

UNIVERSITY OF PENNSYLVANIA – SCHOOL OF MEDICINE
Curriculum Vitae

Date: 06/22/2022

ERICA BERLIN BALLER, MD, MS

Work Address: 3700 Hamilton Walk,
Richards Building, 5th Floor, Pod A
Philadelphia, PA 19104

Education:

08/2002 – 05/2006	BA	Yale University (Computer Science and Psychology)
08/2006 – 07/2011		Research Fellow, Section on Integrative Neuroimaging, NIMH, NIH
08/2009 – 07/2010	MS	Georgetown University (Physiology and Biophysics)
08/2011 – 05/2015	MD	Drexel University College of Medicine

Postgraduate Training and Fellowship Appointments:

06/2015 – 06/2016	Intern in Psychiatry, University of Pennsylvania/Children’s Hospital of Philadelphia
07/2016 – 06/2019	Psychiatry Residency Training University of Pennsylvania
07/2019 – 06/2020	Consultation-Liaison Psychiatry Fellow, Massachusetts General Hospital
08/2020 – Present	NRSA T32 Neuropsychiatry Postdoctoral Fellow, University of Pennsylvania 2 T32 MH019112-29A1

Military Service: None

Faculty Appointments:

07/2019 – 06/2020	Clinical Fellow, Harvard Medical School
08/2020 – Present	Attending Psychiatrist, Division of Consultation-Liaison Psychiatry, University of Pennsylvania

Special Certifications:

2019	American Board of Psychiatry and Neurology Board Certification
2021	Consultation-Liaison Psychiatry Board Certification

Licensure:

	Pennsylvania Unrestricted Medical License (2016-2022)
	Massachusetts Medical License (2019-2022)

Awards, Honors and Membership in Honorary Societies:

2022	PGY1&2 Outstanding Faculty Clinical Teaching Award Department of Psychiatry, University of Pennsylvania
2021	Early Career Investigator Travel Award, Society of Biological Psychiatry

2021	Early Career Research Mentee Award, Academy of Consultation-Liaison Psychiatry
2021	NIH Loan Repayment Program Award
2019	Outstanding Senior Resident Award, Department of Psychiatry, University of Pennsylvania
2019	Research Certificate, Department of Psychiatry, University of Pennsylvania
2019	Research Colloquium for Junior Investigators, American Psychiatric Association
2018	William Webb Fellowship, Academy of Consultation-Liaison Psychiatry
2017	NIMH Outstanding Resident Award Program (ORAP)
2017	Clinical Effectiveness and Quality Improvement Award- Honorable Mention, University of Pennsylvania Health Systems
2016	National Neuroscience Curriculum Initiative Scholar
2015	Gerard Pearson Award for Excellence in Child Psychiatry, Drexel University College of Medicine
2015	Beatrice Sterling Hollander Award for Leadership, High Character, and Creativity in Her Field, Drexel University College of Medicine
2015	1 st Place, Medical Student Research Day Poster Competition, Drexel University College of Medicine
2014	Alpha Omega Alpha Inductee
2013	Award for Excellence in Physiology, Drexel University College of Medicine
2013	Award for Excellence in Program for Integrated Learning Second Year Curriculum, Drexel University College of Medicine
2012	NIH Summer Student Intramural Research Training Award
2010	NIH Technical Intramural Research Training Award
2010	Top Manuscript Prize, Georgetown University
2007	NIH Intramural Research Training Award
2006	NIH Intramural Research Training Award

Memberships in Professional and Scientific Societies: (Including offices held)

National Societies:

2011-Present	American Medical Association
2013-2020	American Psychiatric Association
2015	Alpha Omega Alpha Honor Medical Society

2018-Present
Academy of Consultation-Liaison Psychiatry
(Research subcommittee, 2019-present)

Local Societies:

2015-2020
Pennsylvania Psychiatric Society

Editorial and Journal Positions

2021-Present
Early Career Section Editor, Journal of the Academy of Consultation-Liaison Psychiatry

