Curriculum Vitae

<u>Date Prepar</u>	June 1, 2023			
Name:	Diego A. Pizzagalli, Ph.D.	Diego A. Pizzagalli, Ph.D.		
Office Addr	1 / 5	McLean Hospital, de Marneffe Building, Room 233C, Mailstop 331, 115 Mill Street, Belmont, MA 02478-9106		
<u>Phone</u> :	(617) 855-4230 (Depression Center) (617) 855-2797 (Neuroimaging Center)			
Email:	dap@mclean.harvard.edu			
Place of Birt	Mendrisio, Switzerland			
<u>Education:</u> 1995	1.S., Psychology, University of Zurich, Swit	zerland		
1998	h.D., Psychology, University of Zurich, Swi	tzerland		
Postdoctoral				
1998-1999	Postdoctoral Research Fellow, KEY Institute Hospital of Psychiatry, Zurich, Switzerland (· · · ·		
1999-2000	tdoctoral Research Fellow, Laboratory of Affective Neuroscience, Psychology partment, University of Wisconsin-Madison, WI, USA (Richard J. Davidson, Ph.D.)			
2000-2002	istant Scientist, W.M. Keck Laboratory for Functional Brain Imaging and Behavior Laboratory of Affective Neuroscience, Psychology Department, University of consin, WI, USA, Madison (Richard J. Davidson, Ph.D.)			
2002	sociate Scientist, W.M. Keck Laboratory for Functional Brain Imaging and Behavior I Laboratory of Affective Neuroscience, Psychology Department, University of sconsin, WI, USA Madison (Richard J. Davidson, Ph.D.)			
Faculty Acad	<u>ic Appointments</u> :			
2002-2006	Assistant Professor, Department of Psycholog	gy, Harvard University		
2006-2010	n and Ruth Hazel Associate Professor of the Social Sciences, Department of chology, Harvard University			
2010-2014	sociate Professor of Psychiatry, Department of Psychiatry, Harvard Medical School			
2014-	rofessor of Psychiatry, Department of Psych	niatry, Harvard Medical School		
Appointments at Hospitals/Affiliated Institutions:				
1992-1994	Research Assistant, Institute for Biological P Switzerland (Director: Norbert Bischof, Ph.D			
1994-1997	Associate Research Specialist, EEG/EP-Map Jniversity Hospital, Zurich (Director: Dietric			
1995-1997		nical and Research Specialist, Neuropsychological Unit, Department of Neurology, iversity Hospital, Zurich (Director: Marianne Regard, Ph.D.)		
2009-	aculty Affiliate, Center for Brain Science, H	larvard University, Cambridge, MA		

2010-	Psychologist, McLean Hospital, Belmont, MA
2011-	Faculty Affiliate, Program in Neuroscience, Harvard Medical School, Boston, MA

Major Administrative Leadership Positions:

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

Committee Service

<u>Local</u> 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 2003/2004	Junior Faculty Search in Psychopathology, Department of Psychology, Harvard University

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
2019-2022	Subcommittee of Professors, Harvard Medical School (reviews of promotion cases to Full Professors)
2021	Search Committee Member, Chief, Neuropsychology Department, McLean Hospital
2021	Search Committee Member, Chief, Psychology Department, McLean Hospital
<u>National</u>	
2010-2013	Research Domain Committee, National Network of Depression Centers
2011	

2012-	Early Career Award (Psychopathology area) Committee, American Psychological Association
	Letters of Evaluation for Academic Promotions: Mt. Sinai, Northwestern University, New York University, UCSD, University of Texas, University of Pittsburgh (2x),
2014	University of Wisconsin,
2017-	2014 NNDC Conference Program Committee, National Networks of Depression Center
2018	Scientific Advisor, American Foundation for Suicide Prevention
2020	Ad-hoc reviewer, NIMH Board of Scientific Counselors
	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-	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	
	2022-:	Early Career Award Committee	
2004-	American Psycl	nological Society, Member	
2004-	Society of Biolo	Society of Biological Psychiatry, Member	
	2013-present	: Mentee/Mentor Program	
	2015-2017:	Program Planning Committee	
2004-2013	Society for Neu	roscience, Member	
2004-	Society for Rese	earch in Psychopathology	
	2010-2014:	Executive Board Member	
	2012:	Early Career Award Committee	
	2016:	Chair, Smadar Levin Award Committee	
2006-2008	Emotion Resear	rch 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
	2020:	Council Liaison for the Education and Training Committee
2013- Anxiety and Depression Association of America (ADAA)		ression 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
2021-	Psychonomic	Society, Full Member
Grant Review	v Activities	

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, <i>Building Translational Research in Behavioral Science (ZMHI-NRB-Q 07)</i> , National Institute of Mental Health (NIMH/NIH)
2006	Study Section Member, NIH Adult Psychopathology and Disorders of Aging Study Section, National Institute of Mental Health (NIMH/NIH)
2008	Reviewer, Society in Science (The Branco Weiss Fellowship), Swiss Federal Institute of Technology Zurich
2011	Reviewer, Special Emphasis Panel, Basic Research on Self-Regulation (R21), <i>Biobehavioral & Behavioral Processes IRG</i> (ZRG1 BBBP-L(53), National Institute of Mental Health (NIMH/NIH)
2011	Reviewer, Integrated Discovery System Projects, Ontario Brain Institute (OBI), Toronto, Ontario, Canada.
2012	Reviewer, Harvard Catalyst Advanced Imaging Pilot Research Grants and Concept Development Awards Program, Harvard Clinical and Translational Science Center, Harvard University
2013	Reviewer, NIH Director's Transformative Research Awards (R01) (ZRG1-BCMB-A 51R), National Institute of Health (NIH)
2013	Reviewer, <i>Mechanistic Research on CAM Natural Products (R01)</i> , Center for Complementary and Alternative Medicine (NCCAM/NIH)
2013	Co-Chair, Advancing Eating Disorders Research through Dimensional Studies of Biology and Behavior (RFA-MH-14-030), National Institute of Mental Health (NIMH/NIH)
2014	Reviewer, <i>Member-Conflict Applications MESH and CPDD</i> , ZRG1 BBBP-V (02), National Institute of Mental Health (NIMH/NIH)
2015	

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)
2016	Co-Chair, Silvio O. Conte Centers for Basic or Translational Mental Health Research (P50)
2017, 2018, 2019	<i>NIH Director's Early Independence Awards</i> (DP5) (Stage 1 Reviewer) (April and December 2016)
	Grant Reviewer, American Foundation for Suicide Prevention
2017	
2019	Reviewer, Special Emphasis Member Conflict: Emotion, Substance Use, and Psychopathology, ZRG1 BBBP-J 02, National Institute of Mental Health (NIMH/NIH)
2020	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, <i>Early Phase Psychosocial and Confirmatory Efficacy Clinical Trials</i> , ZMH1 ERB-B (02), National Institute of Mental Health (NIMH/NIH) (October 9, 2020)
2022	Reviewer, Silvio O. Conte Centers for Basic or Translational Mental Health Research (P50)
2022	Reviewer, ZHD1 DSR-G (57), National Center for Medical Rehabilitation Research (NCMRR), NIH, <i>NCMRR Early Career Research Award (R03)</i> , July7-8, 2022.
2022	Reviewer, Silvio O. Conte Centers for Basic or Translational Mental Health Research (P50), October 26, 2022.
	NIH Director's Early Independence Awards (DP5 awards), December 9, 2022.
Editorial Acti	<u>ivities</u>
2002, 2009	Outside Reviewer, Oxford University Press
2003	Outside Reviewer, MIT Press
2004	Outside reviewer, Allyn & Bacon [revision of Butcher/Mineka/Hooley, <i>Abnormal Psychology</i> , 13th ed.]
2006-2011	Consulting Editor, <i>Emotion</i>
2007-2020	Consulting Editor, Cognitive, Affective and Behavioral Neuroscience
2009-	Advisory Board, Swiss Journal of Psychology
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- 2010- Editorial Board, *CNS Spectrums*
- 2010-2015 Editorial Board, Biology of Mood & Anxiety Disorders

