters in Strategic Design and Management	Freelance Researcher & Strategist
2010-2013	Andrew Cohen (McLean)	Graduate Student, Smith College (Social Work)	Social Worker
2012-2014	Samuel Douglas (McLean)	Medical School Applicant	No updates
2013-2015	Miranda Beltzer (McLean)	Graduate Student, University of Virginia (Clinical Psychology)	Graduate Student
2013-2015	Franziska Goer (McLean)	Graduate Student, University of Manchester, UK	Graduate Student
2014-2016	Manon Ironside (McLean)	Graduate Student, University of California-Berkeley (Clinical Psychology)	Graduate Student
2014-2016	Malavika Mehta (McLean)	University of Chicago, Medical School	Medical School Student
2015-2017	Rachel Clegg (McLean)	SUNY Albany (Clinical Psychology)	Graduate Student
2016-2018	Emilia Cardenas (McLean)	Vanderbilt University (Clinical Psychology)	Graduate Student
2016-2018	Min Su Kang (McLean)	University of Pennsylvania (Clinical Psychology)	Graduate Student
2016-2018	Nara Nascimento (McLean)	Good Shepherd Community Care	Quality Assurance Specialist
2016-2018	Ashleigh Rutherford (McLean)	Yale University (Clinical Psychology)	Graduate Student
2018-	Micah Breiger (McLean)	Current Research Assistant	
2018-	Devon Brunner (McLean)	Current Research Assistant	
2018-	Amelia Moser (McLean)	Current Research Assistant	
2019-	Jessica Duda (McLean)	Current Research Assistant	
2019-	Rachel Lobien	Current Research Assistant	

(McLean)	

Harvard University

Years	Type of Responsibility/Location	Level of Effort
2002- 2010	Supervision of 5 post-doctoral research fellows, 6 graduate students, and 10 research assistants in affective, cognitive and clinical neuroscience, functional neuroimaging, high-density electrophysiology, clinical psychology and experimental psychopathology, Department of Psychology, Harvard University	Daily mentorship
2002- 2012	Dissertation Committee Member for 13 Graduate Students, Department of Psychology, Harvard University 2002/2003: Zachariah Jonasson, Kristin Vickers 2005/2006: Alison Harris, Pearl Chiu, Avgusta Shestyuk 2007/2008: Sadia Najmi, Christen Deveney (*), Laura Phillips 2008/2009: Avram Holmes (*) 2009/2010: Ryan Bogdan (*), Hannah Reese 2010/2011: Jason Angel 2011/2012: Lisa Berghorst (*) (*) Primary Mentor	4 hours per week for 6 weeks
2002- 2010	Reader for 4 Master-level Students, Harvard University 2002/2003: <i>Christen Deveney</i> , Psychology Department 2002/2003: <i>Avniel Ghuman</i> , Biophysics Department 2005/2006: <i>Hannah Reese</i> , Psychology Department 2008/2009: <i>Amitai Shenhav</i> , Psychology Department	6 hours per week for 2 weeks
2002- 2010	Primary Advisor for 7 Undergraduate Honors Theses, Department of Psychology, Harvard University 2004/2005: Erika Cowman (*) (Recipient of Psychology Faculty Prize award for "Senior honors thesis of outstanding quality") 2006/2007: Tiffany Meites (*), Petra Pajtas (*), Patricia Pringle (*), Katherine Steele (*) 2008/2009: Yuliya Nikolova (*) (Recipient of 2009 Thomas Temple Hoopes Prize for Excellence In The Work of Undergraduates) 2010/2011: Samantha Connolly (*) (*) Recipient of Harvard College Research Program Award	3 hours per week
2002-2006	Thesis Reader, Undergraduate Honors Theses, Department of Psychology, Harvard University 2002/2003: Emily Adkins 2003/2004: Kristy Benoit, Caitlin Ferriter, Chetan Irwin, David Stahl 2005/2006: Shana Franklin, Arin Keyser, Kim Emiko Ono, Matthew Wallenstein	6 hours per week for 2 weeks
2002- 2010	Supervision for 20 students enrolled in Undergraduate Supervised Research (910r), Department of Psychology, Harvard University (8 recipients of Harvard College Research Program Award; 2 recipients of Mind-Brain-Behavior Research Award)	1 hour per week

Harvard Medical School

2011-	Poornima Kumar, Ph.D., Assistant Professor, McLean Hospital/HMS Primary Mentor, NARSAD Young Investigator Award (2x); HMS Livingston Fellowship Award; HMS Eleanor & Miles Shore; NIMH R21	1 hour per week
2013-	Primary Mentor, Undergraduate Honors Theses, Department of Neurobiology/Psychology/Chemistry, Harvard University Pragya Kakani (2013 – 2014) [2014 Thomas Temple Hoopes Prize for Excellence In The Work of Undergraduates; John E. Dowling Award for the Best Undergraduate Neurobiology Thesis in the Class of 2014)	2 hours per month
	Stephanie Deccy (2014 – 2016) [HCRP] Melissa Yuan (2014 – 2016) [HCRP] Isobel Green (2015 – 2017) [PRISE, HCRP, Psychology Faculty Prize]	
	PRISE = Harvard College Program for Research in Science and Engineering HCRP = Harvard College Research Program	
2013-	Bradford Reich, M.D., Assistant Clinical Professor, McLean Hospital/HMS Primary Mentor, NARSAD Young Investigator Award	2 hours per month
2013-	Christian Webb, Ph.D., Assistant Professor of Psychiatry, McLean Hospital/HMS Primary Mentor, NIMH Post-doctoral NRSA; NIMH K23; Klingenstein Third Generation Fellowship Award in Depression; The Adam Corneel Young Investigator Award, McLean Hospital; NARSAD Young Investigator Award	1 hours per week
2016-	Emily Belleau, Ph.D., Instructor, McLean Hospital/HMS Primary Mentor, Klingenstein Third Generation Fellowship Award in Depression; The Adam Corneel Young Investigator Award; Kaplen Fellowship on Depression, HMS; Livingston Fellowship Award, HMS	2 hours per week
2016-	Maria Ironside, DPhil, Instructor, McLean Hospital/HMS Primary Mentor, Rappaport Mental Health Research Fellowship, McLean	2 hours per week
2018-	Hans Schroder, Ph.D., Post-doctoral Fellow, McLean Hospital Primary Mentor	2 hours per week
2018-	Yuen Ang, DPhil, Post-doctoral Fellow, McLean Hospital Primary Mentor, Kaplen Fellowship on Depression, HMS; Livingston Fellowship Award, HMS	2 hours per week
2018-	Jennifer Fanning, Ph.D., Instructor, McLean Hospital/HMS Primary Mentor, NARSAD Young Investigator Award; Co-mentor, NIMH K23	1 hour per week
2019-	Adrienne Romer, Ph.D., Post-doctoral Fellow, McLean Hospital	1 hour per week

2004, 2006, 2007, 2008: Nominated for Everett S. Mendelsohn Excellence in Mentoring Award, Graduate Student Council, Harvard University (Honorable Mention)

Formally Supervised Trainees

Year	Name and degrees / Current position / Specific Accomplishments of Trainee
A. Post-docto	oral Fellow/Faculty/Psychiatry Residents, McLean Hospital/Harvard Medical School
2006-2014	Daniel G. Dillon, Ph.D. (Instructor of Psychiatry, HMS)
	Assistant Professor of Psychiatry, McLean Hospital & Harvard Medical School

	24 peer-reviewed manuscripts, 3 book chapters, 41 abstract/conference presentations
2000 2012	Awards: NIMH Post-doctoral NRSA; NARSAD Young Investigator Award; NIMH K99
2009-2013	Pia Pechtel, Ph.D. (Instructor of Psychiatry, HMS)
	Wellcome Trust Research Fellow, University of Exeter, Exeter, UK
	12 peer-reviewed manuscripts, 22 abstract/conference presentations
	Awards: Postdoctoral Fellowship, German Research Foundation; NARSAD Young Investigator Award; The O'Keefe Family Junior Investigator Award For Excellence In Imaging Research
2010-2017	Randy Auerbach, Ph.D. (Assistant Professor, HMS)
2010-2017	Associate Professor, Columbia University
	9 peer-reviewed manuscripts, 23 abstract/conference presentations
	Awards: NIMH K23; HMS Kaplen Fellowship on Depression; Klingenstein Third Generation
	Fellowship Award in Depression; Adam Corneel Young Investigator Award, McLean Hospital
2011-2015	Michael Treadway, Ph.D. (Instructor of Psychiatry, HMS)
	Associate Professor, Department of Psychology, Emory University
	7 peer-reviewed manuscripts, 2 book chapters, 16 abstract/conference presentations
	Awards: NIMH K99; Adam Corneel Young Investigator Award; NARSAD Young Investigator Award
2012-2016	Roee Admon, Ph.D. (Instructor of Psychiatry, HMS)
	Senior Lecturer, Department of Psychology, Haifa University
	9 peer-reviewed manuscripts, 15 abstract/conference presentations
	Awards: NARSAD Young Investigator Award; Adam Corneel Young Investigator Award, McLean
2012 2016	Hospital P. A.
2013-2016	Roselinde Kaiser, Ph.D. (Post-doctoral Fellow, HMS)
	Assistant Professor, Department of Psychology, UCLA
	7 peer-reviewed publications, 18 abstract/conference presentations Awards: NIMH Post-doctoral NRSA; The Phyllis and Jerome Lyle Rappaport Mental Health Research
	Fellowship, McLean Hospital
2013-2017	Alexis Whitton, Ph.D. (Instructor of Psychiatry, HMS)
2013 2017	NHMRC Early Career Fellow, University of Sydney
	9 peer-reviewed publications, 2 book chapters, 26 abstract/conference presentations
	Awards: Andrew P. Merrill Memorial Research Fellow Award, McLean Hospital; Sir Keith Murdoch
	Fellowship, American Australian Association; NARSAD Young Investigator Award; CJ Martin Early
	Career Biomedical Fellowship, National Health and Medical Research Council
2014-2016	Callie McGrath, Ph.D. (Post-doctoral Fellow, HMS)
	Private sector (Deloitte Consulting)
	8 abstract/conference presentations
2017 2017	Awards: Kaplen Fellowship on Depression; HMS Livingston Fellowship Award
2015-2016	Jennifer Gatchel, M.D., Ph.D. (Instructor of Psychiatry, HMS)
2015-2017	Awards: Andrew P. Merrill Memorial Research Fellowship (with Dr. Brent Forester)
2013-2017	David Sturman, M.D., Ph.D. (Psychiatry Resident, MGH/McLean Hospital) 1 abstract/conference presentation
2016-2018	
2010-2018	Stefanie Nickels, Ph.D., (Post-doctoral Fellow, McLean Hospital/HMS) 9 abstract/conference presentation
	oral Fellow, Primary Advisor, Department of Psychology, Harvard University
2006-2008	Diane L. Santesso, Ph.D.
	Research Assistant Professor, University of Waterloo, Waterloo, Ontario
	8 peer-reviewed manuscripts, 6 abstract/conference presentations
2000	Awards: Postdoctoral Fellowship Award, Natural Sciences and Engineering Research Council of Canada
2009	Marie-Anne Vanderhasselt, Ph.D.
	Post-doctoral research fellow, Department of Psychology, Ghent University
	1 peer-reviewed manuscript