2019-2020
Editorial Board Member, Psychosomatics

2021-Present
Ad-hoc Reviewer for *General Hospital Psychiatry, Psychological Medicine*

Academic and Institutional Committees:

2022-
Member, Residency Curriculum Committee,
Department of Psychiatry, University of Pennsylvania

2021-
Consultation-Liaison Fellowship Education Committee,
Department of Psychiatry, University of Pennsylvania

2020-2021
Member, Residency Recruitment Admissions Committee,
Department of Psychiatry, University of Pennsylvania

2019-2020
Member, Consultation-Liaison Fellowship Review Committee
Department of Psychiatry, Massachusetts General Hospital

2019-2020
Member, Disruptive Patient Behavior Review Committee,
Massachusetts General Hospital

2020
Member, Quarantine Curriculum Committee
National Neuroscience Curriculum Initiative

2019-Present
Member, BRAIN Trust,
National Neuroscience Curriculum Initiative

2017-2019
Member, NNCI Assessment Task Force,
National Neuroscience Curriculum Initiative

2017-2018
Member, Residency Recruitment Committee,
Department of Psychiatry, University of Pennsylvania

2017-2019
Member, Curriculum Committee,
Department of Psychiatry, University of Pennsylvania

2016-2018
Member, Carelign Handoff App Steering Committee,
University of Pennsylvania Health System

2015
Member, Graduation Competencies Committee,
Drexel University College of Medicine

2014-2015
Member, Admissions Committee,
Drexel University College of Medicine

2014-2015
Member, Educational Curriculum Committee,
Drexel University College of Medicine

Major Academic and Clinical Teaching Responsibilities:

2022	Lecturer, PGY1 - “Functional Neurological Disorders” Department of Psychiatry, University of Pennsylvania
2022	Lecturer, PGY2 – “Functional Neuroanatomy” Department of Psychiatry, University of Pennsylvania
2022	Lecturer, PGY2 – “Pathophysiology of COVID Delirium” Department of Psychiatry, University of Pennsylvania
2022	Lecturer, PGY3 – “Neuroscience case conference: Encephalitis” Department of Psychiatry, University of Pennsylvania
2022	Lecturer, PGY3 – “Neuroscience case conference: OUD/Panic” Department of Psychiatry, University of Pennsylvania
2022	Lecturer, PGY3 – “Neuroscience case conference: PTSD” Department of Psychiatry, University of Pennsylvania
2022	Lecturer, PGY3 – “Neuroscience case conference: PMDD” Department of Psychiatry, University of Pennsylvania
2021-22	PGY-2 Supervisor Department of Psychiatry, University of Pennsylvania
2021-	Co-director, Residency Neuroscience Curriculum Department of Psychiatry, University of Pennsylvania
2021	Educating Physician-Scientist Psychiatrists Career Panel Department of Psychiatry, University of Pennsylvania
2021	Lecturer, PGY2 – “Functional Neuroanatomy” Department of Psychiatry, University of Pennsylvania
2021	Lecturer, PGY2 – “Pathophysiology of COVID-19 Delirium” Department of Psychiatry, University of Pennsylvania
2021	Lecturer, Consultation-Liaison Fellowship – “Covid Delirium” Department of Psychiatry, University of Pennsylvania
2021	Lecturer, Consultation-Liaison Fellowship – “Management of the Difficult Patient” Department of Psychiatry, University of Pennsylvania
2021	Lecturer, PGY1 – “Introduction to Delirium” Department of Psychiatry, University of Pennsylvania
2020	NNCI Scholar Mentor National Neuroscience Curriculum Initiative
2020-2021	PGY-1 Supervisor Department of Psychiatry, University of Pennsylvania
2020	Lecturer, PGY1 – “Introduction to Delirium” Department of Psychiatry, University of Pennsylvania
2019-2020	Lecturer, Psychiatry Clerkship (MS2 and 3) Harvard Medical School