2012	Outside Reviewer, Gross, J.J. (Ed.) (2014). <i>Handbook of Emotion Regulation</i> (2nd ed.). New York, NY: Guilford Press.
2012-2016	Editorial Board, Journal of Abnormal Psychology
2012-	Editorial Board, Neuroscience and Biobehavioral Reviews
2012-	Editorial Board, Depression and Anxiety
2013-	Editorial Board, Neuropsychopharmacology
2013-	Editorial Board, Psychological Medicine
2013-	Field Editor, Harvard Review of Psychiatry
2015	Guest Editor, Special Issue "Psychobiology of the Intersection and Divergence of Depression and Anxiety", <i>Depression and Anxiety</i>
2016-	Editorial Board, Biological Psychiatry
2016-	Editorial Board, Computational Psychiatry
2019-	Editorial Board, Biological Psychiatry: Cognitive and Clinical Neuroscience
2019-	Editorial Board, Affective Science
2018-2019	Guest Editor, Special Issue, "Depression: Harnessing Biology and Technology for the Next Generation of Treatment", <i>Harvard Review of Psychiatry</i>
2020-	Editorial Board, The American Journal of Psychiatry
2021-2025	Editor-in-Chief, <i>Cognitive, Affective, & Behavioral Neuroscience</i> (1/1/21-12/31/24)
2022	Associate Editor, American Psychological Association (APA) Handbook of Depression (Co-Editors-in-Chief: Jeremy Pettit and Thomas Olino)
2022-	Principal Editor, Human Psychopharmacology: Experimental (for North and South America), <i>Psychopharmacology</i>

Ad hoc Reviewer

Total Numbers of Journals:	N = 136
Total Numbers of Reviews Performed since 1998:	N = 873
Average reviews/year over past 12 years:	N = 51/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 Communications; 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 Investigation; 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 Mood and Anxiety Disorders; 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 Communications; Nature Human Behaviour; Nature Medicine; Nature Mental Health; Nature *Neuroscience*; *Nature Reviews Neuroscience*; *Neurobiology of Disease*; *Neurobiology of Stress*; *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; Science Translational Medicine; 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

Top 10 Reviewer for *Biological Psychiatry* (2014, 2016, 2017, 2018, 2019, 2021, 2022)

Top 10 Reviewer for *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging* (2016, 2020, 2022)

Top 10 Reviewer for *Neuropsychopharmacology* (2014, 2015, 2018, 2022)

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. Ph.D. 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)
2021	2021 Highly Cited Researcher (Web of Science) [Awarded to 0.1%, of the world's researchers across 21 research fields]
2022	2022 Highly Cited Researcher (Web of Science) [Awarded to 0.1%, of the world's researchers across 21 research fields]

Report of Funded and Unfunded Projects

Past

01/01/98 – 12/31/99 Research Grant, Institut für Grenzgebiete der Psychologie und Psychohygiene, Freiburg, Germany (grant #: 67 13 10; PI: Peter Brugger) *The Magical Brain: Neuronal Mechanisms Underlying Paranormal Belief* Role: Co-PI Direct costs: \$199,955 01/01/99 – 12/31/99 81ZH-52864

	Swiss National Science Foundation Fellowship for Prospective ResearchersInvestigations of Emotional Processing and Style: Electroencephalographicand Brain Imaging StudiesRole:PIDirect costs: \$35,000
01/01/99 - 12/31/00	Research Grant, "Holderbank"-Stiftung zur Förderung der wissenschafttlichen 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 <i>Investigations of Emotional Processing and Style: Electroencephalographic</i> <i>and Brain Imaging Studies</i> Role: PI Direct costs: \$38,000
01/01/03 - 12/31/03	The Clark Fund, Harvard UniversityFunctional Neuroimaging Studies of DepressionRole:PIDirect 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/NIHNeuroimaging Studies of Reward Processing in DepressionRole:PIDirect 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 inDepressionRole:PIDirect 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 GrantEarly Adverse Events and Depression: A Neuroimaging Study Assessing theEffects of Childhood Maltreatment on Reward Processing in Young AdulthoodRole:PIDirect costs: \$29,874
07/01/06 - 06/30/08	1R21AT002974National Center for Complementary & Alternative Medicine/NIHThe Effects of SAMe on Reward Circuitry in DepressionRole:PIDirect 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 GrantEarly Adverse Events and Depression: A Neuroimaging Study Assessing theEffects of Childhood Maltreatment on Reward Processing in Young AdulthoodRole:PIDirect 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 UniversityNeural Mechanisms of Emotion Dysregulation in DepressionRole: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/NIHEstablishing Moderators/Biosignatures of Antidepressant Response-ClinicalCareRole:PIDirect 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/NIHEarly Life Stress and Depression: Molecular and Functional ImagingApproachesRole:PIDirect costs:\$1,636,789		
09/01/14 - 08/31/17	Tommy Fuss FundToward Identification of Genetic and Neural Predictors of AdolescentDepressionRole:Co-PI (with Randy Auerbach)Direct costs:\$86,956		
08/15/15 - 05/31/17	1R01MH095809-03S1 (Pizzagalli) SupplementNational Institute of Mental Health/NIHEarly Life Stress and Depression: Molecular and Functional ImagingApproachesRole:PIDirect costs:\$98,628		
04/01/13 - 03/30/18	1R01MH100350-01 (Normandin)National Institute of Mental Health/NIHCombined PET and fMRI Imaging of Dopamine and Serotonin Responses inDepressionRole:Sub-contract PIDirect 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 <i>Multi level Analysis of Positive Valence Systems Across Mood Disorders</i> Role: PI Direct costs: \$1,589,524	
08/01/13 - 07/31/18	1R01MH101521 (Schneier) [NCE] National Institute of Mental Health/NIH Ventrostriatal Dopamine Release and Reward Motivation in MDD Role: Sub-contract PI Direct costs: \$178,740 (McLean Hospital subcontract)	
09/26/17 – 09/25/18	HHSN271201700776P (Germine) National Institute of Mental Health/NIH <i>TestMyBrain Design Consulting for Research Domain Criteria Field Test</i> <i>Battery</i> Role: Co-investigator Direct costs: \$91,447	
07/01/14 - 03/31/19	1R01 DA036032 (Gilbert)National Institute of Drug Abuse/NIHPredictors of Light Smoker TrajectoriesRole:Sub-contract PIDirect costs:\$151,959 (McLean Hospital subcontract)	
07/01/18 – 06/30/19	Partners Innovation Discovery Grant (Webb, Pizzagalli)Partners HealthCareDevelopment of a Machine Learning Algorithm-guided Approach to TreatmentSelection for Depressed PatientsRole:Co-PIDirect costs:\$50,000	
10/01/15 - 09/30/19	Tommy Fuss FundIdentifying Neural Markers that Predict Depression in AdolescenceRole: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-PIDirect 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/NIHGhrelin Modulation of Mesolimbic Reward Signaling in Stress-inducedHyperphagiaRole:Subcontract PIDirect costs:\$60,490 (McLean Hospital subcontract)
06/01/18 - 04/30/20	1R61MH116089 (Schneier)National Institute of Mental Health/NIHGaze-contingent Music Reward Therapy for Social AnxietyRole:Subcontract PIDirect costs:\$231,779 (McLean subcontract)
09/18/15 - 12/30/21	1R01MH102279 (Cusin, Fava, Pizzagalli) National Institute of Mental Health/NIH <i>Neurobiological Underpinnings of Placebo Response in Depression</i> 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
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

Current

04/28/16 – 02/28/27	R37MH068376-17 (Pizzagalli) [MERIT award renewal] National Institute of Mental Health/NIH <i>Neuroimaging Studies of Reward Processing in Depression</i> Role: PI Direct costs: \$2,468,558			
04/13/21 - 03/31/24	1R33MH116089 (Schneier)National Institute of Mental Health/NIHGaze-contingent Music Reward Therapy for Social AnxietyRole:Subcontract PIDirect costs:\$116,649 (McLean subcontract)			
02/15/19 - 03/31/24	R01 MH116205-A1 (MPI: Misra, Eddy) National Institute of Mental Health/NIH <i>The Role of Estrogen in the Neurobiology of Eating Disorders: A Study of</i> <i>Cognitive Flexibility and Reward in Eating Disorders</i> Role: Subcontract PI Direct costs: \$724,961 (McLean subcontract)			
01/01/20 - 12/31/23	Richard Saltonstall Charitable Foundation (Pizzagalli)Toward Novel Antidepressant Targets for Major Depression: Focus onNociceptin/Orphanin FQ ReceptorsRole:PIDirect costs:\$100,000			
10/01/19 – 12/31/23	Millennium Pharmaceuticals (Pizzagalli) Development and Optimization of a Platform To Evaluate Behavioral and Electrophysiological Effects of Ketamine in Treatment-Resistant Depression Role: PI Direct costs: \$163,901			
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	
11/01/21 - 10/31/24	(Pizzagalli, Ressler) Wellcome Leap <i>McLean Dissection of Anhedonia: From Neural Systems and Multiomics to</i> <i>Behavior</i> Role: MPI Direct costs: \$4,282,491	
02/01/22 - 1/30/24	Israel-U.S. Binational Industrial Research and Development Foundation (Pizzagalli, Ressler) Personalizing Self Neuro-modulation Therapy for Major Depressive Disorder (MDD) Using Clinical Biomarkers for MDD Subtypes Role: MPI McLean Subcontract Direct costs: \$870,116	
01/01/22 - 12/31/23	Tommy Fuss Foundation (Pizzagalli) <i>Toward Neuroscience-Informed, Personalized Treatment for Adolescent</i> <i>Depression</i> Role: PI Direct costs: \$240,169	
03/30/23 - 04/01/26	Defense Advanced Research Projects Agency (DARPA) (Andrea Webb) <i>FINDER—Finding Integrated Neural Determinants for Emerging Risk/Neural</i> <i>Evidence Aggregation Tool (NEAT)</i> Role: Site PI Direct costs: \$1,758,054	