	Awards: National Science Foundation, Flanders/Belgium
C. Graduate	Student, Primary Advisor, Department of Psychology, Harvard University
2003-2009	Avram J. Holmes, Ph.D.
	Assistant Professor, Department of Psychology, Yale University
	16 peer-reviewed manuscripts, 1 book chapter, 22 abstract/conference presentations
2002 2010	Awards: Pre-doctoral NRSA recipient
2003-2010	Ryan Bogdan, Ph.D.
	Associate Professor, Department of Psychology, Washington University in St. Louis 15 peer-reviewed manuscripts, 1 book chapter, 23 abstract/conference presentations
	Association for Psychological Science, Rising Stars in Psychological Science Award
2004-2006	Pearl H. Chiu, Ph.D. (with Dr. Patricia Deldin)
	Associate Professor, Virginia Tech Carilion School of Medicine and Research Institute
	1 peer-reviewed manuscript, 1 abstract/conference presentation
2004-2008	Christen M. Deveney, Ph.D. (with Dr. Patricia Deldin)
	Associate Professor, Department of Psychology, Wellesley College
	5 peer-reviewed manuscripts, 6 abstract/conference presentations
2006-2012	Awards: Pre-doctoral NRSA recipient
2000-2012	Lisa H. Berghorst, Ph.D. Psychology Associate, Alvord, Baker, & Associates, LLC, Rockville, MD
	3 peer-reviewed manuscripts, 1 chapter, 12 abstract/conference presentation
2008-2011	Alexander J. Millner, Ph.D.
2000 2011	Post-doctoral Fellow, Department of Psychology, Harvard University
	1 peer-reviewed manuscript, 2 abstract/conference presentation

Formal Teaching of Peers

2012	Depression, Anxiety and Stress, CME Conference, Harvard Medical School,
	Department of Continuing Education, September 7-8, 2012, Boston, Massachusetts
	(Course Directors: Scott L. Rauch, Diego A. Pizzagalli, Shelly F. Greenfield,
	Christopher M. Palmer)
2014	Depression, Anxiety and Stress, CME Conference, Harvard Medical School,
	Department of Continuing Education, September 5-6, 2014, Boston, Massachusetts
	(Course Directors: Scott L. Rauch, Diego A. Pizzagalli, Christopher M. Palmer)

Invited Presentations and Courses

Local Invited Presentations

	No presentations below were sponsored by outside entities
1999	Invited lecturer, "Psychometric Methods", University of Wisconsin-Madison, March,
	1999, Madison, WI, USA
2002	Grand Rounds, Department of Psychiatry, Massachusetts General Hospital, September
	2002, Boston, MA, USA
2002	Invited speaker, Social and Affective Neuroscience Series, Department of Psychology,
	Harvard University, November, 2002, Cambridge, MA, USA
2004	Grand Rounds, Harvard Medical School Division on Addictions Roundtable, January,
	2004, Cambridge, MA, USA
2007	Invited speaker, "Depression: Clues from Affective Neuroscience", Robert Wood
	Johnson Healthy & Society Seminar, Harvard School of Public Health, May 10, 2007,

2008	Boston, MA, USA Invited talk, "Neuroimaging Studies of Reward Processing in Major Depression", Depression Clinical Research Program, Massachusetts General Hospital, July 9, 2008, Boston, MA, USA
2009	Invited speaker, Robert Wood Johnson Health & Society Seminar, Harvard School of Public Health, March 5, 2009, Boston, MA, USA
2009	Invited speaker, Children's Hospital Boston, Division of Developmental Medicine, March 12, 2009, Boston, MA, USA
2010	Invited Speaker, Research Speaker Series, Neuroimaging Center, McLean Hospital, Belmont, MA, USA, September 13, 2010
2010	Invited Speaker, Clinical Investigator Training Program (CITP), Beth Israel Deaconess Medical Center, Boston, MA, USA, October 12, 2010
2010	Invited Speaker, Brain Mapping Seminar, Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Boston, MA, USA, October 20, 2010
2010	Grand Rounds, McLean Hospital, Belmont, MA, USA, November 4, 2010
2011	Psychiatric Genetics and Translational Research Seminar, Center for Human Genetic Research, Massachusetts General Hospital. Boston, MA, USA, December 13, 2011
2012	Grand Rounds, Massachusetts General Hospital, Department of Psychiatry, Boston, MA, USA, March 15, 2012
2012	Faculty, The 4th Annual Massachusetts General Hospital Colloquium On Depression: The Core Role of Fatigue in Depressive Disorders and the Use of Biomarkers for Personalized Treatment, Boston MA, June 2, 2012. (Topic: Apathy and Anhedonia in Depression).
2012	Depression, Anxiety and Stress, Harvard Medical School, Department of Continuing Education, September 7-8, 2012, Boston, Massachusetts (Topic: "New Horizons: Research Endeavors")
2013	MGH Psychiatry Academy Virtual Grand Rounds Series, Boston MA, USA, May 1, 2013.
2014	Invited Speaker, Nuclear Medicine and Molecular Imaging (NMMI) Speaker Series, Massachusetts General Hospital, Boston, MA, USA, March 14, 2014.
2014	Depression, Anxiety and Stress, CME Conference, Harvard Medical School, Department of Continuing Education, September 5-6, 2014, Boston, Massachusetts (Topic: "Depression, Anxiety and Stress: An Overview of the Field")
2014	Pfizer Neuroscience Seminar Series, Cambridge, MA, USA, November 12, 2014
2015	Alkermes Neuroscience Talks, Waltham, MA, USA, March 23, 2015.
2016	McLean Hospital National Council (Topic: "New Frontiers in Depression Research: Clues from McLean's Brain Imaging Center"), Belmont, MA, USA, October 19, 2016.

Report of Regional, National and International Invited Teaching and Presentations:

No presentations below were sponsored by outside entities

Regional	
2003	Invited speaker, "The Functional Neuroanatomy of Depression: Integrating
	Neuroimaging and Electrophysiological Approaches", Clinical Colloquium Series,
	Boston University, November, 2003, Boston, MA, USA
2005	Invited speaker, "Toward an Objective Characterization of Depressive Phenotypes:

- Clues from Translational Approaches", Clinical Research Training Program, Judge Baker Children's Center, May 2005, Boston, MA, USA
- Invited speaker, Affective Science Speaker Series, Affective Science Initiative, Boston College, November 21, 2005, Boston, MA, USA
- Department Colloquium, Brown University, "Toward Objective Characterizations of Depressive Phenotypes: Clues From Affective Neuroscience", November 30, 2005, Providence, RI, USA
- Invited speaker, Clinical Psychology Talk Series, Department of Psychology, Yale University, April 30, 2009, New Haven, CT, USA
- Invited speaker, "The Neuroscience of Emotion: From Reaction to Regulation", Third Annual Tufts University Conference on Emerging Trends in Behavioral, Affective, Social, and Cognitive (BASC) Neurosciences, Tufts University, June 4-6, 2009, Medford, MA, USA
- Grand Rounds, National Center for PTSD speaker series, March 16, 2012, Boston, MA, USA
- Department Colloquium, Department of Psychology, Tufts University, Medford, MA, March 30, 2015.
- 2015 Clinical Current Work Speaker Series, Department of Psychology, Yale University, November 19, 2015.
- Grand Rounds, Department of Psychiatry and Human Behavior, The Alpert Medical School of Brown University, December 2, 2015.
- 2016 Grand Rounds, Department of Psychiatry, University of Massachusetts Medical School, April 21, 2016.
- Distinguished Colloquium Speaker, Clinical Psychology, Department of Psychology, Boston University, April 8, 2020.

National

- 2000 Invited speaker, Brain Mapping Seminar, UCLA Brain Mapping, UCLA, Los Angeles, CA, USA, October 2000.
- Invited speaker, Department of Psychology, Harvard University, Cambridge, MA, USA, March 2002.
- Invited speaker, "Toward an Objective Characterization of Depressive Phenotypes: Insight from Translational Research", Invited Symposium, "Neural Mechanisms of Emotion-Cognition Interactions: Translation from Basic to Clinical Science" (Chair: Deanna M. Barch, Ph.D.) American Psychological Society, 17th Annual Convention, Los Angeles, CA, USA, May 26-29, 2005.
- Co-chair and speaker, "Laboratory Measures of Anhedonia in Humans: A Signal Detection Approach", Invited Symposium, "Towards building translational measures of depression: Objective characterizations of depressive phenotypes and biomarkers in humans and animals" (Co-Chairs: Athina Markou, Diego A. Pizzagalli), American College of Neuropsychopharmacology, 44th Annual Meeting, Waikoloa, Hawaii, USA, December 11-15, 2005.
- Invited speaker, "Abnormal Responses to Errors in Depression: Behavioral and Electrophysiological Correlates", Invited Symposium, "Cognitive, Neural, and Genetic Components of Mood-Related and Personality Pathology" (Chair: Charles Sanislow, Ph.D.), American Psychological Society, 19th Annual Convention, Washington D.C., USA, May 24-27, 2007.

- Departmental Colloquium, "Toward an Objective Characterization of Depressive Phenotypes: Insight from Translational Research", Neuroscience Seminar Series, The Scripps Research Institute, San Diego, CA, USA, May 23, 2007.
- Invited talk, "Toward Objective Characterizations of Depressive Phenotypes: Clues from Affective Neuroscience", Mood and Anxiety Disorders Program, National Institute of Mental Health, Bethesda, MD, USA, June 13, 2007.
- Invited talk, "Toward Objective Characterizations of Depressive Phenotypes: Clues from Affective Neuroscience", New York State Psychiatric Institute, New York, NY, USA, May 13, 2008.
- 2009 Invited speaker, "The Neuroscience of Major Depressive Disorder: Focus on Anhedonia", Depression Center Colloquium Series, University of Michigan, Ann Arbor, MI, USA, January 29, 2009.
- Invited speaker, Winter 2009 Distinguished Seminar Series, Psychology Department, University of Michigan, Ann Arbor, MI, USA, January 28, 2009.
- Invited speaker, Symposium *Plasticity of the Reward Circuitry in Depression and Stress-Related Disorders* (Chair: Eric Nestler, MD, Ph.D.), 49th Annual Meeting of the American College of Neuropsychopharmacology (ACNP), Miami Beach, FL, USA, December 5-9, 2010.
- Invited Speaker, Symposium *Abnormalities in Reward-Related Brain Function in Psychopathology: A Research Domain Criteria (RDoC)* (Chair: Robin Nusslock, Ph.D.), 25th Annual Meeting of the Society for Research in Psychopathology, Boston, MA, USA, September 22-25, 2011.
- William K. Warren Frontiers in Neuroscience Lecture, Laureate Institute for Brain Research, Tulsa, OK, USA, February 28, 2011.
- Invited speaker, Kendon Smith Lecture Series, Department of Psychology, University of North Carolina at Greensboro, Greensboro, NC, USA, March 22, 2012.
- Faculty, The 4th Annual Massachusetts General Hospital Colloquium On Depression: The Core Role of Fatigue in Depressive Disorders and the Use of Biomarkers for Personalized Treatment, Chicago IL, June 9, 2012. (Professional development for psychiatrists, psychologists, primary care/family physicians, nurses, and residents and fellows). (Topic: Apathy and Anhedonia in Depression)
- Grand Rounds, Department of Psychiatry, Dartmouth-Hitchcock Medical Center, Lebanon, NH, USA, January 8, 2013.
- Department Colloquium, Department of Psychology, University of Arizona, "*The Neuroscience of Major Depressive Disorder: Focus on Anhedonia*", Tucson, AZ, USA, April 19, 2013.
- Invited Speaker, Entertainment Software and Cognitive Neurotherapeutics Society, Los Angeles, CA, March 15-17, 2013.
- 2014 Keynote Speaker, *Spring Symposium on Mood Disorders*, University of Alabama at Birmingham, Birmingham, AL, April 11-12, 2014.
- Invited speaker, Symposium *The NIMH Research Domain Criteria Initiative: Overview and Exemplars* (Chair: Sarah E. Morris), 28th Annual Meeting of the Society for Research in Psychopathology, Evanston, IL, USA, September 18-21, 2014.
- 2014 Co-Chair, Symposium *Identifying Neurocognitive Mechanisms Underlying Depression Across the Lifespan* (Chair: Randy P. Auerbach, Diego A. Pizzagalli), 28th Annual Meeting of the Society for Research in Psychopathology, Evanston, IL, USA, September