2018-2019	Resident Director for Research Department of Psychiatry, University of Pennsylvania
2018-2019	Co-Director, PGY2 Neuroscience Course Department of Psychiatry, University of Pennsylvania
2018-2019	Facilitator, Brain and Behavior (MS1 Psychiatry Course) Department of Psychiatry, University of Pennsylvania
2016-2019	Lecturer, PGY1 through PGY4 Neuroscience Seminars Department of Psychiatry, University of Pennsylvania
2014-2015	Student Facilitator, Doctoring Course for Medical Students Drexel University College of Medicine
2014-2015	Academic Tutor for Step 2 CK Drexel University College of Medicine
2012-2014	Academic Tutor for Medical School Courses: Neuroscience, Physiology, Biochemistry, Genetics, Immunology, Pathology, Pathophysiology, and Pharmacology Drexel University College of Medicine

Lectures by Invitation:

1. **Baller E**, Adebimpe A, Valcarel A, Alexander-Bloch A, Cui Z, Detre D, Gur RC, Gur RE, Larsen B, Linn K, O'Donnell C, Raznahan A, Roalf D, Tapera T, Vandekar S, Shinohara R, Satterthwaite T. "Developmental Coupling of Cerebral Blood Flow and fMRI Fluctuations in Youth." Oral Presentation. Society for Biological Psychiatry. New Orleans, LA, USA: 29 Apr 2021.
2. **Erica Baller, MD, MS**. "Wrapping our Minds Around COVID-19: Acute and long-term sequelae of SARS-CoV-2 Infection." Featured speaker, Michigan Psychiatric Society's Annual Spring Meeting. Grand Rapids, MI, USA: 22 Apr 2022.
3. **Erica Baller, MD, MS**. "Delirium Management for the Neurologist." Noon Residency Lecture Series, Department of Neurology. Philadelphia, PA, USA: 8 Mar 2022.
4. Dustin Todaro and **Erica Baller**. "Covid Delirium." Penn Department of Psychiatry Journal Club. Philadelphia, PA, USA: 8 Feb 2022.
5. Golkoo Hosseini and **Erica Baller**. "Neurocognitive and Functional Heterogeneity in Depressed Youth." Penn Department of Psychiatry Brain Forum. Philadelphia, PA, USA: 5 Aug 2021.
6. Weinstein S, Alexander-Bloch A, Vandekar S, **Baller E**, Gur RC, Gur RE, Raznahan A, Adebimpe A, Satterthwaite T, Shinohara R. "Permutation testing of network enrichment in neuroimaging." 14th International Conference of the ERCIM WG on Computational and Methodologic Statistics. London, UK: 18 Dec 2021.
7. **Baller E**, Adebimpe A, Valcarel A, Alexander-Bloch A, Cui Z, Detre D, Gur RC, Gur RE, Larsen B, Linn K, O'Donnell C, Raznahan A, Roalf D, Tapera T, Vandekar S, Shinohara R, Satterthwaite T. "Mapping the developmental coupling of cerebral blood flow-amplitude of low frequency oscillations in youth." Poster Playlist. Organization for Human Brainmapping. Virtual: 26 Jun 2021.
8. **Erica Baller, MD, MS**. "Computational neuropsychiatry: Analyses of psychopathology and development." T32 External Advisory Board Annual Meeting. Philadelphia, PA, USA: 5 Jun 2021.
9. **Erica Baller, MD, MS**. "A network-based approach to understanding depression in multiple sclerosis." Neurology Multiple Sclerosis Neuroimaging Section Meeting. Philadelphia, PA, USA: 28 May 2021.