Awards/Grants to Mentees

Past (as primary mentor)

09/01/06 – 09/01/07	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 <i>Emotion Regulation in Depression: Neural Bases of Reappraisal</i> 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 SchoolProject ADAPT: Examining the Efficacy of an Investigatory Group Treatmentfor Adolescent DepressionRole:Primary MentorTotal 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 <i>Neural Substrates of Emotion Dysregulation and High-Risk Behavior in</i> <i>Adolescents with a History of Childhood Sexual Abuse</i> Role: Primary Mentor Direct costs: \$7,900		
07/01/12 - 06/30/13	Kaplen Fellowship on Depression (Randy Auerbach)Department of Psychiatry, Harvard Medical SchoolThe Neural Underpinnings Associated with Reward Dysfunction in AdolescentDepressionRole:Primary MentorDirect 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 <i>Neuroinflammatory Mechanisms of Stress-induced Anhedonia</i> Role: Primary Mentor Direct costs: \$19,188		
04/1/12 - 03/31/14	K99MH094438 (Daniel Dillon) National Institute of Mental Health/NIH <i>Neuroscience of Reward-related Learning and Memory in Depression</i> 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 Disorder	v of Reward and Punishment Learning in Major Depressive		
	Role: Direct costs:	Primary Mentor \$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	Investigator A Neuroimagin Role:	Brain & Behavior Research Foundation (formerly NARSAD) YoungInvestigator Award (Bradford Reich)Neuroimaging of Affective Instability in BPD/BP IIRole:Primary MentorDirect costs: \$59,952		
01/15/13 - 01/14/16	National Inst	801-01 (NRSA) (Christian Webb) itute of Mental Health/NIH Neural and Psychotherapeutic Mediators of Placebo Response in Primary Mentor \$150,407		
07/01/13 - 06/30/14		orneel Young Investigator Award (Roee Admon) orks Mediating Acute and Sustained Positive Mood Deficits in Primary Mentor \$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	Investigator A	avior Research Foundation (formerly NARSAD) Young Award (Roee Admon) orks Mediating Acute and Sustained Positive Mood Deficits in Primary Mentor		

Direct costs: \$59,991

01/15/14 - 01/14/16	Brain & Behavior Research Foundation (formerly NARSAD) YoungInvestigator Award (Michael Treadway)Assessment of Neuroinflammation and Reward Processing Dysfunction inDepression with Simultaneous PET and fMRIRole:Primary MentorDirect 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 <i>Reward Responsiveness and Cognitive Control in Individuals with a History of</i> <i>Depression</i> 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 <i>Neural Network Dysfunction in Teen Depression: Temporal Dynamics and</i> <i>Behavioral Correlates</i> 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 MajorDepressionRole:Primary MentorDirect 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) YoungInvestigator Award (Poornima Kumar)Influence of GABA on reinforcement learning in individuals with majordepressionRole:Primary MentorDirect costs:\$69,990
01/15/16 - 01/14/18	Brain & Behavior Research Foundation (formerly NARSAD) YoungInvestigator Award (Christian Webb)Predicting Future Depressive Symptoms in Adolescents: A Multi-ModalApproachRole:Primary MentorDirect 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) <i>Neurocognitive Phenotyping of Mood Disorders</i> 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 - 02/29/20	F32MH115530 (Andrew Peckham) National Institute of Mental Health/NIH <i>A Randomized Controlled Trial of Cognitive Control Training For Urgency in</i> <i>A Naturalistic Clinical Setting</i> 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 MajorDepressive DisorderRole:Primary MentorDirect 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 SchoolBiomarkers of Response to Treatment with Frontal Cortex Stimulation forAnxious DepressionRole:Primary MentorDirect 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
07/01/17 - 06/30/21	The Adam Corneel Young Investigator Award (Emily Belleau)McLean Hospital/Harvard Medical SchoolRecovery from stress in adolescent depression: Investigating abnormal stress- related resting state connectivity changesRole:Primary MentorTotal 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 DepressionRole:Primary Mentor Direct costs:\$60,000

08/01/18 - 07/31/21	Dorris Translational Research Pilot Award, McLean Hospital (PoornimaKumar)Translational Approach to Understanding the Neurobiology of ReinforcementLearning in DepressionRole:Primary MentorDirect costs:\$10,434
11/1/18-10/31/2021	Brain & Behavior Research Foundation (formerly NARSAD) Young Investigator Award (Jennifer Fanning) <i>Neural Dynamics of Cognitive Control in PTSD</i> Role: Primary Mentor Direct costs: \$70,000
09/01/18 - 08/31/21	1K23 MH109824 (Jennifer Fanning) National Institute of Mental Health/NIH <i>Neural Mechanisms Mediating Trauma and Aggression</i> 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 <i>Impact of biogenetic feedback on default mode network and cognition control in Major Depressive Disorder</i> 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 <i>Role of Dopamine Function in Cognitive Control Performance: Behavioural & Physiological Correlates</i> Role: Primary Mentor Direct costs: \$5,217
09/01/21 - 08/31/22	 (Matthew Sacchet) 2021 Joseph and Susan Gatto Foundation Award for Excellence in Imaging, Drug Abuse, and Psychiatric Research <i>Mindfulness, Positive Emotion, and Depression: A Multimodal Mechanism-focused Clinical Trial</i> Role: Primary Mentor Direct costs: \$10,000
09/01/21 - 08/31/22	(Matthew Sacchet)2021 McLean Dorris Family Pilot Translational AwardMulti-level Mechanisms of Mindfulness-based Interventions for DepressionRole:Primary MentorDirect costs:\$5,000
09/01/21 - 08/31/22	 (Zachary Millman) 2021 Joseph and Susan Gatto Foundation Award for Excellence in Imaging, Drug Abuse, and Psychiatric Research Stress and Reward Neurobiology in Adolescents and Young Adults at Clinical High-risk for Psychosis Role: Co-Mentor Direct costs: \$10,000
Current (as primary n	nentor)
09/14/17-08/31/23 [NCE]	K23MH112873 (Elizabeth Olson) National Institute of Mental Health/NIH Social Withdrawal Following Trauma Exposure: a Neuroeconomic Approach Role: Co-Mentor Direct costs: \$777,339
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

Role:Primary MentorDirect costs:\$899,155

04/01/20 - 03/31/25	1K23 MH122668-01 (Emily Belleau) National Institute of Mental Health/NIH <i>Neural Correlates of Stress and Perceived Control in Adolescent Depression</i> Role: Primary Mentor Direct costs: \$838,500
04/01/20 - 03/31/25	 1K23 MH120351-01 (Ryan Jacoby) National Institute of Mental Health/NIH <i>Targeting Attentional and Cognitive Control to Enhance the Transdiagnostic</i> <i>Treatment of Repetitive Negative Thinking</i> 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) <i>Person-specific Functional Brain Mapping and Major Depressive Disorder</i> 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 - 06/30/23	The Adam Corneel Young Investigator Award (Adrienne Romer)McLean Hospital/Harvard Medical SchoolThe Role of Cortico-Cerebellar Circuitry Dusing cognitive Control in HealthyYoung AdultsRole:Primary MentorTotal costs:\$20,000
05/01/21 - 04/26/26	K23 MH125920 (Antonia Seligowski) National Institute of Mental Health/NIH

A Multi-modal Investigation of Neurophysiological Deficits in PTSD Role: Primary Mentor Direct costs: \$706,130

07/01/21 – 06/30/26 K01 MH122672 (Arkadiy Maksimovskiy) National Institute of Mental Health/NIH *Mirth to Improve Memory in Depression* Role: Co-mentor Direct costs: \$806,949

07/01/23 – 06/30/24 The Eric Dorris Memorial Fellowship (Manuel Kuhn) McLean Hospital *A combined investigation of the protective impact of the NOF/Q antagonist LY-*2940094 on stress-induced depression- and anxiety-related phenotypes in humans Role: Primary Mentor Direct costs: \$40,000

Consulting Activities on NIH Grants (current)