- 18-21, 2014.
- 2014 Panelist, *Translational Models for Depression: Anhedonia as a Target.* Annual Conference of the National Network of Depression Centers, Chicago, IL, USA, October 22-23, 2014.
- Co-chair, Symposium "Understanding the Effects of Stress at the Intersection of Appetitive and Aversive Functions in Disease: Integrating Across Genes, Brain, and Behavior" (Co-Chairs: Scott Rauch & Diego A. Pizzagalli), American College of Neuropsychopharmacology, 53rd Annual Meeting, Phoenix, AZ, USA, December 7-11, 2014.
- Speaker, Symposium "Characterizing Reward Circuitry Dysfunction Across the Mood Disorders Spectrum: Relevance and Predictive Value in Clinical Practice" (Co-Chairs: Wayne Drevets, Mary Phillips), American College of Neuropsychopharmacology, 53rd Annual Meeting, Phoenix, AZ, USA, December 7-11, 2014.
- Speaker, Institute of Medicine of the National Academies, "Enabling Discovery, Development, and Translation for Cognitive Dysfunction in Depression: A Workshop" (Co-chairs: Thomas Insel, Thomas Laughren), The National Academy of Sciences, Washington, DC, February 24, 2015.
- Department Colloquium, Department of Psychology and Psychiatry, University of Pennsylvania, Philadelphia, PA, March 18, 2015.
- 2015 Keynote Speaker, Inaugural Event, Center for Affective Neuroscience of Depression and Anxiety, Stony Brook University, Stony Brook, NY, September 9, 2015.
- 2015 Discussant, Symposium, "Integration of Reward and Social/Circadian Rhythm Model Perspectives in Understanding Mood Disorders", Society for Research in Psychopathology, New Orleans, LA, October 15-18, 2015.
- Chair, Symposium "Using Neural Connectivity Biomarkers in Major Depressive Disorder (MDD) to Identify Subtypes and Predict Treatment Response" (Co-Chairs: Diego A. Pizzagalli & Scott Langenecker), American College of Neuropsychopharmacology, 54rd Annual Meeting, Hollywood, FL, USA, December 6-10, 2015.
- Presenter, Symposium "The Research Domain Criteria (RDoC) Initiative: New Data across Psychiatric Conditions and Age Groups" (Co-Chairs: Ellen Leibenluft & Bruce Cuthbert), American College of Neuropsychopharmacology, 54rd Annual Meeting, Hollywood, FL, USA, December 6-10, 2015.
- 2016 Invited speaker and Discussant, National Institute of Mental Health, *Mechanisms of Suicide: Integrating RDoC to inform Novel and Personalized Interventions*, Bethesda, Maryland, June 2-3, 2016.
- 2016 Chair, Symposium *The Network Neuroscience of Mood and Anxiety Disorders*, 30th Annual Meeting of the Society for Research in Psychopathology, Baltimore, MD, USA, September 29-October 2, 2016.
- Discussant, Symposium *Multimodal Predictors of Anhedonia Across the Lifespan* (Chair: Randy Auerbach), 30th Annual Meeting of the Society for Research in Psychopathology, Baltimore, MD, USA, September 29-October 2, 2016.
- Speaker, Rochester Conte Center Symposium, "Persistent, Maladaptive Behaviors: Why We Make Bad Choices", University of Rochester, October 11-13, 2016.
- 2016 Invited Speaker, *RDoC Investigators Meeting*, NIH Neuroscience Center, Bethesda,

- Maryland, October 17-18, 2016.
- Distinguished Scientist Lecture, University of Pittsburgh Department of Psychiatry, Pittsburgh, PA, February 17, 2017.
- Grand rounds, Department of Psychiatry, University of California San Diego, San Diego, CA, March 27, 2017.
- 2017 Presenter, Symposium "Discovery and Evaluation of Neural Translational Measures for Improving Therapeutic Discovery for Mental Disorders" (Chair: Jared Young), Society of Biological Psychiatry, 72nd Annual Meeting, San Diego, CA, May 18-20, 2017.
- Neuroscience Graduate Seminar Series, Vanderbilt Kennedy Center for Research on Human Development & Vanderbilt Brain Institute, Vanderbilt University, Nashville, TN, October 18, 2017.
- Grand rounds, Department of Psychiatry, University of Wisconsin-Madison, Madison, WI, March 9, 2018.
- 2019 Clinical Psychology Colloquium Series, Clinical Psychology Program, Teachers College Columbia University, January 24, 2019.
- Invited Participant, Computational Psychiatry, Banbury Center, Cold Spring Harbor Laboratory, February 3-6, 2019.
- Invited Speaker, Department of Psychiatry Research Conference, Johns Hopkins University, March 5, 2019.
- 2019 Keynote Address, 6th Annual Symposium, Conte Center, University of California Irvine, Brain Circuit Development in Health and Disease: The Power of Cross-Species Approaches. University of California Irvine, March 12, 20019.
- Invited Speaker, Cousins Center Lectures in Psychoneuroimmunology, UCLA Cousins Center for Psychoneuroimmunology, UCLA, March 14, 2019.
- 2019 Keynote Speaker, Third Congress on Pediatric Irritability and Dysregulation, Burlington, VT, September 26-27, 2019.

International

- 2000 Chair, Symposium "Affective and Social Aspects of Face Processing: Integrating Electrophysiological and Brain Imaging Studies", 40th Annual Meeting of the Society for Psychophysiological Research Conference, October 18-22, 2000, San Diego, USA
- Invited Chair, Symposium "Aspect of Face Processing", 10th World Congress of Psychophysiology, February 8-13, 2000, Sydney, Australia
- 2000 Invited speaker, Annual Scientific Meeting of the British Psychophysiology Society, September, 2000, London, UK
- Invited speaker, 12th World Congress of the International Society for Brain Electromagnetic Topography (ISBET), March 8-10, 2001, Utsunomiya, Japan
- Invited speaker, Central Institute of Mental Health, December, 2001, Mannheim, Germany
- Invited Keynote Speaker, Symposium "Electromagnetic Topography"; 13th World Congress of the International Society for Brain Electromagnetic Topography (ISBET), October 27-29, 2002, Naples, Italy
- 2003 Invited speaker, "Mood Disorders across Development: Emerging Insights from Affective Neuroscience", 36th Annual Meeting of the International Society for Developmental Psychobiology; Sackler Symposium "Mood Disorders in children and

- adolescents"; November, 2003, New Orleans, LA, USA
- Invited speaker, "The Role of Frontocingulate Pathways in Major Depression:
 Integrating Electrophysiological and Neuroimaging Approaches", Nineteenth Annual
 Meeting for the Society for Research in Psychopathology; Symposium: Frontal lobe and
 Psychopathology (Organizer: Sohee Park), October 7-10, 2004, St. Louis, Missouri,
 USA
- Invited speaker, "Development of Laboratory-based Measures of Anhedonia in Humans", 20th Annual Meeting of the Society for Research in Psychopathology, October 27-30, 2005, Coral Gables, FL, USA
- Invited speaker, "Resting anterior cingulate gamma activity and abnormal responses to errors in depression: A source localization high-density EEG study", Symposium, "Abnormalities of gamma oscillations in neuropsychiatric disorders" (Co-Chairs: Silvana Galderisi and Kevin Spencer) Third Joint ECNS (EEG and Clinical Neuroscience Society) & ISNIP (International Society for Neuroimaging in Psychiatry) Conference, Neuroimaging and Neurophysiology of Psychosis, September 13-17, 2006, Boston, MA, USA
- Invited Talk, Distinguished Scientific Award for an Early Career Contribution to Psychophysiology, 46th Annual Meeting of the Society for Psychophysiological Research, October 25-29, 2006, Vancouver, BC, Canada
- Invited Talk, Early Career Award, The EEG & Clinical Neuroscience Society (ECNS), Forth Joint ECNS (EEG and Clinical Neuroscience Society) & ISNIP (International Society for Neuroimaging in Psychiatry) Conference, September 19-23, 2007, Montreal, QC, Canada
- 2008 Chair and Speaker, Symposium, "Neurobiological sequelae of early childhood adversity"; 48th Annual Meeting of the Society for Psychophysiological Research, October 1-5, 2008, Austin, TX, USA
- Invited speaker, Symposium, *Attentional Control and Executive Processes in Depression and Rumination* (Chairs: Nilly Mor, Eva Gilboa-Schechtman), Association for Behavioral and Cognitive Therapies, 42nd Annual Convention, November 13-16, 2008, Orlando, FL, USA
- Invited speaker, plenary session, 27. Symposium der Fachgruppe Klinische Psychologie und Psychotherapie der Deutschen Gesellschaft für Psychotherapie (DGP), May 23, 2009, Zurich, Switzerland
- Invited Speaker, Symposium, Neurobiological Perspectives on the Interplay Between Emotional and Attentional Processing in Depression (chair: Rudi de Raedt, Ph.D.), Annual Meeting of the International Society for Research on Emotion, August 6-8, 2009, Leuven, Belgium
- Invited Speaker, Symposium, Genetics in Depression: Cognitive Mechanisms and Life Stress (chair: Ian Gotlib, Ph.D.), 23rd Annual Meeting of the Society for Research in Psychopathology, September 10-13, 2009, Minneapolis, MN, USA
- 2010 Co-Chair and Speaker (Chair: Robin Nusslock), Symposium, "Abnormalities in Reward-Related Neural Circuitry in Mood Disorders"; 65th Annual Meeting of the Society of Biological Psychiatry, May 20-22, 2010, New Orleans, Louisiana, USA
- Invited Discussant, Roundtable Discussion (topic: *Genetics, Brain, and Behavior*), 51st Annual Meeting of the Society for Psychophysiological Research, September 14-18, 2011, Boston, MA

- Invited Speaker, Symposium *Neurocognitive Dysfunction in Anxiety and Depression* (Chair: Jason Moser, Ph.D.), 51st Annual Meeting of the Society for Psychophysiological Research, September 14-18, 2011, Boston, MA
- Invited Speaker, Annual Congress of the Italian Society of Psychopathology, Rome, Italy, February 14-17, 2012
- Wellcome Trust Centre for Neuroimaging, University College of London, London UK, March 30, 2012.
- 2012 Keynote Speaker, "Symposium: The Use of Neuromodulation for Treating Affective Disorders and Physical Pain," Psychiatric Association of Quebec, Québec, Canada, May 11, 2012; Title: "The Rostral Anterior Cingulate Cortex as a Biomarker for Treatment Response: A putative Target for Deep Brain Stimulation in Depression?"
- 2012 Keynote Speaker, International Pharmaco-EEG Society (IPEG), New York, NY, October 18-21, 2012
- 2013 Keynote Speaker, Servier Valdoxan International Expert Board, "Neuroimaging in Depression: Contributions to Understanding Neural Pathways and Treatment Mechanisms", Paris, January 22, 2013.
- Invited Speaker, Distinguished Lecture Series, Department of Psychology, Queen's University, Kingston, ON, Canada, March 22, 2013.
- Symposium Co-Chair, *Toward Personalizing Treatment for Depression: New Imaging and Physiological Findings*, 68th Annual Meeting of the Society of Biological Psychiatry, San Francisco, CA, May 16-18, 2013.
- Symposium Co-Chair, Computational Psychiatry: Emerging Use of Computational Models of Reinforcement Learning in Mood Disorders, 68th Annual Meeting of the Society of Biological Psychiatry, San Francisco, CA, May 16-18, 2013.
- Invited Speaker, Symposium *Using Experimental Neurophysiology to Better Understand Psychopathology: Developments in Schizophrenia, Mood, and Anxiety Disorders* (Chair: Scott Sponheim), 27th Annual Meeting of the Society for Research in Psychopathology, Oakland, CA, USA, September 19-22, 2013.
- 2014 Keynote Speaker, *Neuroscience and Mood* Conference, Canadian Network for Mood and Anxiety Treatments (CANMAT), Toronto, Canada, January 24-25, 2014.
- 2015 Keynote Speaker, 22nd International Symposium on Current issues and Controversies in Psychiatry, Barcelona, Spain, March 6-7, 2015.
- 2015 Invited Speaker, Swiss Memory Workshop, Spiez, Switzerland, August 24-26, 2015.
- 2017 Invited Speaker, European College of Neuropsychopharmacology, Experimental Medicine Network, Validation of Reward Processing tasks, Leiden University, The Netherlands, March 15, 2017.
- 2017 Keynote Speaker, The Cameron Holcombe Wilson Chair RDoC Symposium, University of Toronto, Toronto, Canada, March 22, 2017.
- Invited Speaker, Department of Psychiatry, University of Zurich, Switzerland, July 6, 2018.
- Invited Speaker, *Experimental Medicine in Depression*, University of Oxford, Oxford, UK, June 24-25, 2019.
- Invited Speaker, Department of Psychiatry and Psychotherapy, Medical University of Vienna, Austria, June 28, 2019.