10. **Erica Baller, MD, MS.** “Neurovascular Coupling in Youth: Mapping the coupling of cerebral blood flow and fMRI oscillations during development.” Neuropsychiatry Section Meeting, Philadelphia, PA, USA: 21 May 2021.
11. **Erica Baller, MD, MS.** “I’ve got COVID on the Brain: Pathophysiology of Delirium associated with COVID-19.” Department of Psychiatry Grand Rounds Speaker. University of Oklahoma. Tulsa, OK. 3 Feb 2021.
12. Andrew Siegel, MD and **Erica Baller, MD, MS.** “Delirium Management for the Neurologist.” Noon Residency Lecture Series, Department of Neurology. Philadelphia, PA, USA: 10 Nov 2020.
13. **Erica Baller, MD, MS.** “Cognitive and Functional Heterogeneity in Depressed Youth.” Northeast Regional Physician-Scientist Psychiatrist Meeting; Philadelphia, PA, USA: 26 Oct 2020.
14. **Erica Baller, MD, MS.** “Management of COVID-19 Delirium.” MGH Psychiatry Residency Special COVID Session; Boston, MA, USA: 10 June 2020.
15. **Erica Baller, MD, MS.** “Menstrual Mysteries: The Case of PMDD.” Academy of Consultation-Liaison Psychiatry Annual Meeting (Webb Fellow Lecture); San Diego, CA, USA; 15 Nov 2019.
16. **Erica Baller, MD, MS.** “Chronic Pain.” MGH Psychosomatics Conference; Boston, MA, USA; 31 Oct 2019.
17. **Erica Baller, MD, MS.** “How to give a TSIRC.” MGH Psychiatry Residency Clinician Educators Program Course; Boston, MA, USA; 23 Oct 2019.
18. **Erica Baller, MD, MS.** “Semi-supervised Machine Learning Reveals Three Patterns of Cognitive Function in Depressed Youth.” American Psychiatric Association Oral Session: Research Colloquium for Junior Investigators; San Francisco, CA, USA; 19 May 2019.
19. **Erica Baller, MD, MS.** “Menstrual Mysteries: The Case of PMDD.” Penn Department of Psychiatry Research Day; Philadelphia, PA, USA; 11 Oct 2018.
20. **Erica Baller, MD, MS.** “Menstrual Mysteries: The Case of PMDD.” This “Stuff” Is Really Cool 2018; New Haven, CT, USA; 27 Jul 2018.
21. **Erica Baller, MD, MS.** “SOS: Your System has been Hijacked!” Society of Biological Psychiatry Oral Session: This “Stuff” Is Really Cool; New York, NY, USA; 9 May 2018.
22. **Erica Baller, MD, MS.** “SOS: Your System has been Hijacked!” American Psychiatric Association Oral Session: This “Stuff” Is Really Cool; New York, NY, USA; 6 May 2018.
23. **Erica Baller, MD, MS.** “SOS: Your System has been Hijacked!” This “Stuff” Is Really Cool 2017; New Haven, CT, USA; 28 Jul 2017.
24. **Erica Baller, MD, MS** and Melissa Arbuckle, MD, PhD. “Learning Collaborative: Collaborative Learning.” BRAIN Conference/Day 1 of AADPRT Meeting; San Francisco, CA; 8 Mar 2017.

Bibliography:

Research Publications, peer-reviewed:

1. Weinstein SM, Vandekar SN, **Baller EB**, Tu D, Adebimpe A, Tapera TM, Gur RC, Gur RE, Detre JA, Raznahan A, Alexander-Bloch AF, Satterthwaite TD, Shinohara RT. Spatially-enhanced clusterwise inference for testing and localizing intermodal correspondence. *Under Review at Neuroimage*.
2. Hu F, Weinstein SM, **Baller EB**, Valcarcel AM, Adebimpe A, Raznahan A, Roalf DR, Robert-Fitzgerald T, Gonzenbach V, Gur RC, Gur RE, Vandekar S, Detre JA, Linn KA, Alexander-Bloch A, Satterthwaite TD, Shinohara RT. Voxel-wise Intermodal Coupling Analysis of Two or More Modalities using Local Covariance Decomposition. *Hum Brain Mappg*. 22 Jun 2022;1-14. <https://doi.org/10.1002/hbm.25980>.