04/01/21-3/31/24	5P50MH096889-08 (PI: Tallie Baram, UC Irvine) National Institute of Mental Health/NIH Fragmented Early-Life Experiences, Aberrant Circuit Maturation, Emotional Vulnerabilities Role: Consultant
01/01/21-12/31/23	R01MH116205-03 (MPI: Madhusmita Misra, Kamryn Eddy, MGH) 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: Consultant
4/13/21-3/31/24	R33 MH116089-03 (PI: Franklin Schneier, New York State Psychiatric Institute) National Institute of Mental Health/NIH <i>Gaze-contingent Music Reward Therapy for Social Anxiety</i> Role: Consultant
03/04/21-2/28/24	4R33MH111932-03 (PI: James W. Murrough, Icahn School of Medicine at Mount Sinai) National Institute of Mental Health/NIH Developing Neuronal KCNQ Channel Modulators for Mood Disorders Role: Consultant
03/01/20-04/30/23	5R01MH110674-04 (PI: Kelly Cosgrove, Yale University) National Institute of Mental Health/NIH <i>Imaging Microglial Activation in PTSD with PET</i> Role: Consultant

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, MC. Hepp-Reymond, Ph.D., Brain
	Research Institute, University of Zurich

Harvard University

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

	Psych 3200. Research Seminar in Experimental	Harvard University
	Psychopathology/Clinical Psychology (n = 11)	1-hr sessions/wk, 24 wks
2009-	Psych 2441. Clinical Neuroscience	Harvard University
2010	Upper-level Undergraduate Seminar (n = 8)	2-hr sessions/wk, 13 wks
	Psych 2851r. Affective Neuroscience: Research Seminar	Harvard University
	Undergraduate Lab Course (Fall: $n = 6$, Spring: $n = 3$)	1-hr sessions/wk, 13 wks
	Psych 1855. Mood Disorders	Harvard University
	Upper Undergraduate Seminar (n = 17)	2-hr sessions/wk, 13 wks
2013-	Psych 18. Abnormal Psychology	Harvard University
2014	Undergraduate Lecture Course ($n = 107$)	Two 1.5-hr sessions/wk, 12 wks
2016-	Psych 18. Abnormal Psychology	Harvard University
2017	Undergraduate Lecture Course $(n = 96)$	Two 1.5-hr sessions/wk, 12 wks

Harvard University Extension School

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

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

Harvard Medical School

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

Laboratory and Other Research Supervisory and Training Responsibilities

Summary of Primary Mentoring Activities (2002 – present)

a) <u>Undergraduate students</u>:

Undergraduate Honors Theses: 12 students (Dept. Psychology, Harvard University) Undergraduate Supervised Research: 20 students (Dept. Psychology, Harvard University)

- b) Post Baccalaureate Research Assistants: 26 (Dept. Psychology, Harvard University & HMS)
- c) <u>Masters Students</u>:

Reader, Masters Thesis: 4 graduate students (Dept. Psychology, Harvard University)

- d) <u>Dissertation Committee Member</u>:
 13 Graduate Students (Dept. Psychology, Harvard University)
- e) <u>Postdoctoral Fellow & Faculty (Instructor, Assistant Professor)</u>: 32 (Harvard Medical School)

Research Assistants

Period	Name	After leaving the lab	Current position
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 Student, Vanderbilt University (Clinical Psychology)	Graduate Student
2020-2021	Genevieve Nowicki (McLean)	Graduate Student, Northeastern University (Clinical Psychology))	Graduate Student
2020-2022	Kaylee Null (McLean)	Graduate Student, UCLA (Clinical Psychology)	Graduate Student
2021-2022	Emily Johns (McLean)	Research Assistant, Stanford University	Research Assistant
2021-	Jacob Blank (McLean)	Current Research Assistant	
2021-	Shiba Esfand (McLean)	Current Research Assistant	
2021-	Jason Scott (McLean)	Current Research Assistant	

2021-	David Steinberger (McLean)	Current Research Assistant	
2022-	Aliza Brown (McLean)	Current Research Assistant	
2022-	Lauren Hutson (McLean)	Current Research Assistant	
2022-	Mohan (Iris) Li (McLean)	Current Research Assistant	
2022-	Sarah Woronko (McLean)	Current Research Assistant	

Harvard University

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

	2003/2004: Kristy Benoit, Caitlin Ferriter, Chetan Irwin, David Stahl 2005/2006: Shana Franklin, Arin Keyser, Kim Emiko Ono, Matthew Wallenstein	
2002-	Supervision for 20 students enrolled in Undergraduate Supervised Research	1 hour
2010	(910r), Department of Psychology, Harvard University (8 recipients of	per week
	Harvard College Research Program Award; 2 recipients of Mind-Brain-	
	Behavior Research Award)	

Harvard Medical School

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2011-	Poornima Kumar, Ph.D., Assistant Professor, McLean Hospital/HMS	1 hour
	Primary Mentor, NARSAD Young Investigator Award (2x); HMS	per week
	Livingston Fellowship Award; HMS Eleanor & Miles Shore; NIMH R21	
2013-	Primary Mentor, Undergraduate Honors Theses, Department of	2 hours per
	Neurobiology/Psychology/Chemistry, Harvard University	month
	Pragya Kakani (2013 – 2014)[2014 Thomas Temple Hoopes Prize for Excellence In The Work of Undergraduates; John E. Dowling Award for the Best Undergraduate Neurobiology Thesis in the Class of 2014)	
	<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]	
	<i>Riley Hoffman</i> (2021 – 2023) [Primary mentor: Dr. Matthew Sacchet]	
	PRISE = Harvard College Program for Research in Science and Engineering HCRP = Harvard College Research Program	
2016-	Emily Belleau, Ph.D., Assistant Professor, McLean Hospital/HMS	2 hours per
	Primary Mentor, NIMH K23, Klingenstein Third Generation Fellowship	week
	Award in Depression; The Adam Corneel Young Investigator Award;	
	Kaplen Fellowship on Depression, HMS; Livingston Fellowship Award,	
	HMS	
2018-	Jennifer Fanning, Ph.D. Assistant Professor, McLean Hospital/HMS	1 hour per week
	Primary Mentor, NARSAD Young Investigator Award; Co-mentor, NIMH K23	
2019-	Adrienne Romer, Ph.D., Post-doctoral Fellow, McLean Hospital	1 hour per week
	Primary Mentor, NIMH Post-doctoral NRSA, The Adam Corneel Young Investigator Award, McLean Hospital	
2020-	Rotem Dan, Ph.D., Post-doctoral Research Fellow, McLean Hospital	1 hour per week
2020-	Manuel Kuhn, Ph.D., Post-doctoral Research Fellow, McLean Hospital	1 hour per week
2022-	Mario Bogdanov, Ph.D., Post-doctoral Research Fellow, McLean Hospital	1 hour per week
2022-	Lauren Borchers, Ph.D., Post-doctoral Research Fellow, McLean Hospital	1 hour per week
2022-	Mohammad (Mo) Sendi, Ph.D., Post-doctoral Research Fellow, McLean	1 hour per week
	Hospital	
2022-	Michelle Thai, Ph.D., Post-doctoral Clinical & Research Fellow, McLean	1 hour per week
	Hospital	
2022-	Peter Zhukovsky, Ph.D., Post-doctoral Research 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)

Year	Name and degrees / Current position / Specific Accomplishments of Trainee
A. Post-docte	oral Fellow/Faculty/Psychiatry Residents, McLean Hospital/Harvard Medical School
2006-2014	 Daniel G. Dillon, Ph.D. (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	 Pia Pechtel, Ph.D. (Instructor of Psychiatry, HMS) Wellcome Trust Research Fellow, University of Exeter, Exeter, UK 12 peer-reviewed manuscripts, 22 abstract/conference presentations Awards: Postdoctoral Fellowship, German Research Foundation; NARSAD Young Investigator Award; The O'Keefe Family Junior Investigator Award For Excellence In Imaging Research
2010-2017	 Randy Auerbach, Ph.D. (Assistant Professor, HMS) 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	Michael Treadway, Ph.D. (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	Roee Admon, Ph.D. (Instructor of Psychiatry, HMS) Senior Lecturer, Department of Psychology, Haifa University 9 peer-reviewed manuscripts, 15 abstract/conference presentations Awards: NARSAD Young Investigator Award; Adam Corneel Young Investigator Award, McLean Hospital
2013-2016	Roselinde Kaiser, Ph.D. (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	Alexis Whitton, Ph.D. (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	Bradford Reich, M.D. (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	Christian Webb, Ph.D., (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