Report of Technological and Other Scientific Innovations

- 1) "Systems and Methods for Predicting Effectiveness in the Treatment of Psychiatric Disorders, including Depression" [filed April 3, 2006; PCT filed April 3, 2007; International Publication Date: 10/25/2007 (Publication number: WO2007/120480; Application Number: PCT/US2007/008107); Published US Patent Application, Application Number: 20090306534. http://www.wipo.int/
- 2) "Methods For Predicting Effectiveness in the Treatment of Psychiatric Disorders", U.S. Provisional Patent Application Serial No. 60/788,615 [filed April 3, 2006]

The technology is currently used by <u>128 (90 national and 38 international)</u> research groups in the following fields of study:

Anxiety Disorders (1); Brain inflammation; Bulimia; Cannabis Abuse; Childhood Anxiety Disorders; Bipolar Disorder (8 groups); Depression (23); Eating Disorders; Gambling; Impulse Control Disorders; Individual Differences (5); Internet Addiction; Nicotine Abuse (5); Obesity; Parkinson's Disease (2); Post-Traumatic Stress Disorders (2); Psychosis (3); Schizophrenia (10); Schizotypal Personality Disorder Social Anxiety Disorder; Substance Abuse (2); Video Game Addiction.

3) "Systems and Methods for Treating Depression, Including the Use of Neurobehavioral Tasks", [filed 9/24/2009; PCT filed 9/23/2010; International Publication Date: 3/31/2011 (Publication number: WO2011/038124; Application Number: PCT/US2010/050010); https://www.wipo.int

Report of Education of Patients and Service to the Community

2011 Museum of Science, Boston, MA, USA

Advisor, Hall of Human Life (provided advice and consultation for a new, permanent exhibit on human biology and health, with a focus on clinical depression)

Winchester High School, Winchester, MA, USA
Outreach activity on the topic "*The Neuroscience of Depression*"

Report of Scholarship

ORCID ID: 0000-0002-7772-1143

H-index: 56 (Thomson Reuters' Web of Science)

Citation sum: 10,528 (without self-citations)

[**] Ranks in the top 1% based on a highly cited threshold for the field of Psychiatry/ Psychology and publication year (source: Web of Science, accessed: 10/1/2019]

Research Investigations

- 1. **Pizzagalli, D.**, Koenig, T., Regard, M., Lehmann, D. (1998). Faces and emotions: Brain electric field sources during covert emotional processing. *Neuropsychologia*, **36**, 323-332.
- 2. **Pizzagalli, D.**, Regard, M., Lehmann, D. (1999). Rapid emotional face processing in the human right and left brain hemispheres. *NeuroReport*, **10**, 2691-2698.
- 3. **Pizzagalli, D.**, Koenig, T., Regard, M., Lehmann, D. (1999). Affective attitudes to face images associated with intracerebral EEG source location before face viewing. *Cognitive Brain Research*, **7**, 371-377.
- 4. **Pizzagalli, D.**, Lehmann, D., Gianotti, L., Koenig, T, Tanaka, H., Wackermann, J., Brugger, P. (2000). Brain electric correlates of strong belief in paranormal phenomena: Intracerebral EEG source and regional Omega complexity analyses. *Psychiatry Research: Neuroimaging*, **100**, 139-154.

- 5. **Pizzagalli, D.**, Lehmann, D., Koenig, T., Regard, M., Pascual-Marqui, R.D. (2000). Face-elicited ERPs and affective attitude: Brain electric microstate and tomography analyses. *Clinical Neurophysiology*, **111**, 521-531.
- 6. Lehmann, D., Faber, P.L., Achermann, P., Jeanmonod, D., Gianotti, L.R., **Pizzagalli, D**. (2001). Brain sources of EEG gamma frequency during volitionally meditation-induced, altered states of consciousness, and experience of the self. *Psychiatry Research: Neuroimaging*, **108**, 111-121.
- 7. Gianotti, L.L.R., Mohr, C., **Pizzagalli, D.**, Lehmann, D., Brugger, P. (2001). Associative processing and paranormal belief. *Psychiatry and Clinical Neurosciences*, **55**, 595-603.
- 8. Mohr, C., Graves, R.E., Gianotti, L., **Pizzagalli, D.**, Brugger, P. (2001). Loose but normal: A semantic association study. *Journal of Psycholinguistic Research*, **30**, 475-483.
- 9. Lavric, A., **Pizzagalli, D.**, Forstmeier, S., Rippon, G. (2001). A double-dissociation of English past-tense production revealed by event-related potentials and low resolution electromagnetic tomography (LORETA). *Clinical Neurophysiology*, **112**, 1833-1849.
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- 12. Whitton, A.E., Treadway, M.T, **Pizzagalli, D.A.** (2015). Reward processing dysfunction in major depression, bipolar disorder and schizophrenia. *Current Opinion in Psychiatry*, **28**, 7-12. [**]
- 13. Admon, R., **Pizzagalli, D.A.** (2015). Dysfunctional reward processing in depression. *Current Opinion in Psychology*, **4**, 114-118.
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- *Neurosciences*, **28**, 231-262.
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- 16. Ironside, M., Kumar. P., Kang, M.-S., **Pizzagalli, D.A.** (2018). Brain mechanisms mediating effects of stress on reward sensitivity. *Current Opinion in Behavioral Sciences*, **22**, 106-113.
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Commentaries/Letters to the Editor

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- 3. **Pizzagalli, D.A.** (2010). The "anhedonia paradox" in schizophrenia: Insights from affective neuroscience. *Biological Psychiatry*, **67**, 899-901. [Invited commentary]
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- 5. Krystal, J.H., ... **Pizzagalli, D.A.**, ... (2016). Constance E. Lieber, Theodore R. Stanley, and the enduring impact of philanthropy on psychiatry research. *Biological Psychiatry*, **80**, 84-86. [Invited commentary] (42nd author among 64 co-authors ordered alphabetically).
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- 8. Ang, YS, **Pizzagalli, D.A.** (2019). Understanding personal control and the brain reward system for psychopathology is challenging but important. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **4**, 105-107.
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Book Chapters

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- 2. Lehmann, D., Koenig, T., **Pizzagalli, D**. (1999). Gedanken und Emotionen im elektrischen Feld des Hirns. In: W. Machleidt, H. Haltenhof und P. Garlipp (Eds.), *Schizophrenie eine affektive Erkrankung?* Stuttgart: Schattauer, pp. 31-43.
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- 7. Davidson, R.J., **Pizzagalli, D.**, Nitschke, J.B., Kalin, N.H. (2003). Parsing the subcomponents of emotion and disorders of emotion: Perspectives from affective neuroscience. In: R.J. Davidson, K.R. Scherer, H.H., Goldsmith (Eds.), *The Handbook of Affective Science*. Oxford: University Press, pp. 8-24.
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- 15. **Pizzagalli, D.A.**, Treadway, M.T. (2014). Neuroimaging approaches to the study of Major Depressive Disorder: From regions to circuits. In: I.H. Gotlib, C.L. Hammen (Eds.), *Handbook of Depression*, 3rd Edition. New York: Guilford, pp. 202-219.
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- 19. Whitton, A.E., Treadway, M.T., Ironside, M.L., **Pizzagalli, D.A.** (2019). Neurobiological reward-related abnormalities across mood disorders. In: J. Gruber (Ed.). *The Oxford Handbook of Positive Emotion and Psychopathology*. Oxford University Press, New York, NY, pp. 223-238.

Theses

M.S. Thesis

Pizzagalli, D. (1995). EEG Reaktivität auf verbale Stimuli im Schlaf [EEG reactivity to verbal stimuli during sleep]. Master Thesis in Psychology, University of Zurich (Institute of Psychology), Zurich, Switzerland.

Ph.D. Thesis

Pizzagalli, D. (1998). Face, Word, and Emotional Processing: Electrophysiological (EEG and ERP) studies on emotions with a focus on personality. Ph.D. Thesis presented to the Faculty of Arts of the University of Zurich, Zurich, Switzerland.

Abstracts, Poster Presentations, and Exhibits Presented at Professional Meetings during the past three years

- 1. Belleau, E., Gonenc, A., Dillon, D.G., Pizzagalli, D.A. (2017, January). An investigation of white matter integrity in Major Depressive Disorder. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2017.]
- 2. Bondy, E., Lincoln, S.H., Pisoni, A, Kumar, P., **Pizzagalli, D.A.**, Auerbach, R.P. (2017, January). Neural markers underlying reward dysfunction predicts depression in adolescents. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2017.]
- 3. Cardenas, E., Ironside, M., Clegg, R., Kaiser, R., Admon, R., Goer, F., Dillon, D., Olson, D., Vitaliano, G., **Pizzagalli, D.A.** (2017, January). Effects of amisulpride on reinforcement learning. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2017.]
- 4. Clegg, R., Kaiser, R., Goer, F., Beltzer, M., Pechtel, P., Whitton, A.E., Vitaliano, G., Olson, D.P., Scott, L.A., Cardenas, E., **Pizzagalli, D.A.** (2017, January). Effects of early life stress on corticolimbic function and cortisol reactivity. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2017.]
- 5. Green, I., **Pizzagalli, D.A.**, Kumar, P. (2017, January). Assessing the effectiveness of positive mood induction in individuals with low vs. moderate anhedonia. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2017.]
- 6. Kang, M.S., Clegg, R., Frederick, B., Van der Feen, J., Aguirre, B., **Pizzagalli, D.A.**, Kaiser. R. (2017, January). Anomalies in resting-state network connectivity in adolescent depression. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2017.]
- 7. Rutherford, A., Whitton, A.E., Treadway, M.T., Ironside, M.L., Jensen, J.E., Farabaugh, A., Deckersbach, T., Öngür, D., **Pizzagalli, D.A.** (2017, January). A multi-modal assessment of (hypo)manic and anhedonic symptomology across mood disorders. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2017.]
- 8. Singleton, P., Bondy, E., Webb, C., **Pizzagalli, D.A.**, Auerbach, R. (2017, January). The impact of anhedonia on cognitive behavior therapy for depressed adolescents. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2017.]
- 9. Zegel, M., **Pizzagalli, D.A.**, Janes, A.C. (2017, January). Nicotine improves symptoms of depression for non-smokers with Major Depressive Disorder. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2017.]
- 10. Ironside, M., Admon, R., Kaiser, R., Dillon, D.G, Clegg, R., Beltzer, M., Goer, F., Olson, D.P., Vitaliano, G., **Pizzagalli, D.A.** (2017, April). Effects of childhood sexual abuse on positive versus negative reinforcement learning in MDD and resilient groups. [Poster presented at 37th Annual Conference of the Anxiety and Depression Association of America (ADAA), San Francisco, CA, April 6-9, 2017.]
- 11. Kang, M., Clegg, R., Frederick, B., Van der Feen, J., Aguirre, B., **Pizzagalli, D.A.**, Kaiser, R. (2017, April). Anomalies in resting-state network connectivity in adolescent depression. [Poster presented at 37th Annual Conference of the Anxiety and Depression Association of America (ADAA), San Francisco, CA, April 6-9, 2017.]
- 12. Rutherford, A.V., Whitton, A.E., Treadway, M.T., Ironside, M.L., Jensen, J.E., Farabaugh, A., Deckersbach, T., Öngür, D., **Pizzagalli, D.A.** (2017, April). A multi-modal assessment of (hypo)manic and anhedonic symptomology across mood disorders. [Poster presented at 37th Annual Conference of the Anxiety and Depression Association of America (ADAA), San Francisco, CA, April 6-9, 2017.]

