

Curriculum Vitae

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Name: Diego A. Pizzagalli, Ph.D.

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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.)

2002 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

National

- 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, *Enabling Drug Development, Discovery, and Translation for Cognitive Dysfunction in Depression* (Chairs: Thomas Insel and Thomas Laughren)
 2015 Organizer and Chair, *Beyond Monoamines: Towards New Conceptualizations and Treatments for Major Depression*, Radcliffe Institute for Advanced Study, Harvard University, August 20-21, 2015.
 2016 Panelist, Foundation for the National Institutes of Health, *Consensus Workshop on Standardization of Reward Processing Tasks*, Bethesda, Maryland, February 18-19, 2016.
 2016 Chair, Positive Valence Systems Subgroup, National Institute of Mental Health Council Workgroup, *Council Workgroup on Tasks and Measures for RDoC*, Bethesda, Maryland, April 5-6, 2016.
 2017 Invited Panelist, *Computational Psychiatry: Opportunities and Challenges for the Future*, NIMH Office of Director, Bethesda, MD, June 26-27, 2017.

Other Professional Positions

Scientific Advisory Board/Technical Advisory Boards

- Blackthorn Therapeutics (now RBNC) (2021-present)
 Boehringer Ingelheim (2017-present)
 Compass Pathways (2019-present)
 Engrail Therapeutics (2020-present)
 Neurocrine Biosciences (2021-present)
 Otsuka Pharmaceuticals (2014, 2020-present)
 Takeda Pharmaceuticals (2018-2020)

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, 2005/2006, 2006/2007 Chair, Research Seminar in Experimental Psychopathology/Clinical Psychology, 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
 2019-2021 Subcommittee of Professors, Harvard Medical School (reviews of promotion cases to Full Professors)
 2021 Search Committee Member, Chief, Neuropsychology Department, McLean Hospital

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: Mt. Sinai, Northwestern University, New York University, UCSD, University of Texas, University of Pittsburgh (2x), University of Wisconsin,
 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
 2020 American Psychological Association (APA) Distinguished Scientific Award evaluations

International

2015 Academic Advisory Committee, Wolfe Health Neuroscience Fellowship in the Neurobiology of Human Vulnerability and Resilience
 2016 Else Kröner-Fresenius-Stiftung (Reviewer)
 2019-2021 Invited Nominator, Nobel Prize in Physiology or Medicine, 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

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

2019: Co-chair

2020: Chair

2016, 2017 Education and Training (Mentor)

2018-present: Fellow

2021-present: Membership Mentor

2021-2023: Council

2020: 2021 Honorific Awards Task Force

2013- 2020: Council Liaison for the Education and Training Committee

Anxiety and Depression Association of America (ADAA)

2014-2017: Scientific Council

2015: Chair, Scientific Research Symposium, “*Neural Circuitry Mediating the Intersection and Divergence of Depression and Anxiety*”

2015-present: Mentee/Mentor Program

2021: Mentor, Alies Muskin Career Development Leadership Program

Grant Review 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), *Biobehavioral & Behavioral Processes IRG (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, *Member-Conflict Applications MESH and CPDD*, 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 *Member Conflict: Emotion, Substance Use, and Psychopathology*, 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* (R01, RFA-MH-19-242), ZMH1 ERB-S (05) R, National Institute of Mental Health (NIMH/NIH), March 30, 2020.
- 2020 Tommy Fuss Center for Neuropsychiatric Disease Research, Research Grant Program, Boston Children's Hospital, Harvard Medical School
- 2020 Reviewer, *Early Phase Psychosocial and Confirmatory Efficacy Clinical Trials*, ZMH1 ERB-B (02), National Institute of Mental Health (NIMH/NIH) (October 9, 2020)
- 2020 Reviewer, *Silvio O. Conte Centers for Basic or Translational Mental Health Research (P50)*

Editorial Activities

- 2002, 2009 Outside Reviewer, Oxford University Press
- 2003 Outside Reviewer, MIT Press
- 2004 Outside reviewer, Allyn & Bacon [revision of Butcher/Mineka/Hooley, *Abnormal Psychology*, 13th ed.]
- 2006-2011 Consulting Editor, *Emotion*
- 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). *Handbook of Emotion Regulation* (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”, *Depression and Anxiety*
 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”, *Harvard Review of Psychiatry*
 2020- Editorial Board, *The American Journal of Psychiatry*
 2021-2014 Editor-in-Chief, *Cognitive, Affective, & Behavioral Neuroscience* (1/1/21-12/31/24)

Ad hoc Reviewer

<u>Total Numbers of Journals:</u>	N = 128
<u>Total Numbers of Reviews Performed since 1998:</u>	N = 718
<u>Average reviews/year over past 10 years:</u>	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; eLife; 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; Frontiers Systems Neuroscience; 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, 2020)

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]
- 2020 2020 Highly Cited Researcher (Web of Science) [Awarded to 0.1%, of the world's researchers across 21 research fields]
- 2021 Method to Extend Research in Time (MERIT) award, National Institute of Mental Health (renewal)

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 – 12/31/00 Research Grant, “Holderbank”-Stiftung zur Förderung der wissenschaftlichen Fortbildung
Role: PI
Direct costs: \$11,000
- 01/01/02 – 12/31/02 81ZH-52864
Competitive Renewal, Swiss National Science Foundation Fellowship for Prospective Researchers

Investigations of Emotional Processing and Style: Electroencephalographic and Brain Imaging Studies

Role: PI
Direct costs: \$38,000

01/01/03 – 12/31/03 The Clark Fund, Harvard University
Functional Neuroimaging Studies of Depression
Role: PI
Direct costs: \$6,000

01/01/03 – 12/31/04 William F. Milton Fund, Harvard University
Investigation of Affective Processing in Depression: Clues from Affective Neuroscience
Role: PI
Direct costs: \$34,943

06/07/04 – 04/30/09 1R01MH068376-01A1 (priority score: 121, percentile: 0.7)
National Institute of Mental Health/NIH
Neuroimaging Studies of Reward Processing in Depression
Role: PI
Direct costs: \$1,125,000

12/01/04 – 11/30/05 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: \$91,596

07/01/05 – 06/30/08 Harvard 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: PI
Direct costs: \$225,875

01/01/06 – 12/31/06 The Clark Fund, Harvard University
Behavioral and Electroencephalographic Predictors of Treatment Response in Depression
Role: PI
Direct costs: \$6,000

03/01/06 – 02/28/07 Merck 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: PI
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

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 – 02/28/17 W81XWH-12-1-0109 (Rauch, Killgore, Pizzagalli)
USAMRAA
Internet Based Cognitive Behavioral Therapy Effects on Depressive Cognitions and Brain Function
Role: Co-PI
Direct costs: \$1,646,035

09/15/13 – 04/30/17 Contract HHSN271201100061 (Fava)
National 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 – 05/31/17

1R01MH095809-01A1 (Pizzagalli) (priority score: 10)

National Institute of Mental Health/NIH

Early Life Stress and Depression: Molecular and Functional Imaging Approaches

Role: PI

Direct costs: \$1,636,789

09/01/14 – 08/31/17

Tommy 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 – 05/31/17

1R01MH095809-03S1 (Pizzagalli) Supplement

National Institute of Mental Health/NIH

Early Life Stress and Depression: Molecular and Functional Imaging Approaches

Role: PI

Direct costs: \$98,628

04/01/13 – 03/30/18

1R01MH100350-01 (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 – 6/30/18

Clinical Neuroscience Research Grant Program (Pizzagalli, Auerbach)

Dana Foundation

Towards Identification of Neural Predictors of Adolescent Depression: A Multi-Modal Neuroimaging Study

Role: PI

Direct costs: \$299,427

07/01/15 – 06/30/18

R21 MH105775-01 (Kumar) [NCE]

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
Ventrosriatal 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)

07/01/18 – 06/30/19 Partners 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

10/01/15 – 09/30/19 Tommy Fuss Fund
Identifying Neural Markers that Predict Depression in Adolescence
 Role: Co-PI (with Randy Auerbach)
 Direct costs: \$240,000

01/01/17 – 12/31/19 Richard 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 – 12/31/19 Richard Saltonstall Charitable Foundation (Pizzagalli, Whitton)
Identifying Abnormalities in Brain Structure Associated with Genetic Risk for Bipolar Disorder
 Role: Co-PI
 Direct costs: \$50,000

03/26/19 – 06/30/20 3 U01 MH108168-04S (Gabrieli J., Whitfield-Gabrieli S.)
 National Institute of Mental Health/NIH
Connectomes Related to Anxiety and Depression in Adolescents
 Role: Subcontract PI
 Direct costs: \$41,664 (McLean 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)

06/01/18 – 04/30/20 1R61MH116089 (Schneier)
National Institute of Mental Health/NIH
Gaze-contingent Music Reward Therapy for Social Anxiety
Role: Subcontract PI
Direct costs: \$231,779 (McLean subcontract)

Current

09/18/15 – 12/30/21 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 – 08/31/21 UH2/UH3 MH109334-01 (Pizzagalli)
National Institute of Mental Health/NIH
Novel Cross-Species Neurophysiological Assays of Reward and Cognitive Domains
Role: PI
Direct costs: \$1,953,411

04/28/16 – 02/28/22 2R01MH068376-14 (Pizzagalli) [recoded as MERIT award, 2R37MH068376]
National Institute of Mental Health/NIH
Neuroimaging Studies of Reward Processing in Depression
Role: PI
Direct costs: \$2,497,470

08/10/16 – 10/30/21 5R01MH108602 (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

09/15/18 – 09/14/21 NARSAD Distinguished Investigator Award, Brain & Behavior Research Foundation (Pizzagalli) (grant #: 26950)
Beyond Monoamines: The Role of the Nociceptin/Orphanin FQ Receptor in Major Depression

Role: PI
 Direct costs: \$92,591

04/13/21 – 03/31/24 1R33MH116089 (Schneier)
 National Institute of Mental Health/NIH
Gaze-contingent Music Reward Therapy for Social Anxiety
 Role: Subcontract PI
 Direct costs: \$116,649 (McLean subcontract)

02/15/19 – 03/31/24 R01 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)

01/01/20 – 12/31/21 Richard Saltonstall Charitable Foundation (Pizzagalli)
Toward Novel Antidepressant Targets for Major Depression: Focus on Nociceptin/Orphanin FQ Receptors
 Role: PI
 Direct costs: \$100,000

04/15/20 – 03/31/25 1 P50 MH119467-01A1 (Pizzagalli)
 National Institute of Mental Health/NIH
Novel Treatment Targets For Affective Disorders Through Cross-Species Investigation of Approach/Avoidance Decision Making
 Role: Overall Center PI
 Direct costs: \$13,436,154

07/01/20 – 06/30/25 2R01MH095809-05A1 (Pizzagalli, Du) (competing renewal)
 National Institute of Mental Health/NIH
Early Life Stress and Depression: Molecular and Functional Imaging Approaches
 Role: MPI
 Direct costs: \$2,492,081

03/01/22 – 02/28/27 R37MH068376-17 (Pizzagalli) [MERIT award renewal]
 National Institute of Mental Health/NIH
Neuroimaging Studies of Reward Processing in Depression
 Role: PI
 Direct costs: \$2,468,558

Awards/Grants to Mentees

Past (as primary mentor)

09/01/06 – 09/1/07 1 F31 MH074246 (Christen Deveney)
 National Institute of Mental Health/NIH
An ERP Analysis of Cognition After Emotion Regulation
 Role: Primary Mentor (pre-doctoral fellowship)

- Direct costs: \$27,124
- 04/01/07 – 06/30/08 1 F31 MH078346 (Avram Holmes)
National Institute of Mental Health/NIH
Action Monitoring in Depression: ERP and fMRI Correlates
Role: Primary Mentor (pre-doctoral fellowship)
Direct costs: \$35,173
- 12/01/08 – 08/31/10 1 F32 MH081394 (Daniel Dillon)
National Institute of Mental Health/NIH
Emotion Regulation in Depression: Neural Bases of Reappraisal
Role: Primary Mentor (post-doctoral fellowship)
Direct costs: \$88,361
- 01/01/10 – 12/31/11 NARSAD Young Investigator Award (Daniel 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
Role: Primary Mentor
Direct costs: \$59,530
- 07/01/11 – 06/30/12 The Adam Corneel Young Investigator Award (Randy 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 (Pia 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 (Randy 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 (Poornima 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 (Michael 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 (Daniel 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 (Poornima 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 (Pia 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 (Bradford 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) (Christian 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 (Roe 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 (Randy
 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 (Michael 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 (Roe 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 (Michael 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 (Alexis 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 (Roselinde 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 (Alexis 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 (Callie 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 (Callie 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 (Roselinde 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 (Christian 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 (Poornima 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 (Randy 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 (Christian 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 (Alexis 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 (Alexis 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 (Poornima 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 (Christian 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 (Alexis 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 (Christian 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 (Roselinde 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 (Emily 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 (Emily 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
- 03/01/18 – 2/29/20 F32MH115530 (Andrew 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
- 08/01/18 – 07/31/20 Dorris Translational Research Pilot Award, McLean Hospital (Yuen Ang)
Cognitive Effort-based Decision Making and Motivational Anhedonia in Major Depressive Disorder
Role: Primary Mentor
Direct costs: \$5,217
- 07/01/18 – 06/30/20 The Phyllis and Jerome Lyle Rappaport Mental Health Research Fellowship (Maria Ironside)
McLean Hospital/Harvard Medical School
Biomarkers of Response to Treatment with Frontal Cortex Stimulation for Anxious Depression
Role: Primary Mentor
Direct costs: \$30,435
- 01/15/19 – 01/14/21 Brain & Behavior Research Foundation (formerly NARSAD) Young Investigator Award (Christian Webb)
Development of a Machine Learning Algorithm-guided Approach to Treatment Selection for Depression
Role: Primary Mentor
Direct costs: \$70,000

Current (as primary mentor)

- 07/01/17 – 06/30/21 The Adam Corneel Young Investigator Award (Emily 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: \$17,391

05/01/18 – 04/30/21 Klingenstein Third Generation Fellowship Award in Depression (Emily Belleau)
Neural Underpinnings of Acute Stress and Stress Recovery in Adolescent Depression
 Role: Primary Mentor
 Direct costs: \$60,000

08/01/18 – 07/31/21 Dorris Translational Research Pilot Award, McLean Hospital (Poornima Kumar)
Translational Approach to Understanding the Neurobiology of Reinforcement Learning in Depression
 Role: Primary Mentor
 Direct costs: \$10,434

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

11/1/18-10/31/2021 Brain & Behavior Research Foundation (formerly NARSAD) Young Investigator Award (Jennifer Fanning)
Neural Dynamics of Cognitive Control in PTSD
 Role: Primary Mentor
 Direct costs: \$70,000

09/01/18 – 08/31/21 1K23 MH109824 (Jennifer Fanning)
 National Institute of Mental Health/NIH
Neural Mechanisms Mediating Trauma and Aggression
 Role: Co-Mentor
 Direct costs: \$899,155

07/1/19 – 06/30/21 Andrew P. Merrill Memorial Research Fellow Award (Hans Schroder)
 McLean Hospital/Harvard Medical School
Impact of biogenetic feedback on default mode network and cognition control in Major Depressive Disorder
 Role: Primary Mentor
 Direct costs: \$25,000

07/01/19 – 06/30/21 Kaplen Fellowship on Depression (Yuen 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 (Yuen 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 – 06/30/21 The Phyllis and Jerome Lyle Rappaport Mental Health Research Fellowship (Matthew Sacchet)
 McLean Hospital/Harvard Medical School
Depression, Mindfulness, and Individualized Brain Systems: Toward Brain-based Precision Psychiatry
 Role: Primary Mentor
 Direct costs: \$30,435
- 07/01/20 – 06/30/21 The Phyllis and Jerome Lyle Rappaport Mental Health Research Fellowship (Matthew Sacchet)
 McLean Hospital/Harvard Medical School
Stress Mechanisms of Mindfulness-based Interventions for Depression
 Role: Primary Mentor
 Direct costs: \$30,435
- 07/01/20 – 06/30/21 Rossano Mind, Brain & Behavior Pre-Doctoral Summer Fellowship (Steven Lamontagne)
 McLean Hospital/Harvard Medical School
Role of Dopamine Function in Cognitive Control Performance: Behavioural & Physiological Correlates
 Role: Primary Mentor
 Direct costs: \$5,217
- 04/01/20 – 03/31/25 1K23 MH122668-01 (Emily Belleau)
 National Institute of Mental Health/NIH
Neural Correlates of Stress and Perceived Control in Adolescent Depression
 Role: Primary Mentor
 Direct costs: \$838,500
- 04/01/20 – 03/31/25 1K23 MH120351-01 (Ryan Jacoby)
 National Institute of Mental Health/NIH
Targeting Attentional and Cognitive Control to Enhance the Transdiagnostic Treatment of Repetitive Negative Thinking
 Role: Co-Mentor
 Direct costs: \$924,772
- 06/01/20 – 06/30/25 K23 MH123864-01 (Nili Solomonov, Weill Medical College of Cornell University)
 National Institute of Mental Health/NIH
positive valence systems engagement during social reward exposure psychotherapy for mid- and late-life depression
 Role: Consultant
 Direct costs: \$955,315

- 09/01/20 – 08/31/23 1F32 MH124409-01 (Adrienne Romer)
National Institute of Mental Health/NIH
Replicability, Mechanisms, and Trajectory of Neural Alterations Related to General Psychopathology
Role: Primary Mentor
Direct costs: \$200,082
- 01/15/21 – 01/14/23 Brain & Behavior Research Foundation (formerly NARSAD) Young Investigator Award (Matthew Sacchet)
Person-specific Functional Brain Mapping and Major Depressive Disorder
Role: Primary Mentor
Direct costs: \$70,000
- 01/15/21 – 01/14/23 Brain & Behavior Research Foundation (formerly NARSAD) Young Investigator Award (Yuen Ang)
Neural Mechanisms Underlying Cognitive Motivational Anhedonia in Depression
Role: Primary Mentor
Direct costs: \$69,984
- 07/01/21 – 06/30/22 The Adam Corneel Young Investigator Award (Adrienne Romer)
McLean Hospital/Harvard Medical School
The Role of Cortico-Cerebellar Circuitry Dusing cognitive Control in Healthy Young Adults
Role: Primary Mentor
Total costs: \$20,000

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
2002-2003	Psych 2450. <i>Affective and Social Neuroscience</i> Graduate Seminar (n = 8)	Harvard University 2-hr sessions/wk, 12 wks
	Psych 1808. <i>Neurobiological Aspects of Psychopathology</i> Undergraduate Lecture Course (n = 8)	Harvard University Two 1.5-hr sessions/wk, 12 wks
2003-2004	Psych 2450. <i>Affective and Social Neuroscience</i> Graduate Seminar (n = 8)	Harvard University 2-hr sessions/wk, 12 wks
	Psych 1808. <i>Neurobiological Aspects of Psychopathology</i> Undergraduate Lecture Course (n = 12)	Harvard University Two 1.5-hr sessions/wk, 12 wks

	Psych 1855. <i>Mood Disorders</i> Upper Undergraduate Seminar (n = 6)	Harvard University 2-hr sessions/wk, 12 wks
	Psych 3200. <i>Research Seminar in Experimental Psychopathology/Clinical Psychology</i> (n = 10)	Harvard University 1-hr sessions/wk, 24 wks
2005-2006	Psych 18. <i>Abnormal Psychology</i> Undergraduate Lecture Course (n = 88)	Harvard University Two 1.5-hr sessions/wk, 12 wks
	Psych 1855. <i>Mood Disorders</i> Upper Undergraduate Seminar (n = 8)	Harvard University 2-hr sessions/wk, 12 wks
	Psych 2450. <i>Affective and Social Neuroscience</i> Graduate Seminar (n = 8)	Harvard University 2-hr sessions/wk, 12 wks
	Psych 3200. <i>Research Seminar in Experimental Psychopathology/Clinical Psychology</i> (n = 8)	Harvard University 1-hr sessions/wk, 24 wks
2006-2007	Psych 18. <i>Abnormal Psychology</i> Undergraduate Lecture Course (n = 54)	Harvard University Two 1.5-hr sessions/wk, 12 wks
	Psych 1855. <i>Mood Disorders</i> Upper Undergraduate Seminar (n = 13)	Harvard University 2-hr sessions/wk, 12 wks
	Psych 2450. <i>Affective and Social Neuroscience</i> Graduate Seminar (n = 3)	Harvard University 2-hr sessions/wk, 12 wks
	Psych 3200. <i>Research Seminar in Experimental Psychopathology/Clinical Psychology</i> (n = 8)	Harvard University 1-hr sessions/wk, 24 wks
	Psych 2851r. <i>Affective Neuroscience: Research Seminar</i> Undergraduate Lab Course (n = 4)	Harvard University 1-hr sessions/wk, 12 wks
2008-2009	Psych 1808. <i>Neurobiological Aspects of Psychopathology</i> Undergraduate Lecture Course (n = 18)	Harvard University Two 1.5-hr sessions/wk, 12 wks
	Psych 2441. <i>Clinical Neuroscience</i> Upper-level Undergraduate Seminar (n = 18)	Harvard University 2-hr sessions/wk, 13 wks
	Psych 2851r. <i>Affective Neuroscience: Research Seminar</i> Undergraduate Lab Course (Fall: n = 5, Spring: n = 4)	Harvard University 1-hr sessions/wk, 13 wks
	Psych 3200. <i>Research Seminar in Experimental Psychopathology/Clinical Psychology</i> (n = 11)	Harvard University 1-hr sessions/wk, 24 wks
2009-2010	Psych 2441. <i>Clinical Neuroscience</i> Upper-level Undergraduate Seminar (n = 8)	Harvard University 2-hr sessions/wk, 13 wks
	Psych 2851r. <i>Affective Neuroscience: Research Seminar</i> Undergraduate Lab Course (Fall: n = 6, Spring: n = 3)	Harvard University 1-hr sessions/wk, 13 wks
	Psych 1855. <i>Mood Disorders</i> Upper Undergraduate Seminar (n = 17)	Harvard University 2-hr sessions/wk, 13 wks
2013-2014	Psych 18. <i>Abnormal Psychology</i> Undergraduate Lecture Course (n = 107)	Harvard University Two 1.5-hr sessions/wk, 12 wks
2016-2017	Psych 18. <i>Abnormal Psychology</i> Undergraduate Lecture Course (n = 96)	Harvard University Two 1.5-hr sessions/wk, 12 wks