Formally Supervised Trainees

	Awards: NIMH Post-doctoral NRSA; NIMH K23; Klingenstein Third Generation I Depression; The Adam Corneel Young Investigator Award, McLean Hospital; NAI Investigator Award (2x); Alfred Pope Award Recipient, McLean Hospital; Partners Discovery Grant	RSAD Young
2014-2016	Callie McGrath, Ph.D. (Post-doctoral Fellow, HMS)	
	Private sector (Deloitte Consulting)	
	8 abstract/conference presentations	
	Awards: Kaplen Fellowship on Depression; HMS Livingston Fellowship Award	
2015-2016	Jennifer Gatchel, M.D., Ph.D. (Instructor of Psychiatry, HMS)	
	Awards: Andrew P. Merrill Memorial Research Fellowship (with Dr. Brent Foreste	
2015-2017	David Sturman, M.D., Ph.D. (Psychiatry Resident, MGH/McLean Hos	pital)
	1 abstract/conference presentation	
2016-2018	Stefanie Nickels, Ph.D., (Post-doctoral Fellow, McLean Hospital/HMS)
	3 peer-reviewed publications, 9 abstract/conference presentation	
2016-2021	Maria Ironside, DPhil, 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
2019 2021	Recipient, McLean Hospital	
2018-2021	Hans Schroder, Ph.D., Post-doctoral Fellow, McLean Hospital	
	Clinical Lecturer and Postdoctoral Fellow, Department of Psychiatry; I	
	Fellow, Center for Bioethics and Social Sciences in Medicine, Univers	ity of Michigan
	2 peer-reviewed publications, 12 abstract/conference presentations Awards: Andrew P. Merrill Memorial Research Fellow Award, McLean Hospital	
2018-2021	Yuen Ang, DPhil, Post-doctoral Fellow, McLean Hospital	
2018-2021		**
	Scientist I, Institute of High Performance Computing, A*Star, Singapo 9 peer-reviewed publications, 5 abstract/conference presentations	re
	Awards: Dorris Translational Research Pilot Award, McLean Hospital; Kaplen Fell	lowship on
	Depression, Harvard Medical School; Livingston Fellowship Award, Harvard Med	
	Behavior Research Foundation Young Investigator Award	,
2019-2022	Matthew Sacchet, Ph.D., Assistant Professor, McLean Hospital/HMS	1 hour per week
	Assistant Professor, Massachusetts General Hospital/HMS	-
	2 peer-reviewed publications, 4 abstract/conference presentations	
	Awards: The Phyllis and Jerome Lyle Rappaport Mental Health Research	
	Fellowship (2x), NARSAD Young Investigator Award, NIMH R01	
2019-2022	Steven Lamontagne, M.A., Visiting Graduate Student, Queens	1 hour per week
	University	
	Postdoctoral Fellow, NIMH Intramural Program	
	2 peer-reviewed publications, 7 abstract/conference presentations	
	Awards: Primary Mentor, Rossano Mind, Brain & Behavior Pre-Doctoral	
2010 2022	Summer Fellowship, McLean Hospital	1 h
2019-2022	Samantha Linton, DPhil, Post-doctoral Fellow, McLean Hospital	1 hour per week
	Senior Research Associate, Adelphi Values	
	2 peer-reviewed publications, 3 abstract/conference presentations	
B. Post-doctoral Fellow, Primary Advisor, Department of Psychology, Harvard University		
2006-2008	Diane L. Santesso, Ph.D.	
	Research Assistant Professor, University of Waterloo, Waterloo, Ontar	io
	8 peer-reviewed manuscripts, 6 abstract/conference presentations	

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	Awards: Postdoctoral Fellowship Award, Natural Sciences and Engineering Research Council of Canada
2009	Marie-Anne Vanderhasselt, Ph.D.
	Professor (tenured), Department of Experimental Clinical and Health Psychology,
	Ghent University
	1 peer-reviewed manuscript
	Awards: National Science Foundation, Flanders/Belgium
C. Graduate S	Student, Primary Advisor, Department of Psychology, Harvard University
2003-2009	Avram J. Holmes, Ph.D.
	Assistant Professor, Department of Psychology, Yale University
	16 peer-reviewed manuscripts, 1 book chapter, 22 abstract/conference presentations
2002 2010	Awards: Pre-doctoral NRSA recipient
2003-2010	Ryan Bogdan, Ph.D.
	Associate Professor, Department of Psychology, Washington University in St. Louis
	15 peer-reviewed manuscripts, 1 book chapter, 23 abstract/conference presentations Association for Psychological Science, Rising Stars in Psychological Science Award
2004-2006	Pearl H. Chiu, Ph.D. (with Dr. Patricia Deldin)
2001 2000	Associate Professor, Virginia Tech Carilion School of Medicine and Research Institute
	1 peer-reviewed manuscript, 1 abstract/conference presentation
2004-2008	Christen M. Deveney, Ph.D. (with Dr. Patricia Deldin)
	Associate Professor, Department of Psychology, Wellesley College
	5 peer-reviewed manuscripts, 6 abstract/conference presentations
	Awards: Pre-doctoral NRSA recipient
2006-2012	Lisa H. Berghorst, Ph.D.
	Psychology Associate, Alvord, Baker, & Associates, LLC, Rockville, MD
	3 peer-reviewed manuscripts, 1 chapter, 12 abstract/conference presentation
2008-2011	Alexander J. Millner, Ph.D.
	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
2010	McLean Research Committee, McLean Hospital, January 13, 2011
2011	Psychiatric Genetics and Translational Research Seminar, Center for Human Genetic
_011	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.
2013	McLean Research Committee, McLean Hospital, October 2, 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")

2016	McLean Research Committee, McLean Hospital, May 4, 2016
2016	McLean Hospital National Council (Topic: "New Frontiers in Depression Research:
2018	McLean Research Committee, McLean Hospital, September 5, 2018
2021	Clues from McLean's Brain Imaging Center"), Belmont, MA, USA, October 19, 2016.
	McLean Hospital, Symposium on Racism and Mental Health, Belmont, MA, USA,
	March 23, 2021.
2021	McLean Research Committee, McLean Hospital, April 7, 2021
2022	McLean Research Committee, McLean Hospital, February 2, 2022
2022	Invited Speaker, MGB Research Management Lunch and Learn, Mass General
	Brigham, March 16, 2022.

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

No presentations below were sponsored by outside entities, with the exception of those highlighted with an asterisk (*)

	with the exception of those highlighted with an asterisk (*)
<u>Regional</u>	
2003	Invited speaker, "The Functional Neuroanatomy of Depression: Integrating
	Neuroimaging and Electrophysiological Approaches", Clinical Colloquium Series,
	Boston University, November, 2003, Boston, MA
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
2005	Invited speaker, Affective Science Speaker Series, Affective Science Initiative, Boston
	College, November 21, 2005, Boston, MA
2005	Department Colloquium, Brown University, "Toward Objective Characterizations of
	Depressive Phenotypes: Clues From Affective Neuroscience", November 30, 2005,
	Providence, RI
2009	Invited speaker, Clinical Psychology Talk Series, Department of Psychology, Yale
	University, April 30, 2009, New Haven, CT
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
2012	Grand Rounds, National Center for PTSD speaker series, March 16, 2012, Boston, MA
	Pfizer Neuroscience Seminar Series, Cambridge, MA, USA, November 12, 2014
2014	Alkermes Neuroscience Talks, Waltham, MA, USA, March 23, 2015.
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.
2015	Grand Rounds, Department of Psychiatry, University of Massachusetts Medical School,
	April 21, 2016.
2016	McLean Neuroscience Seminar, McLean Hospital, May 12, 2020
	Invited Speaker, Neuropsychiatry and Translational Research Fellowship (NeTReF),
2020	Boston VA January 25, 2022

2020 Boston VA, January 25, 2022.

- 2022 Psychology Department Colloquium, Brandeis University, March 10, 2022
- 2022 Distinguished Colloquium Speaker, Clinical Psychology, Department of Psychology, Boston University, April 13, 2022.
- 2023 Beth Israel Deaconess Medical Center Harvard Psychiatry Grand Round, Boston, February 16, 2023