- 13. Webb, C., Auerbach, R., Bondy, E., Stanton, C., Foti, D., **Pizzagalli, D.A.** (2017, April). Abnormal neural responses to wins and losses in adolescent depression: Time-domain and time-frequency decomposition analyses and relations to rumination. [Poster presented at 37th Annual Conference of the Anxiety and Depression Association of America (ADAA), San Francisco, CA, April 6-9, 2017.]
- 14. Liao, A., Walker, R., Carmody, T.J., Cooper, C., McInnis, M.G., Adams, P., **Pizzagalli, D.A.**, Kurian, B.T., Fava, M., Parsey, R., McGrath, P.J., Weissman, M.M., Trivedi, M.H. (2017, April). Anxiety and anhedonia in Major Depressive Disorder: The role of neuroticism, cognitive control, and reward learning. [Poster presented at 37th Annual Conference of the Anxiety and Depression Association of America (ADAA), San Francisco, CA, April 6-9, 2017.]
- 15. Ironside, M., Admon, R., Kaiser, R., Dillon, D.G, Clegg, R., Beltzer, M., Goer, F., Olson, D.P., Vitaliano, G., **Pizzagalli, D.A.** (2017, April). Effects of childhood sexual abuse on positive versus negative reinforcement learning in MDD and resilient groups. [Poster presented at Annual Harvard Medical School Psychiatry Research Day, Boston, MA, April 12, 2017.]
- 16. Nickels, S., Kangas, B., Robble, M., Bergman, J., Cardenas, E., Perlo, S., Carlezon, W., Pizzagalli, D.A. (2017, April). Novel cross-species neurophysiological assays for drug development: Stimuli validation for a human-rodent translational assay of cognitive control. [Poster presented at Annual Harvard Medical School Psychiatry Research Day, Boston, MA, April 12, 2017.]
- 17. Sturman, D.A., Webb, C.A., Fava. M., Tenke, C.E., Bruder, G., Trivedi, M., **Pizzagalli, D.A.**, and the EMBARC Team. (2017, April). Negative self-referential feelings in major depressive disorder: EEG and behavioral phenotype from the EMBARC study. [Poster presented at Annual Harvard Medical School Psychiatry Research Day, Boston, MA, April 12, 2017.]
- 18. Villegas, A.C., Lewis, S, Hurtado-Puerto, A., Dillon, D.G., **Pizzagalli, D.A.**, Camprodon, J.A. (2017, April). Using the Erickson Flanker Task to assess the cognitive impact of electroconvulsive therapy on executive control of attention. [Poster presented at Annual Harvard Medical School Psychiatry Research Day, Boston, MA, April 12, 2017.]
- 19. Webb, C.A., Trivedi, M., Fava, M., McGrath, P., Weissman, M., Parsey, R., Dillon, D.G., Pechtel. P., Goer, F., Trombello, J., Cooper, C., Deldin, P., Tenke, C.E., Carmody, T., Bruder, G., **Pizzagalli, D.A.** (2017, April). The incremental predictive validity of rostral anterior cingulate cortex activity in relation to treatment response in depression: Evidence from the EMBARC study. [Poster presented at Annual Harvard Medical School Psychiatry Research Day, Boston, MA, April 12, 2017.]
- 20. **Pizzagalli, D.A.**, Whitton, A., Van't Veer, A., Donahue, R., Carlezon, W (2017, May). Aberrant error processing in depressive phenotypes: Cross-species confluence and initial electrophysiological markers. Biological Psychiatry, 81, S315. [Oral presentation at the 72nd Annual Meeting of the Society of Biological Psychiatry (SOBP), San Diego, CA, May 18-20, 2017.]
- 21. Webb, C.W., Trivedi, M., Fava, M., McGrath, P., Weissman, M., Parsey, R., Dillon, D., Pechtel, P., Goer, F., Adams, P., Trombello, J., Cooper, C., Deldin, P., Tenke, C., Carmody, T., Bruder, G., **Pizzagalli, D.A.** (2017, May. The incremental predictive validity of rostral anterior cingulate cortex activity in relation to treatment response in depression: Evidence from the EMBARC study. *Biological Psychiatry*, 81, S72. [Poster presented at the 72nd Annual Meeting of the Society of Biological Psychiatry (SOBP), San Diego, CA, May 18-20, 2017.]
- 22. Webb, C.W., Olson, E., Killgore, W.D.S., **Pizzagalli, D.A.**, Rauch, S.L., Rosso, I.M. (2017, May). Anterior cingulate cortex morphology predicts treatment response to internet-based CBT for

- depression. *Biological Psychiatry*, 81, S161. [Oral presentation at the 72nd Annual Meeting of the Society of Biological Psychiatry (SOBP), San Diego, CA, May 18-20, 2017.]
- 23. Whitton, A.E., **Pizzagalli, D.A.** (2017, May). Spectral EEG dynamics of large-scale functional network disturbances in depression. *Biological Psychiatry*, 81, S58. [Poster presented at the 72nd Annual Meeting of the Society of Biological Psychiatry (SOBP), San Diego, CA, May 18-20, 2017.]
- 24. Yapici-Eser, H., Yasemin Eren, C., Gonen, M., Kandemir, H., Yazici, D., Chen, C.Y., Ongur, D., Pizzagalli, D.A., Hall, M.H. (2017, May). Association between GLP1 receptor gene polymorphisms and reward learning across psychiatric diagnoses. *Biological Psychiatry*, 81, S369 [Poster presented at the 72nd Annual Meeting of the Society of Biological Psychiatry (SOBP), San Diego, CA, May 18-20, 2017.]
- 25. Clegg, R., Kaiser, R.H., Cardenas, E., Goer, F., Beltzer, M., Pechtel, P., Vitaliano, G., Olson, D.P., Teicher, M., **Pizzagalli, D.A.** (2017, May). Differences in corticolimbic function and cortisol reactivity in women with childhood trauma. [Poster presentation at the 29th Annual Convention of the Association of Psychological Science (APS), Boston, MA, May 25-28, 2017.]
- 26. Lawlor, V., Webb, C., Trivedi, M., Fava, M., McGrath, P.J., Weissman, M., Parsey, R., McInnis, M., Oquendo, M.A., Cusin, C., Deldin, P., Bruder, G., **Pizzagalli, D.A.**, Dillon, D.G. (2017, May). Drift-diffusion modeling of reward learning in depression. [Poster presentation at the 29th Annual Convention of the Association for Psychological Science (APS), Boston, MA, May 25-28, 2017.]
- 27. Liverant, G.I., Sawyer, A.T., Jun, J.J., Lee, D.J., **Pizzagalli, D.A.**, Sloan, D.M. (2017, May). Punishment learning in veterans with posttraumatic stress disorder. [Oral presentation at 29th Annual Convention of the Association of Psychological Science (APS), Boston, MA, May 25-28, 2017.]
- 28. Rosebrock, L.E., Liverant, G.I., Sloan, D.M., **Pizzagalli, D.A.**, Kamholz, B.W. (2017, May). Associations among smoking, anhedonia, and reward learning in depression. [Oral presentation at 29th Annual Convention of the Association of Psychological Science (APS), Boston, MA, May 25-28, 2017.]
- 29. Kang, M., Clegg, R., Frederick, B., Van der Feen, J., Aguirre, B., **Pizzagalli, D.A.**, Kaiser, R. (2017, May). Anomalies in resting-state connectivity underlying comorbid anxiety in adolescent depression. [Poster presented at the 29th Association for Psychological Science Annual Convention (APS), Boston, MA, May 25-28, 2017.]
- 30. Kumar, P., Goer, F., Murray, L.M., Beltzer, M., **Pizzagalli, D.A.** (2017, June). Impaired prediction error encoding and striatal-midbrain connectivity during reward learning in depression. [Poster presented at the Organization for Human Brain Mapping (OHBM) Annual Meeting, Vancouver, Canada, June 25-29, 2017.]
- 31. Whitton, A.E., Deccy, S., Ironside, M.L., **Pizzagalli, D.A.** (2017, June). Abnormal high frequency resting-state EEG source functional connectivity in depression. [Poster presented at the Organization for Human Brain Mapping (OHBM) Annual Meeting, Vancouver, Canada, June 25-29, 2017.]
- 32. Sperl, M.F.J., Panitz, C., Rosso, I.M., Dillon, D.G., Kumar, P., Hermann, A., Whitton, A.E., Hermann, C., **Pizzagalli, D.A.**, Mueller, E.M. (2017, September). Fear extinction recall modulates human fronto-medial theta and amygdala activity during simultaneous EEG-fMRI. *Journal of Neural Transmission*, 124, 1304. International Congress of the World Association for Stress Related and Anxiety Disorders, WASAD, Wuerzburg, Germany). September 14-16, 2017.
- 33. Cardenas, E., Belleau, E., Clegg, R., Goer, F., Beltzer, M., Olson, D.P., Vitaliano, G., Kaiser, R.H., Teicher, M., Pizzagalli, D.A. (2017, September). The effects of Major Depressive Disorder and

- child sexual abuse on corticostriatal connectivity. [Poster presented at the 31st Annual Meeting of the Society for Research in Psychopathology, Denver, CO, September 14-17, 2017.]
- 34. Jiang, Y., Green, I., **Pizzagalli, D.A.**, Kumar, P. (2017, September). Model-based learning in individuals with depression. [Poster presented at the 31st Annual Meeting of the Society for Research in Psychopathology, Denver, CO, September 14-17, 2017.]
- 35. Singleton, P., Bondy, E., Stewart, J.G., Webb, C.A, **Pizzagalli, D.A.**, Auerbach, R.P. (2017, September). Electrocortical reward-related markers among healthy and borderline personality disorder youth. [Poster presented at the 31st Annual Meeting of the Society for Research in Psychopathology, Denver, CO, September 14-17, 2017.]
- 36. Kumar, P., Di Simplicio, M., Alfarano, G., Holmes, E., **Pizzagalli, D.A.** (2017, October). Impaired reinforcement learning in euthymic bipolar patients. Psychophysiology, 54, S31. [Oral presentation at the 57th Annual Meeting of the Society for Psychophysiological Research, Vienna, Austria, October 11-15, 2017.]
- 37. Robble, M., Nickels, S., Wooldridge, L., Cárdenas, E., Perlo, S., Kangas, B., Bergman, J., Carlezon, W., **Pizzagalli D.A.** (2017, November). A cross-species neurophysiological assay of cognitive control: Development of a touchscreen-based rodent analog of the Flanker Task. [Poster presented at the Annual Meeting of the Society for Neuroscience, Washington, DC, November 11-15, 2017.]
- 38. Cárdenas, E.F., Belleau, E., Clegg, R., Goer, F., Beltzer, M., Olson, D.P., Vitaliano, G., Kaiser, R.H., Teicher, M., **Pizzagalli, D.A.** (2017, November). Corticostriatal abnormalities in women with childhood sexual abuse and Major Depressive Disorder. [Poster presented at the Annual Meeting of the Association for Behavioral and Cognitive Therapies (ABCT), San Diego, CA, November 16-19, 2017.]
- 39. Ironside, M.A., Amemori, K., Kang, M.S, Curry, J., McGrath, C., Etkin, A., Graybiel, A.M., Pizzagalli, D.A. (2017, December). The neurocircuitry of approach-avoidance decisions in depression: II. Towards a cross species model of utility and motivation. Neuropsychopharmacology, 43, S558-S559. [Poster presented at the 56th annual meeting of the American College of Neuropsychopharmacology (ACNP), Palm Springs, CA, December 3-7, 2017.]
- 40. Kang, M.S., Ironside, M.A., Amemori, K., Curry, J., Mehta, M., McGrath, C.L., Graybiel, A.M., Pizzagalli, D.A. (2017, December). The neurocircuitry of approach-avoidance decisions in depression: I. Neuroeconomic modeling of reward and utility in decision-making. *Neuropsychopharmacology*, 43, S193-S194. [Poster presented at the 56th annual meeting of the American College of Neuropsychopharmacology (ACNP), Palm Springs, CA, December 3-7, 2017.]
- 41. Moran, L., Stoeckel, L., Wang, K., Caine, C., Calderon, V., Villafuerte, R., Baker, J., Janes, A., Ongur, D., Evins, A.E., **Pizzagalli, D.A.** (2017, December). Nicotine-induced activation of caudate and anterior cingulate cortex in response to errors in schizophrenia. Neuropsychopharmacology, 43, S603-S604. [Poster presented at the 56th annual meeting of the American College of Neuropsychopharmacology (ACNP), Palm Springs, CA, December 3-7, 2017.]
- 42. Reinen, J.M., Whitton, A.E, **Pizzagalli, D.A.**, Silfstein, M., Abi-Dargham, A., McGrath, P.J, Iosifescu, D., Schneier, F.R. (2017, December). Major depressive disorder is associated with blunted learning signals in medial prefrontal cortex and putamen when seeking monetary reward. *Neuropsychopharmacology*, 43, S559-S560. [Poster presented at the 56th annual meeting of the American College of Neuropsychopharmacology (ACNP), Palm Springs, CA, December 3-7, 2017.]