3. Adebimpe A, Bertolero M, Dolui S, Cieslak M, Murtha K, **Baller EB**, Butler E, Cook P, Colcombe S, Covitz S, Davatzikos C, Davilla-Feliciano D, Flounders M, Elliott M, Franco A, Gur RC, Gur RE, Jaber B, McMillan C, Milham M, Oathes D, Olm C, Mutsaerts H, Phillips J, Tackett W, Roalf D, Taper T, Tisdall D, Esteban O, Poldrack R, Detre J, Satterthwaite T. ASLPrep: A Generalizable Platform for Processing of Arterial Spin Labeled MRI and Quantification of Regional Brain Perfusion. *Nat Methods*. 2022 Jun 10; 19:683–686. <https://doi.org/10.1038/s41592-022-01458-7>. PMID: 35689029.
4. **Baller EB**, Valcarcel AM, Adebimpe A, Alexander-Bloch A, Cui Z, Gur RC, Gur RE, Larsen BL, Linn KA, O'Donnell C, Pines AR, Raznahan A, Roalf DR, Taper TM, Tisdall MD, Vandekar S, Xia CH, Detre JA, Shinohara RT, Satterthwaite TD. Developmental coupling of cerebral blood flow and fMRI fluctuations in youth. *Cell Rep*. 2022 Mar 29;38(13):110576. doi: 10.1016/j.celrep.2022.110576. PMID: 35354053.
5. Wei SM, **Baller EB**, Martinez PE, Goff AC, Li HJ, Kohn PD, Kippenhan JS, Soldin SJ, Rubinow DR, Goldman DG, Schmidt PJ, Berman KF. Subgenual Cingulate Resting Regional Cerebral Blood Flow in Premenstrual Dysphoric Disorder: Differential Regulation by Ovarian Steroids and Preliminary Evidence for an Association with Expression of ESC/E(Z) Complex Genes. *Transl Psychiatry*. 2021 Apr 8;11(1):206. doi: 10.1038/s41398-021-01328-4. PMID: 33833224.
6. Xu A, Larsen B, Henn A, **Baller EB**, Scott JC, Sharma V, Adebimpe A, Basbaum AI, Corder G, Dworkin RH, Edwards RR, Woolf CJ, Eickhoff SB, Eickhoff CR, Satterthwaite TD. Brain Responses to Noxious Stimuli in Patients With Chronic Pain: A Systematic Review and Meta-analysis. *JAMA Netw Open*. 2021;4(1):e2032236. 10.1001/jamanetworkopen.2020.32236. PMID: PMC7786252.
7. **Baller EB**, Kaczurkin AN, Sotiras A, Adebimpe A, Bassett DS, Calkins ME, Chand G, Cui Z, Gur RE, Gur RC, Linn KA, Moore TM, Roalf DR, Varol E, Wolf DH, Xia CH, Davatzikos C, Satterthwaite TD. Neurocognitive and Functional Heterogeneity in Depressed Youth. *Neuropsychopharmacology*. 2020 Oct 2. doi: 10.1038/s41386-020-00871-w. PMID: 33007777.
8. Xu A, Larsen B, **Baller EB**, Scott JC, Sharma V, Adebimpe A, Basbaum AI, Dworkin DH, Edwards RR, Woolf CJ, Eickhoff SB, Eickhoff CR, Satterthwaite TD. Convergent neural representations of acute nociceptive pain in healthy volunteers: A large-scale fMRI meta-analysis. *Neurosci Biobehav Rev*. 2020 May;112:300-323. doi: 10.1016/j.neubiorev.2020.01.004. Epub 2020 Jan 15. PMID: PMC7755074.
9. Kaczurkin AN, Sotiras A, **Baller EB**, Calkins ME, Chand GB, Cui Z, Erus G, Fan Y, Gur RE, Gur RC, Moore TM, Roalf DR, Rosen AF, Ruparel K, Shinohara R, Varol E, Wolf DH, Davatzikos C, Satterthwaite TD. Neurostructural Heterogeneity in Youth with Internalizing Symptoms. *Biological Psychiatry* 2019; <https://doi.org/10.1016/j.biopsych.2019.09.005>. PMID: PMC7007843.
10. Wei S-M, **Baller EB**, Kohn PD, Kippenhan JS, Kolachana B, Soldin S, Rubinow DR, Schmidt PJ, Berman KF. Brain Derived Neurotrophic Factor (BDNF) Val66Met Genotype and Ovarian Steroids Interactively Modulate Working Memory-Related Hippocampal Function in Women: A Multimodal Neuroimaging Study. *Molecular Psychiatry* 2017; doi:10.1038/mp2017.72. PMID: 28416813.
11. **Baller EB**, Wei S-M, Kohn PD, Rubinow DR, Alarcón G, Schmidt PJ, Berman KF. Abnormalities of dorsolateral prefrontal function in women with premenstrual dysphoric disorder: a multimodal neuroimaging study. *American Journal of Psychiatry* 2013; [170\(3\):305-314](https://doi.org/10.1176/appi.ajp.2012.12030385). doi: 10.1176/appi.ajp.2012.12030385. PMID: PMC3968942.
12. Eisenberg DP, Kohn PD, **Baller EB**, Bronstein JA, Masdeu JC, Berman KF. Seasonal Effects on Human Striatal Presynaptic Dopamine Synthesis. *Journal of Neuroscience* 2010; [30\(44\):14691-4](https://doi.org/10.1523/JNEUROSCI.1953-10.2010). doi: 10.1523/JNEUROSCI.1953-10.2010. PMID: PMC3010858.