<u>National</u>

- 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
2015	Anxiety, Stony Brook University, Stony Brook, NY, September 9, 2015.
	Discussant, Symposium, "Integration of Reward and Social/Circadian Rhythm Model
	Perspectives in Understanding Mood Disorders", Society for Research in
2015	Psychopathology, New Orleans, LA, October 15-18, 2015.
	Chair, Symposium "Using Neural Connectivity Biomarkers in Major Depressive
	Disorder (MDD) to Identify Subtypes and Predict Treatment Response" (Co-Chairs:
	Diego A. Pizzagalli & Scott Langenecker), American College of
	Neuropsychopharmacology, 54rd Annual Meeting, Hollywood, FL, USA, December 6-
2015	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,
0016	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,
2016	Maryland, June 2-3, 2016.
	Chair, Symposium The Network Neuroscience of Mood and Anxiety Disorders, 30th
	Annual Meeting of the Society for Research in Psychopathology, Baltimore, MD, USA,
2016	September 29-October 2, 2016.
2010	Discussant, Symposium Multimodal Predictors of Anhedonia Across the Lifespan
	(Chair: Randy Auerbach), 30 th Annual Meeting of the Society for Research in
2016	Psychopathology, Baltimore, MD, USA, September 29-October 2, 2016.
2016	
	Speaker, Rochester Conte Center Symposium, "Persistent, Maladaptive Behaviors: Why
2016	We Make Bad Choices", University of Rochester, October 11-13, 2016.
	Invited Speaker, RDoC Investigators Meeting, NIH Neuroscience Center, Bethesda,
2017	Maryland, October 17-18, 2016.
	Distinguished Scientist Lecture, University of Pittsburgh Department of Psychiatry,
2017	Pittsburgh, PA, February 17, 2017.
	Grand rounds, Department of Psychiatry, University of California San Diego, San
2017	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
2019	College Columbia University, January 24, 2019.
0010	
2019	Invited Participant, Computational Psychiatry, Banbury Center, Cold Spring Harbor
	Laboratory, February 3-6, 2019.
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.
2021	Keynote Speaker, Third Congress on Pediatric Irritability and Dysregulation, Burlington, VT, September 26-27, 2019.
2021	Grand Rounds, Department of Psychiatry, Mt. Sinai, September 7, 2021.
2021	Grand Rounds, Department of Psychiatry, UCLA, October 19, 2021.
2022	Cognitive Neuroscience Seminar, Department of Psychology, University of Texas – Austin, October 22, 2021.
2022	Keynote Speaker, Conte Center@UCI 9th Annual Symposium, Origins of Mental Health and Disease: Research and Reality. University of California Irvine, Irvine CA, March 23, 2022.
2023	Invited Speaker, 5 th Neuropsychiatric & Psychedelics Drug Development Summit, Boston, MA, October 31, 2022.
	Invited Discussant, <i>Forum on Neuroscience and Nervous System Disorders</i> (Multimodal Biomarkers for Central Nervous System Disorders: Development, Integration, and Clinical Utility), National Academies of Sciences, Engineering, and Medicine, Washington, DC, March 13-14, 2023

International

- Chair, Symposium "Affective and Social Aspects of Face Processing: Integrating Electrophysiological and Brain Imaging Studies", 40th Annual Meeting of the Society for Psychophysiological Research Conference, October 18-22, 2000, San Diego, USA
 Invited Chain Summarian "Aspect of Face Processing", 10th World Congress of 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", 20 th 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, <i>Attentional Control and Executive Processes in Depression and Rumination</i> (Chairs: Nilly Mor, Eva Gilboa-Schechtman), Association for Behavioral and Cognitive Therapies, 42 nd 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, <i>Neurobiological Perspectives on the Interplay Between Emotional and Attentional Processing in Depression</i> (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: <i>Genetics, Brain, and Behavior</i>), 51st Annual Meeting of the Society for Psychophysiological Research, September 14-18, 2011, Boston, MA
2011	Invited Speaker, Symposium <i>Neurocognitive Dysfunction in Anxiety and Depression</i> (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,
2012	Italy, February 14-17, 2012
	Wellcome Trust Centre for Neuroimaging, University College of London, London UK,
2012	March 30, 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
2012	Response: A putative Target for Deep Brain Stimulation in Depression?"
	Keynote Speaker, International Pharmaco-EEG Society (IPEG), New York, NY,
2013	October 18-21, 2012
	Keynote Speaker, Servier Valdoxan International Expert Board, "Neuroimaging in
	Depression: Contributions to Understanding Neural Pathways and Treatment
2013	Mechanisms", Paris, January 22, 2013.
0010	Invited Speaker, Distinguished Lecture Series, Department of Psychology, Queen's
2013	University, Kingston, ON, Canada, March 22, 2013.
	Symposium Co-Chair, Toward Personalizing Treatment for Depression: New Imaging
2012	and Physiological Findings, 68th Annual Meeting of the Society of Biological
2013	Psychiatry, San Francisco, CA, May 16-18, 2013.
	Symposium Co-Chair, Computational Psychiatry: Emerging Use of Computational Models of Psychiatry and Disordary (8 th Appual Macting of the
2013	<i>Models of Reinforcement Learning in Mood Disorders</i> , 68 th 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
2014	Psychopathology, Oakland, CA, USA, September 19-22, 2013.
2011	Keynote Speaker, <i>Neuroscience and Mood</i> Conference, Canadian Network for Mood
2015	and Anxiety Treatments (CANMAT), Toronto, Canada, January 24-25, 2014.
	Keynote Speaker, 22nd International Symposium on Current issues and Controversies in
2015	Psychiatry, Barcelona, Spain, March 6-7, 2015.
2017	Invited Speaker, Swiss Memory Workshop, Spiez, Switzerland, August 24-26, 2015.
	Invited Speaker, European College of Neuropsychopharmacology, Experimental
	Medicine Network, Validation of Reward Processing tasks, Leiden University, The
2017	Netherlands, March 15, 2017.
	Keynote Speaker, The Cameron Holcombe Wilson Chair RDoC Symposium, University
2018	of Toronto, Toronto, Canada, March 22, 2017.
	Invited Speaker, Department of Psychiatry, University of Zurich, Switzerland, July 6,
2019	2018.
• • • • •	Invited Speaker, <i>Experimental Medicine in Depression</i> , University of Oxford, Oxford,
2019	UK, June 24-25, 2019.
2010	Invited Speaker, Department of Psychiatry and Psychotherapy, Medical University of
2019	Vienna, Austria, June 28, 2019.
2021	Keynote Speaker, Depression and Anxiety Forum, Second Xiangya Hospital
2021	Changsha, China, September 18, 2019.
	(*) Invited Speaker, Symposium Welcome to Mental Health 2.0: Precision Psychiatry –
	Driving the Future of Mental Health Solutions. European College of

2021	Neuropsychopharmacology, Lisbon, Portugal, October 4, 2021 [Virtual symposium
	sponsored by Boehringer Ingelheim]
	Keynote Lecture (Neurophysiological and Imaging Approaches to Predict Treatment
2022	Response in Depression), 2021 Annual Meeting of the International Pharmaco-EEG
	Society, October 28, 2021.
	(*) Invited Speaker, Symposium Anhedonia in depression: Research challenges in
	bipolar disorder and related conditions, International Society for Bipolar Disorders,
2022	June 11, 2022 [Virtual symposium sponsored by Sunovion Pharmaceuticals Inc. and
	Sumitomo Pharmaceuticals Co., Ltd.]
	Invited Speaker, Symposium The Future of Diagnostics and Classification of Mental
2022	Disorders: An International Panel Discussion (Chair: Winfried Rief), 1st German
2022	Psychotherapy Congress, Berlin, Germany, June 7-11, 2022.
	Invited Speaker, Transcontinental Computational Psychiatry Workgroup, July 27, 2022
2022	Plenary Talk, 4th International Touchscreen Symposium: Virtual Edition 2022,
	September 22-23, 2022.
2022	Invited Speaker, Symposium Neurobiology of Personality Disorder Traits, European
	Society for the Study of Personality Disorders, October 10-12, 2022.
	(*) Invited Speaker, Symposium Dysregulated Circuits, Dysregulated Emotions:
	Understanding and Addressing Unmet Needs for Patients and Physicians, European
	College of Neuropharmacology, Vienna, Austria, October 15-18, 2022. Symposium
	sponsored by Boehringer Ingelheim]

Report of Technological and Other Scientific Innovations

- "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 $\underline{140}$ (>90 national and >40 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); <u>http://www.wipo.int</u>

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 2012 exhibit on human biology and health, with a focus on clinical depression) Winchester High School, Winchester, MA, USA Outreach activity on the topic "*The Neuroscience of Depression*"

Report of Scholarship

ORCID ID:	0000-0002-7772-1143
H-index:	70 (Clarivate's Web of Science), 92 (Google Scholar)
Citation sum:	17,978 (without self-citations; Clarivate's Web of Science; accessed: 6/4/2023), 34,129 (overall citations, Google Scholar)
[Highly Cited]	Highly Cited Papers (citations in the top 1% of academic fields (source: Web of Science, accessed: 10/1/2022)

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., Lehmansignan, D. (1999). Rapid emotional face processing in the human right and left brain hemispheres. *NeuroReport*, **10**, 2691-2698.
- 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.
- 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.
- Lavric, A., Pizzagalli, D., Forstmeier, S., Rippon, G. (2001). A double-dissociation of English pasttense production revealed by event-related potentials and low resolution electromagnetic tomography (LORETA). *Clinical Neurophysiology*, **112**, 1833-1849.
- 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.

- 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.
- 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.
- 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.
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- 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.

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- 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.
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- 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.
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- 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.
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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.
- 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.
- 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.
- 19. Whitton, A.E., Treadway, M.T., Ironside, M.L., **Pizzagalli, D.A.** (2019). Neurobiological rewardrelated 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.
- 20. Romer, A.L.*, Bertocci, M. A.*, Phillips, M.L.**, Pizzagalli, D.A.** (in press). Neuroimaging and circuit mechanisms of depression. In D.S. Charney, E.J. Nestler, P. Sklar, & J.D., Buxbaum (Eds.), *Charney & Nestler's Neurobiology of Mental Illness*. Oxford University Press. *Shared first author; **shared last author.