Harvard University Extension School

2003-2004	Psyc E-2450: <i>Affective and Social Neuroscience</i> Master of Liberal Arts Degree Candidates (n = 15)	Harvard Extension School 2-hr sessions/wk, 15 wks
	Psyc E-1855: <i>Mood Disorders</i>	Harvard Extension School

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

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

Harvard Medical School

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

Laboratory and Other Research Supervisory and Training Responsibilities

Research Assistants

<i>Period</i>	<i>Name</i>	<i>After leaving the lab</i>	<i>Current position</i>
2002-2004	Allison Jahn (Harvard)	Graduate Student, University of Wisconsin-Madison (Clinical Psychology)	Licensed clinical psychologist
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)	Graduate Student (Physical Therapy)	Graduate Student
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)	Graduate Student, SUNY Albany (Clinical Psychology)	Graduate Student
2016-2018	Emilia Cardenas (McLean)	Graduate Student, Vanderbilt University (Clinical Psychology)	Graduate Student
2016-2018	Min Su Kang (McLean)	Graduate Student, University of Pennsylvania (Clinical Psychology)	Graduate Student
2016-2018	Nara Nascimento (McLean)	Good Shepherd Community Care	Quality Assurance Specialist
2016-2018	Ashleigh Rutherford (McLean)	Graduate Student, Yale University (Clinical Psychology)	Graduate Student
2018-2020	Micah Breiger (McLean)	Medical Student, Harvard Medical School	Medical School Student
2018-2020	Devon Brunner (McLean)	Graduate Student, Southern Methodist University (Clinical Psychology)	Graduate Student
2018-2020	Amelia Moser (McLean)	Graduate Student, University of Colorado-Boulder (Clinical Psychology)	Graduate Student
2019-2021	Jessica Duda (McLean)	Graduate Student, Yale University (Clinical Psychology)	Graduate Student
2019-2021	Rachel Lobien (McLean)	Graduate Student, Boston College (Social Work)	Graduate Student
2020-2021	Madeline Bailey (McLean)	Unknown	
2020-2021	Yinru Long (McLean)	Graduate school applications	Graduate Student
2020-2021	Genevieve Nowicki (McLean)	Graduate Student, Northeastern University (Applied Psychology)	Graduate Student

2020-	Kaylee Null (McLean)	Current Research Assistant	
2021-	Jacob Blank (McLean)	Current Research Assistant	
2021-	Shiba Esfand (McLean)	Current Research Assistant	
2021-	Emily Johns (McLean)	Current Research Assistant	
2021-	Jason Scott	Current Research Assistant	
2021-	David Steinberger (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: <i>Zachariah Jonasson, Kristin Vickers</i> 2005/2006: <i>Alison Harris, Pearl Chiu, Avgusta Shestyuk</i> 2007/2008: <i>Sadia Najmi, Christen Deveney</i> (*), <i>Laura Phillips</i> 2008/2009: <i>Avram Holmes</i> (*) 2009/2010: <i>Ryan Bogdan</i> (*), <i>Hannah Reese</i> 2010/2011: <i>Jason Angel</i> 2011/2012: <i>Lisa Berghorst</i> (*) (* 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: <i>Erika Cowman</i> (*) (Recipient of Psychology Faculty Prize award for “Senior honors thesis of outstanding quality”) 2006/2007: <i>Tiffany Meites</i> (*), <i>Petra Pajtas</i> (*), <i>Patricia Pringle</i> (*), <i>Katherine Steele</i> (*) 2008/2009: <i>Yuliya Nikolova</i> (*) (Recipient of 2009 Thomas Temple Hoopes Prize for Excellence In The Work of Undergraduates) 2010/2011: <i>Samantha Connolly</i> (*) (* Recipient of Harvard College Research Program Award	3 hours per week
2002-	Thesis Reader, Undergraduate Honors Theses, Department of Psychology,	6 hours per

2006	Harvard University 2002/2003: <i>Emily Adkins</i> 2003/2004: <i>Kristy Benoit, Caitlin Ferriter, Chetan Irwin, David Stahl</i> 2005/2006: <i>Shana Franklin, Arin Keyser, Kim Emiko Ono, Matthew Wallenstein</i>	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-	<i>Poornima Kumar, Ph.D.</i> , 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 <i>Pragya Kakani</i> (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) <i>Stephanie Deccy</i> (2014 – 2016) [HCRP] <i>Melissa Yuan</i> (2014 – 2016) [HCRP] <i>Isobel Green</i> (2015 – 2017) [PRISE, HCRP, Psychology Faculty Prize] PRISE = Harvard College Program for Research in Science and Engineering HCRP = Harvard College Research Program	2 hours per month
2016-	<i>Emily Belleau, Ph.D.</i> , Instructor, McLean Hospital/HMS Primary Mentor, NIMH K23, 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
2018-	<i>Jennifer Fanning, Ph.D.</i> , Instructor, McLean Hospital/HMS Primary Mentor, NARSAD Young Investigator Award; Co-mentor, NIMH K23	1 hour per week
2019-	<i>Adrienne Romer, Ph.D.</i> , Post-doctoral Fellow, McLean Hospital Primary Mentor, NIMH Post-doctoral NRSA, The Adam Corneel Young Investigator Award, McLean Hospital	1 hour per week
2019-	<i>Matthew Sacchet, Ph.D.</i> , Instructor, McLean Hospital/HMS Primary Mentor, The Phyllis and Jerome Lyle Rappaport Mental Health Research Fellowship (2x), NARSAD Young Investigator Award	1 hour per week
20190	<i>Steven Lamontagne, M.A.</i> , Visiting Graduate Student, Queens University Primary Mentor, Rossano Mind, Brain & Behavior Pre-Doctoral Summer Fellowship, McLean Hospital	1 hour per week
2020-	<i>Rotem Dan, Ph.D.</i> , Post-doctoral Fellow, McLean Hospital	1 hour per week
2020-	<i>Manuel Kuhn, Ph.D.</i> , 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
<i>A. Post-doctoral Fellow/Faculty/Psychiatry Residents, McLean Hospital/Harvard Medical School</i>	
2006-2014	<i>Daniel G. Dillon, Ph.D.</i> (Instructor of Psychiatry, HMS) Associate Professor of Psychiatry, McLean Hospital & Harvard Medical School 24 peer-reviewed manuscripts, 3 book chapters, 41 abstract/conference presentations Awards: NIMH Post-doctoral NRSA; NARSAD Young Investigator Award; NIMH K99
2009-2013	<i>Pia Pechtel, Ph.D.</i> (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	<i>Randy Auerbach, Ph.D.</i> (Assistant Professor, HMS) Associate Professor (with tenure), 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; Alfred Pope Award Recipient, McLean Hospital
2011-2015	<i>Michael Treadway, Ph.D.</i> (Instructor of Psychiatry, HMS) Associate Professor (with tenure), 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	<i>Roe Admon, Ph.D.</i> (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 Hospital
2013-2016	<i>Roselinde Kaiser, Ph.D.</i> (Post-doctoral Fellow, HMS) Assistant Professor, Department of Psychology, University of Colorado-Boulder 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	<i>Alexis Whitton, Ph.D.</i> (Instructor of Psychiatry, HMS) NHMRC Early Career Fellow, University of Sydney 23 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
2013-2019	<i>Bradford Reich, M.D.</i> (Assistant Clinical Professor, McLean Hospital) Assistant Clinical Professor, McLean Hospital 1 peer-reviewed publications, 1 abstract/conference presentation Awards: NARSAD Young Investigator Award
2013-2021	<i>Christian Webb, Ph.D.</i> , (Post-doctoral Fellow, Instructor, Assistant Professor, HMS) Associate Professor of Psychiatry, McLean Hospital/HMS 20 peer-reviewed publications, 2 book chapters, >20 abstract/conference presentations

	Awards: 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 (2x); Alfred Pope Award Recipient, McLean Hospital; Partners Innovation Discovery Grant
2014-2016	<i>Callie McGrath, Ph.D.</i> (Post-doctoral Fellow, HMS) Private sector (Deloitte Consulting) 8 abstract/conference presentations Awards: Kaplen Fellowship on Depression; HMS Livingston Fellowship Award
2015-2016	<i>Jennifer Gatchel, M.D., Ph.D.</i> (Instructor of Psychiatry, HMS) Awards: Andrew P. Merrill Memorial Research Fellowship (with Dr. Brent Forester)
2015-2017	<i>David Sturman, M.D., Ph.D.</i> (Psychiatry Resident, MGH/McLean Hospital) 1 abstract/conference presentation
2016-2018	<i>Stefanie Nickels, Ph.D.</i> , (Post-doctoral Fellow, McLean Hospital/HMS) 3 peer-reviewed publications, 9 abstract/conference presentation
2016-2021	<i>Maria Ironside, DPhil</i> , Instructor, McLean Hospital/HMS Associate Investigator, Laureate Institute for Brain Research, Tulsa 5 peer-reviewed publications, >10 abstract/conference presentations Awards: Rappaport Mental Health Research Fellowship, McLean Hospital; Alfred Pope Award Recipient, McLean Hospital
2018-2021	<i>Hans Schroder, Ph.D.</i> , Post-doctoral Fellow, McLean Hospital Clinical Lecturer and Postdoctoral Fellow, Department of Psychiatry; Postdoctoral Fellow, Center for Bioethics and Social Sciences in Medicine, University of Michigan 2 peer-reviewed publications, 12 abstract/conference presentations Awards: Andrew P. Merrill Memorial Research Fellow Award, McLean Hospital
2018-2021	<i>Yuen Ang, DPhil</i> , Post-doctoral Fellow, McLean Hospital Scientist I, Institute of High Performance Computing, A*Star, Singapore 9 peer-reviewed publications, 5 abstract/conference presentations Awards: Dorris Translational Research Pilot Award, McLean Hospital; Kaplen Fellowship on Depression, Harvard Medical School; Livingston Fellowship Award, Harvard Medical School; Brain & Behavior Research Foundation Young Investigator Award
<i>B. Post-doctoral Fellow, Primary Advisor, Department of Psychology, Harvard University</i>	
2006-2008	<i>Diane L. Santesso, Ph.D.</i> Research Assistant Professor, University of Waterloo, Waterloo, Ontario 8 peer-reviewed manuscripts, 6 abstract/conference presentations Awards: Postdoctoral Fellowship Award, Natural Sciences and Engineering Research Council of Canada
2009	<i>Marie-Anne Vanderhasselt, Ph.D.</i> Professor (tenured), Department of Experimental Clinical and Health Psychology, Ghent University 1 peer-reviewed manuscript Awards: National Science Foundation, Flanders/Belgium
<i>C. Graduate Student, Primary Advisor, Department of Psychology, Harvard University</i>	
2003-2009	<i>Avram J. Holmes, Ph.D.</i> Assistant Professor, Department of Psychology, Yale University 16 peer-reviewed manuscripts, 1 book chapter, 22 abstract/conference presentations Awards: Pre-doctoral NRSA recipient
2003-2010	<i>Ryan Bogdan, Ph.D.</i> 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	<i>Pearl H. Chiu, Ph.D.</i> (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	<i>Christen M. Deveney, Ph.D.</i> (with Dr. Patricia Deldin) Associate Professor, Department of Psychology, Wellesley College 5 peer-reviewed manuscripts, 6 abstract/conference presentations Awards: Pre-doctoral NRSA recipient
2006-2012	<i>Lisa H. Berghorst, Ph.D.</i> Psychology Associate, Alvord, Baker, & Associates, LLC, Rockville, MD 3 peer-reviewed manuscripts, 1 chapter, 12 abstract/conference presentation
2008-2011	<i>Alexander J. Millner, Ph.D.</i> 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)
- 2020 *How Technology May Transform Treatment of Mood & Anxiety Disorders*, Depression and Anxiety Division Fall Workshop, October 14, 2020, McLean Hospital” (Workshop Organizers: Diego A. Pizzagalli, Kerry Ressler, Jane Eisen)

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, Boston, MA, USA
- 2008 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.
- 2021 McLean Hospital, Symposium on Racism and Mental Health, Belmont, MA, USA, March 23, 2021

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
- 2005 Invited speaker, Affective Science Speaker Series, Affective Science Initiative, Boston College, November 21, 2005, Boston, MA, USA
- 2005 Department Colloquium, Brown University, “Toward Objective Characterizations of

- Depressive Phenotypes: Clues From Affective Neuroscience”, November 30, 2005, Providence, RI, USA
- 2009 Invited speaker, Clinical Psychology Talk Series, Department of Psychology, Yale University, April 30, 2009, New Haven, CT, USA
- 2009 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
- 2012 Grand Rounds, National Center for PTSD speaker series, March 16, 2012, Boston, MA, USA
- 2015 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.
- 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.
- 2020 Distinguished Colloquium Speaker, Clinical Psychology, Department of Psychology, Boston University, April 8, 2020 (cancelled due to COVID-19).
- 2020 McLean Neuroscience Seminar, McLean Hospital, May 12, 2020

National

- 2000 Invited speaker, Brain Mapping Seminar, UCLA Brain Mapping, UCLA, Los Angeles, CA, USA, October 2000.
- 2002 Invited speaker, Department of Psychology, Harvard University, Cambridge, MA, USA, March 2002.
- 2005 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.
- 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.
- 2007 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.
- 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.
- 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.
- 2008 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.
- 2009 Invited speaker, Winter 2009 Distinguished Seminar Series, Psychology Department, University of Michigan, Ann Arbor, MI, USA, January 28, 2009.
- 2010 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.
- 2011 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.
- 2011 William K. Warren Frontiers in Neuroscience Lecture, Laureate Institute for Brain Research, Tulsa, OK, USA, February 28, 2011.
- 2012 Invited speaker, Kendon Smith Lecture Series, Department of Psychology, University of North Carolina at Greensboro, Greensboro, NC, USA, March 22, 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*, 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*)
- 2013 Grand Rounds, Department of Psychiatry, Dartmouth-Hitchcock Medical Center, Lebanon, NH, USA, January 8, 2013.
- 2013 Department Colloquium, Department of Psychology, University of Arizona, “*The Neuroscience of Major Depressive Disorder: Focus on Anhedonia*”, Tucson, AZ, USA, April 19, 2013.
- 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.
- 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.

- 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.
- 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.
- 2015 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 2017 Distinguished Scientist Lecture, University of Pittsburgh Department of Psychiatry, Pittsburgh, PA, February 17, 2017.
- 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.
- 2017 Neuroscience Graduate Seminar Series, Vanderbilt Kennedy Center for Research on Human Development & Vanderbilt Brain Institute, Vanderbilt University, Nashville, TN, October 18, 2017.
- 2018 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.
- 2019 Invited Participant, Computational Psychiatry, Banbury Center, Cold Spring Harbor Laboratory, February 3-6, 2019.
- 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, CA, March 12, 2019.
- 2019 Invited Speaker, Cousins Center Lectures in Psychoneuroimmunology, UCLA Cousins Center for Psychoneuroimmunology, UCLA, Los Angeles, CA, 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
- 2000 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
- 2001 Invited speaker, 12th World Congress of the International Society for Brain Electromagnetic Topography (ISBET), March 8-10, 2001, Utsunomiya, Japan
- 2001 Invited speaker, Central Institute of Mental Health, December, 2001, Mannheim, Germany
- 2002 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
- 2004 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
- 2005 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
- 2006 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
- 2006 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
- 2007 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
- 2008 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
- 2009 Invited speaker, plenary session, 27. Symposium der Fachgruppe Klinische Psychologie und Psychotherapie der Deutschen Gesellschaft für Psychotherapie (DGP), May 23, 2009, Zurich, Switzerland
- 2009 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
- 2009 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
- 2011 Invited Discussant, Roundtable Discussion (topic: *Genetics, Brain, and Behavior*), 51st Annual Meeting of the Society for Psychophysiological Research, September 14-18, 2011, Boston, MA
- 2011 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
- 2012 Invited Speaker, Annual Congress of the Italian Society of Psychopathology, Rome,

- Italy, February 14-17, 2012
- 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.
- 2013 Invited Speaker, Distinguished Lecture Series, Department of Psychology, Queen's University, Kingston, ON, Canada, March 22, 2013.
- 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.
- 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.
- 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.
- 2018 Invited Speaker, Department of Psychiatry, University of Zurich, Switzerland, July 6, 2018.
- 2019 Invited Speaker, *Experimental Medicine in Depression*, University of Oxford, Oxford, UK, June 24-25, 2019.
- 2019 Invited Speaker, Department of Psychiatry and Psychotherapy, Medical University of Vienna, Austria, June 28, 2019.
- 2019 Keynote Speaker, Depression and Anxiety Forum, Second Xiangya Hospital Changsha, China, September 18, 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 128 (90 national and 38 international) 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); <http://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)
- 2012 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: 62 (Clarivate’s Web of Science), 77 (Google Scholar)

Citation sum: 13,638 (without self-citations; Clarivate’s Web of Science), 25861 (Google Scholar)

[Highly Cited] Highly Cited Papers (citations in the top 1% of academic fields (source: Web of Science, accessed: 6/27/2021)

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.
 10. **Pizzagalli, D.**, Pascual-Marqui, R.D., Nitschke, J.B., Oakes, T.R., Larson, C.L., Abercrombie, H.C., Schaefer, S.M., Koger, J.V., Benca, R.M., Davidson, R.J. (2001). Anterior cingulate activity as a predictor of degree of treatment response in major depression: Evidence from brain electrical tomography analysis. *American Journal of Psychiatry*, **158**, 405-415.
 11. **Pizzagalli, D.**, Lehmann, D., Brugger, P. (2001). Lateralized direct and indirect semantic priming effects in subjects with paranormal experiences and beliefs. *Psychopathology*, **34**, 75-80.
 12. **Pizzagalli, D.A.**, Lehmann, D., Hendrick, A.M., Regard, M., Pascual-Marqui, R.D., Davidson, R.J. (2002). Affective judgments of faces modulate early activity (~160 ms) within the fusiform gyri. *NeuroImage*, **16**, 663-677.
 13. Silva, J.R., **Pizzagalli, D.A.**, Larson, C.L., Jackson, D.C., Davidson, R.J. (2002). Frontal brain asymmetry in restrained eaters. *Journal of Abnormal Psychology*, **111**, 676-681.
 14. **Pizzagalli, D.A.**, Nitschke, J.B., Oakes, T.R., Hendrick, A.M., Horras, K.A., Larson, C.L., Abercrombie, H.C., Schaefer, S.M., Koger, J.V., Benca, R.M., Pascual-Marqui, R.D., Davidson, R.J. (2002). Brain electrical tomography in depression: The importance of symptom severity, anxiety, and melancholic features. *Biological Psychiatry*, **52**, 73-85.
 15. **Pizzagalli, D.A.**, Oakes, T.R., Davidson, R.J. (2003). Coupling of theta activity and glucose metabolism in the human rostral anterior cingulate cortex: An EEG/PET study of normal and depressed subjects. *Psychophysiology*, **40**, 939-949.
 16. **Pizzagalli, D.A.**, Greischar, L.L., Davidson, R.J. (2003). Spatio-temporal dynamics of brain mechanisms in aversive classical conditioning: High-density event-related potential and brain electrical tomography analyses. *Neuropsychologia*, **41**, 184-194.
 17. Lavric, A., **Pizzagalli, D.A.**, Forstmeier, S. (2004). When 'go' and 'nogo' are equally frequent: ERP components and cortical tomography. *European Journal of Neuroscience*, **20**, 2483-2488.
 18. **Pizzagalli, D.A.**, Oakes, T.R., Fox, A.S., Chung, M.K., Larson, C.L., Abercrombie, H.C., Schaefer, S.M., Benca, R.M., Davidson, R.J. (2004). Functional but not structural subgenual prefrontal cortex abnormalities in melancholia. *Molecular Psychiatry*, **9**, 393-405.
 19. Oakes, T.R., **Pizzagalli, D.A.**, Hendrick, A.M., Horras, K.A., Larson, C.L., Abercrombie, H.C., Schaefer, S.M., Koger, J.V., Davidson, R.J. (2004). Functional coupling of simultaneous electrical and metabolic activity in the human brain. *Human Brain Mapping*, **21**, 257-270.
 20. Greischar, L.L., Burghy, C.A., Van Reekum, C.M., Jackson, D.C., **Pizzagalli, D.A.**, Mueller, C., Davidson, R.J. (2004). Effects of electrode density and electrolyte spreading in dense array electroencephalographic recording. *Clinical Neurophysiology*, **115**, 710-720.
 21. **Pizzagalli, D.A.**, Sherwood, R.J., Henriques, J.B., Davidson, R.J. (2005). Frontal brain asymmetry and reward responsiveness: A Source-localization study. *Psychological Science*, **16**, 805-813.
 22. **Pizzagalli, D.A.**, Jahn, A.L., O'Shea, J.P. (2005). Toward an objective characterization of an