- 43. Robble, M., Kangas, B., Nickels, S., Wooldridge, L., Cardenas, E., Perlo, S., Bergman, J., Carlezon, W., **Pizzagalli, D.A.** (2017, December). Development of a touchscreen-based rodent Flanker task: Empirical evaluation of visual stimuli. *Neuropsychopharmacology*, 43, S186-S187. [Poster presented at the 56th annual meeting of the American College of Neuropsychopharmacology (ACNP), Palm Springs, CA, December 3-7, 2017.]
- 44. Schneier, F.R., Slifstein, M., Whitton, A.E., **Pizzagalli, D.A.**, McGrath, P.J., Iosifescu, D., Abi-Dargham, A. (2017, December). Dopamine release in treatment-naïve major depressive disorder: A [11C]-(+)-PHNO positron emission tomography study. *Neuropsychopharmacology*, 43, S544-S545. [Poster presented at the 56th annual meeting of the American College of Neuropsychopharmacology (ACNP), Palm Springs, CA, December 3-7, 2017.]
- 45. Whitton, A.E., Reinen, J., Slifstein, M., McGrath, P.J., Iosifescu, D., Abi-Dargham, A., Pizzagalli, D.A., Schneier, F.R. (2017, December). A behavioral measure of probabilistic reward learning predicts clinical response to pramipexole in individuals with major depressive disorder. Neuropsychopharmacology, 43, S165-S166. [Data Blitz oral presentation at the 56th annual meeting of the American College of Neuropsychopharmacology (ACNP), Palm Springs, CA, December 3-7, 2017.]
- 46. Appleman, L., Bachetti, J., **Pizzagalli, D.A.**, Webb, C.A. (2018, January). The effects of mindwandering on adolescent affect: An ecological momentary assessment study. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2018.]
- 47. Cardenas, E., Nickels, S., Perlo, S., Kangas, B., Robble, M., Bergman, J., Carlezon, W., **Pizzagalli, D.A**. (2018, January). Paving the way for a cross-species neurophysiological assay: Validation of feedback-related negativity (FRN) as a marker of cognitive flexibility. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2018.]
- 48. Jiang, Y., **Pizzagalli, D.A.**, Kumar, P. (2018, January). The effects of dopamine on reinforcement learning in depressed individuals. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2018.]
- 49. Kang, M.S., Ironside, M.A., Rutherford, A., Boyden, S., Olson, D. P., Cusin, C., **Pizzagalli, D.A.** (2018, January). Effect of acute stress on model-based learning in depression. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2018.]
- 50. Molokotos, E.K., Zegel, M., **Pizzagalli, D.A.**, Janes, A.C. (2018, January). Resting-state network coupling in Major Depressive Disorder during acute nicotine administration. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2018.]
- 51. Nascimento, N.F., Perlo, S., Richards, C.E., Ironside, M., Zuo, C.S., Du, F., Chen, X., Jensen, J.E., Olson, D.P., Holsen, L.M., Goldstein, J.M., **Pizzagalli, D.A.** (2018, January). Optimizing magnetic resonance spectroscopy protocol for GABA on a 3T Prisma: A methodological overview. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2018.]
- 52. Perlo, S., Nascimento, N.F., Richards, C.E., Ironside, M., Ludwick, A.M., Becerra, L., Misra, M., Holsen, L.M., Goldstein, J.M., **Pizzagalli, D.A.** (2018, January). Development of a fMRI-compatible acute stress paradigm: Lessons from three pilot studies. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2018.]
- 53. Robble, M., Kangas, B.D., Nickels, S., Wooldridge, L., Cárdenas, E.F., Perlo, S.L., Bergman, J., Carlezon, W.A., Jr., **Pizzagalli, D.A.** (2018, January). A cross-species neurophysiological assay of cognitive control: Development of a touchscreen-based rodent analog of the Flanker Task. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2018.]
- 54. Rutherford, A.V., Whitton, A.E., Ironside, M.L., Jensen, J.E, Du, F., Farabaugh, A., Deckersbach, T., Ongur, D., **Pizzagalli, D.A.** (2018, January). Anterior cingulate glutamate levels are linked to

- abnormal high-frequency resting-state functional connectivity in bipolar disorder. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2018.]
- 55. Singleton, P., Bondy, E., Stewart, J.G., Webb, C.A., Aguirre, B., Kaplan, C., **Pizzagalli, D.A.**, Auerbach, R.P. (2018, January). Electrocortical reward-related markers among healthy and Borderline Personality Disorder youth. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2018.]
- 56. Zegel, M.R., Moran, L.V., Olson, D.P., **Pizzagalli, D.A.,** Janes, A.J. (2018, January). Nicotine normalizes cortico-striatal connectivity in non-smokers with Major Depressive Disorder. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2018.]
- 57. Zhang, B.Y., Kang, M.S., Ironside, M.A., Rutherford, A., Crowley, D., **Pizzagalli, D.A.** (2018, January). Elevated glucocorticoid stress response in major depressive disorder. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2018.]
- 58. Alvarenga, J.E., Keilp, J., Webb, C., Dillon, D.G., Deldin, P., Alschuler, D.A., Abraham, K., Adams, P., Fava, M., McGrath, P., Oquendo, M.A., Trivedi, M., Weissman, M., **Pizzagalli, D.A.**, Bruder, G.E. (2018, March). Cognitive performance in patients having Major Depressive Disorder (MDD) and healthy controls: Word fluency and psychomotor speed findings in the multisite EMBARC study. [Poster to be presented at the 108th Annual Meeting of the American Psychopathological Association, New York, NY, March 1-3, 2018.]
- 59. Du, F., Chen, X., Fan, X., Hu, Y., Zuo, C., Gabrieli, S., Holt, D., Gong, Q., Yang, Y., **Pizzagalli, D.A.**, Ongur, D. (2018, May). Regional GABA concentrations modulate inter-network resting-state functional connectivity. [Poster presented at the 73rd Annual Meeting of the Society of Biological Psychiatry (SOBP) in New York, NY, May 10-12, 2018.]
- 60. Giles, M., Cooper, C., Jha, M., Chin-Fatt, C., Grannemann, B., **Pizzagalli, D.A.**, Webb, C., Etkin, A., Trombello, J., Ali, A., Chase, H., Phillips, M., McInnis, M., Carmody, T., Adams, P., Parsey, R., McGrath, P., Weissman, M., Kurian, B., Fava, M., Trivedi, M. (2018, May). Reward behavior disengagement: A novel, objective, and prognostic measure of anhedonic behavior in Major Depression. [Poster presented at the 73rd Annual Meeting of the Society of Biological Psychiatry (SOBP) in New York, NY, May 10-12, 2018.]
- 61. Ironside, M., Amemori, K., McGrath, C., Kang, M.S., Curry, J., Etkin, A., Graybiel, A.M., **Pizzagalli, D.A.** (2018, May). The neurocircuitry of approach-avoidance decisions in depression: Towards a cross species model. [Poster presented at the 73rd Annual Meeting of the Society of Biological Psychiatry (SOBP) in New York, NY, May 10-12, 2018.]
- 62. Kayser, J., Tenke, C.E., Petkova, E., Wong, L.Y.X., Wickramaratne, P., Alschuler, D.M., Alvarenga, J.E., Abraham, K., Pechtel, P., Webb, C.A., Dillon, D.G., Deldin, P., Cooper, C., Trombello, J., McGrath, P.J., Fava, M., Oquendo, M.A., Trivedi, M.H., Weissman, M.M., Pizzagalli, D.A., Bruder, G.E. (2018, May). Loudness Dependency of Auditory Evoked Potentials (LDAEP) as a differential predictor of antidepressant treatment response in Major Depressive Disorder (MDD): Results from the sertraline/placebo-controlled EMBARC study. [Poster presented at the 73rd Annual Meeting of the Society of Biological Psychiatry (SOBP) in New York, NY, May 10-12, 2018.]
- 63. Keilp, J., Alvarenga, J., Webb, C., Dillon, D., Deldin, P., Alschuler, D., Abraham, K., Adams, P., Fava, M., McGrath, P., Oquendo, M., Trivedi, M., Weissman, M., **Pizzagalli, D.A.**, Bruder, G. (2018, May). Cognitive performance predictors of response to antidepressants in the 2nd treatment phase of the multisite EMBARC study: Word fluency and psychomotor speed findings. [Poster presented at the 73rd Annual Meeting of the Society of Biological Psychiatry (SOBP) in New York, NY, May 10-12, 2018.]

- 64. Molokotos, E., Zegel, M., **Pizzagalli, D.A.**, Janes, A. (2018, May). A Preliminary evaluation of nicotine's impact on functional connectivity in Major Depressive Disorder. [Poster presented at the 73rd Annual Meeting of the Society of Biological Psychiatry (SOBP) in New York, NY, May 10-12, 2018.]
- 65. Perlo, S., Nascimento, N.F., Richards, C.E., Kang, M.S., Ironside, M., Ludwick, A.M., Becerra, L., Misra, M., Holsen, L.M., Goldstein, J.M., Pizzagalli, D.A. (2018, May). Development of an fMRI-compatible acute stress paradigm: Optimization and initial results. [Poster presented at the 73rd Annual Meeting of the Society of Biological Psychiatry (SOBP) in New York, NY, May 10-12, 2018.]
- 66. Richards, C.E., Holsen, L.M., Perlo, S., Nascimento, N.F., Ironside, M., Misra, M., Pizzagalli, D.A., Goldstein, J.M. (2018, May). Validation of an MR imaging-compatible acute stress paradigm in healthy young adults. [Poster presented at the 73rd Annual Meeting of the Society of Biological Psychiatry (SOBP) in New York, NY, May 10-12, 2018.]
- 67. Rutherford, A.V., Whitton, A.E., Ironside, M.L., Jensen, J.E., Du, F., Farabaugh, A., Deckersbach, T., Öngür, D., **Pizzagalli, D.A.** (2018, May). Rostral anterior cingulate glutamate levels are linked to abnormal high-frequency resting-state functional connectivity in Bipolar Disorder. [Poster presented at the 73rd Annual Meeting of the Society of Biological Psychiatry (SOBP) in New York, NY, May 10-12, 2018.]
- 68. South, C., Jha, M., Rush, A.J., Cao, J., Cooper, C., Trombello, J., Phillips, M.L., Carmody, T., Parsey, R., Oquendo, M.A., McGrath, P., Bruder, G., Tenke, C.E., Weissman, M., **Pizzagalli, D.A.**, Kurian, B., Fava, M., Trivedi, M. (2018, May). Identifying characteristics of placebo responders in Major Depression from the EMBARC study. [Poster presented at the 73rd Annual Meeting of the Society of Biological Psychiatry (SOBP) in New York, NY, May 10-12, 2018.]
- 69. Whitton, A., Green, A., **Pizzagalli, D.A.**, Williams, J., Brunette, M. (2018, May). Potent dopamine D2 receptor antagonists block the reward-enhancing effects of nicotine in smokers with schizophrenia. [Poster presented at the 73rd Annual Meeting of the Society of Biological Psychiatry (SOBP) in New York, NY, May 10-12, 2018.]
- 70. Yang, J., Zhang, M., Ahn, H., Zhang, Q., Jin, T., Li, J., Nemesure, M., Joshi, N., Jiang, H., Miller, J., Ogden, T., Petkova, E., Milak, M.S., Sublette, M.E., Sullivan, G., Trivedi, M., Weissman, M., McGrath, P., Fava, M., Kurian, B., Pizzagalli, D.A., Cooper, C., McInnis, M., Oquendo, M., Mann, J.J., Parsey, R., DeLorenzo, C. (2018, May). Development and evaluation of a multimodal marker of Major Depressive Disorder. [Poster presented at the 73rd Annual Meeting of the Society of Biological Psychiatry (SOBP) in New York, NY, May 10-12, 2018.]
- 71. Yang, X., Nickerson, L., Kumar, P., **Pizzagalli, D.A.**, Ma, X. (2018, May). Limbic and frontal cortex gray matter structural covariance networks in unmedicated Major Depressive Disorder. [Poster presented at the 73rd Annual Meeting of the Society of Biological Psychiatry (SOBP) in New York, NY, May 10-12, 2018.]
- 72. Yasemin Eren, C., Sancak, S., Yazıcı, D., Pinar Uysal, S., Whitton, A., Rutherford, A., **Pizzagalli, D.A.**, Yapici Eser, H. (2018, May). Effect of GLP-1 agonists use on cognitive and affective functioning in type 2 diabetes mellitus patients: A preliminary study. [Poster presented at the 73rd Annual Meeting of the Society of Biological Psychiatry (SOBP) in New York, NY, May 10-12, 2018.]
- 73. Bauer, C., Siless, V., Wang, J., Goncalves, M., Frosch, I., Hubbard, N.A., Vergara, G., Conroy, K., Vaz De Souza, F., Rosso, I, Hirshfeld-Becker, D.R., Henin, A., Hofmann, S., **Pizzagalli, D.**, Ghosh, S., Auerbach, R., Yendiki, A., Gabrieli, J.D.E., Whitfield-Gabrieli, S. Boston Adolescent Neuroimaging of Depression and Anxiety Consortium: Preliminary resting-state results (2018,