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 <u>three</u> years

- 1. 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.]
- 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.]
- Israel, E., Belleau, E.L. Pizzagalli, D.A., Webb, C.A. (2019, January). The Relation between mindwandering, brain functional connectivity, and negative affect in adolescents: An ecological momentary assessment study. [Poster presented at the McLean Hospital Research Day, Belmont, MA, January 30, 2019.]

- 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.]
- 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
- 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
- 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 touchscreenbased Flanker Task in rats for translational studies of cognitive control. [Poster presented at McLean Research Day, Belmont, MA, January 30, 2019.]
- 8. 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.]
- 9. 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.]
- 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.]
- 11. 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.]
- 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.]
- 13. 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.]
- 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]
- 15. 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.]

- 16. 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.]
- 17. 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
- 18. 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.]
- 19. 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.]
- 20. Sperl, M.F.J., Panitz, C., Skoluda, N., Nater, U.M., Pizzagalli, D.A., Hermann, C., & Mueller, E.M. (2019, May). Pharmacological augmentation of exposure therapy: Can long-term fear conditioning and extinction be modulated by the α2-adrenoreceptor antagonist yohimbine or by the D2 receptor antagonist sulpiride? [Talk during the Young Scientists Symposium at the Clinical Psychology Meeting of the German Psychological Society (DGPs), Erlangen, Germany, May 29-June 01, 2019.]
- 21. 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.]
- 22. 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.]
- 23. 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.]
- 24. 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.]
- 25. 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.]

- 26. 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.]
- 27. 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.]
- 28. Neelamegam, R., Yokell, D., Rice, P., **Pizzagalli, D.A.**, El Fakhri, G. (2019, May). Optimization, automation and validation of NOP receptor PET radiopharmaceutical, [11C]NOP-1A for human use. Journal of Nuclear Medicine, **60** (supplement 1), 637.
- 29. 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.]
- 30. Israel, E., Belleau, E.L., Forbes, E.E., **Pizzagalli, D.A.**, Webb, C.A. (2019, November). Mindwandering in adolescents predicts heightened negative affect and aberrant functional connectivity: An ecological momentary assessment study. [Poster presented at the Annual Convention of the Association for Behavioral and Cognitive Therapies, Atlanta, GA., November 21-24, 2019.]
- 31. 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].
- 32. 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.]
- 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.]
- 34. 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]
- 35. 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]
- 36. 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.]

- 37. 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.]
- 38. 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]
- 39. 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.]
- 40. 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.]
- 41. 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.]
- 42. 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.]
- 43. 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.]
- 44. 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.]
- 45. 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.]
- 46. 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).
- 47. 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.

- 48. 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).
- 49. 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.
- 50. 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.
- 51. 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.
- 52. Murrough, 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
- 53. 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 frontoinsular 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).
- 54. 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)
- 55. 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.
- 56. 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.

- 57. 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.
- 58. 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.]
- 59. 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]
- 60. 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.]
- 61. 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.]
- 62. 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.]
- 63. Nicastri, 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.]
- 64. 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.]
- 65. 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.
- 66. 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.
- 67. 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.

- 68. 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.
- 69. 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.
- 70. 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.
- 71. 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.
- 72. 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.
- 73. 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.]
- 74. 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.]
- 75. 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.]

- 76. 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.
- 77. 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.]
- 78. 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.]
- 79. 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.]
- 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.]
- 81. 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 realworld rumination in adolescents. [E-Poster presented at McLean Research Day, Belmont, MA, January 27, 2021.]
- 82. 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.]
- 83. 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.]
- 84. 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.]
- 85. 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.]
- 86. 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.]
- 87. 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.]
- 88. 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.]
- 89. 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.]

- 90. 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.]
- 91. 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.]
- 92. 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.]
- 93. 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.]
- 94. Schroder, H.S., Lamontagne, S., Madarasmi, 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.]
- 95. 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.]
- 96. 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.]
- 97. 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.]
- 98. 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.]
- 99. 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.]
- 100. Balkind, E.G., Murray, L., Israel, E., Pastro, B., Appleman, L., Lovell-Smith, N., Lukas, S.E., Forbes, E.E., Pizzagalli, D.A., Webb, C.A. (2021, September). Lower positive affect and higher negative affect in adolescent anhedonia is linked to attenuated nucleus accumbens response to reward outcome: A multimodal assessment. [E-poster presented at Annual Conference of the Society for Research in Psychopathology, September 23-26, 2021.]

- 101. Dillon, D., Lazarov, A., **Pizzagalli, D.A.**, Schneier, F. (2021, September). Improved accuracy, higher reward totals, and faster evidence accumulation after gaze-contingent music reward therapy in adults with social anxiety disorder. [Oral presentation at Annual Conference of the Society for Research in Psychopathology, September 23-26, 2021.]
- 102. Dong, D., Ironside, M., Belleau, E., Yao, S., **Pizzagalli, D.A.** (2021, September). Sex-specific neural responses to acute psychosocial stress in depression. [E-poster presented at Annual Conference of the Society for Research in Psychopathology, September 23-26, 2021.]
- 103. Long, Y., Belleau, E., Dillon, D., Petibon, Y., Normandin, M., Alpert, N., El Fakhri, G., Hooker, J., Chao, M., Jahan, A., Meyer, A., Brunner, D., Crowley, D., Cusin, C.*, Fava, M.*, Pizzagalli, D.A.* (2021, September). Sex differences in reward processing amongst individuals with major depressive disorder: a multimodal investigation. [E-poster presented at Annual Conference of the Society for Research in Psychopathology, September 23-26, 2021.] [equal senior contribution]
- 104. Min, S., Milev, R., **Pizzagalli, D.A.**, Kennedy, S., Harkness, K. (2021, September). The relation of stressful life events to reward learning in depression. [E-poster presented at Annual Conference of the Society for Research in Psychopathology, September 23-26, 2021.]
- 105. Null, K., Ironside, M., Brunner, D., Kang, M-S., Nagaswami, M., Pizzagalli, D.A. (2021, September). The impact of emotional abuse on stress reactivity in current and remitted depression. [E-poster presented at Annual Conference of the Society for Research in Psychopathology, September 23-26, 2021.] [E-poster presented at Annual Conference of the Society for Research in Psychopathology, September 23-26, 2021.]
- 106. Ahn, H., Hall, J., Goldstein, J.M., Dillon, D.G., Pizzagalli, D.A., Holsen, L.M. (2021, November). Homeostatic and mesolimbic network functional connectivity during food reward processing in response to psychosocial stress. [E-poster presented at the Discover Brigham 2021 Meeting, November 3, 2021.]
- 107. Phillips, R.D., Walsh, E.C., Lalush, D., Kinard, J.L., Cernasov, P.M., Kelley, L., Campbell, D.B., Dillon, D.G., **Pizzagalli, D.A.**, Izquierdo-Garcia, D., Zürcher, N.R., Tseng, C., Hooker, J.M., Smoski, M.J., Dichter, G.S. (2021, December). Reduced striatal dopamine binding to rewards is associated with anhedonia severity and recent stress. [E-poster presented at the 60th Annual Meeting of the American College of Neuropsychopharmacology (ACNP), San Juan, Puerto Rico, December 5-8, 2021.]
- 108. Blank, J., Kuhn, M., Long, Y., Nowicki, G., Steinberger, D., Pizzagalli, D.A. (2022, January). Reward motivation in remitted depression. [E-poster presented at Annual McLean Research Day, January 26, 2022.]
- 109. Brown, H.A., Tierney, A.O., Balkind, E.G., Ahilan, A.S., Pastro, B.M., Israel, E.S., Forbes, E.E., Pizzagalli, D.A., Webb, C.A. (2022, January). Predictors of adolescent attrition from longitudinal psychopathology research. [E-poster presented at Annual McLean Research Day, January 26, 2022.]
- 110. Dillon, D.G., Lazarov, A., Dolan, S., Bar-Haim, Y., Pizzagalli, D.A., Schneier, F.R. (2022, January). Fast evidence accumulation in social anxiety disorder enhances decision-making in a Probabilistic Reward Task. [E-poster presented at Annual McLean Research Day, January 26, 2022.]
- 111. Eckman, M., Margiotta, K.N., Stukin, J., Ryhanych, A.N., Breiger, M., Pizzagalli, D.A., Sacchet, M.D. (2022, January). Mechanisms of mindfulness meditation for major depressive disorder. [E-poster presented at Annual McLean Research Day, January 26, 2022.]
- 112. Esfand, S.M., Scott, J.N., Jr., Linton, S.R., Lobien, R., Lamontagne, S.J., Li, S., Boyle, B., Bolton, P.S., Miller, C., Meisner, R., **Pizzagalli, D.A.** (2022, January). Effects of ketamine on

self-reported mood and neural activation patterns in adults with treatment resistant depression. [E-poster presented at Annual McLean Research Day, January 26, 2022.]