- anhedonic phenotype: A Signal-detection approach. *Biological Psychiatry*, **57**, 319-327.
23. Hofmann, S.G., Moscovitch, D.A., Litz, B.T., Kim, H.J., Davis, L.L., **Pizzagalli, D.A.** (2005). The worried mind: autonomic and prefrontal activation during worrying. *Emotion*, **5**, 464-475.
 24. **Pizzagalli, D.A.**, Peccoralo, L.A., Davidson, R.J., Cohen, J.D. (2006). Resting anterior cingulate activity and abnormal responses to errors in subjects with elevated depressive symptoms: A 128-channel EEG study. *Human Brain Mapping*, **27**, 185-201.
 25. Shackman, A.J., Sarinopoulos, I., Maxwell, J.S., **Pizzagalli, D.A.**, Lavric, A., Davidson, R.J. (2006). Anxiety selectively disrupts visuospatial working memory. *Emotion*, **6**, 40-61.
 26. Bogdan, R., **Pizzagalli, D.A.** (2006). Acute stress reduces reward responsiveness: Implications for depression. *Biological Psychiatry*, **60**, 1147-1154.
 27. Holmes, A.J., **Pizzagalli, D.A.** (2007). Task feedback effects on conflict monitoring and executive control: Relationship to subclinical measures of depression. *Emotion*, **7**, 68-76.
 28. Candrian, M., Farabaugh, A., **Pizzagalli, D.A.**, Baer, L., Fava, M. (2007). Perceived stress and cognitive vulnerability mediate the effects of Personality Disorder comorbidity on treatment outcome in Major Depressive Disorder: A path analysis study. *Journal of Nervous and Mental Disease*, **195**, 729-737.
 29. **Pizzagalli, D.A.**, Bogdan, R., Ratner, K.G., Jahn, A.L. (2007). Increased perceived stress is associated with blunted hedonic capacity: Potential implications for depression research. *Behaviour Research and Therapy*, **45**, 2742-2753.
 30. Barr, R.S., **Pizzagalli, D.A.**, Culhane, M.A., Goff, D.C., Evins, A.E. (2008). A single dose of nicotine enhances reward responsiveness in non-smokers: Implications for development of dependence. *Biological Psychiatry*, **63**, 1061-1065.
 31. Chiu, P.H., Holmes, A.J., **Pizzagalli, D.A.** (2008). Dissociable recruitment of rostral anterior cingulate and inferior frontal cortex in emotional response inhibition. *NeuroImage*, **42**, 988-997.
 32. Deveney, C.M., **Pizzagalli, D.A.** (2008). The cognitive consequences of emotion regulation: An ERP investigation. *Psychophysiology*, **45**, 435-444.
 33. Dillon, D.G., Holmes, A.J., Jahn, A.L., Bogdan, R., Wald, L.L., **Pizzagalli, D.A.** (2008). Dissociation of neural regions associated with anticipatory versus consummatory phases of incentive processing. *Psychophysiology*, **45**, 36-49.
 34. Holmes, A.J., **Pizzagalli, D.A.** (2008). Spatio-temporal dynamics of error processing dysfunctions in Major Depressive Disorder. *Archives of General Psychiatry*, **65**, 179-188.
 35. Holmes, A.J., **Pizzagalli, D.A.** (2008). Response conflict and frontocingulate dysfunction in unmedicated participants with Major Depression. *Neuropsychologia*, **46**, 2904-2913.
 36. Meites, T.M., Deveney, C.M., Steele, K.T., Holmes, A.J., **Pizzagalli, D.A.** (2008). Implicit depression and hopelessness in remitted depressed individuals. *Behaviour Research and Therapy*, **46**, 1078-1084.
 37. **Pizzagalli, D.A.**, Evins, A.E., Schetter, E.C., Frank, M.J., Pajtas, P.E., Santesso, D.L., Culhane, M. (2008). Single dose of a dopamine agonist impairs reinforcement learning in humans: Behavioral evidence from a laboratory-based measure of reward responsiveness. *Psychopharmacology*, **196**, 221-232.
 38. **Pizzagalli, D.A.**, Goetz, E., Ostacher, M., Iosifescu, D.V., Perlis R.H. (2008). Euthymic patients with Bipolar Disorder show decreased reward learning in a probabilistic reward task. *Biological Psychiatry*, **64**, 162-168.
 39. **Pizzagalli, D.A.**, Iosifescu, D., Hallett, L.A., Ratner, K.G., Fava, M. (2008). Reduced hedonic capacity in Major Depressive Disorder: Evidence from a probabilistic reward task. *Journal of Psychiatric Research*, **43**, 76-87.

40. Putnam, K.M., **Pizzagalli, D.A.**, Gooding, D.C., Kalin, N.H., Davidson, R.J. (2008). Neural activity and diurnal variation of cortisol: Evidence from brain electrical tomography analysis and relevance to anhedonia. *Psychophysiology*, **45**, 886-895.
41. Santesso, D.L., Dillon, D.G., Birk, J.L., Holmes, A.J., Goetz, E., Bogdan, R., **Pizzagalli, D.A.** (2008). Individual differences in reinforcement learning: Behavioral, electrophysiological, and neuroimaging correlates. *NeuroImage*, **42**, 807-816.
42. Santesso, D.L., Meuret, A.E., Hofmann, S.G., Mueller, E.M., Ratner, K.G., Roesch, E.B., **Pizzagalli, D.A.** (2008). Electrophysiological correlates of spatial orienting towards angry faces: A source localization study. *Neuropsychologia*, **46**, 1338-1348.
43. Santesso, D.L., Steele, K.T., Bogdan, R., Holmes, A.J., Deveney, C.M., Meites, T.M., **Pizzagalli, D.A.** (2008). Enhanced negative feedback responses in remitted depression. *NeuroReport*, **19**, 1045-1048.
44. Bogdan, R., **Pizzagalli, D.A.** (2009). The heritability of hedonic capacity and perceived stress: A twin study evaluation of candidate depressive phenotypes. *Psychological Medicine*, **39**, 211-218.
45. Dillon, D.G., Holmes, A.J., Birk, J.L., Brooks, N., Lyons-Ruth, K., **Pizzagalli, D.A.** (2009). Childhood adversity is associated with left basal ganglia dysfunction during reward anticipation. *Biological Psychiatry*, **66**, 206-213.
46. Mueller, E.M., Hofmann, S.G., Santesso, D.L., Meuret, A.E., Bitran, S., **Pizzagalli, D.A.** (2009). Electrophysiological evidence of attentional biases in Social Anxiety Disorder. *Psychological Medicine*, **39**, 1141-1152.
47. **Pizzagalli, D.A.**, Holmes, A.J., Dillon, D.G., Goetz, E.L., Birk, J.L., Bogdan, R., Dougherty, D.D., Iosifescu, D.V., Rauch, S.L., Fava, M. (2009). Reduced caudate and nucleus accumbens response to rewards in unmedicated subjects with Major Depressive Disorder. *American Journal of Psychiatry*, **166**, 702-710.
48. Ragland, J.D., Cools, R.*, Frank, M.*, **Pizzagalli, D.A.***, Preston, A.*, Ranganath, C.*, Wagner, A.D.* (2009). CNTRICS final task selection: Long-term memory. *Schizophrenia Bulletin*, **35**, 197-212. [*co-authors had equivalent input and are listed alphabetically]
49. Santesso, D.L., Evins, A.E., Frank, M.J., Schetter, E.C., **Pizzagalli, D.A.** (2009). Single dose of a dopamine agonist impairs reinforcement learning in humans: Evidence from event-related potentials and computational modeling of striatal-cortical function. *Human Brain Mapping*, **30**, 1963-1976.
50. Wacker, J., Dillon, D.G., **Pizzagalli, D.A.** (2009). The role of the nucleus accumbens and rostral anterior cingulate cortex in anhedonia: Integration of resting EEG, fMRI, and volumetric techniques. *NeuroImage*, **46**, 327-337.
51. Dillon, D.G., Bogdan, R., Fagerness, J., Holmes, A.J., Perlis, R.H., **Pizzagalli, D.A.** (2010). Variation in TREK1 gene linked to depression-resistant phenotype is associated with potentiated neural responses to rewards in humans. *Human Brain Mapping*, **31**, 210-221.
52. Holmes, A.J., **Pizzagalli, D.A.** (2010). Effects of task-relevant incentives on the electrophysiological correlates of error processing in Major Depressive Disorder. *Cognitive, Affective, and Behavioral Neuroscience*, **10**, 119-128.
53. Holmes, A.J., Bogdan, R., **Pizzagalli, D.A.** (2010). Serotonin transporter genotype and action monitoring dysfunction: A possible substrate underlying increased vulnerability to depression. *Neuropsychopharmacology*, **35**, 1186-1197.
54. Janes, A.C., **Pizzagalli, D.A.**, Richardt, S., Frederick, B.D., Chuzi, S., Pachas, G., Culhane, M.A., Holmes, A.J., Fava, M., Evins, A.E., Kaufman, M.J. (2010). Brain reactivity to smoking cues prior to smoking cessation predicts ability to maintain tobacco abstinence. *Biological Psychiatry*, **67**,

722-729.

55. Lempert, K.M., **Pizzagalli, D.A.** (2010). Delay discounting and future-directed thinking in anhedonic individuals. *Journal of Behavior Therapy and Experimental Psychiatry*, **41**, 258-264.
56. Bogdan, R., Perlis, R.H., Fagerness, J., **Pizzagalli, D.A.** (2010). The impact of Mineralocorticoid Receptor ISO/VAL genotype (rs5522) and stress on reward learning. *Genes, Brain and Behavior*, **9**, 658-667.
57. Janes, A.C., **Pizzagalli, D.A.**, Richardt, S., Frederick, B.B., Holmes, A.J., Sousa, J., Fava, M., Evins, A.E., Kaufman, M.J. (2010). Neural substrates of attentional bias for smoking-related cues: an fMRI study. *Neuropsychopharmacology*, **35**, 2339-2345.
58. Koslov, K., Mendes, W.B., Pajtas, P.E., **Pizzagalli, D.A.** (2011). Asymmetry in resting intracortical activity as a buffer to social threat. *Psychological Science*, **22**, 641-649.
59. Bogdan, R., Santesso, D.L., Fagerness, J., Perlis, R.H., **Pizzagalli, D.A.** (2011). Corticotropin-releasing hormone receptor type 1 (CRHR1) genetic variation and stress interact to influence reward learning. *Journal of Neuroscience*, **31**, 13246-13254.
60. Denninger, J.W., van Nieuwenhuizen, A.O., Wisniewski, S.R., Luther, J.F., Trivedi, M.H., Rush, A.J., Gollan, J.K., **Pizzagalli, D.A.**, Fava, M. (2011). Changes in depressive symptoms and social functioning in STAR*D. *Journal of Nervous and Mental Disease*, **199**, 807-810.
61. Nikolova, Y., Bogdan, R., **Pizzagalli, D.A.** (2012). Perception of a naturalistic stressor interacts with 5-HTTLPR genotype and gender to impact reward responsiveness. *Neuropsychobiology*, **65**, 45-54.
62. AhnAllen, C.G., Gregor, K., Liverant, G.I., Gregor, K.L., Kamholz, B.W., Levitt, J.J., Gulliver, S.B., **Pizzagalli, D.A.**, Koneru, V.K., Kaplan, G.B. (2012). The relationship between reward-based learning and nicotine dependence in smokers with schizophrenia. *Psychiatry Research*, **196**, 9-14.
63. Dutra, S.J., Stoeckel, L.E., Carlini, S.V., **Pizzagalli, D.A.***, Evins, A.E.* (2012). Varenicline as a smoking cessation aid in schizophrenia: Effects on smoking behavior and reward sensitivity. *Psychopharmacology*, **219**, 25-34 [*Contributed equally as senior authors].
64. Grob, S., **Pizzagalli, D.A.**, Dutra, S.J., Stern, J., Mörgeli, H., Milos, G., Schnyder, U., Hasler, G. (2012). Dopamine-related deficit in reward learning after catecholamine depletion in unmedicated, remitted subjects with Bulimia Nervosa. *Neuropsychopharmacology*, **37**, 1945-1952.
65. Vanderhasselt, M.A., De Raedt, R., Dillon, D.G., Dutra, S.J., Brooks, N., **Pizzagalli, D.A.** (2012). Decreased cognitive control in response to negative information in remitted depression: An Event Related Potential study. *Journal of Psychiatry and Neuroscience*, **37**, 250-258.
66. Millner, A.J., Jaroszewski, A.C., Chamarthi, H., **Pizzagalli, D.A.** (2012). Behavioral and electrophysiological correlates of training-induced cognitive control improvements. *NeuroImage*, **63**, 742-753.
67. Santesso, D.L., Bogdan, R., Birk, J.L., Goetz, E.L., Holmes, A.J., **Pizzagalli, D.A.** (2012). Neural responses to negative feedback are related to negative emotionality in healthy adults. *Social Cognitive and Affective Neuroscience*, **7**, 794-803.
68. Bogdan, R., Pringle, P., Goetz, E.L., **Pizzagalli, D.A.** (2012). Perceived stress, anhedonia and illusion of control: Evidence for two meditational models. *Cognitive Therapy and Research*, **36**, 827-832.
69. Vrieze, E., Ceccarini, J., **Pizzagalli, D.A.**, Bormans, G., Vandenbulcke, M., Demyttenaere, K., Van Laere, K., Claes S. (2013). Measuring extrastriatal dopamine release during a reward learning task. *Human Brain Mapping*, **34**, 575-586.
70. Vrieze, E., **Pizzagalli, D.A.**, Demyttenaere, K., Hompes, T., Sienaert, P., de Boer, P., Schmidt, M., Claes S. (2013). Reduced reward learning predicts outcome in Major Depressive Disorder.

Biological Psychiatry, **73**, 639-645.

71. Janes, A.C., Jensen, J.E., Farmer, S.L., Frederick, B.D., **Pizzagalli, D.A.**, Lukas, S.E. (2013). GABA levels in the dorsal anterior cingulate cortex associated with difficulty ignoring smoking-related cues in tobacco-dependent volunteers. *Neuropsychopharmacology*, **38**, 1113-1120.
72. Goetz, E.L., Hariri, A.R., **Pizzagalli, D.A.**, Strauman, T.J. (2013). Genetic moderation of the association between regulatory focus and reward responsiveness: A proof-of-concept study. *Biology of Mood & Anxiety Disorders*. 2013 Feb 1;3(1):3. doi: 10.1186/2045-5380-3-3.
73. Wacker, J., Mueller, E.M., **Pizzagalli, D.A.**, Hennig, J., Stemmler, G. (2013). Dopamine-D2-receptor blockade reverses the association between trait approach motivation and frontal asymmetry in an approach-motivation context. *Psychological Science*, **24**, 489-497.
74. Pechtel, P., **Pizzagalli, D.A.** (2013). Disrupted reinforcement learning and maladaptive behavior in women with a history of childhood sexual abuse: A high-density event-related potential study. *JAMA Psychiatry*, **70**, 499-507.
75. Dillon, D.G., **Pizzagalli, D.A.** (2013). Evidence of successful modulation of brain activation and subjective experience during reappraisal of negative emotion in unmedicated depression. *Psychiatry Research: Neuroimaging*, **212**, 99-107.
76. Berghorst, L.H., Bogdan, R., Frank, M.J., **Pizzagalli, D.A.** (2013). Acute stress selectively reduces reward sensitivity. *Frontiers in Human Neuroscience* 7:133. doi:10.3389/fnhum.2013.00133.
77. Huys, Q.J.M, **Pizzagalli, D.A.**, Bogdan, R., Dayan, P. (2013). Mapping anhedonia onto reinforcement learning: A behavioural meta-analysis. *Biology of Mood & Anxiety Disorders*. 2013, 3:12.
78. Der-Avakian, A., D'Souza, M.S., **Pizzagalli, D.A.***, Markou, A.* (2013). Assessment of reward responsiveness in the Response Bias Probabilistic Reward Task in rats: Implications for cross-species translational research. *Translational Psychiatry* 3, e297; doi:10.1038/tp.2013.74
[*Contributed equally as senior authors]
79. Pechtel, P., Dutra, S.J., Goetz, E.L., **Pizzagalli, D.A.** (2013). Blunted reward responsiveness in remitted depression. *Journal of Psychiatric Research*, **47**, 1864-1869.
80. Vrieze, E., Demyttenaere, K., Bruffaerts, R., Hermans, D., **Pizzagalli, D.A.**, Sienaert, P., Hompes, T., de Boer, P., Schmidt, M., Claes S. (2014). Dimensions in major depressive disorder and their relevance for treatment outcome. *Journal of Affective Disorders*, **155**, 35-41.
81. Abramovitch, A., Reuman, L., **Pizzagalli, D.A.**, Wilhelm, S. (2014). Anhedonia in Obsessive-Compulsive Disorder: Beyond comorbid depression. *Psychiatry Research*, **216**, 223-229.
82. Kumar, P., Berghorst, L.H., Nickerson, L.D., Dutra, S.J., Goer, F., Greve, D., **Pizzagalli, D.A.** (2014). Differential effects of acute stress on anticipatory and consummatory phases of reward processing. *Neuroscience*, **266**, 1-12.
83. Dillon, D.G., Dobbins, I.G., **Pizzagalli, D.A.** (2014). Weak reward source memory in depression reflects blunted activation of VTA/SN and parahippocampus. *Social Cognitive and Affective Neuroscience*, **9**, 1576-1583.
84. Boger, K.D., Auerbach, R.P., Pechtel, P., Busch, A.B., Greenfield, S.F., **Pizzagalli, D.A.** (2014). Co-occurring depressive and substance use disorders in adolescents: An examination of reward responsiveness during treatment. *Journal of Psychotherapy Integration*, **24**, 109-121.
85. Liverant, G.I., Sloan, D.M., **Pizzagalli, D.A.**, Harte, C.B., Kamholz, B.W., Rosebrock, L.E., Cohen, A.L., Fava, M., Kaplan, G.B. (2014). Associations among smoking, anhedonia, and reward learning in depression. *Behavior Therapy*, **45**, 651-663.
86. Mueller, E.M., Panitz, C., Hermann, C., **Pizzagalli, D.A.** (2014). Prefrontal oscillations during recall of conditioned and extinguished fear in humans. *Journal of Neuroscience*, **34**, 7059-66.