- June). [Poster to be presented at the Organization for Human Brain Mapping, Singapore, June 17-21, 2018.]
- 74. Hubbard, N.A., Goncalves, M., Frosch, I., Siless, V., Wang, J., Vergara, G., Conroy, K., Bauer, C., Vaz De Souza, F., Rosso, I, Hirshfeld-Becker, D.R., Henin, A., Hofmann, S., **Pizzagalli, D.**, Ghosh, S., Auerbach, R., Yendiki, A., Gabrieli, J.D.E., Whitfield-Gabrieli, S. Boston Adolescent Neuroimaging of Depression and Anxiety Consortium: Preliminary task fMRI results. (2018, June). [Poster to be presented at the Organization for Human Brain Mapping, Singapore, June 17-21, 2018.]
- 75. Siless, V., Wang, J., Vergara, G., Hubbard, N.A., Bauer, C., Goncalves, M., Frosch, I., Conroy, K., Vaz De Souza, F., Rosso, I., Hirshfeld-Becker, D.R., Henin, A., Hofmann, S., **Pizzagalli, D.**, Ghosh, S., Gabrieli, J.D.E., Whitfield-Gabrieli, S., Auerbach, R., Yendiki, A. Boston Adolescent Neuroimaging of Depression and Anxiety Consortium: Preliminary diffusion MRI results. (2018, June). [Poster to be presented at the Organization for Human Brain Mapping, Singapore, June 17-21, 2018.]
- 76. Rizvi S.J., McInerney, S., Bermans, Y., Salomons, T., **Pizzagalli, D.A.**, Turecki, G., Kennedy, S.H. Reward learning contingencies as a marker of high suicide risk. [Poster presented at 17th European Symposium on Suicide & Suicidal Behaviour, September 5-8, 2018, Ghent, Belgium.]
- 77. Lawlor, V., Singleton, P., Webb, C.A., Dillon, D., **Pizzagalli, D.A.**, Auerbach, R.P. (2018, September). Drift-diffusion modeling of reward learning in depressed adolescents: Baseline, reliability, and treatment effects. [Poster presented at the 32nd Annual Meeting of the Society for Research in Psychopathology, Indianapolis, IN, September 20-23, 2018.]
- 78. Rutherford, A.V., Whitton, A.E., Ironside, M.L., Farabaugh, A., Deckersbach, T., Ongur, D., **Pizzagalli, D.A.** (2018, September). Abnormal high-frequency resting-state functional connectivity differentiates major depressive disorder from bipolar disorder. [Poster presented at the 32nd Annual Meeting of the Society for Research in Psychopathology, Indianapolis, IN, September 20-23, 2018.]
- 79. Mirin, N., Baker, J., Dillon, D., Vogel, S., Rutter, L., **Pizzagalli, D.A.**, Germine, L. (2018, September). Development of an RDoC field test battery for capturing neurocognition and digital phenotypes. [Poster presented at the 32nd Annual Meeting of the Society for Research in Psychopathology, Indianapolis, IN, September 20-23, 2018.]
- 80. Tan, A., Costi, S., Morris, L.S., Van Dam, N.T., Kautz, M., Whitton, A.E., Friedman, A.K., Collins, K.A., Ahle, G., **Pizzagalli, D.A.**, Iosifescu, D.V., Nestler, E.J., Han, M-H, Murrough, J.W. (2018, October). Effects of the KCNQ channel opener ezogabine on functional connectivity of the ventral striatum and clinical symptoms in patients with major depressive disorder. [Oral presentation at the Annual Meeting of the American Society of Clinical Psychopharmacology (ASCP), New York, October 6-7, 2018.]
- 81. Frosch, I., Hubbard, N.A., Goncalves, M., Siless, V., Wang, J., Vergara, G., Conroy, K., Bauer, C., Vaz De Souza, F., Kaczmarzyk, J.R., Rosso, I., Hirshfeld-Becker, D.R., Henin, A., Hofmann, S., **Pizzagalli, D.A.**, Ghosh, S., Auerbach, R., Yendiki, A., Gabrieli, J.D.E., Whitfield-Gabrieli, S. (2018, November). fMRI activation predicts depressive episodes in highly-comorbid adolescents. [Poster presented at the Annual Meeting of the Society for Neuroscience, San Diego, CA, November 3-7, 2018.]
- 82. Robble, M., Nickels, S., Kangas, B., Wooldridge, L., Cárdenas, E.F., Perlo, S.L., Bergman, J., Carlezon, W.A. Jr., **Pizzagalli, D.A.** (2018, November). A novel cross-species neurophysiological assay of cognitive control: Development of a touchscreen-based rodent

- Flanker Task. [Poster presented at the Annual Meeting of the Society for Neuroscience, San Diego, CA, November 3-7, 2018.]
- 83. Pedersen, M.L., Ironside, M., McGrath, C.L., Amemori, K-I., Kang, M., Graybiel, A.M., Frank, M.J., **Pizzagalli, D.A.** (2018, November). Computational phenotyping of brain-behavioral relationships underlying approach-avoidance decision making in major depressive disorder. [Poster presented at the Annual Meeting of the Society for Neuroscience, San Diego, CA, November 3-7, 2018.]
- 84. Breiger, M., Schroder, H., Perlo, S., Cardenas, E., Guthrie, S., Nickels, S., **Pizzagalli, D.A.** (2019, January). Comparing two methods of calculating post-error slowing: A neurobehavioral investigation. [Poster presented at McLean Research Day, Belmont, MA, January 30, 2019.]
- 85. Brunner, D., Ironside, M.A., Kang, M.S., Rutherford, A.V., Boyden, S.D., Olson, D.P., Cusin, C., **Pizzagalli, D.A.** (2019, January). Effect of acute stress on model-based learning in depression. [Poster presented at McLean Research Day, Belmont, MA, January 30, 2019.]
- 86. Israel, E., Belleau, E.L. **Pizzagalli, D.A.**, Webb, C.A. (2019, January). The Relation between mindwandering, brain functional connectivity, and negative affect in adolescents: An ecological momentary assessment study. [Poster presented at the McLean Hospital Research Day, Belmont, MA, January 30, 2019.]
- 87. Mirin, N.L., Baker, J.T., Dillon, D.G., Vogel, S.C., Rutter, L.A., **Pizzagalli, D.A.**, Germine, L. (2019, January). Development of an RDoC field test battery for capturing neurocognition and digital phenotypes. [Poster presented at McLean Research Day, Belmont, MA, January 30, 2019.]
- 88. Moser, A.D., Perlo, S., Richards, C.E., Nascimento, N.F., Holsen, L.M., Ironside, M., Du, F., Zuo, C., Ang, Y., Misra, M., Goldstein, J.M.*, **Pizzagalli, D.A.*** (2019, January). Preliminary findings on the effect of stress and GABA on reward sensitivity. [Poster presented at McLean Research Day, Belmont, MA, January 30, 2019.] *Equal senior contribution
- 89. Perlo, S., Richards, C.E., Moser, A.D., Nascimento, N.F., Holsen, L.M., Ironside, M., Misra, M., Goldstein, J.M.*, **Pizzagalli, D.A.*** (2019, January). Neural correlates of stress circuitry in major depressive disorder in young adults. [Poster presented at McLean Research Day, Belmont, MA, January 30, 2019.] *Equal senior contribution
- 90. Robble, M., Nickels, S., Kangas, B.D., Schroder, H., Wooldridge, L., Cárdenas, E.F., Perlo, S.L., Bergman, J., Carlezon, W.A. Jr., **Pizzagalli, D.A.** (2019, January). Development of a touchscreen-based Flanker Task in rats for translational studies of cognitive control. [Poster presented at McLean Research Day, Belmont, MA, January 30, 2019.]
- 91. Israel, E., Belleau, E.L. **Pizzagalli, D.A.**, Webb, C.A. (2019, March). The neural and affective correlates of mind-wandering in adolescents: An ecological momentary assessment study. [Poster presented at the annual meeting of the Society for Affective Science, Boston, MA, March 21-23, 2019.]
- 92. Dillon, D.G., Lawlor, V.M., Webb, C.A., Wiecki, T.V., Frank, M.J., Trivedi, M., **Pizzagalli, D.A**. (2019, March). Dissecting the impact of depression on decision making. [Poster presented at the annual meeting of the Society for Affective Science, Boston, MA, March 21-23, 2019.]
- 93. Boukezzi, S., Dillon, D.G., Cerit, H., Durham, L., Ryder, B., Goldstein, J.M., **Pizzagalli, D.A.**, Holsen, L.M. (2019). Sex differences in stress-induced reward processing in Major Depressive Disorder (MDD). [Poster presented at the 74th Annual Meeting of the Society of Biological Psychiatry (SOBP) in Chicago, IL, May 16-18, 2019.]
- 94. Germine, L., Dillon, D.G., Baker, J., Passell, E., Vogel, S., Scheuer, L., Mirin, N., Rutter, L., **Pizzagalli, D.A.** (2019, May). Digital cognitive assessment: Results from the Testmybrain NIMH