Research Publications, peer-reviewed reviews:

1. Leistikow N, **Baller EB**, Bradshaw PJ, Riddle JN, Ross DA, Osborne LM. Prescribing sleep: An overlooked treatment for postpartum depression. *Biological Psychiatry* 2022. doi: 10.1016/j.biopsych.2022.03.006.

2. McQuillan TJ, Franco JR, Sorg EM, **Baller EB**, Quijije N, Rozentel TD. Understanding and addressing psychiatric comorbidities and upper extremity trauma: surgeons in a multidisciplinary care model. *J Hand Surg Am.* 2021 Apr;46(4):328-334. doi: 10.1016/j.jhsa.2021.01.005. Epub 2021 Feb 23. PMID: 33637395.
3. **Baller EB**, Hogan HS, Fusunyan MA, Ivkovic A, Luccarelli JW, Madva E, Nisavic M, Praschan N, Quijije NV, Beach SR, Smith FA. Neurocovid: Pharmacologic recommendations for delirium associated with COVID-19. *Psychosomatics.* 2020 Nov-Dec;61(6):585-596. <https://doi.org/10.1016/j.psych.2020.05.013>. PMID: PMC7240270.
4. **Baller EB**, Ross DR. Premenstrual Dysphoric Disorder: From Plato to Petri Dishes. *Biological Psychiatry* 2019; [85\(12\)](#):e63-e65. doi: 10.1016/j.biopsych.2019.04.018. PMID: PMC6696911.
5. **Baller EB**, Ross DR. Your System Has Been Hijacked: The Neurobiology of Chronic Pain. *Biological Psychiatry* 2017; [82\(8\)](#):e61-e63. doi: 10.1016/j.biopsych.2017.08.009. PMID: PMC5725747.
6. **Baller EB**, Gedeon D, Maguire M, Steele C. *The Biological Basis of Postpartum Depression: A Unique Subtype?* Georgetown University Press 2010. * Selected as a top manuscript out of over 50 manuscripts.