87. Chumbley, J.R, Hulme, O., Köchli, H., Russell E., Van Uum, S., **Pizzagalli D.A.**, Fehr, E. (2014). Stress and reward: Long term cortisol exposure predicts the strength of sexual preference. *Physiology & Behavior*, **131**, 33-40.
88. Pergadia, M.L., Der-Avakian, A., D'Souza, M.S., Madden, P.A.F., Heath, A.C., Shiffman, S., Markou, A., **Pizzagalli, D.A.** (2014). Association between nicotine withdrawal and reward responsiveness in humans and rats. *JAMA Psychiatry*, **71**, 1238-1245.
89. Abramovitch, A., **Pizzagalli, D.A.**, Geller, D.A., Reuman, L., Wilhelm, S. (2015) Cigarette smoking in obsessive compulsive disorder and unaffected parents of OCD patients. *European Psychiatry*, **30**, 137-144.
90. Treadway, M.T., Waskom, M.L., Dillon, D.G., Holmes, A.J., Park, M.T.M., Chakravarty, M.M., Dutra, S.J., Polli, F.E., Iosifescu, D.V., Fava, M., Gabrieli, J.D.E., **Pizzagalli, D.A.** (2015). Illness progression, recent stress and morphometry of hippocampal subfields and medial prefrontal cortex in Major Depression. *Biological Psychiatry*, **77**, 285-294.
91. Admon, R., Nickerson, L.D., Dillon, D.G., Holmes, A.J., Bogdan, R., Kumar, P., Dougherty, D.D., Iosifescu, D.V., Mischoulon, D., Fava, M., **Pizzagalli, D.A.** (2015). Dissociable cortico-striatal connectivity abnormalities in major depression in response to monetary gains and penalties. *Psychological Medicine*, **45**, 121-31
92. Mueller, E.M., Panitz, C., **Pizzagalli, D.A.**, Hermann, C., Wacker, J. (2015). Midline theta dissociates agentic extraversion and anhedonic depression. *Personality and Individual Differences*, **79**, 172-177.
93. Mueller, E. M., Pechtel, P., Cohen, A.L., Douglas, S.R., **Pizzagalli, D.A.** (2015). Potentiated processing of negative feedback in depression is attenuated by anhedonia. *Depression and Anxiety*, **32**, 296-305.
94. Admon, R., Holsen, L.M., Aizley, H., Remington, A., Whitfield-Gabrieli, S., Goldstein, J.M., **Pizzagalli, D.A.** (2015). Striatal hyper-sensitivity during stress in remitted individuals with recurrent depression. *Biological Psychiatry*, **78**, 67-76.
95. Kumar, P., Slavich, G.M., Berghorst, L.H., Treadway, M.T., Brooks, N.H., Dutra, S.J., Greve, D.N., O'Donovan, A., Bleil, M.E., Maninger, N., **Pizzagalli, D.A.** (2015). Perceived chronic stress exposure modulates reward-related medial prefrontal cortex responses to acute stress in depression. *Journal of Affective Disorders*, **180**, 104-111.
96. Auerbach, R.P., Stanton, C.H., Proudfit, G.H., **Pizzagalli, D.A.** (2015). Self-referential processing in adolescent depression: A high-density ERP study. *Journal of Abnormal Psychology*, **124**, 233-245.
97. Dillon, D.G.*, Wiecki, T.*, Pechtel, P., Webb, C., Goer, F., Murray, L., Trivedi, M., Fava, M., McGrath, P.J., Weissman, M., Parsey, R., Kurian, B., Adams, P., Carmody, T., Weyandt, S., Shores-Wilson, K., Toups, M., McInnis, M., Oquendo, M.A., Cusin, C., Deldin, P., Bruder, G., **Pizzagalli, D.A.** (2015). A computational analysis of Flanker interference in depression. *Psychological Medicine*, **45**, 2333-2344.
98. Kaiser, R.H., Andrews-Hanna, J.R., Wager, T.D., **Pizzagalli, D.A.** (2015). Large-scale network dysfunction in Major Depressive Disorder: Meta-analysis of resting-state functional connectivity. *JAMA Psychiatry*, **72**, 603-611. **[Highly Cited]**
99. Beard, C., Donahue, R.J., Dillon, D.G., Van't Veer, A., Webber, C., Lee, J., Barrick, E., Hsu, K.J., Foti, D., Carroll, F.Y., Carlezon, W.A., Jr., Björgvinsson, T., **Pizzagalli, D.A.** (2015). Abnormal error processing in depressive states: A Translational examination in humans and rats. *Translational Psychiatry*. (2015) **5**, e564; doi:10.1038/tp.2015.54
100. Fletcher, K., Parker, G., Paterson, A., Fava M., Iosifescu, D., **Pizzagalli, D.A.** (2015). Anhedonia

- in melancholic and non-melancholic depressive disorders. *Journal of Affective Disorders*, **184**, 81-88.
101. Auerbach, R.P., Stewart, J.G., Stanton, C.H., Mueller, E.M., **Pizzagalli, D.A.** (2015). Emotion processing biases and resting EEG activity in depressed adolescents. *Depression and Anxiety*, **32**, 693-701.
 102. Janes, A.C.* , Pedrelli, P.* , Whitton, A.E., Pechtel, P., Douglas, S., Martinson, M.A., Huz, I., Fava, M., **Pizzagalli, D.A.****, Evins, A.E.** (2015). Reward responsiveness varies by smoking status in women with a history of major depressive disorder. *Neuropsychopharmacology*, **40**, 1940-1946 [*These authors made equal contributions; **These authors made equal senior contributions.]
 103. Peechatka, A.L., Whitton, A.E., Farmer, S.L., **Pizzagalli, D.A.**, Janes, A.C. (2015). Cigarette craving is associated with blunted reward processing in nicotine-dependent smokers. *Drug and Alcohol Dependence*, **155**, 202-207.
 104. Hsu, K.J., Beard, C., Rifkin, L., Dillon, D.G., **Pizzagalli, D.A.**, Björgvinsson, T. (2015). Transdiagnostic mechanisms in depression and anxiety: The role of rumination and attentional control. *Journal of Affective Disorders*, **188**, 22-27.
 105. Admon, R., **Pizzagalli, D.A.** (2015). Corticostriatal pathways contribute to the natural time course of positive mood. *Nature Communications*. 6:10065 doi: 10.1038/ncomms10065 (2015).
 106. Mueller, E.M., **Pizzagalli, D.A.** (2016). One year old fear memories rapidly activate human fusiform gyrus. *Social Cognitive & Affective Neuroscience*, **11**, 308-316.
 107. Webb, C.A., Dillon, D.G., Pechtel, P., Goer, F., Murray, L., Huys, Q.J.M., Fava, M., McGrath, P.J., Weissman, M., Parsey, R., Kurian, B., Adams, P., Weyandt, S., Trombello, J., Grannemann, B., Cooper, C., Deldin, P., Tenke, C., Trivedi, M., Bruder, G., **Pizzagalli, D.A.** (2016). Neural correlates of three promising endophenotypes of depression: Evidence from the EMBARC study. *Neuropsychopharmacology*, **41**, 454-463.
 108. Whitton, A.E., Kakani, P., Foti, D., Van't Veer, A., Haile, A., Crowley, D.J., **Pizzagalli, D.A.** (2016). Blunted neural responses to reward in remitted Major Depression: A high-density event-related potential study. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **1**, 87-95.
 109. Kaiser, R.H., Whitfield-Gabrieli, S., Dillon, D.G., Goer, F., Beltzer, M., Minkel, J., Smoski, M., Dichter, G., **Pizzagalli, D.A.** (2016). Dynamic resting-state functional connectivity in Major Depression. *Neuropsychopharmacology*, **41**, 1822-1830. **[Highly Cited]**
 110. Norton, D.J., McBain, R.K., **Pizzagalli, D.A.**, Cronin-Golomb, A., Chen, Y. (2016). Dysregulation of visual motion inhibition in major depression. *Psychiatry Research*, **240**, 214-221.
 111. Trivedi, M.H., McGrath, P.J., Fava, M., Parsey, R.V., Kurian, B.T., Phillips, M.L., Oquendo, M.A., Bruder, G., **Pizzagalli, D.**, Toups, M., Cooper, C., Adams, P., Weyandt, S., Morris, D.W., Grannemann, B., Ogden, R.T., Buckner, R., McInnis, M., Kraemer, H.C., Petkova, E., Carmody, T.J., Weissman, M.M. (2016). Establishing moderators and biosignatures of antidepressant response in clinical care (EMBARC): Rationale and design. *Journal of Psychiatric Research*, **78**, 11-23. **[Highly Cited]**
 112. Corral-Frías, N.S., **Pizzagalli, D.A.**, Carré, J., Michalski, L.J., Nikolova, Y.S., Perlis, R.H., Fagerness, J., Conley, E.D., Lee, M.R., Lancaster, T.M., Haddad, S., Wolf, A., Hariri, A.R., Smoller, J.W., Bogdan, R. (2016). A common genetic variant in Catechol-O-methyl-transferase is associated with individual differences in reward-related response bias. *Genes, Brain and Behavior*, **15**, 503-513.

113. Lewandowski, K.E., Whitton, A.E., **Pizzagalli, D.A.**, Norris, L.A., Ongur, D., Hall, M.H. (2016). Reward learning, neurocognition, social cognition, and symptomatology in psychosis. *Frontiers in Psychiatry*, 7:100.doi: 10.3389/fpsy.2016.00100
114. Auerbach, R.P., Bondy, E., Stanton, C.H., Webb, C.A., Shankman, S.A., **Pizzagalli, D.A.** (2016). Self-referential processing in adolescents: Stability of behavioral and event-related potential markers. *Psychophysiology*, **53**, 1398-1406.
115. Sawyer, A.T., Liverant, G.I., Jun, J.J., Lee, D.J., Cohen, A.L., Dutra, S.J., **Pizzagalli, D.A.**, Sloan, D.M. (2016). Punishment learning in veterans with posttraumatic stress disorder. *Journal of Traumatic Stress*, **29**, 374-378.
116. Berghorst, L.H.* , Kumar, P.* , Greve, D.N., Deckersbach, T., Ongur, D., Dutra, S., **Pizzagalli, D.A.** (2016). Stress and reward processing in bipolar disorder: An fMRI study. *Bipolar Disorders*, **18**, 602-611. [*Co-first authors]
117. Muench, H.M., Westermann, S., **Pizzagalli, D.A.**, Hofmann, S.G., Mueller, E.M. (2016). Self-relevant threat contexts enhance early processing of fear-conditioned faces. *Biological Psychology*, **121**, 194-202.
118. Auerbach, R.P., Tarlow, N., Bondy, E., Stewart, J.G., Aguirre, B., Kaplan, C., Yang, W., **Pizzagalli, D.A.** (2016). Electrocortical reactivity during self-referential processing in female youth with Borderline Personality Disorder. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **1**, 335-344.
119. Admon, R.* , Kaiser, R.H.* , Dillon, D.G., Beltzer, M., Goer, F., Olson, D.P., Vitaliano, G., **Pizzagalli, D.A.** (2017). Dopaminergic enhancement of striatal response to reward in major depression. *American Journal of Psychiatry*, **174**, 378-386. [*Co-first authors]
120. Delaparte, L., Yeh, F.C., Adams, P., Malchow, A., Trivedi, M.H., Oquendo, M.A., Deckersbach, T., Ogden, T., **Pizzagalli, D.A.**, Fava, M., Cooper, C., McInnis, M., Kurian, B.T., Weissman, M.M., McGrath, P.J., Klein, D.N., Parsey, R.V., DeLorenzo, C. (2017). A comparison of structural connectivity in anxious depression versus non-anxious depression. *Journal of Psychiatric Research*, **89**, 38-47.
121. Tenke, C.E., Kayser, J., Pechtel, P., Webb, C.A., Dillon, D.G., Goer, F., Murray, L., Deldin, P., Kurian, B.T., McGrath, P.J., Parsey, R., Trivedi, M., Fava, M., Weissman, M.M., McInnis, M., Abraham, K., Alvarenga, J., Alschuler, D.M., Cooper, C., **Pizzagalli, D.A.**, Bruder, G.E. (2017). Demonstrating test-retest reliability of electrophysiological measures for healthy adults in a multisite study of biomarkers of antidepressant treatment response. *Psychophysiology*, **54**, 34-50.
122. Webb, C.A., Auerbach, R.P., Bondy, E., Stanton, C.H., Foti, D.J., **Pizzagalli, D.A.** (2017). Abnormal neural responses to feedback in depressed adolescents. *Journal of Abnormal Psychology*, **126**, 19-31.
123. Whitton, A.E., Van't Veer, A., Kakani, P., Dillon, D.G., Ironside, M.L., Haile, A., Crowley, D.J., **Pizzagalli, D.A.** (2017). Acute stress impairs frontocingulate activation during error monitoring in remitted depression. *Psychoneuroendocrinology*, **75**, 164-172.
124. Der-Avakian, A., D'Souza, M.S., Potter, D., Chartoff, E.H., Carlezon, W.A. Jr, **Pizzagalli, D.A.***, Markou, A.* (2017). Social defeat disrupts reward learning and potentiates striatal nociceptin/orphanin FQ mRNA in rats. *Psychopharmacology*, **234**, 1603-1614. [*Equal senior contributions.]
125. Barch, D.M., Carter, C.C., Gold, J.M., Johnson, S.L., Kring, A.M., MacDonald, A.W. III, **Pizzagalli, D.A.**, Ragland, J.D., Silverstein, S.M., Strauss, M.E. (2017). Explicit and implicit reinforcement learning across the psychosis spectrum. *Journal of Abnormal Psychology*, **26**, 694-711.

126. Auerbach, R.P., Pisoni, A., Bondy, E., Kumar, P., Stewart, J.G., Yendiki, A., **Pizzagalli, D.A.** (2017). Neuroanatomical prediction of anhedonia in adolescents. *Neuropsychopharmacology*, **42**, 2087-2095.
127. Admon, R.*, Treadway, M.T.*, Valeri, L., Mehta, M., Douglas, S., **Pizzagalli, D.A.** (2017). Distinct trajectories of cortisol response to prolonged acute stress are linked to affective responses and hippocampal gray matter volume in healthy females. *Journal of Neuroscience*, **37**, 7994-8002. [*Co-first authors]
128. Treadway, M.T., Admon, R., Arulpragasam, A.R., Mehta, M., Douglas, S., Vitaliano, G., Olson, D.P., Cooper, J.A., **Pizzagalli, D.A.** (2017). Association between interleukin-6 and striatal prediction-error signals following acute stress in healthy females. *Biological Psychiatry*, **82**, 570-577.
129. Brennan, B.P., Admon, Perriello, C., LaFlamme, E.M., Athey, A.J., **Pizzagalli, D.A.**, Hudson, J.I., Pope, H.G., Jr., Jensen, J.E. (2017). Acute change in anterior cingulate cortex GABA, but not Glutamine/Glutamate, mediates antidepressant response to citalopram. *Psychiatry Research: Neuroimaging*, **269**, 9-16.
130. Jensen, J.E.*, Auerbach, R.P.*, Pisoni, A., **Pizzagalli, D.A.** (2017). Localized MRS reliability of in vivo glutamate at 3 Tesla in shortened scan times: A feasibility study. *NMR in Biomedicine*. 2017;e3771. <https://doi.org/10.1002/nbm.3771> [*Co-first authors]
131. Dillon, D.G.*, Gonenc, A.*, Belleau, E., **Pizzagalli, D.A.** (2018). Depression is associated with dimensional and categorical effects on white matter pathways. *Depression and Anxiety*, **35**, 440–447 [*Co-first authors]
132. Janes, A.C., Zegel, M., Ohashi, K. Betts, J., Molokotos, E., Olson, D., Moran, L., **Pizzagalli, D.A.** (2018). Nicotine normalizes cortico-striatal connectivity in non-smoking individuals with major depressive disorder. *Neuropsychopharmacology*, **43**, 2445-2451.
133. Kaiser, R.H., Clegg, R., Goer, F., Pechtel, P., Beltzer, M., Vitaliano, G., Olson, D.P. Teicher, M.H., **Pizzagalli, D.A.** (2018). Childhood stress, grown-up brain networks: Corticolimbic correlates of threat-related early life stress and adult stress response. *Psychological Medicine*, **48**, 1157-1166.
134. Kaiser, R.H., Treadway, M.T.*, Wooten, D.W.*, Kumar, P.*, Goer, F., Murray, L., Beltzer, M., Pechtel, P., Whitton, A.E., Cohen, A.L., Alpert, N.M., El Fakhri, G., Normandin, M.D., **Pizzagalli, D.A.** (2018). Frontostriatal and dopamine markers of individual differences in reinforcement learning: A multi-modal investigation. *Cerebral Cortex*, **28**, 4281-4290 [*Equal contributions]
135. Kumar, P., Goer, F., Murray, L., Dillon, D.G., Beltzer, M.L., Cohen, A.L., Brooks, N.H., **Pizzagalli, D.A.** (2018). Impaired reward prediction error encoding and striatal-midbrain connectivity in depression. *Neuropsychopharmacology*, **43**, 1581-1588.
136. Moran, L.V., Stoeckel, L.E., Wang, K., Caine, C.E., Villafuerte, R., Calderon, V., Baker, J.T., Ongur, D., Janes, A.J., Evins, A.E.*, **Pizzagalli, D.A.*** (2018). Nicotine-induced activation of caudate and anterior cingulate cortex in response to errors in schizophrenia. *Psychopharmacology*, **235**, 789-802. [*Equal senior contributions.]
137. Moran, L.V., Stoeckel, L.E., Wang, K., Caine, C.E., Villafuerte, R., Calderon, V., Baker, J.T., Ongur, D., Janes, A.C., **Pizzagalli, D.A.***, Evins, A.E.* (2018). Nicotine increases activation to anticipatory valence cues in anterior insula and striatum. *Nicotine & Tobacco Research*, **20**, 851-858 [*Equal senior contributions.]
138. Olson, E.A., Kaiser, R.H., **Pizzagalli, D.A.**, Rauch, S.L., Rosso, I.M. (2018). Anhedonia in trauma-exposed individuals: functional connectivity and decision-making correlates. *Biological*

Psychiatry: Cognitive Neuroscience and Neuroimaging, **3**, 959-967.

139. **Pizzagalli, D.A.***, Webb, C.A.*, Dillon, D.G., Tenke, C.E., Kayser, J., Goer, F., Fava, M., McGrath, P., Weissman, M., Parsey, R., Adams, P., Trombello, J., Cooper, C., Deldin, P., Oquendo, M.A., McInnis, M.G., Carmody, T., Bruder, G., Trivedi, M.H. (2018). Pretreatment rostral anterior cingulate cortex activity in relation to symptom improvements in depression: A randomized clinical trial. *JAMA Psychiatry*, **75**, 547-554. [*Equal contributions]. **[Highly Cited]**
140. Schneier, F.R., Slifstein, M., Whitton, A.E., **Pizzagalli, D.A.**, Reinen, J., McGrath, P.J., Iosifescu, D.V., Abi-Dargham, A. (2018). Dopamine release in antidepressant-naïve major depressive disorder: a multimodal [11C]-(+)-PHNO positron emission tomography and functional magnetic resonance imaging study. *Biological Psychiatry*, **84**, 563-573.
141. Trivedi, M.H., South, C., Jha, M.K., Rush, A.J., Cao, J., Kurian, B., Phillips, M., **Pizzagalli, D.A.**, Trombello, J.M., Oquendo, M.A., Cooper, C., Dillon, D.G., Webb, C., Grannemann, B.D., Bruder, G., McGrath, P.J., Parsey, R., Weissman, M., Fava, M. (2018). A novel strategy to identify placebo responders: Prediction index of clinical and biological markers in the EMBARC trial. *Psychotherapy and Psychosomatics*, **87**, 285-295.
142. Trombello, J.M., **Pizzagalli, D.A.**, Weissman, M., Grannemann, B.D., Cooper, C.M., Greer, T.L., Malchow, A.L., Jha, M.K., Carmody, T.J., Kurian, B.T., Webb, C.A., Dillon, D.G., McGrath, P.J., Bruder, G., Fava, M., Parsey, R.V., McInnis, M.G., Adams, P., Trivedi, M.H. (2018). Characterizing anxiety subtypes and the relationship to behavioral phenotyping in major depression: Results from the EMBARC Study. *Journal of Psychiatric Research*, **102**, 207-215.
143. Webb, C.A., Olson, E.A., Killgore, W.D.S., **Pizzagalli, D.A.**, Rauch, S.L., Rosso, I.M. (2018). Rostral anterior cingulate cortex morphology predicts treatment response to internet-based CBT for depression. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **3**, 255-262.
144. Whitton, A.E., Deccy, S., Ironside, M.L., Kumar, P., Beltzer, M., **Pizzagalli, D.A.** (2018). EEG source functional connectivity reveals abnormal high-frequency communication among large-scale functional networks in depression. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **3**, 50-58.
145. Whitton, A.E., Mehta, M., Ironside, M.L., Murray, G., **Pizzagalli, D.A.** (2018). Evidence of a diurnal rhythm in implicit reward learning. *Chronobiology International*, **35**, 1104-1114.
146. Yang J., Zhang, M., Ahn, H., Zhang, Q., Jin, T.B., Li, I.A., Nemesure, M., Joshi, N., Jiang, H., Miller, J.M., Ogden, R.G., Petkova, E., Milak, M.S., Sublette, M.E., Sullivan, G.M., Trivedi, M.H., Weissman, M., McGrath, P.J., Fava, M., Kurian, B.T., **Pizzagalli, D.A.**, Cooper, C.M., McInnis, M., Oquendo, M.A., Mann, J.J., Parsey, R.V., DeLorenzo, C. (2018). Development and evaluation of a multimodal marker of Major Depressive Disorder. *Human Brain Mapping*, **39**, 4420-4439.
147. Kaiser, R.H., Snyder, H.R., Goer, F., Clegg, R., **Pizzagalli, D.A.** (2018). Attention bias in rumination and depression: Cognitive mechanisms and brain networks. *Clinical Psychological Science*, **6**, 765-782.
148. Bartlett, E.A., DeLorenzo, C., Sharma, P., Yang, J., Zhang, M., Petkova, E., Weissman, M., McGrath, P.J., Fava, M., Ogden, T., Kurian, B.T., Malchow, A., Cooper, C.M., Trombello, J., McInnis, M., Adams, P., Oquendo, M.A., **Pizzagalli, D.A.**, Trivedi, M., Parsey, R.V. (2018). Pre- and early-treatment cortical thickness is associated with SSRI treatment response in Major Depressive Disorder. *Neuropsychopharmacology*, **43**, 2221-2230.
149. Bakker, J.M., Goossens, L., Kumar, P., Lange, I., Michielse, S., Schruers, K., Bastiaansen, J., Lieverse, R., Marcelis, M., van Amelsvoort, T., van Os, J., Myin-Germeys, I., **Pizzagalli, D.A.**, Wichers, M. (2019). From lab to life: Associating brain reward processing with motivated