- RDoC field test battery report. [Poster presented at the 74th Annual Meeting of the Society of Biological Psychiatry (SOBP) in Chicago, IL, May 16-18, 2019.]
- 95. Lawlor, V., Webb, C., Wiecki, T., Frank, M., Trivedi, M., **Pizzagalli, D.A.**, Dillon, D. (2019, May). Dissecting the impact of depression on decision-making during a Probabilistic Reward Task. [Poster presented at the 74th Annual Meeting of the Society of Biological Psychiatry (SOBP) in Chicago, IL, May 16-18, 2019.]
- 96. Lee, Y-J., Anteraper, S.A., Hubbard, N., Yendiki, A., **Pizzagalli, D.A.**, Auerbach, R., Hofmann, S.G., Whitfield-Gabrieli, S. (2019, May). Intrinsic brain network implicated in the behavioral inhibition system of adolescents with depression/anxiety. [Poster presented at the 74th Annual Meeting of the Society of Biological Psychiatry (SOBP) in Chicago, IL, May 16-18, 2019.]
- 97. **Pizzagalli, D.A.***, Ironside, M.*, Amemori, K-I., McGrath, C.L., Kang, M.S., Amemori, S., Dougherty, D., Frank, M.J., Graybiel, A.M. (2019, May). Human and non-human primate investigations of approach-avoidance conflict: Relevance to depression and anxiety disorders. [Poster presented at the 74th Annual Meeting of the Society of Biological Psychiatry (SOBP) in Chicago, IL, May 16-18, 2019.] [*Co-first author]
- 98. Punia, K., MacKillop, J., 1,2, Whitton, A.E., **Pizzagalli, D.A.**, Balodis, I.M. (2019, May). A pilot investigation of acute stress effects on reward learning in heavy cannabis users. [Poster presented at the 74th Annual Meeting of the Society of Biological Psychiatry (SOBP) in Chicago, IL, May 16-18, 2019.]
- 99. Breiger, M., Schroder, H., Perlo, S., Cardenas, E., Nickels, S., **Pizzagalli, D.A.** (2019, May). Feedback improves beural and behavioral error monitoring. [Poster presented at the American Psychological Society Annual Convention, Washington, DC, May 23, 2019.]
- 100. Perlo, S., Ironside, M., Richards, C.E., Moser, A.D., Nascimento, N.F., Holsen, L.M., Misra, M., Goldstein, J.M.*, Pizzagalli, D.A.* (2019, May). Neural correlates of stress circuitry in major depressive disorder in young adults. [Poster presented at the American Psychological Society Annual Convention, Washington, DC, May 23, 2019.] *Equal senior contributions
- 101. Krystal A., **Pizzagalli, D.A.** et al. (2019, May). NIMH FAST-MAS phase IIa study of the effects of the selective κ opioid antagonist JNJ-67953964 on fMRI ventral striatal activation during the Monetary Incentive Delay Test in anhedonic patients across the Mood and anxiety spectrum disorders. [Oral presentation at the Annual Meeting of the American Society of Clinical Psychopharmacology (ASCP), May 27-31, 2019.]
- 102. Molokotos, E., Peechatka, A., **Pizzagalli, D.A.**, Janes, A.C. (2019, June). Caudate reactivity to smoking cues is associated with increased response bias to monetary rewards. [Poster presented at the 81st Annual Meeting of the College on Problems of Drug Dependence, San Antonio, TX, June 15-19, 2019.]
- 103. Sperl, M.F.J., Panitz, C., Skoluda, N., Nater, U.M., **Pizzagalli, D.A.**, Hermann, C., & Mueller, E.M. (2019, May). Pharmacological augmentation of exposure therapy: Can long-term fear conditioning and extinction be modulated by the α2-adrenoreceptor antagonist yohimbine or by the D2 receptor antagonist sulpiride? [Talk during the Young Scientists Symposium at the Clinical Psychology Meeting of the German Psychological Society (DGPs), Erlangen, Germany, May 29-June 01, 2019.]
- 104. Pedersen, M.L, Ironside, M., Amemori, K., McGrath, C.L., Kang, M., Graybiel, A.M., Dougherty, D.D., **Pizzagalli D.A.**, Frank, M.J. (2019, September). Computational modeling of cognitive processes underlying approach decisions in non-human primates and patients with major depressive disorder a translational approach. [Poster presented at the 7th International Symposium on Motivational and Cognitive Control, Berlin, Germany, September 16-18, 2019.]

- 105. Lovell-Smith, N.M., Israel, E., Beard, C., Christensen, K., Bjorgvinsson, T., **Pizzagalli, D.A.**, Webb, C.A. (2019, September). The relation between cognitive control and depression outcome in a naturalistic psychiatric setting. [Poster presented at the annual meeting of the Society for Research in Psychopathology, Buffalo, NY, September 19-22, 2019.]
- 106. Moser, A.D., Ironside, M., Richards, C.E., Perlo, S., Nascimento, N.F., Holsen, L.M., Misra, M., Goldstein, J.M., Pizzagalli, D.A. (2019, September). Altered Functional Connectivity Between Frontal Cortex and Hypothalamic–pituitary–adrenal Axis Under Acute Stress In Major Depressive Disorder. Poster presented at the annual meeting of the Society for Research in Psychopathology, Buffalo, NY, September 19-22, 2019.]
- 107. Liu, Y., Admon, R., Belleau, E.M., Kaiser, R.H., Clegg, R., Beltzer, M., Goer, F., Vitaliano, G., Ahammad, P., **Pizzagalli, D.A.** (2019, October). Machine learning identifies large-scale reward-related activity modulated by dopaminergic enhancement in major depression. [Poster presented at the Annual Meeting of the Society for Neuroscience, Chicago, IL, October 19-23, 2019.]
- 108. Romoli, B., Prakash, N., Der-Avakian, A., Berretta, S., **Pizzagalli, D.A.**, Dulcis, D. (2019, October). Stress-induced neuroplasticity of nociceptin and its receptor: A mechanism of resilience to stress? [Poster presented at the Annual Meeting of the Society for Neuroscience, Chicago, IL, October 19-23, 2019.]
- 109. Robble, M.A., Schroder, H., Branham, M., Wooldridge, L., Breiger, M., Kangas, B.D., Bergman, J., Carlezon, W.A., Jr., Pizzagalli, D.A. (2019, October). The effect of modafinil on behavioral and neurophysiological indices of cognitive control in a touchscreen-based rodent Flanker Task. [Poster presented at the Annual Meeting of the Society for Neuroscience, Chicago, IL, October 19-23, 2019.]
- 110. Johnson, D., Peckham, A. D., **Pizzagalli, D.A.**, Björgvinsson, T., Beard, C. (2019, October). Validation of ambulatory EEG and mobile cognitive assessment as predictors of impulsive behavior during psychiatric treatment. [Poster presented at the 2019 Technology in Psychiatry Summit, Boston, MA, October 28-29, 2019.]
- 111. Ceniti, A.K., Rizvi, S.J., Chow. T., McInerney, S.K., Bergmans, Y., **Pizzagalli, D.A.**, Salomons, T., Farb, N., Turecki, G., Kennedy, S.H. (2019, October). Interaction between psychache, physical pain, reward responsivity, anhedonia, and suicidality in depression. [Poster presented at the Annual Convention of the International Association for Suicide Research, Miami, FL, October 27-30, 2019.]
- 112. Israel, E., Belleau, E.L., Forbes, E.E., **Pizzagalli, D.A.**, Webb, C.A. (2019, November). Mindwandering in adolescents predicts heightened negative affect and aberrant functional connectivity: An ecological momentary assessment study. [Poster presented at the Annual Convention of the Association for Behavioral and Cognitive Therapies, Atlanta, GA., November 21-24, 2019.]
- 113. Sperl, M.F.J., Panitz, C., Skoluda, N., Nater, U.M., **Pizzagalli, D.A.**, Hermann, C., Mueller, E.M. (2019, November). Pharmacological modulation of conditioned fear: Alpha-2 adrenoreceptor antagonist yohimbine potentiates fear bradycardia and N170 ERP amplitude. [Poster presented at the EPFL Neuro Symposium "Fear Learning from neuronal circuits to translation", Lausanne, Switzerland, November 25-26, 2019].

Additional Abstracts Later Published as Full-Length Articles During the Past Three Years: 24

Additional Abstracts in Refereed Journals Prior to the Last Three Years (1996 – 2015): 70

Additional Conference Presentations Prior to the Last Three Years (1996 – 2016): 141

Narrative Report of Research and Teaching Contributions

I am an experimental psychologist and neuroscientist who uses a multi-disciplinary approach to improve our understanding of the psychological, environmental, and neurobiological factors associated with mood disorders, particularly major depressive disorder (MDD). To this end, I rely on an integration of behavioral, electrophysiological, neuroimaging [functional and structural magnetic resonance imaging (MRI), and positron emission tomography (PET)] techniques, and molecular genetics. Moreover, in light of the substantial heterogeneity of depression, I have adopted an endophenotypic approach focused on three cardinal phenotypes of MDD: anhedonia (loss of pleasure), increased stress sensitivity, and negative processing biases. I currently spend 65% of my time on research, and 35% on administration and mentoring/teaching.

Over the past decade I have devoted substantial effort to investigate the neurobiology of anhedonia. In this context, I have developed a laboratory-based assessment of a core component of anhedonia, reward responsiveness (i.e., the ability to modulate behavior as a function of reinforcement history). Using this probabilistic reward task, my mentees and I have found that individuals with elevated depressive symptoms, euthymic individuals at increased risk for depression (owing a past history of MDD or childhood maltreatment), psychiatrically healthy individuals carrying genetic variants previously associated with depression, and unmedicated MDD subjects are all characterized by a reduced ability to modify behavior according to reinforcement history and blunted activation within brain reward pathways (dopaminergic-rich mesocorticolimbic pathways), suggesting that reduced reward responsiveness may be a vulnerability factor for depression. Recently, I have extended this line of work in several important ways. First, based on preclinical studies suggesting that stress exerts depressogenic effects via mesocorticolimbic disruptions, we tested and confirmed the hypothesis that stressors as well as a history of childhood maltreatment blunt reward responsiveness in humans. Second, we evaluated the moderating effects of specific genes on stress-induced anhedonia and the role of dopamine in reward responsiveness. More recently, in collaboration with a group at UCSD, I have developed an animal analogue of the probabilistic reward task, which will allow us to interrogate the molecular underpinnings of anhedonia with more precision. Collectively, these findings suggest that anhedonia is an important endophenotype of depression, and that stress-induced hedonic deficits (and associated dysfunction in brain reward pathways) is a promising candidate mechanism linking stress to depression. Highlighting the impact of this work, more than 130 research groups worldwide are currently using the probabilistic reward task I have developed.

In a second line of work, I have investigated biomarkers of treatment response in depression. This work expands our prior report that pre-treatment resting EEG activity in the rostral anterior cingulate cortex predicted treatment response in MDD 4-6 months later with 89% sensitivity/ specificity. Because a substantial percentage of depressed individuals do not respond to treatment, establishing predictors at early stages of treatment, or even before it begins, could significantly reduce personal suffering and the substantial socio-economic burden associated with failed treatments.

In addition to my research activities, which have been continuously funded since 1999 (\$20,269,442 in direct costs), I have had the privilege of mentoring and teaching students and investigators at various levels. Since 2002, I have acted as the primary mentor at Harvard University or Harvard Medical School for 8 junior faculty (HMS Instructors or Assistant Professors), 7 post-doctoral fellows, 6 graduate students, 21 undergraduate students (11 of whom wrote an honors thesis under my primary mentorship). Collectively, my mentees have received \$6,397,197 in direct costs (\$6,187,009) at McLean Hospital since June 2010). For my mentoring activities, I was awarded the Anne M.

Cataldo Excellence in Mentoring Award from McLean Hospital (2015) and The Stuart T. Hauser, M.D. PhD. Mentorship Award in Psychiatry from Harvard Medical School (2017). In addition, while a faculty member within the Faculty of Arts and Sciences at Harvard University, I developed three graduate courses and four undergraduate courses, which included introductory survey courses (e.g., Abnormal Psychology), advanced undergraduate lecture courses (e.g., Neurobiological Aspects of Psychopathology), undergraduate seminars (e.g., Mood Disorders), undergraduate laboratory courses (e.g., Affective Neuroscience: Research Seminar), and graduate seminars (e.g., Clinical Neuroscience). Finally, in my roles as Director of the Center for Depression, Anxiety and Stress Research and Director of the Neuroimaging Center at McLean Hospital, I have major administrative duties over two large centers, which include 41 and 62 investigators/staff, respectively. In sum, it is my hope that, by fostering the integration of various disciplines and levels of analysis, my research program will contribute to a better understanding of major depression, with the ultimate goal of increasing prevention and improving treatment of this debilitating illness.