- 113. Johns, E., Belleau, E.L., Bolton, T.A.W., Kaiser, R., Clegg, R., Cardenas, E., Goer, F., Pechtel, P. Beltzer, M., Vitaliano, G., Olson, D.P., Teicher, M.H., Pizzagalli, D.A. (2022, January). Resting state brain dynamics in childhood sexual abuse and major depressive disorder. [E-poster presented at Annual McLean Research Day, January 26, 2022.]
- 114. Null, K.E., Duda, J.M., **Pizzagalli, D.A.** (2022, January). Social support mediates the effect of unpredictable childhood experiences on anhedonia. [E-poster presented at Annual McLean Research Day, January 26, 2022.]
- 115. Ramrajvel, S., Pizzagalli, D.A., Kumar, P. (2022, January). Modeling reinforcement learning in individuals with varying levels of depressive symptomology. [E-poster presented at Annual McLean Research Day, January 26, 2022.]
- 116. Ren, B., Balkind, E.G., Pastro, B., Israel, E., Pizzagalli, D.A., Eichi, H.R., Baker, J.T., Webb, C.A. (2022, January). Predicting states of elevated negative affect in adolescents from smartphone-based passive sensors: A personalized machine learning approach. [E-poster presented at Annual McLean Research Day, January 26, 2022.]
- 117. Scott, J.N., Jr., Esfand, S.M., Linton1, S.R., Lobien, R., Lamontagne, S.J., Li, S., Boyle, B., Miller, C., Meisner, R., Pizzagalli, D.A. (2022, January). How mood influences performance: Error-related negativity and anhedonia in individuals with major depressive disorder. [E-poster presented at Annual McLean Research Day, January 26, 2022.]
- 118. Tierney, A., Brown, H.A., Balkind, E.G., Murray, L., Ahilan, A.S., Pastro, B.M., Israel, E.S., Forbes, E.E., **Pizzagalli, D.A.**, Webb. C.A. (2022, January). Reward-related neural and behavioral predictors of outcome to behavioral activation therapy for adolescents with anhedonia. [E-poster presented at Annual McLean Research Day, January 26, 2022.]
- 119. Hall, J., Ahn, H., Goldstein, J.M., Dillon, D.G., **Pizzagalli, D.A.**, Holsen, L.M. (2022, January). Stress-induced alterations in neural responsivity to monetary reward cues in unmedicated individuals with variable appetite/weight phenotypes of Major Depressive Disorder. [E-poster presented at Annual Harvard Psychiatry Research Day, March 9, 2022.]
- 120. Duda, J.M., Moser, A.D., Null1, K., Ironside, M., Perlo, S., Richards, C.E., Nascimento, N., Holsen, L.M., Misra, M., Goldstein, J.M.*, **Pizzagalli, D.A.*** (2022, March). Psychosocial stress blunts reward learning: State and trait findings in major depression. [Poster presented at the Annual Meeting of the Anxiety and Depression Association of America (ADAA), Denver, CO, March 17-20, 2022] [*Equal Senior Contributions].
- 121. Romer, A.L., Pizzagalli, D.A. (2022, April). Brain structural alterations as predictors of the trajectory of transdiagnostic psychopathology dimensions in the Adolescent Brain Cognitive Development Study[®]. [Poster presented at the Annual Meeting of the Society of Biological Psychiatry, April 28-30, 2022, New Orleans, LA.]
- 122. Dan, R., Whitton, A.E., Rutherford, A.V., Kumar, P., Ironside, M.L., **Pizzagalli, D.A.** (2022, April). Brain-based graph-theoretical predictive modeling to predict transdiagnostic symptoms of anhedonia, mania, and impulsivity at the individual level. [Poster presented at the Annual Meeting of the Society of Biological Psychiatry, April 28-30, 2022, New Orleans, LA.]
- 123. Jahan, A.B.*, Ang, Y.S.*, Dillon, D.G., Belleau, E., Normandin, M.D., Petibon, Y., El Fakhri, G., Origlio, J.M., Meyer, A.K., Cusin, C.**, **Pizzagalli, D.A**.**, Fava M.** (2022, April). Option generation in major depressive disorder and suicide risk [Poster presented at the Annual Meeting of the Society of Biological Psychiatry, April 28-30, 2022, New Orleans, LA.] (*Equal contributions; **Equal senior contributions).

- 124. Blank, J.M., Steinberger, D.C., Long, Y., Nowicki, G.P., Kuhn, M., Treadway, M.T., Pizzagalli, D.A. (2022, September). Reward motivation in adults with remitted depression. [Poster presented at the Annual Meeting of the Society for Research in Psychopathology, September 8-11, Philadelphia, PE; *Equal contributions].
- 125. Steinberger, D.C.*, Blank, J.M.*, Kuhn, M., Ironside, M.A., Kang, M.S., Brunner, D.L., Null, K.E., Pizzagalli, D.A. (2022, September). Mental health links to group-based trajectories of stress experience and physiology in current and remitted depression. [Poster presented at the Annual Meeting of the Society for Research in Psychopathology, September 8-11, Philadelphia, PE; *Equal contributions].
- 126. Steinberger, D.C.*, Blank, J.M.*, Kuhn, M., Ironside, M.A., Kang, M.S., Brunner, D.L., Null, K.E., Pizzagalli, D.A. (2022, September). Mental health links to group-based trajectories of stress experience and physiology in current and remitted depression. [Poster presented at the Annual Meeting of the Society for Research in Psychopathology, September 20-21, Ann Arbor, MI; *Equal contributions].
- 127. Santos, K., Blank, J., Kuhn, M., Pizzagalli, D.A. (2022, November). Early life stress and neurobiological alterations in adults with remitted depression. [Poster presented at the Annual Biomedical Research Conference for Minoritized Scientists (ABRCMS), November 9-12, 2022, Anaheim, CA.
- 128. Iturra-Mena, A., Kangas, B.D., Luc, A., Potter, D.D., Pizzagalli, D.A. (2022, November). Electrophysiological signatures of reward learning and its modulation by the nociceptin receptor antagonist J-113397. [Poster presented at the Annual Meeting of the Society for Neuroscience, November 12-16, San Diego, CA]
- 129. Kuhn, M., Blank, J., Steinberger, D., Long, Y., Nowicki, G., Yu, Z., Thaikkandi, T., Pedersen, M.L., Herrington, T., Frank, M., Pizzagalli, D.A. (2022, December). Neural correlates and latent decision-making processes in approach-avoidance behavior and conflict in remitted depression. [Poster presented at the 59th Annual Meeting of the American College of Neuropsychopharmacology (ACNP), December 4-7, 2022, Phoenix, AZ.]
- 130. Zhukovsky, P., Ironside, M., Null, K.E., Moser, A.D., Duda, J.M., Esfand, S.M., Pizzagalli, D.A. (2023, April). Acute stress increases striatal connectivity with cortical regions that preferentially express μ and κ opioid receptor genes. [Poster presented at the Annual Meeting of the Society of Biological Psychiatry, April 27-29, 2023, San Diego, CA.]
- 131. Sperl, M.F.J., Panitz, C., Skoluda, N., Nater, U.M., Pizzagalli, D.A., Hermann, C., & Mueller, E.M. (2023). Hyperarousal und traumatische Erfahrungen: Noradrenalin fördert die Konsolidierung konditionierter Furcht. [Hyperarousal and traumatic experiences: Noradrenaline facilitates consolidation of conditioned fear.]. [Talk at the Annual Meeting of the German Speaking Society for Psychotraumatology, February 16-18, Zurich, Switzerland.

Additional Conference Presentations Prior to the Last Three Years (1996 – 2018):	280
Total abstracts/conference presentations (1996 – present):	448

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 (\$46,484,254 in direct costs as PI), I have had the privilege of mentoring and teaching students and investigators at various levels. Since 2002, I have directly mentored 32 undergraduate students, 26 post Baccalaureate Research Assistants, 6 graduate students, and 32 post-doctoral fellows and junior faculty. I have served as the primary mentor on 63 fellowships/training grants (59 at McLean Hospital since 2010), including: 10 K awards, 14 NARSAD Young Investigator Awards, 7 NRSA, 7 training grants from additional foundations (e.g. Klingenstein), and 25 HMS/McLean fellowships. Collectively, my mentees have been awarded \$10,271,490 in direct costs (\$10,061,302 at McLean Hospital since 2010). For my mentoring activities, I have been nominated four times for the Everett S. Mendelsohn Excellence in Mentoring Award at Harvard University (2004, 2006-2008), and was awarded the Anne M. Cataldo Excellence in Mentoring Award from McLean Hospital (2015) and The Stuart T. Hauser, M.D. Ph.D. Mentorship Award in Psychiatry from Harvard Medical School (2017). Many of my mentees are tenured or tenure-track faculty at leading universities (e.g., Columbia University, Emory University, Harvard Medical School, Washington University in St. Louis, Yale University). Finally, 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.