- behaviour in daily life. *Psychological Medicine*, **49**, 2441-2451.
150. Chen, X., Fan, X., Hu, Y., Zuo, C., Gabrieli, S., Holt, D., Gong, Q., Yang, Y., **Pizzagalli, D.A.**, Du, F., Ongur, D. (2019). Regional GABA concentrations modulate inter-network resting-state functional connectivity. *Cerebral Cortex*, **29**, 1607-1618.
 151. Finan, P.H., Whitton, A.E., Letzen, J.E., Remeniuk, B., Robinson, M.L., Irwin, M.R., **Pizzagalli, D.A.**, Smith, M.T. (2019). Experimental sleep disruption and reward learning: Moderating role of positive affect responses. *Sleep*. 2019 May 1;42(5). pii: zsz026. doi: 10.1093/sleep/zsz026.
 152. McCarthy, J.M., Dumais, K.M., Zegel, M., **Pizzagalli, D.A.**, Olson, D.P., Moran, L.V., Janes, A.C. (2019). Sex differences in tobacco smokers: Executive control network and frontostriatal connectivity. *Drug and Alcohol Dependence*, **195**, 59-65.
 153. Olson, E.A., Kaiser, E.H., **Pizzagalli, D.A.**, Rauch, S.L., Rosso, I.M. (2019). Regional prefrontal resting state functional connectivity in Posttraumatic Stress Disorder. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **4**, 390-398.
 154. 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. (2019). Fear extinction recall modulates human fronto-medial theta and amygdala activity. *Cerebral Cortex*, **29**, 701-715.
 155. Tan, A., Costi, S., Morris, L.S., Van Dam, N.T., Kautz, M., Whitton, A.E., Friedman, A.K., Collins, K.A., Ahle, G., Chadha, N., Do, B., **Pizzagalli, D.A.**, Iosifescu, D.V., Nestler, E.J., Han, M.-H., Murrough, J.W. (in press). Effects of the KCNQ channel opener ezogabine on functional connectivity of the ventral striatum and clinical symptoms in patients with major depressive disorder. *Molecular Psychiatry*. 2018 Nov 1. doi: 10.1038/s41380-018-0283-2. [Epub ahead of print].
 156. Ulke, C., Tenke, C.E., Kayser, J., Sander, C., Böttger, D., Wong, L.Y.X., Alvarenga, J.A., Fava, M., McGrath, P.J., Deldin, P.J., McInnis, M.G., Trivedi, M.H., Weissman, M.M., **Pizzagalli, D.A.**, Hegerl, U., Bruder, G.E. (2019). Resting EEG measures of brain arousal in a multisite study of major depression. *Clinical EEG & Neuroscience*, **50**, 3-12.
 157. Webb, C.A., Trivedi, M.D., Cohen, C., Dillon, D.G., Fournier, F., Goer, F., Fava, M., McGrath, P.J., Weissman, M., Parsey, R., Adams, P., Trombello, J.M., Cooper, C., Deldin, P., Oquendo, M.A., McInnis, M.G., Huys, Q., Bruder, G., Kurian, B., Jha, M., DeRubeis, R.J., **Pizzagalli, D.A.** (2019). Personalized prediction of antidepressant versus placebo response: Evidence from the EMBARC trial. *Psychological Medicine*, **49**, 1118-1127. [Highly Cited]
 158. Whitton, A.E., Green, A.I., **Pizzagalli, D.A.**, Roth, R.M., Williams, J.M., Brunette, M.F. (2019). Potent dopamine D2 antagonists block the reward-enhancing effects of nicotine in smokers with schizophrenia. *Schizophrenia Bulletin*, **45**, 1300-1308.
 159. Boyle, C.C., Kuhlman, K.R., Dooley, L.N., Haydon, M.D., Robles, T.F., Ang, Y.-S., **Pizzagalli, D.A.**, Bower, J.E. (2019). Inflammation and dimensions of reward processing following exposure to the influenza vaccine. *Psychoneuroendocrinology*, **102**, 16-23.
 160. Green, I.W., **Pizzagalli, D.A.**, Admon, R., Kumar, P. (2019). Anhedonia modulates the effects of positive mood induction on reward-related brain activation. *NeuroImage*, **193**, 115-125.
 161. Liao, A., Walker, R., Carmody, T.J., Cooper, C., Shaw, M.A., Grannemann, B.D., Adams, P.A., Bruder, G.E., McInnis, M.G., Webb, C.A., Dillon, D.G., **Pizzagalli, D.A.**, Phillips, M.L., Kurian, B.T., Fava, M., Parsey, R.V., McGrath, P.J., Weissman, M.M., Trivedi, M.H. (2019). Anxiety and anhedonia in depression: Associations with neuroticism and cognitive control. *Journal of Affective Disorders*, **245**, 1070-1078.
 162. Lincoln, S.H., Pisoni, A., Bondy, E., Kumar, P., Singleton, P., Hajcak, G., **Pizzagalli, D.A.**, Auerbach, R.P. (2019). Altered reward processing following an acute social stressor in

- adolescents. *PLoS One*. 2019 Jan 4;14(1):e0209361. doi: 10.1371/journal.pone.0209361. eCollection 2019.
163. Whitton, A.E., Webb, C.A., Dillon, D.G., Kayser, J., Rutherford, A., Goer, F., Fava, M., McGrath, P., Weissman, M., Parsey, R., Adams, P., Trombello, J.M., Cooper, C., Deldin, P., Oquendo, M.A., McInnis, M.G., Carmody, T., Bruder, G., Trivedi, M.H., **Pizzagalli, D.A.** (2019). Pre-treatment rostral anterior cingulate cortex connectivity with salience network predicts depression recovery: Findings from the EMBARC randomized clinical trial. *Biological Psychiatry*, **85**, 872-880.
 164. Aas, M., **Pizzagalli, D.A.**, Anderssen, J.F. Collier Høegh, M., Reponen, E.J., Huflåtten, I.B., Buchmann, C.B., Steen, N.E., Ueland, T., Melle, I., Agartz, I., Andreassen, O.E. (2019). Elevated hair cortisol is associated with childhood maltreatment and cognitive impairment in schizophrenia and in bipolar disorders. *Schizophrenia Research*, **213**, 65-71.
 165. Webb, C.A., Stanton, C.H., Bondy, E., Singleton, P., **Pizzagalli, D.A.**, Auerbach, R.P. (2019). Cognitive versus behavioral skills in CBT for depressed adolescents: Disaggregating within-patient versus between-patient effects on symptom change. *Journal of Consulting and Clinical Psychology*, **87**, 484-490.
 166. **Pizzagalli, D.A.**, Berretta, S., Wooten, D., Goer, F., Pilobello, K.T., Kumar, P., Murray, L., Beltzer, M., Boyer-Boiteau, A., Alpert, N., El Fakhri, G., Mechawar, N., Vitaliano, G., Turecki, G., Normandin, M. (2019). Assessment of striatal dopamine transporter binding in individuals with major depressive disorder: In vivo positron emission tomography and postmortem evidence. *JAMA Psychiatry*, **76**, 854-861.
 167. Baker, J.T., Dillon, D.G., Patrick, L.M., Roffman, J.L., Brady, R.O., Jr., **Pizzagalli, D.A.**, Öngür, D., Holmes, A.J. (2019). Functional connectomics of affective and psychotic pathology. *Proceedings of the National Academy of Sciences USA*, 116, 9050-9059.
 168. Kaiser, R.H., Kang, M., Lew, Y., Van Der Feen, J., Aguirre, B., Clegg, R., Goer, F., Esposito, E., Auerbach, R. P., Hutchison, R.M., **Pizzagalli, D.A.** (2019). Abnormal frontoinsula-default network dynamics in adolescent depression and rumination: A preliminary resting-state co-activation pattern analysis. *Neuropsychopharmacology*, **44**, 1604-1612.
 169. Kaiser, R.H., Peterson, E., Kang, M-S., Van Der Feen, J., Aguirre, B., Clegg, R., Goer, F., Esposito, E.C., Auerbach, R.P., **Pizzagalli, D.A.** (2019). Frontoinsular network markers of current and future adolescent mood health. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **4**(8):715-725.
 170. Pillai, R.L.I, Huang, C., LaBella, A., Zhang, M., Yang, J., Trivedi, M., Weissman, M., McGrath, P., Fava, M., Kurian, B., Cooper, C., McInnis, M., Oquendo, M.A., **Pizzagalli, D.A.**, Parsey, R.V., DeLorenzo, C. (2019). Examining raphe-amygdala structural connectivity as a biological predictor of SSRI response. *Journal of Affective Disorders*, **256**, 8-16.
 171. Kumar, P., Pisoni, A., Bondy, E., Kremens, R., Singleton, P., **Pizzagalli, D.A.***, Auerbach, R.P.* (2019). Delineating the social valuation network in adolescents. *Social Cognitive and Affective Neuroscience*, **14**, 1159-1166. [*Equal senior contribution]
 172. Lawlor, V.M., Webb, C.A., Wiecki, T.V., Frank, M.J., Trivedi, M., **Pizzagalli, D.A.**, Dillon, D.G. (2019). Dissecting the impact of depression on decision-making. *Psychological Medicine*. 2019 Jul 8:1-10. doi: 10.1017/S0033291719001570. [Epub ahead of print]
 173. Zorowitz, S., Rockhill, A.P., Ellard, K.K., Link, K.E., Herrington, T., **Pizzagalli, D.A.**, Widge, A.S., Deckersbach, T., Dougherty, D.D. (2019). The neural basis of approach-avoidance conflict: A model based analysis. *eNeuro*. 2019 Aug 8;6(4). pii: ENEURO.0115-19.2019. doi: 10.1523/ENEURO.0115-19.2019. Print 2019 Jul/Aug.

174. Reich, D.B., Belleau, E.L., Temes, C.M., Gonenc, A., **Pizzagalli, D.A.**, Gruber, S.A. (2019). Amygdala resting state connectivity differences between Bipolar II and Borderline Personality Disorders. *Neuropsychobiology*, **78**, 229-237.
175. Guffanti, G., Kumar, P., Admon, R., Treadway, M.T., Hall, M., Mehta, M., Douglas, S., Arulpragasam, A.R., **Pizzagalli, D.A.** (2019). Depression genetic risk score is associated with anhedonia-related markers across units of analysis. *Translational Psychiatry*. 2019 Sep 19;9(1):236. doi: 10.1038/s41398-019-0566-7.
176. Ironside, M., Admon, R., Maddox, S.A., Mehta, M., Douglas, S., Olson, D.P., **Pizzagalli, D.A.** (2020). Inflammation and depressive phenotypes: Evidence from medical records from over 12,000 patients and brain morphology. *Psychological Medicine*, **50**, 2790-2798.
177. Ironside, M*, Amemori, K-I*, McGrath, C.L., Pedersen, M.L., Kang, M.S., Amemori, S., Frank, M.J., Graybiel, A.M., **Pizzagalli, D.A.** (2020). Approach-avoidance conflict in major depression: Congruent neural findings in human and non-human primates. *Biological Psychiatry*, **87**(5), 399-408. * Equal contribution
178. McLean, S.A., Ressler, K., [...], **Pizzagalli, D.A.**, [...], Kessler, R. (2020). The AURORA study: A longitudinal, multimodal library of brain biology and function after traumatic stress exposure. *Molecular Psychiatry*, **25**, 283-296 [50th of 68 authors]
179. Schroder, H.S., Nickels, S., Cardenas, E., Breiger, M., Perlo, S., **Pizzagalli, D.A.** (2020). Optimizing assessments of post-error slowing: A neurobehavioral investigation of a Flanker Task. *Psychophysiology*. 2020;57:e13473. <https://doi.org/10.1111/psyp.13473>.
180. Smith, E.E., Tenke, C.E., Deldin, P.J., Trivedi, M.H., Weissman, M.M., Auerbach, R.P., Bruder, G.E., **Pizzagalli, D.A.**, Kayser, J. (2020). Frontal theta and posterior alpha in resting EEG: A critical examination of convergent and discriminant validity. *Psychophysiology*. 2020;57:e13483. <https://doi.org/10.1111/psyp.13483>.
181. Liu, Y., Admon, R., Mellem, M.S., Belleau, E.M., Kaiser, R.H., Clegg, R., Beltzer, M., Goer, F., Vitaliano, G., Ahammad, P., **Pizzagalli, D.A.** (2020). Machine learning identifies large-scale reward-related activity modulated by dopaminergic enhancement in major depression. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **5**, 163-172.
182. Whitton, A.E., Reinen, J.M., Slifstein, M., Ang, Y.-S., McGrath, P.J., Iosifescu, D.V., Abi-Dargham, A., Pizzagalli, D.A.*, Schneier, F.R.* (2020). Baseline reward processing and ventrostriatal dopamine function are associated with pramipexole response in depression. *Brain*, **143**, 701-710. [*Equal senior contribution]
183. Wu, W., Zhang, Y., Jiang, J., Lucas, M.V., Fonzo, G.A., Rolle, C.E., Cooper, C., Chin-Fatt, C., Krepel, N., Cornelissen, C.A., Wright, R., Toll, R.T., Trivedi, H.M., Monuszko, K., Caudle, T.L., Sarhadi, K., Jha, M.K., Trombello, J.M., Deckersbach, T., Adams, P., McGrath, P.J., Weissman, M.M., Fava, M., **Pizzagalli, D.A.**, Arns, M., Trivedi, M.H., Etkin, A. (2020). An electroencephalographic signature predicts antidepressant response in Major Depression. *Nature Biotechnology*, **38**, 439-447. **[Highly Cited]**
184. Olson, E.A., Overbey, T.A., Ostrand, C.G., **Pizzagalli, D.A.**, Rauch, S.L., Rosso, I.M. (2020). Childhood maltreatment experiences are associated with altered diffusion in occipito-temporal white matter pathways. *Brain and Behavior*. 2020 Jan;10(1):e01485. doi: 10.1002/brb3.1485
185. Rolle, C.E., Fonzo, G.A., Wu, W., Toll, R., Jha, M.K., Cooper, C., Chin-Fatt, C., **Pizzagalli, D.A.**, Trombello, J.M., Deckersbach, T., Fava, M., Weissman, M.M., Trivedi, M.H., Etkin, A. (2020). Cortical connectivity moderators of antidepressant vs placebo treatment response in Major Depressive Disorder: Secondary analysis of a randomized clinical trial. *JAMA Psychiatry*, **77**, 397-408

186. Wang, K.S., Zegel, M., Molokotos, E., Moran, L.V., Olson, D.P., **Pizzagalli, D.A.**, Janes, A.C. (2020). The acute effects of nicotine on corticostriatal responses to distinct phases of reward processing. *Neuropsychopharmacology*, **45**, 1207-1214.
187. Krystal, A.D., **Pizzagalli, D.A.**, Smoski, M., Mathew, S.J., Nurnberger, J., Jr., Lisanby, S.H., Iosifescu, D., Murrugh, J.W., Yang, H., Weiner, R.D., Calabrese, J.R., Sanacora, G., Hermes, G., Keefe, R.S.E., Song, A., Goodman, W., Szabo, S.T., Whitton, A.E., Gao, K., Potter, W.Z. (2020). A randomized proof-of-mechanism trial applying the ‘fast-fail’ approach to evaluating kappa-opioid antagonism as a treatment for anhedonia. *Nature Medicine*, **26**, 760-768.
188. Kim, M., Mawla, I., Albrecht, D.S., Admon, R., Torrado-Carvajal, A., Bergan, C., Protsenko, E., Kumar, P., Edwards, R.E., Sahaa, A., Napadow, V., **Pizzagalli, D.A.**, Loggia, M.L. (2020). Striatal hypofunction as a neural correlate of mood alterations in chronic pain patients. *NeuroImage*. 2020 May 1;211:116656. doi: 10.1016/j.neuroimage.2020.116656. Epub 2020 Feb 15
189. Yapici Eser, H., Appadurai, V., Yasemin Eren, C., Yazici, D., Chen, C.-Y., Ongur, D., **Pizzagalli, D.A.**, Werge, T., Hall, M.-H. (2020). Association between GLP-1 receptor gene polymorphisms with reward learning, anhedonia, and depression diagnosis. *Acta Neuropsychiatrica*, **32**, 218-225.
190. Molokotos, E., Peechatka, A.L., Wang, K.S., **Pizzagalli, D.A.**, Janes, A.C. (in press). Caudate reactivity to smoking cues is associated with increased responding to monetary reward in nicotine-dependent individuals. *Drug and Alcohol Dependence*. 2020 Apr 1;209:107951. doi: 10.1016/j.drugalcdep.2020.107951. Epub 2020 Feb 29
191. Hubbard, N.A., Siless, V., Frosch, I., Goncalves, M., Lo, N., Wang, J., Bauer, C.C.C., Conroy, K., Cosby, E., Hay, A., Jones, R., Pinaire, M., Vaz De Souza, F., Vergara, G., Ghosh, S., Henin, A., Hirshfeld-Becker, D.R., Hofmann, S.G., Auerbach, R.P., **Pizzagalli, D.A.**, Yendiki, A., Gabrieli, J.D.E., Whitfield-Gabrieli, S. (2020). Brain function and clinical characterization in the Boston Adolescent Neuroimaging of Depression and Anxiety study. *NeuroImage Clinical*, **27**, 102240
192. Siless, V., Hubbard, N.A., Wang J., Jones, R., Lo, N., Bauer, C.C.C., Goncalves, M., Frosch, I., Norton, D., Vergara, G., Conroy, K., Vaz De Souza, F., Rosso, I.M., Wickham, A.H., Cosby, E.A., Hirshfeld-Becker, D., **Pizzagalli, D.A.**, Henin, A., Hofmann, S.G., Auerbach, R.P., Ghosh, S., Gabrieli, J., Whitfield-Gabrieli, S., Yendiki, A. (2020). Image acquisition and quality assurance in the Boston Adolescent Neuroimaging of Depression and Anxiety study. *NeuroImage Clinical*, **26**, 102242.
193. Ang, Y-S., Frontero, N., Belleau, E., **Pizzagalli, D.A.** (2020). Disentangling vulnerability, state and trait features of neurocognitive impairments in depression. *Brain*, **143**, 3865-3877.
194. Ang, Y-S, Kaiser, R., Deckersbach, T., Almeida, J., Phillips, M.L., Chase, H.W., Webb, C.A., Parsey, R., Fava, M., McGrath P., Weissman, M., Adams, P., Deldin, P., Oquendo, M.A., McInnis, M.G., Carmody, T., Bruder, G., Cooper, C.M., Chin Fatt, C.R., Trivedi, M.H., **Pizzagalli, D.A.** (2020). Pretreatment reward sensitivity and frontostriatal resting-state functional connectivity are associated with response to bupropion after sertraline non-response. *Biological Psychiatry*, **88**, 657-667.
195. Kangas, B.D., Wooldridge, L.M., Luc, O.T., Bergman, J., **Pizzagalli, D.A.** (2020). Empirical validation of a touchscreen probabilistic reward task in rats. *Translational Psychiatry*, **10**, 285. doi.org/10.1038/s41398-020-00969-1
196. Petibon, Y., Alpert, N.M., Ouyang, J., **Pizzagalli, D.A.**, Cusin, C., Fava, M., El Fakhri, G., Normandin, M.D. (2020). PET imaging of neurotransmission using direct parametric reconstruction. *NeuroImage*, **221**, 117154.
197. **Pizzagalli, D.A.**, Smoski, M., Ang, Y-S., Whitton, A.E., Sanacora, G., Mathew, S.J., Nurnberger,

- J. Jr, Lisanby, S.H., Iosifescu, D.V., Murrrough, J.W., Yang, H., Weiner, R.D., Calabrese, J.R., Goodman, W., Potter, W.Z., Krystal, A.D. (2020). Selective kappa opioid antagonism ameliorates anhedonic behavior: Evidence from the Fast-Fail Trial in mood and anxiety spectrum disorders (FAST-MAS). *Neuropsychopharmacology*, **45**, 1656-1663.
198. Reilly, E.E., Whitton, A.E., **Pizzagalli, D.A.**, Rutherford, A.V., Stein, M.B., Paulus, M.P., Taylor, C.T. (2020). Diagnostic and dimensional evaluation of implicit reward learning in social anxiety disorder and major depression. *Depression & Anxiety*, **37**, 1221-1230.
199. Murphy, M, Whitton, A.E., Deccy, S., Ironside, M.I., Rutherford, A., Beltzer., M., Sacchet, M., **Pizzagalli, D.A.** (2020). Abnormalities in electroencephalographic microstates are state and trait markers of major depressive disorder. *Neuropsychopharmacology*. 2020 Jun 26. doi: 10.1038/s41386-020-0749-1. Online ahead of print.
200. Webb, C.A., Israel, E.S., Belleau, E., Appleman, L., Forbes, E.E., **Pizzagalli, D.A.** (2021). Mind-wandering in adolescents predicts worse affect and is linked to aberrant default mode network – salience network connectivity. *Journal of the American Academy of Child and Adolescent Psychiatry*, **60**, 377-387.
201. Olson, E.A., **Pizzagalli, D.A.**, Rosso, I.M. (2021). Social anhedonia is associated with low social network diversity in trauma-exposed adults. *Journal of Traumatic Stress*, **34**, 241-247.
202. Seligowski, A.V., Reffi, A.N., Phillips, K.A., Orcutt, H.K., Auerbach, R.P., **Pizzagalli, D.A.**, Ressler, K. J. (2021). Neurophysiological responses to safety signals and the role of cardiac vagal control. *Behavioural Brain Research*, **396**, 112914.
203. Neylan, T.C., Kessler, R.C., Ressler, K.J., Clifford, G., Beaudoin, F.L., An, X., Stevens, J.S., Zeng, D., Linnstaedt, S.D., Germine, L.T., Sheikh, S., Storrow, A.B., Punches, B.E., Mohiuddin, K., Gentile, N.T., McGrath, M.E., van Rooij, S.J.H., Haran, J.P., Peak, D.A., Domeier, R.M., Pearson, C., Sanchez, L.D., Rathlev, N.K., Peacock, W.F., Bruce, S.E., Joormann, J., Barch, D.M., **Pizzagalli, D.A.**, Sheridan, J.F., Harte, S.E., Elliott, J.M., Hwang, I., Petukhova, M.V., Sampson, N.A., Koenen, K.C., McLean, S.A. (in press). Prior sleep problems and adverse post-traumatic neuropsychiatric sequelae (APNS) of motor vehicle collision in the AURORA study. *Sleep*. 2020 Sep 25;zsaa200. doi: 10.1093/sleep/zsaa200. Online ahead of print.
204. Joormann, J., McLean, S.A., Beaudoin, F.L., An, X., Stevens, J.S., Zeng, D., Neylan, T.C., Clifford, G., Linnstaedt, S.D., Germine, L.T., Rauch, S., Musey, P.I., Hendry, P.L., Sheikh, S., Jones, C.W., Punches, B.E., Fermann, G., Hudak, L.A., Mohiuddin, K., Murty, V., McGrath, M.E., Haran, J.P., Pascual, J., Seamon, M., Peak, D.A., Pearson, C., Domeier, R.M., Sergot, P., Merchant, R., Sanchez, L.D., Rathlev, N.K., Peacock, W.F., Bruce, S.E., Barch, D., **Pizzagalli, D.A.**, Luna, B., Harte, S.E., Hwang, I., Lee, S., Sampson, N., Koenen, K.C., Ressler, K., Kessler, R.C. (in press). Socio-demographic and trauma-related predictors of depression within eight weeks of motor vehicle collision in the AURORA study. *Psychological Medicine*. 2020 Oct 29;1-14. doi: 10.1017/S0033291720003773. Online ahead of print.
205. Kessler, R.C., Ressler, K.J., House, S.L., Beaudoin, F.L., An, X., Stevens, J.S., Zeng, D., Neylan, T.C., Linnstaedt, S.D., Germine, L.T., Musey Jr., P.I., Hendry, P.L., Sheikh, S., Storrow, A.B., Jones, C.W., Punches, B.E., Datner, E.M., Mohiuddin, K., Gentile, N.T., McGrath, M.E., van Rooij, S.J., Hudak, L.A., Haran, J.P., Peak, D.A., Domeier, R.M., Pearson, C., Sanchez, L.D., Rathlev, N.K., Peacock, W.F., Bruce, S.E., Miller, M.W., Joormann, J., Barch, D.M., **Pizzagalli, D.A.**, Sheridan, J.F., Smoller, J.W., Pace, T.W.W., Harte, S.E., Elliott, J.M., Harnett, N.G., Lebois, L.A.M., Hwang, I., Sampson, N.A., Koenen, K.C., McLean, S.A. (in press). Socio-demographic and trauma-related predictors of PTSD within 8 weeks of a motor vehicle collision in the AURORA study. *Molecular Psychiatry*. 2020 Oct 19. doi: 10.1038/s41380-020-00911-3.

Online ahead of print.

206. Costi, S., Morris, L.S., Kirkwood, K.A., Hoch, M., Corniquel, M., Vo-Le, B., Iqbal, T., Chadha, N., **Pizzagalli, D.A.**, Whitton, A., Bevilacqua, L., Jha, M.K., Ursu, S., Swann, A.C., Collins, K.A., Salas, R., Bagiella, E., Parides, M.K., Stern, E.R., Iosifescu, D.V., Han, M.-H., Mathew, S.J., Murrough, J.W. (2021). Impact of the KCNQ2/3 channel opener ezogabine on reward circuit activity and clinical symptoms in depression: Results from a randomized controlled trial. *American Journal of Psychiatry*, **178**, 437-446.
207. Wooldridge, L.M., Bergman, J., **Pizzagalli, D.A.**, Kangas, B.D. (2021). Translational assessments of reward responsiveness in the marmoset. *International Journal of Neuropsychopharmacology*, **24**, 409-418.
208. Lee, Y.J., Guell, X., Hubbard, N.A., Siless, V., Frosch, I.R., Goncalves, M., Lo, N., Nair, A., Ghosh, S.S., Hofmann, S.G., Auerbach, R.P., **Pizzagalli, D.A.**, Yendiki, A., Gabrieli, J.D.E., Whitfield-Gabrieli, S., Anteraper, S.A. (2021). Functional alterations in cerebellar functional connectivity in anxiety disorders. *Cerebellum*, **20**, 392-401.
209. Song, X., Chen, X., Yuksel, C., Yuan, J., **Pizzagalli, D.A.**, Forester, B., Öngür, D., Du, F. (in press). Bioenergetics and abnormal functional connectivity in psychotic disorders. *Molecular Psychiatry*. 2021 Jan 4. doi: 10.1038/s41380-020-00993-z. Online ahead of print.
210. Zürcher, N.R., Walsh, E.C., Phillips, R.D., Cernasov, P.M., Tseng, C-E. J., Dharanikota, A., Smith, E., Li, Z., Kinard, J.L., Bizzell, J.C., Greene, R.K., Dillon, D., **Pizzagalli, D.A.**, Izquierdo-Garcia, D., Truong, K., Lalush, D., Hooker, J.M., Dichter, G.S. (2021). A simultaneous [11C]Raclopride Positron Emission Tomography and functional Magnetic Resonance Imaging investigation of striatal dopamine binding in autism. *Translational Psychiatry* 11, 33 (2021). <https://doi.org/10.1038/s41398-020-01170-0>
211. Harnett, N.G., van Rooij, S.J.H., Ely, T.D., Lebois, L.A.M., Murty, V.P., Jovanovic, T., Hill, S.B., Dumornay, N.M., Merker, J.B., Bruce, S.E., House, S.L., Beaudoin, F.L., An, X., Zeng, D., Neylan, T.C., Clifford, G.D., Linnstaedt, S.D., Germine, L.T., Bollen, K.A., Rauch, S.L., Lewandowski, C., Hendry, P.L., Sheikh, S., Storrow, A.B., Musey, P.I., Jr.19, Haran, J.P., Jones, C.W., Punches, B.E., Swor, R.A., McGrath, M.E., Pascual, J.L., Seamon, M.J., Mohiuddin, K., Chang, A.M., Pearson, C., Peak, D.A., Domeier, R.M., Rathlev, N.K., Sanchez, L.D., Pietrzak, R.H., Joormann, J., Barch, D.M., **Pizzagalli, D.A.**, Sheridan, J.F., Harte, S.E., Elliot, J.M., Kessler, R.C., Koenen, K.C., Mclean, S., Ressler, K.J., Stevens, J.S. (2021). Prognostic neuroimaging biomarkers of trauma-related psychopathology: Resting state fMRI shortly after trauma predicts future PTSD and depression symptoms in the AURORA study. *Neuropsychopharmacology*, **46**, 1263-1271.
212. Ang, Y-S., Bruder, G.E., Keilp, J.G., Rutherford, A., Alschuler, D.M., Pechtel, P., Webb, C.A., Carmody, T., Fava, M., Cusin, C., McGrath, P.J., Weissman, M., Parsey, R., Oquendo, M.A., McInnis, M.G., Cooper, C.M., Deldin, P., Trivedi, M.H., **Pizzagalli, D.A.** (in press). An exploration of baseline and early changes in neurocognitive characteristics as predictors of treatment response to bupropion, sertraline and placebo in the EMBARC Clinical Trial. *Psychological Medicine*. 2020 Nov 20;1-9. doi: 10.1017/S0033291720004286. Online ahead of print.
213. Belleau, E.L., Kremens, R., Ang, Y-S, Pisoni, A., Bondy, E., Durham, K., Auerbach, R.P.* , **Pizzagalli, D.A.*** (2021). Reward functioning abnormalities in adolescents at high familial risk for depressive disorders. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **6**, 270-279. [Equal senior contribution]
214. Duda, J.M.* , Moserl, A.D.* , Zuo, C.S., Du, F., Chen, X., Perlo, S., Richards, C.E., Nascimento,

- N., Ironside, M., Crowley, D.J., Holsen, L.M., Misra, M., Hudson, J.I., Goldstein, J.M.[#], **Pizzagalli, D.A.**[#] (2021). Repeatability and reliability of GABA measurements with magnetic resonance spectroscopy in healthy young adults. *Magnetic Resonance in Medicine*, **85**, 2359-2369 [*Equal contribution; [#]Equal senior contribution]
215. Webb, C.A., Auerbach, R.P., Bondy, E., Stanton, C.H., Appleman, L., **Pizzagalli, D.A.** (2021). Reward-related neural predictors and mechanisms of symptom change in cognitive behavioral therapy for depressed adolescent girls. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **6**, 39-49.
216. Benschop, L., Poppa, T., Medani, T., Shahabi, H., Baeken, C., Leahy, R.M., **Pizzagalli, D.A.***, Vanderhasselt, M-A*. (2021). Electrophysiological scarring in remitted depressed patients: Elevated EEG functional connectivity between the posterior cingulate cortex and the subgenual prefrontal cortex as a neural marker for rumination. *Journal of Affective Disorders*, **281**, 493-450. [*Equal senior contributions.]
217. Liverant, G.I., Arditte Hall, K.A., Wieman, S.T., Pineles, S.L., Pizzagalli, D.A. (2011). Associations between insomnia and reward learning in clinical depression. *Psychological Medicine*. 2021 Feb 26;1-10. doi: 10.1017/S003329172100026X. Online ahead of print.
218. Finan, P.H., Letzen, J., Epstein, D.H., Mun, C.J., Stull, S., Kowalczyk, W.J., Agage, D., Phillips, K.A., **Pizzagalli, D.A.**, Preston, K.L. (in press). Reward responsiveness in patients with opioid use disorder on opioid agonist treatment: Role of comorbid chronic pain. *Pain Medicine*. 2021 Feb 24;pnab031. doi: 10.1093/pm/pnab031. Online ahead of print.
219. Cooper, J.A., Nuutinen, M.R., Lawlor, V.M., DeVries, B.A.M., Barrick, E.M., Hossein, S., Cole, D.C., Leonard, C.V., Hahn, E.C., Teer, A.P., Shields, G.S., Slavich, G.M., Ongur, D., Jensen, J.E., Du, F., **Pizzagalli, D.A.**, Treadway, M.T. (2021). Reduced adaptation of glutamatergic stress response is associated with pessimistic expectations in depression. *Nature Communications*, **12**, 3166 (2021). <https://doi.org/10.1038/s41467-021-23284-9>
220. Beaudoin, F.L., Kessler, R.C., Hwang, I., Lee, S., Sampson, N.A., An, X., Ressler, K.J., Koenen, K.C., McLean, S.A., the AURORA Study Group (2021). Pain after a motor vehicle crash: The role of socio-demographics, crash characteristics and peri-traumatic stress symptoms. *European Journal of Pain*, **25**, 1119-1136. [48th of 59 authors]
221. Whitton, A.E., Kumar, P., Treadway, M.T., Rutherford, A.V., Ironside, M.L., Foti, D., Fitzmaurice, G., Du, F., **Pizzagalli, D.A.** (in press). Mapping disease course across the mood disorder spectrum through a Research Domain Criteria (RDoC) framework. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*. 2021 Jan 26:S2451-9022(21)00023-9. doi: 10.1016/j.bpsc.2021.01.004. Online ahead of print.
222. Robble, M.A.*, Schroder, H.S.*, Kangas, B.D., Nickels, S., Breiger, M., Iturra-Mena, A., Perlo, S., Cardenas, E., Der-Avakian, A., Barnes, S.A., Leutgeb, S., Risbrough, V.B., Vitaliano, G., Bergman, J., Carlezon, W.A., Jr. 1, **Pizzagalli, D.A.** (2021). Concordant neurophysiological signatures of cognitive control in humans and rats. *Neuropsychopharmacology*, **46**, 1252-1262. [*Co-first authors] [Recommended by de Wit H: *Faculty Opinions*, 14 Apr 2021; 10.3410/f.739792631.793584241]
223. Pedersen, M.L., Ironside, M., Amemori, K.-I., McGrath, C.M., Kang, M.S., Graybiel, A.M., **Pizzagalli, D.A.***, Frank, M.J.* (in press). Computational phenotyping of brain-behavior dynamics underlying approach-avoidance conflict in major depressive disorder. *PLOS Computational Biology*. [*Equal senior contributions.]
224. Whitton, A.E., Rabinovich, N.A., Lindt, J.D., Pergadia, M.L., **Pizzagalli, D.A.**, Gilbert, D.G. (in press). Genetic and depressive traits moderate the reward-enhancing effects of acute nicotine in

- young light smokers. *Nicotine & Tobacco Research*. 2021 Apr 12;ntab072. doi: 10.1093/ntr/ntab072. Online ahead of print.
225. Auerbach, R.P., Pagliaccio, D., Hubbard, N.A., Frosch, I., Kremens, R., Cosby, E., Jones, R., Siless, V., Lo, N., Henin, A., Hofmann, S.G., Gabrieli, J.D.E., Yendiki, A., Whitfield-Gabrieli, S., **Pizzagalli, D.A.** (in press). Reward-related neural circuitry in depressed and anxious adolescents: A Human Connectome Project. *Journal of the American Academy of Child and Adolescent Psychiatry*. 2021 May 6;S0890-8567(21)00295-1. doi: 10.1016/j.jaac.2021.04.014. Online ahead of print.
 226. Yang, X.*, Kumar, P.*, Nickerson, L.D., Du, Y., Wang, M., Chen, Y., Li, T., **Pizzagalli, D.A.**‡, Ma, X.‡ (in press). Identifying subgroups of major depressive disorder using brain structural covariance networks and mapping of associated clinical and cognitive variables. *Biological Psychiatry: Global Open Science*. [* Co-first authors; ‡ Equal senior contributions]
 227. Lazarov, A., Basel, D., Dolan, S., Dillon, D.G., **Pizzagalli, D.A.**, Schneier, F.R. (2021). Increased attention allocation to socially threatening faces in social anxiety disorder: A replication study. *Journal of Affective Disorders*, **290**, 169-177.
 228. Schettino, M., Ghezzi, V., Ang, Y.-S., Duda, J.M., Fagioli, S., Mennin, D.S., **Pizzagalli, D.A.**, Ottaviani, C. (2021). Perseverative cognition in the positive valence systems: An experimental and ecological investigation. *Brain Sciences*. 2021, 11, 585.
<https://doi.org/10.3390/brainsci11050585>
 229. Wang, K.S., Brown, K., Frederick, B.B., Moran, L.V., Olson, D., **Pizzagalli, D.A.**, Kaiser, R.H., Janes, A.C. (in press). Nicotine acutely alters temporal properties of resting brain states. *Drug and Alcohol Dependence*.
 230. Ji, X., Zhao, J., Li, H., **Pizzagalli, D.A.**, Law, S., Lin, P., Fan, L., Zhang, P., Fang, S., Wang, X., Yao, S., Wang, X. (2021). From motivation, decision-making to action: An fMRI study on suicidal behavior in patients with major depressive disorder. *Journal of Psychiatric Research*, **139**, 14-24.
 231. Kangas, B.D., Iturra-Mena, A.M., Robble, M.A., Luc, O.T., Potter, D., Nickels, S., Bergman, J., Carlezon, W.A., Jr., **Pizzagalli, D.A.** (2021). Concurrent electrophysiological recording and cognitive testing in a rodent touchscreen environment. *Scientific Reports*. 2021 Jun 3;11(1):11665. doi: 10.1038/s41598-021-91091-9.
 232. Cunningham, S., Mazurka, R., Wynne-Edwards, K.E., Milev, R.V., **Pizzagalli, D.A.**, Kennedy, S., Harkness, K.L. (2021). Cortisol reactivity to stress predicts behavioral responsivity to reward: Moderation by sex, depression, and anhedonia. *Journal of Affective Disorders*, **293**, 1-8.
 233. Romer, A.L., **Pizzagalli, D.A.** (in press). Associations between brain structural alterations, executive dysfunction, and general psychopathology in a healthy and cross-diagnostic adult patient sample. *Biological Psychiatry: Global Open Science*.
 234. Stevens, J.S., Harnett, N.G., Lebois, L.A.M., van Rooij, S.J.H. Ely, T.D., Roeckner, A., Vincent, S., Beaudoin, F.L., An, X., Zeng, D., Neylan, T.C., Clifford, G.D., Linnstaedt, S.D., Germine, L.T., Rauch, S.L., Lewandowski, C., Storrow, A.B., Hendry, P.L., Sheikh, S., Musey, P.I Jr., Haran, J.P., Jones, C.W., Panches, B.E., Lyons, M.S., Kurz, M.C., McGrath, M.E., Pascual, J.L., Datner, E.M., Chang, A.M., Pearson, C., Peak, D.A., Domeier, R.M., O'Neil, B.J., Rathlev, N.K., Sanchez, L.D., Pietrzak, R.H., Joormann, J., Barch, D.M., **Pizzagalli, D.A.**, Sheridan, J.F., Luna, B., Harte, S.E., Elliott, J.M., Murty, V.P., Jovanovic, T., Bruce, S.E., House, S.L., Kessler, R.C., Koenen, K.C., McLean, S.A., Ressler, K.J. (in press). Brain-based biotypes of psychiatric vulnerability in the acute aftermath of trauma. *American Journal of Psychiatry*.

Other Peer-Reviewed Publications

1. Davidson, R.J., **Pizzagalli, D.**, Nitschke, J.B., Putnam, K. (2002). Depression: Perspectives from affective neuroscience. *Annual Review of Psychology*, **53**, 545-574.
2. Dillon, D.G., **Pizzagalli, D.A.** (2007). Inhibition of action, thought, and emotion: A selective neurobiological review. *Applied & Preventive Psychology*, **12**, 99-114.
3. Lavric, A., **Pizzagalli, D.**, Forstmeier, S., Rippon, G. (2001). Mapping dissociations in verb morphology. *Trends in Cognitive Sciences*, **5**, 301-308.
4. Dillon, D.G., Deveney, C.M., **Pizzagalli, D.A.** (2011). From basic processes to real-world problems: How research on emotion and emotion regulation can inform understanding of psychopathology, and vice versa. *Emotion Review*, **3**, 74-82.
5. **Pizzagalli, D.A.** (2011). Frontocingulate dysfunction in depression: Towards biomarkers of treatment response. *Neuropsychopharmacology Review*, **36**, 183-206. [Highly Cited]
6. Pechtel, P., **Pizzagalli, D.A.** (2011). Effects of early life stress on cognitive and affective function: An integrated review of human literature. *Psychopharmacology*, **214**, 55-70. [Highly Cited]
7. Bogdan R., Nikolova, Y.S., **Pizzagalli, D.A.** (2013). Neurogenetics of depression: A focus on reward processing and stress sensitivity. *Neurobiology of Disease*, **52**, 12-23.
8. Dillon, D. G., Rosso, I. M., Pechtel, P., Killgore, W. D. S., Rauch, S. L., **Pizzagalli, D.A.** (2014). Peril and pleasure: an RDoC-inspired examination of threat responses and reward processing in anxiety and depression. *Depression and Anxiety*, **31**, 233-249.
9. Auerbach, R.P., Admon, R., **Pizzagalli, D.A.** (2014). Adolescent depression: Stress and reward dysfunction. *Harvard Review of Psychiatry*, **22**, 139-148.
10. **Pizzagalli, D.A.** (2014). Depression, stress, and anhedonia: Toward a synthesis and integrated model. *Annual Review of Clinical Psychology*, **10**, 393-423. [Highly Cited]
11. Treadway, M.T., **Pizzagalli, D.A.** (2014). Imaging the pathophysiology of Major Depressive Disorder – From localist models to circuit-based analysis. *Biology of Mood & Anxiety Disorders*. 2014 4:5.
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. [Highly Cited]
13. Admon, R., **Pizzagalli, D.A.** (2015). Dysfunctional reward processing in depression. *Current Opinion in Psychology*, **4**, 114-118.
14. Der-Avakian, A., Barnes, S.A., Markou, A., **Pizzagalli, D.A.** (2016). Translational Assessment of Reward and Motivational Deficits in Psychiatric Disorders. *Current Topics in Behavioral Neurosciences*, **28**, 231-262.
15. Rizvi, S.J., **Pizzagalli, D.A.**, Sproule, B.A., Kennedy, S.H. (2016). Assessing anhedonia in depression: Potentials and pitfalls. *Neuroscience & Biobehavioral Reviews*, **65**, 21-35.
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.
17. Dillon, D.G., **Pizzagalli, D.A.** (2018). Mechanisms of memory disruption in depression. *Trends in Neurosciences*, **41**, 137-149.
18. Der-Avakian, A., **Pizzagalli, D.A.** (2018). Translational assessments of reward and anhedonia: A tribute to Athina Markou. *Biological Psychiatry*, **83**, 932-939.
19. Pereira, L.P., Köhler, C.A., Stubbs, B., Miskowiak, K.W., Morris, G., de Freitas, B.P., Thompson, T., Fernandes, B.S., Brunoni, A.R., Maes, M., **Pizzagalli, D.A.**, Carvalho, A.F. (2018). Imaging genetics paradigms in depression research: Systematic review and meta-analysis. *Progress in Neuropsychopharmacology & Biological Psychiatry*, **86**, 102-113.

20. Krystal, A.D., **Pizzagalli, D.A.**, Mathew, S.J., Sanacora, G., Keefe, R., Song, A., Calabrese, J., Goddard, A., Goodman, W., Lisanby, S.H., Smoski, M., Weiner, R., Iosifescu, D., Nurnberger, J., Szabo, S., Murrugh, J., Shekhar, A., Potter, W. (2019). The first implementation of the NIMH FAST-FAIL approach to psychiatric drug development. *Nature Reviews Drug Discovery*, 18, 82-84.
21. Belleau, E.L., Treadway, M.T., **Pizzagalli, D.A.** (2019). The impact of stress and major depressive disorder on hippocampal and medial prefrontal cortex morphology. *Biological Psychiatry*, **85**, 443-453. [Highly Cited]
22. Browning, M., Carter, C.S., Chatham, C., Den Ouden, H., Gillan, C.M., Baker, J.T., Chekroud, A.M., Cools, R., Dayan, P., Gold, J., Goldstein, R.Z, Hartley, C.A., Kepecs, A., Lawson, R.P., Mourao-Miranda, J., Phillips, M.L., **Pizzagalli, D.A.**, Powers, A., Rindskopf, D., Roiser, J.P., Schmack, K., Schiller, D., Sebold, M., Stephan, K.E., Franky, M.J., Huys, Q., Paulus, M. (in press). Realizing the clinical potential of computational psychiatry: Report from the Banbury Center Meeting, February 2019. *Biological Psychiatry*. 2020; 88:e5-e10.
23. Carvalho, A.F, Solmi, M., Sanches, M., Machado, M.O., Stubbs, B., Ajnakina, O., Sherman, C., Sun, Y.R., Liu, C.S., Brunoni, A.R., Pigato, G., Fernandes, B.S., Bortolato, B., Husain, M.I., Dragioti, E., Firth, J., Cosco, T.D., Maes, M., Berk, M., Lanctôt, K.L., Vieta, E., **Pizzagalli, D.A.**, Smith, L., Fusar-Poli, P., Kurdyak, P.A., Fornaro, M., Rehm, J., Herrmann, N. (2020). Evidence-based umbrella review of 162 peripheral biomarkers for major mental disorders. *Translational Psychiatry*. 2020 May 18;10(1):152. doi: 10.1038/s41398-020-0835-5.
24. Ang, Y-S., **Pizzagalli, D.A.** (2021). Predictors of treatment outcome in adolescent depression. *Current Treatment Options in Psychiatry*. <https://doi.org/10.1007/s40501-020-00237-5>
25. Lamontagne, S.J., **Pizzagalli, D.A.**, Olmstead, M.C. (in press). Does inflammation link stress to poor COVID-19 outcome? *Stress and Health*. 2020 Dec 14. doi: 10.1002/smi.3017. Online ahead of print.
26. Luc, O.T., **Pizzagalli, D.A.**, Kangas, B.D. (in press). Toward a quantification of anhedonia: Unified matching law and signal detection for clinical assessment and drug development. *Perspectives on Behavior Science*.
27. **Pizzagalli, D.A.**, Roberts, A.C. (in press). Prefrontal cortex and depression. *Neuropsychopharmacology Review*.

Commentaries/Letters to the Editor

1. **Pizzagalli, D.A.**, Deveney, C.M. (2005). Impaired hedonic capacity in major depressive disorder: Impact on affiliative behaviors. *Behavioral and Brain Sciences*, **28**, 362-363. [Invited commentary]
2. **Pizzagalli, D.A.** (2005). The role of frontocingulate pathways in the emotion-cognition interface: Emerging clues from depression. *Behavioral and Brain Sciences*, **28**, 214-215. [Invited commentary]
3. **Pizzagalli, D.A.** (2010). The "anhedonia paradox" in schizophrenia: Insights from affective neuroscience. *Biological Psychiatry*, **67**, 899-901. [Invited commentary]
4. Kaiser, R.H, **Pizzagalli, D.A.** (2015). Dysfunctional connectivity in the depressed adolescent brain. *Biological Psychiatry*, **78**, 594-595. [Invited commentary]
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).

6. **Pizzagalli, D.A.** (2016). Psychobiology of the intersection and divergence of depression and anxiety. *Depression and Anxiety*, **33**, 891-894. [Editorial, Special Issue].
7. **Pizzagalli, D.A.**, Carlezon, W.A., Jr. (2017). Error processing in depressive states: A translational opportunity? *Neuropsychopharmacology Review*, **42**, 372.
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.
9. Auerbach, R.P, **Pizzagalli, D.A.** (2019). Localized MRS reliability of in vivo glutamate at 3 T in shortened scan times: A feasibility study – Efforts to improve rigor and reproducibility. *NMR in Biomedicine*. 2019 Mar 21;:e4093. [Epub ahead of print]
10. Auerbach, R.P, Pagliaccio, D., **Pizzagalli, D.A.** (2019). Towards an improved understanding of anhedonia in youth. *JAMA Psychiatry*, **76**, 571-573.
11. **Pizzagalli, D.A.** (2020). Depression: Harnessing biology and technology for the next generation of Treatments. *Harvard Review of Psychiatry*, **28**, 1-3 [Editorial, Special Issue].
12. Piantadosi, S.C., **Pizzagalli, D.A.**, Bruchas, M.R. (2020). The complex role of nociceptin signaling in stress: Clarity through neuroimaging? *Biological Psychiatry*, **87**, 489-491 [Invited commentary]
13. Javaras, K.N., **Pizzagalli, D.A.** (2020). Neural insensitivity to the effects of hunger: A potential mechanism underlying persistent dietary restriction in Anorexia Nervosa? *American Journal of Psychiatry*, **177**, 567-569 [Invited editorial]
14. Wu, W., **Pizzagalli, D.A.**, Trivedi, M.H., Etkin, A. (in press). Reply to matters arising from Nilsonne. *Nature Biotechnology*.
15. **Pizzagalli, D.A.** (2021). A new chapter for Cognitive, Affective & Behavioral Neuroscience. *Cognitive, Affective, & Behavioral Neuroscience*, **21**, 267-268.

Edited Books

Pizzagalli, D.A., Der-Avakian, A. (forthcoming). *Anhedonia: Preclinical, Translational, and Clinical Integration*. Current Topics in Behavioral Neurosciences Series, Springer.

Book Chapters

1. **Pizzagalli, D.**, Koenig, T., Regard, M., Lehmann, D. (1997). Event-related potential fields and general affective style for presented face images. In: H. Witte, U. Zwiener, B. Schack and A. Doering (Eds.), *Quantitative and topological EEG and MEG analysis*. Jena: Druckhaus Mayer Verlag GmbH, pp. 467-470.
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.
3. Treves, A., **Pizzagalli, D.** (2002). Vigilance and perception of social stimuli: Views from ethology and social neuroscience. In: M. Bekoff, C. Allen and G. Burghardt (Eds.), *The Cognitive Animal: Empirical and Theoretical Perspectives on Animal Cognition*. Cambridge: The MIT Press, pp. 463-469.
4. Davidson, R.J., **Pizzagalli, D.**, Nitschke, J.B. (2002). The representation and regulation of emotion in depression: Perspectives from affective neuroscience. In: I. Gotlib and C. Hammen (Eds.), *Handbook of Depression*. New York: Guilford Press, pp. 219-244.
5. **Pizzagalli, D.**, Lehmann, D., Koenig, T., Regard, M., Pascual-Marqui, R. D. (2002). Face-elicited ERPs and affective attitude: Brain electrical microstate and tomography analyses. In: J.T. Cacioppo,

- G.G. Berntson, R. Adolphs, C.S. Carter, R.J. Davidson, M.K. McClintock, B.S. McEwen, M.J. Meaney, D.L. Schacter, E.M. Sternberg, S.S. Suomi, S.E. Taylor (Eds.), *Foundations in Social Neuroscience*. Cambridge: The MIT Press, pp. 599-614.
6. **Pizzagalli, D.**, Hendrick, A.M., Horras, K.A., Davidson, R.J. (2002). Anterior cingulate theta activity is associated with degree of treatment response in major depression. In: K. Hirata, Y. Koga, K. Nagata, K. Yamazaki (Eds.), *Recent Advances in Human Brain Mapping. Proceedings of the 12th World Congress of the International Society for Brain Electromagnetic Topography (ISBET 2001)*. Excerpta Medica, International Congress Series 1232. Amsterdam: Elsevier Science B.V., pp. 711-7.
 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.
 8. **Pizzagalli, D.**, Shackman, A.J., Davidson, R.J. (2003). The functional neuroimaging of human emotion: Asymmetric contributions of cortical and subcortical circuitry. In: K. Hugdahl and R.J. Davidson (Eds.), *The Asymmetrical Brain*. Cambridge: MIT Press, pp. 511-532.
 9. **Pizzagalli, D.A.** (2007). Electroencephalography and High-Density Electrophysiological Source Localization. In: J.T. Cacioppo, L.G. Tassinary, G.G. Berntson (Eds.), *Handbook of Psychophysiology* (3rd Edition). Cambridge, U.K.: Cambridge University Press, pp. 56-84.
 10. Davidson, R.J., **Pizzagalli, D.**, Nitschke, J.B. (2009). The representation and regulation of emotion in depression: Perspectives from affective neuroscience. In: I. Gotlib and C. Hammen (Eds.), *Handbook of Depression* (2nd edition). New York: Guilford Press, pp. 218-248.
 11. **Pizzagalli, D.A.** (2009). Anhedonia. In: D. Sander and K.R. Scherer (Eds.), *The Oxford Companion to Emotion and the Affective Sciences*. New York: Oxford University Press, p. 33.
 12. Dillon, D.G., **Pizzagalli, D.A.** (2010). Maximizing positive emotions: A translational, transdiagnostic look at positive emotion regulation. In: A. M Kring and D. M. Sloan (Eds.), *Emotion Regulation and Psychopathology*, Guilford Press, New York, pp. 229-252.
 13. Berghorst, L., **Pizzagalli, D.A.** (2010). Defining depression endophenotypes. In C.E. Beyer and S.A. Stahl (Eds.), *Next Generation Antidepressants. Moving Beyond Monoamines To Discover Novel And Differentiated Treatment Strategies For Mood Disorders*. Cambridge University Press, pp. 70-89.
 14. **Pizzagalli, D.A.**, Dillon, D.G., Bogdan, R., Holmes, A. (2011). Reward and punishment processing in the human brain: Clues from affective neuroscience and implications for depression research. In: O. Vartanian and D. Mandel (Eds.), *Neuroscience of Decision Making*. New York: Psychology Press, pp. 199-220.
 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.
 16. Rosso, I.M., Dillon, D.G., **Pizzagalli, D.A.**, Rauch SL. (2015) Translational perspectives on anxiety disorders and the Research Domain Criteria construct of potential threat. In K.J. Ressler, D. Pine, B.O. Rothbaum (Eds.), *Anxiety Disorders: Translational Perspectives on Diagnosis and Treatment*. New York, Oxford University Press, pp. 17-29.
 17. Webb, C.A., **Pizzagalli, D.A.** (2018). Sadness and depression. In: M. Lewis, J. M. Haviland-Jones, and L.F. Barrett (Eds.), *The Handbook of Emotion*, 4th Edition. New York: Guilford, pp. 859-870.
 18. **Pizzagalli, D.A.**, Whitton, A.E., Webb, C.A. (2018). Mood Disorders. In J.N. Butcher, J.M. Hooley (Eds.). *APA Handbook of Psychopathology* (Volume 1; Psychopathology: Understanding, Assessing, and Treating Adult Mental Disorders). American Psychological Association, pp. 403-

427.

- 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

- Appleman, L., Bachetti, J., **Pizzagalli, D.A.**, Webb, C.A. (2018, January). The effects of mind wandering on adolescent affect: An ecological momentary assessment study. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2018.]
- 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.]
- 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.]
- 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.]
- 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.]
- 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.]
- 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.]
- 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.]

9. 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.]
10. Singleton, P., Bondy, E., Stewart, J.G., Webb, C.A., Aguirre, B., Kaplan, C., **Pizzagalli, D.A.**, Auerbach, R.P. (2018, January). Electro cortical reward-related markers among healthy and Borderline Personality Disorder youth. [Poster presented at McLean Research Day, Belmont, MA, January 18, 2018.]
11. 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.]
12. 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.]
13. 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.]
14. 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.]
15. 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.]
16. 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.]
17. 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.]
18. 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.]
19. 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.]
 20. 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.]
 21. 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.]
 22. 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.]
 23. 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.]
 24. 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.]
 25. 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.]
 26. 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.]
 27. 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.]
 28. 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.]
29. 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.]
30. 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.]
31. 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.]
32. 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.]
33. 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.]
34. 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.]
35. 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.]
36. 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.]
37. 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.]
38. 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.]
 39. 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.]
 40. 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.]
 41. Israel, E., Belleau, E.L. **Pizzagalli, D.A.**, Webb, C.A. (2019, January). The Relation between mind-wandering, 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.]
 42. 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.]
 43. 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
 44. 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
 45. 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.]
 46. 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.]
 47. 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.]
 48. 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.]
 49. 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.]
50. 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.]
 51. 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.]
 52. **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]
 53. 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.]
 54. 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.]
 55. 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
 56. 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.]
 57. 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.]
 58. 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 α 2-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.]
 59. 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.]

60. 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.]
61. 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.]
62. 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.]
63. 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.]
64. 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.]
65. 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.]
66. 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.]
67. Israel, E., Belleau, E.L., Forbes, E.E., **Pizzagalli, D.A.**, Webb, C.A. (2019, November). Mind-wandering 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.]
68. 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].
69. Benrubi, L., Brunner, D., Ironside, M., Kang, M.S., Boyden, S., Cusin, C., **Pizzagalli, D.A.** (2020, January). Exaggerated cortisol response to stress in remitted depression. [Poster presented at McLean Research Day, Belmont, MA, January 29, 2020.]
70. Breiger, M., Schroder, H., Lobien, R., Nickels, S., Robble, M., Kangas, B., Bergman, J., Carlezon, W., **Pizzagalli, D.A.** (2020, January). Modulating dopamine in a cognitive control task. [Poster presented at McLean Research Day, Belmont, MA, January 29, 2020.]

71. Brunner, D., Belleau, E., Dillon, D., Levine, M., Hayden, E., Boyden, S., Cheung, C., Kang, M.S., El Fakhri, G., Hooker, J., Ma, C., Kaptchuk, T., Fava, M.*, Cusin, C.*, **Pizzagalli, D.A.*** (2020, January). Reward responsiveness in depression and placebo response. [Poster presented at McLean Research Day, Belmont, MA, January 29, 2020.] [*Equal senior contribution]
72. Duda, J., Ironside, M., Moser, A.D., Perlo, S., Richards, C.E., Nascimento, N., Holsen, L.M., Misra, M., Goldstein, J.M., **Pizzagalli, D.A.** (2020, January). Altered Limbic Functional Connectivity Under Acute Psychosocial Stress in Females with Major Depression. [Poster presented at McLean Research Day, Belmont, MA, January 29, 2020.] [*Equal senior contribution]
73. Israel, E., Pastro, B., Appleman, L., Forbes, E.E., **Pizzagalli, D.A.**, Webb, C.A. (2020, January). Relation between activation behaviors, avoidance and symptom change in Behavioral Activation therapy for anhedonic adolescents: Disaggregating within-patient and between-patient effects. [Poster presented at McLean Research Day, Belmont, MA, January 29, 2020.]
74. Lobien, R., Scheuer, L., Dillon, D.G., Romer, A., Germine, L., **Pizzagalli, D.A.** (2020, January). Optimization of a web-based version of an objective task probing implicit reward learning. [Poster presented at McLean Research Day, Belmont, MA, January 29, 2020.]
75. Moser, A.D., Ironside, M., Duda, J., Perlo, S., Richards, C.E., Nascimento, N.F., Holsen, L.M., Misra, M., Goldstein, J.M.*, **Pizzagalli, D.A.*** (2020, January). Preliminary frontolimbic findings from an independent component analysis among young female adults with a history of depression compared to healthy female adults under acute stress. [Poster presented at McLean Research Day, Belmont, MA, January 29, 2020.] [*Equal senior contribution]
76. Murray, L., Israel, E., Appleman, L., Lovell-Smith, N., Forbes, E.E., **Pizzagalli, D.A.**, Webb, C.A. (2020, January). Real-world positive and negative affect is associated with neural reactivity during reward and loss processing in adolescents. [Poster presented at McLean Research Day, Belmont, MA, January 29, 2020.]
77. Oanh, L., Wooldridge, L.M., Bergman, J., **Pizzagalli, D.A.**, Kangas, B.D. (2020, January). Characterizing anhedonia in a behavioral assay of reward sensitivity: Empirical validation of a reverse translational approach in rats. [Poster presented at McLean Research Day, Belmont, MA, January 29, 2020.]
78. Pastro, B., Israel, E., Appleman, L., Forbes, E.E., **Pizzagalli, D.A.**, Webb, C.A. (2020, January). Modeling general, shared and patient-specific processes of changes in behavioral activation therapy for anhedonic adolescents. [Poster presented at McLean Research Day, Belmont, MA, January 29, 2020.]
79. Robble, M., Schroder, H., Branham, M., Wooldridge, L., Breiger, M., Kangas, B., Bergman, J., Carlezon, W., **Pizzagalli, D.A.** (2020, January). The effects of modafinil on behavioral and neurophysiological indices of cognitive control in a touchscreen-based rodent Flanker Task. [Poster presented at McLean Research Day, Belmont, MA, January 29, 2020.]
80. Rochat, K., Ironside, M., Brunner, D., Kang, M.S., Boyden, S., Olson, D., Cusin, C., **Pizzagalli, D.A.** (2020, January). Inflammatory response to stress is related to reduced reward responsiveness in Major Depression. [Poster presented at McLean Research Day, Belmont, MA, January 29, 2020.]
81. Wang, K., Zegel, M., Molokotos, E., Moran, L.V., Olson, D.P., **Pizzagalli, D.A.**, Janes, A.J. (2020, January). The acute effects of nicotine on corticostriatal responses to distinct phases of reward processing. [Poster presented at McLean Research Day, Belmont, MA, January 29, 2020.]
82. Stewart, J.G., Kremens, R. T., Begetis, M., Craddock, G., Rowe, M., **Pizzagalli, D.A.**, Auerbach, R.P. (2020, May). Stress exposure in adolescents: Examining links with depression risk and

- suicide. [Paper accepted for presentation at the Canadian Stress Research Summit Annual Meetings, Toronto, ON, Canada, April 30- May 1, 2020.]
83. Duda, J.M., Ironside, M., Moser, A.D., Perlo, S., Richards, C.E., Nascimento, N., Holsen, L.M., Misra, M., Goldstein, J.M.*, **Pizzagalli, D.A.*** (2020, May). Aberrant functional connectivity under psychosocial stress in young adults with lifetime suicidal ideation. [Poster presented at the American Psychological Society Annual Convention, Chicago, IL, May 21-24, 2020.] *Equal senior contributions. (Conference canceled).
 84. Ang, Y.-S., Keilp, J., Webb, C., Dillon, D., Deldin, P., Alschuler, D., Alvarenga, J., McGrath, P., Weissman, M., Parsey, R., Fava, M., Trivedi, M., Bruder, G., **Pizzagalli, D.A.** (2020, May). Cognitive subtypes of depression are associated with response to treatment by sertraline. E-poster accepted to the 75th Annual Meeting of the Society for Biological Psychiatry (SOBP), New York, NY. (Conference canceled). *Biological Psychiatry*, 87, S374.
 85. Ceniti, A.K., Chow, T., McInerney, S., Foussias, G., Schweizer, T., **Pizzagalli, D.A.**, Harmer, C., McIntyre, R.S., Kennedy, S.H., Rizvi, S.J. (2020, May). Assessing anhedonia and reward processing in depression before and after treatment with desvenlafaxine. E-poster accepted to the 75th Annual Meeting of the Society for Biological Psychiatry (SOBP), New York, NY. (Conference canceled).
 86. Kavanaugh, B., Tirrell, E., McLaughlin, N., Sherman, A., Carpenter, L., Festa, E., Grammer, J., Temereanca Ibanescu, S., Oberman, L., **Pizzagalli, D.A.**, Parade, S., Seifer, R., Tyrka, A. (2020, May). Gamma oscillations as a potential marker of cognitive control in childhood psychopathology. E-poster accepted to the 75th Annual Meeting of the Society for Biological Psychiatry (SOBP), New York, NY. (Conference canceled). *Biological Psychiatry*, 87, S175.
 87. Morfini, F., Zhang, J., Ji Lee, Y., Nieto Castanon, A., Hubbard, N., Siless, V., Goncalves, M., Frosch, I., Lo, N., Hofmann, S.G., Auerbach, R., **Pizzagalli, D.A.**, Yendiki, A., Gabrieli, J., Whitfield-Gabrieli, S. (2020, May). Resting state connectivity associated with changes in anxiety symptoms in adolescence over one year. E-poster accepted to the 75th Annual Meeting of the Society for Biological Psychiatry (SOBP), New York, NY. (Conference canceled). *Biological Psychiatry*, 87, S332.
 88. Murphy, M., Whitton, A., Deccy, S., Ironside, M., Beltzer, M., Sacchet, M., **Pizzagalli, D.A.** (2020, May). Abnormal electroencephalographic microstate dynamics are associated with active but not remitted Major Depressive Disorder. E-poster accepted to the 75th Annual Meeting of the Society for Biological Psychiatry (SOBP), New York, NY. (Conference canceled). *Biological Psychiatry*, 87, S137.
 89. Murrrough, J., Costi, S., Morris, L., Collins, A., Collins, K., Whitton, A., Pizzagalli, D.A., Russo, S. (2020, May). Dynamic peripheral immune profiles and neurocircuit responses to reward in depression. E-poster accepted to the 75th Annual Meeting of the Society for Biological Psychiatry (SOBP), New York, NY. (Conference canceled). *Biological Psychiatry*, 87, S15
 90. Neilson, C.R., Peterson, E.C., Kang, M.S., Van Der Feen, J., Aguirre, B., Clegg, R., Goer, F., Esposito E.C., Auerbach, R.P., **Pizzagalli, D.A.**, Kaiser, R.H. (2020, May). Abnormal frontoinsula network connectivity as a marker of maladaptive cognitive styles in adolescents. E-poster accepted to the 75th Annual Meeting of the Society for Biological Psychiatry (SOBP), New York, NY. (Conference canceled).
 91. Phillips, R.D., Arnold, M., Pisoni, A., Cernasov, P., Kinard, J., Kan, D., Scott, M., Freeman, L., Pfister, C., Kelley, L., Haworth, K., Nagy, G., Oliver, J., Walsh, E., **Pizzagalli, D.A.**, Smoski, M., Dichter, G. S. (2020, May). Behavioral activation treatment improves reward responsiveness on a probabilistic reward task in a transdiagnostic anhedonic sample. E-poster accepted to the 75th

- Annual Meeting of the Society for Biological Psychiatry (SOBP), New York, NY. (Conference canceled)
92. Smith, E.E., Pizzagalli, D.A., Deldin, P., McInnis, M.G., Trivedi, M.H., Weissman, M.M., Bruder, G.E., Kayser, J. (2020, May). Identifying a frontal theta network that differentially predicts outcomes of treatment with SSRI or placebo in depression: A CSD-PCA approach to analyze sensor-level EEG connectivity. E-poster accepted to the 75th Annual Meeting of the Society for Biological Psychiatry (SOBP), New York, NY. (Conference canceled). *Biological Psychiatry*, 87, S402.
 93. Whitton, A., Reinen, J., Slifstein, M., Ang, Y-S., McGrath, P., Iosifescu, D., Abi-Dargham, A., **Pizzagalli, D.A.**, Schneier, F. (2020, May). Computational approaches to improving treatment precision for anhedonia. E-poster accepted to the 75th Annual Meeting of the Society for Biological Psychiatry (SOBP), New York, NY. (Conference canceled). *Biological Psychiatry*, 87, S50.
 94. Zhang, J., Morfini, F., Ji Lee, Y., Nieto Castanon, A., Yendiki, A., Hubbard, N., Siless, V., Frosch, I., Goncalves, M., Lo, N., Hofmann, S.G., Auerbach, R., **Pizzagalli, D.A.**, Gabrieli, J., Whitfield-Gabrieli, S. (2020, May). Multimodal brain connectomics predict longitudinal symptom change in adolescent depression. E-poster accepted to the 75th Annual Meeting of the Society for Biological Psychiatry (SOBP), New York, NY. (Conference canceled). *Biological Psychiatry*, 87, S201.
 95. Rogers, V.A., Lamontagne, S.J., Schroder, H.S., Breiger, M., **Pizzagalli, D.A.** (2020, May). Eye blink rate as a proxy for dopamine function. [Poster presented at the Tufts University Undergraduate Research and Scholarship Symposium, Medford, MA, May 11, 2020.]
 96. Sperl, M.F.J., Panitz, C., Skoluda, N., Nater, U.M., Pizzagalli, D.A., Hermann, C., & Mueller, E.M. (2019, October). Noradrenaline potentiates conditioned fear bradycardia, N170, and late positive potential amplitudes [Poster during the virtual conference "Expectation, Perception and Cognition 2020", organized by UNSW School of Psychology, Sydney, Australia, October 1-2, 2020]
 97. Belleau, E.L., Kremens, R., Ang, Y-S., Pisoni, A., Bondy, E., Durham, K., Auerbach, R.P., **Pizzagalli, D.A.** (2020, October). Behavioral and neural indices of reward functioning in adolescents at high familial risk for Major Depressive Disorder. [E-poster presented at the Annual Meeting of the National Network of Depression Centers (NNDC), October 1-2, 2020, Virtual Meeting.]
 98. Dong, D., Ironside, M.A. Belleau, E.L., Yao, S., **Pizzagalli, D.A.** (2020, October). Sex-specific neural responses to acute psychosocial stress in depression. [E-poster presented at the Annual Meeting of the National Network of Depression Centers (NNDC), October 1-2, 2020, Virtual Meeting.]
 99. Lamontagne, S.J., **Pizzagalli, D.A.**, Olmstead, M.C. (2020, October). Inflammation links stress to poor COVID-19 outcome. [E-poster presented at the Annual Meeting of the National Network of Depression Centers (NNDC), October 1-2, 2020, Virtual Meeting.]
 100. Nicastrì, C., Gawronski, R., **Pizzagalli, D.A.**, Kumar, P. (2020, October). Impact of COVID-19 on mental health and cognition. [E-poster presented at the Annual Meeting of the National Network of Depression Centers (NNDC), October 1-2, 2020, Virtual Meeting.]
 101. Umemoto, A., Panier, L.Y.X., Cole, S.L., Kayser, J., **Pizzagalli, D.A.**, Auerbach, R.P. (2020, October). Resting posterior alpha power in adolescent major depressive disorder. [E-Poster accepted for the Society for Psychophysiological Research Annual Meeting (virtual), October 7-11, 2020.]

102. Stukin, J., Margiotta, K.N., Ryhanych, A.N., Breiger, M., **Pizzagalli, D.A.**, Sacchet, M.D. (2020, October). Mechanisms of mindfulness meditation for Major Depressive Disorder. Technology in Psychiatry Summit (Online), October 28-30, 2020.
103. Belleau, E.L., Kremens, R., Ang, Y-S., Pisoni, A., Bondy, E., Durham, K., Auerbach, R.P, **Pizzagalli, D.A.** (2020, December). Aberrant reward functioning in adolescents at high familial risk for Major Depressive Disorder. [E-poster presented at the 59th Annual Meeting of the American College of Neuropsychopharmacology (ACNP), December 6-9, 2020, Virtual Meeting.] *Neuropsychopharmacology*, 45, Suppl 1, 100.
104. Cohen, J.E., Holsen, L.M., Ironside, M., Moser, A.D., Perlo, S., Richards, C., Duda, J., Nascimento, N.F., Misra, M., **Pizzagalli, D.A.***, Goldstein, J.M.* (2020, December). Sex differences in stress response circuitry are present in early adulthood: An fMRI study of healthy young adults. [E-poster presented at the 59th Annual Meeting of the American College of Neuropsychopharmacology (ACNP), December 6-9, 2020, Virtual Meeting. *Equal senior contribution]. *Neuropsychopharmacology*, 45, Suppl 1, 222.
105. Cusin C., Jahan A. B., Belleau E., Petibon Y., Dillon D., Normandin M., Alpert N. M., El Fakhri G., Hooker J.M., Chao M., Brunner D., Crowley D., **Pizzagalli D.A.*#**, Fava M.* (2020, December). Neurobiological underpinnings of placebo response assessed by PET/MR neuroimaging in Major Depressive Disorder. [E-poster presented at the 59th Annual Meeting of the American College of Neuropsychopharmacology (ACNP), December 6-9, 2020, Virtual Meeting. *Equal senior contribution; #Presenting author]. *Neuropsychopharmacology*, 45, Suppl 1, 101.
106. Der-Avakian, A., Schroder, H., Barnes, S., Mukamel, E., Breiger, M., Nickels, S., Dillon, D., Leutgeb, S., Risbrough, V., **Pizzagalli, D.A.** (2020, December). Translational EEG and behavioral measures of cognitive flexibility in a cross-species (human/rat) Probabilistic Reversal Learning task. [E-poster presented at the 59th Annual Meeting of the American College of Neuropsychopharmacology (ACNP), December 6-9, 2020, Virtual Meeting.] *Neuropsychopharmacology*, 45, Suppl 1, 166.
107. Phillips, R.D., Zürcher, N.R., Walsh, E.C., Cernasov, P.M., Tseng, C., Dharanikota, A., Smith, E., Li, Z., Kinard, J.L., Bizzell, J., Greene, R.K., Freeman, L., Kan, D., Scott, M., Pfister, C., Dillon, D.G., **Pizzagalli, D.A.**, Izquierdo-Garcia, D., Lalush, D., Hooker, J.M., Dichter, G.S. (2020, December). A simultaneous [¹¹C]Raclopride positron emission tomography and functional magnetic resonance imaging investigation of striatal dopamine binding in autism. [E-poster presented at the 59th Annual Meeting of the American College of Neuropsychopharmacology (ACNP), December 6-9, 2020, Virtual Meeting.] *Neuropsychopharmacology*, 45, Suppl 1, 117.
108. Robble, M.A., Schroder, H.S., Kangas, B.D., Nickels, S., Breiger, M., Iturra-Mena, A., Perlo, S., Cardenas, E., Bergman, J., Carlezon, W.A., Jr., **Pizzagalli, D.A.** (2020, December). Concordant neurophysiological signatures of cognitive control in humans and rats. [E-poster presented at the 59th Annual Meeting of the American College of Neuropsychopharmacology (ACNP), December 6-9, 2020, Virtual Meeting.] *Neuropsychopharmacology*, 45, Suppl 1, 166-167.
109. Sacchet, M.D., **Pizzagalli, D.A.** (2020, December). Relations among individualized brain systems patch sizes and diagnosis, symptoms, and treatment outcomes in major depressive disorder: Preliminary results. [E-poster presented at the 59th Annual Meeting of the American College of Neuropsychopharmacology (ACNP), December 6-9, 2020, Virtual Meeting.] *Neuropsychopharmacology*, 45, Suppl 1, 313.
110. Balkind, E., Pastro, B., Israel, E., Appleman, L., Forbes, E.E., **Pizzagalli, D.A.**, Webb, C.A. (2021, January). Processes of symptom change in behavioral activation therapy for anhedonic

- adolescents: Modeling general, shared and patient-specific relations. [E-Poster presented at McLean Research Day, Belmont, MA, January 27, 2021.]
111. Dong, D., Ironside, M.A., Belleau, E.L., Yao, S., **Pizzagalli, D.A.** (2021, January). Sex-specific neural responses to acute psychosocial stress in depression. [E-Poster presented at McLean Research Day, Belmont, MA, January 27, 2021.]
 112. Duda, J.M., Moser, A.D., Ironside, M., Null, K., Perlo, S., Richards, C.E., Nascimento, N., Holsen, L.M., Zuo, C.S., Du, F., Chen, X., Misra, M., Goldstein, J.M., **Pizzagalli, D.A.** (2021, January). GABA and reward learning under stress in major depression. [E-Poster presented at McLean Research Day, Belmont, MA, January 27, 2021.]
 113. Javaras, K., Patriarca, L., Porter, L.L., Meyer, L.E., Muse, S.M., Hudson, J.I., **Pizzagalli, D.A.**, Greenfield, S.F. (2021, January). A new database of snack food images for research on eating behavior.
 114. Li, J., **Pizzagalli, D.A.**, Kumar, P. (2021, January). Resting state functional connectivity in current and remitted depression. [E-Poster presented at McLean Research Day, Belmont, MA, January 27, 2021.]
 115. Lobien, R., Nowicki, G.P., Linton, S.R., **Pizzagalli, D.A.** (2021, January). Individual differences in trait attentional control and neural activation patterns during a cognitive task. [E-Poster presented at McLean Research Day, Belmont, MA, January 27, 2021.]
 116. Long, Y., Belleau, E., Dillon, D.G., Petibon, Y., Normandin, M., Alpert, N.M., El Fakhri, G., Hooker, J.M., Ma, C., Jahan, A.B., Meyer, A.K., Brunner, D., Crowley, D., Cusin, C.*, **Pizzagalli, D.A.***, Fava M.* (*shared senior authorship). A multimodal investigation on gender differences in reward processing of individuals with major depressive disorder. [E-Poster presented at McLean Research Day, Belmont, MA, January 27, 2021.]
 117. Margiotta, K., Stukin, J., Ryhanych, A., Breiger, M., **Pizzagalli, D.A.**, Sacchet, M. (2021, January). Mechanisms of mindfulness meditation for Major Depressive Disorder. [E-Poster presented at McLean Research Day, Belmont, MA, January 27, 2021.]
 118. Murray, L., Lawrence, H.R., Pastro, B., Balkind, E.G., Israel, E., Lovell-Smith, N., Forbes, E.E., **Pizzagalli, D.A.**, Webb, C.A. (2021, January). Neural response to loss is associated with real-world rumination in adolescents. [E-Poster presented at McLean Research Day, Belmont, MA, January 27, 2021.]
 119. Null, K., Ironside, M.A., Brunner, D.L., Kang, M.S., Nagaswami, M.V., **Pizzagalli, D.A.** (2021, January). The impact of emotional abuse on stress reactivity in current and remitted depression. [E-Poster presented at McLean Research Day, Belmont, MA, January 27, 2021.]
 120. Pastro, B., Balkind, E., Israel, E., Appleman, L., Forbes, E.E., **Pizzagalli, D.A.**, Webb, C.A. (2021, January). Skill utilization in Behavioral Activation therapy for anhedonic adolescents: within-patient and between-patient effects on symptom change. [E-Poster presented at McLean Research Day, Belmont, MA, January 27, 2021.]
 121. Robble, M., Schroder, H.S., Kangas, B.D., Nickels, S., Breiger, M., Ittura-Mena, A., Luc, O., Perlo, S., Cardenas, E., Bergman, J., Carlezon, W.A., Jr., **Pizzagalli, D.A.** (2021, January). Concordant neurophysiological signatures of cognitive control in humans and rats. [E-Poster presented at McLean Research Day, Belmont, MA, January 27, 2021.]
 122. Samuel, A.R., **Pizzagalli, D.A.**, Kumar, P. (2021, January). Perfusion imaging in Major Depressive Disorder. [E-Poster presented at McLean Research Day, Belmont, MA, January 27, 2021.]

123. Smith, C., Brunner, D., Ironside, M.A., **Pizzagalli, D.A.** (2021, January). Serum IL-6 concentrations in major depressive disorder/anxiety comorbidities. [E-Poster presented at McLean Research Day, Belmont, MA, January 27, 2021.]
124. Zhu, C., Song, X., Chen, X., Yuksel, C., Yuan, J., **Pizzagalli, D.A.**, Forester, B., Ongur, D., Du, F. (2021, January). Bioenergetics and abnormal functional connectivity in schizophrenia and bipolar I disorders. [E-Poster presented at McLean Research Day, Belmont, MA, January 27, 2021.]
125. Wieman, S.T., Arditte Hall, K.A., Pineles, S.L., **Pizzagalli, D.A.**, Liverant, G.I. (2021, March). Diminished reward learning in veterans with co-occurring insomnia and depression. [E-poster presented at the 41st Annual Meeting of the Anxiety and Depression Association of America, March 18-19, 2021.]
126. Dillon, D.G., Lazarov, A., **Pizzagalli, D.A.**, Schneier, F.R. (2021, April). Improved accuracy, higher reward totals, and faster evidence accumulation after gaze-contingent music reward therapy in adults with Social Anxiety Disorder. [E-poster presented at the Annual Meeting of the Society for Biological Psychiatry, April 29-May 1, 2021.]
127. Piccolo, M., Belleau, E., Holsen, L.M., Pizzagalli, D.A., Javaras, K.N. (2021, April). Alterations in resting-state functional activity and connectivity for Major Depressive Disorder eating phenotypes. [E-poster presented at the Annual Meeting of the Society for Biological Psychiatry, April 29-May 1, 2021.]
128. Romer, A., Pizzagalli, D.A. (2021, April). The role of executive dysfunction in relations between brain structure and general psychopathology in adult healthy controls and cross-diagnostic patients. [E-poster presented at the Annual Meeting of the Society for Biological Psychiatry, April 29-May 1, 2021.]
129. Wang, S., Ceniti, A., Kennedy, S.H., McInerney, S., Bergmans, Y., Pizzagalli, D.A., Salomons, T., Farb, N., Turecki, G., Rizvi, S.J. (2021, April). Identifying the resting state neural predictors of capability for suicide risk – a focus on pain processing. [E-poster presented at the Annual Meeting of the Society for Biological Psychiatry, April 29-May 1, 2021.]
130. Lamontagne, S.J., Winters, M.F., Pizzagalli, D.A., Olmstead, M.C. (2021, May). Post-acute sequelae of COVID-19: Evidence of mood and cognitive impairment. [E-poster to be presented at the 2021 Canadian Stress Research Summit, May 6-8, 2021.]
131. Schroder, H.S., Lamontagne, S., Madarasmis, S., Duda, J.M., Yu, E., Rogers, V., **Pizzagalli, D.A.** (2021, May). Genetic feedback for depression: Limited impacts on neurophysiological cognitive control and treatment expectations. [E-poster to be presented at the 2021 Association for Psychological Science Virtual Conference, May 26-27, 2021.]
132. Ahn, H., Busler, J.N., Hall, J., Ryder, B., Dillon, D.G., **Pizzagalli, D.A.**, Goldstein, J.M., Holsen, L.M. (2021, May). The association between body mass index and hypothalamus functional connectivity in response to acute psychosocial stress. [E-poster to be presented at the 9th Annual Obesity Research Incubator Session, Brigham Research Institute, May 14, 2021.]
133. Ahn, H., Busler, J.N., Hall, J., Ryder, B., Dillon, D.G., **Pizzagalli, D.A.**, Goldstein, J.M., Holsen, L.M. (2021, May). The association between body mass index and hypothalamus functional connectivity in response to acute psychosocial stress. [E-poster to be presented at 2021 Virtual Convention of the American Psychological Society, May 26-27, 2021.]
134. Romer, A.L., **Pizzagalli, D.A.** (2021, May). Executive function as a prospective predictor and outcome of general psychopathology in the Adolescent Brain Cognitive Development Study. [Flash talk presented at 2021 Virtual Convention of the American Psychological Society, May 26-27, 2021.]

135. Ruberto, V.L., Null, K., Duda, J.M., Ironside, M., Perlo, S., Richards, C.E., Moser, A.D., Nascimento, N., Holsen, L.M., Misra M., Goldstein, J.M., **Pizzagalli, D.A.** (2021, May). Somatic symptoms and cortisol response in current and past major depressive disorder. [E-poster presented at 2021 Virtual Convention of the American Psychological Society, May 26-27, 2021.]
136. Schroder, H., Lamontagne, S., Madarasmi, S., Duda, J., Yu, E., Rogers, V., **Pizzagalli, D.A.** (2021, May). Genetic feedback for depression: Limited impacts on neurophysiological cognitive control and treatment expectations. [E-poster presented at 2021 Virtual Convention of the American Psychological Society, May 26-27, 2021.]

<i>Additional Conference Presentations Prior to the Last Three Years (1996 – 2017):</i>	280
<u>Total abstracts/conference presentations (1996 – present):</u>	<u>416</u>

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 (\$38,957,899 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 56 fellowships/training grants amounting \$8,709,978 in direct costs (51 fellowships amounting \$8,499,790 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.