Research Publications, non-peer reviewed:

1. Hu F, Weinstein SM, **Baller EB**, Valcarcel AM, Adebimpe A, Raznahan A, Roalf DR, Robert-Fitzgerald T, Gonzenbach V, Gur RC, Gur RE, Vandekar S, Detre JA, Linn KA, Alexander-Bloch A, Satterthwaite TD, Shinohara RT. Voxel-wise Intermodal Coupling Analysis of Two or More Modalities using Local Covariance Decomposition. *bioRxiv.* 2022 Feb. Available from <https://www.biorxiv.org/content/10.1101/2022.02.19.481070v1>.

Abstracts:

1. **Baller EB**, Valcarcel AM, Adebimpe A, Alexander-Bloch A, Cui Z, Gur RC, Gur RE, Larsen BL, Linn KA, O'Donnell C, Pines AR, Raznahan A, Roalf DR, Tapera TM, Tisdall MD, Vandekar S, Xia CH, Detre JA, Shinohara RT, Satterthwaite TD. Developmental coupling of cerebral blood flow and fMRI fluctuations in youth. *Accepted for oral presentation at SOBP 2022 annual meeting.*
2. Adebimpe A, Bertolero M, Dolui S, Cieslak M, Murtha K, **Baller E**, Butler E, Cook P, Colcombe S, Covitz S, Davatzikos C, Davilla-Feliciano D, Flounders M, Elliott M, Franco A, Gur RC, Gur RE, Jaber B, McMillan C, Milham M, Oathes D, Olm C, Mutsaerts H, Phillips J, Tackett W, Roalf D, Tapera T, Tisdall D, Esteban O, Poldrack R, Detre J, Satterthwaite T. ASLPrep: A Generalizable Workflow for Processing of Arterial Spin Labeled MRI. *Organization for Human Brainmapping*, 22 June 2021.
3. **Baller E**, Adebimpe A, Valcarel A, Alexander-Bloch A, Cui Z, Detre D, Gur RC, Gur RE, Larsen B, Linn K, O'Donnell C, Raznahan A, Roalf D, Tapera T, Vandekar S, Shinohara R, Satterthwaite T. Mapping the Coupling of Cerebral Blood Flow-Amplitude of Low Frequency Oscillations in Youth. *Organization for Human Brainmapping*, 22 June 2021.
4. **Baller E**, Adebimpe A, Valcarel A, Alexander-Bloch A, Cui Z, Detre D, Gur RC, Gur RE, Larsen B, Linn K, O'Donnell C, Raznahan A, Roalf D, Tapera T, Vandekar S, Shinohara R, Satterthwaite T. Mapping Physiology-Function Coupling in Youth. *Biological Psychiatry*: 89(9):S174, 2021.
5. Wei S-M, **Baller EB**, Kohn PD, Kippenhan JS, Kolachana B, Soldin S, Rubinow DR, Schmidt PJ, Berman KF (2019). Variations in sex-steroid regulated genes: ovarian steroid hormones modulate working-memory related brain function in women. *Biological Psychiatry*. [85\(10\)](#):S75, 2019.
6. Shanmugan S, Sammel MD, Loughead J, **Baller E**, Brown TE, Faust J, Domchek S, Epperson CN. Contribution of mood symptoms to early life adversity effects on executive function after risk reduction salpingo-oophorectomy. *Biological Psychiatry*. [83\(9\)](#):S183-184, 2018.
7. Schmidt P, Wei S-M, Dubey N, Hoffman J, **Baller E**, Martinez P, Goldman D, Berman K, Rubinow D. Gene-Hormone Interactions: Substrates of Vulnerability in PMDD. *Biological Psychiatry*. [79\(9\)](#):26S, 2016.

8. Wei S-M, Schmidt PJ, **Baller EB**, Kohn PD, Kippenhan JS, Kolachana B, Rubinow DR, Weinberger DR, Berman KF. Interaction between catechol-o-methyl transferase (COMT) and gonadal steroid hormones affects dorsolateral prefrontal (DLPFC)-dependent working memory function- a positron emission tomography (PET) study. *Biological Psychiatry*. 73(9):238S-239S, 2013.
9. Damme KSF, Wei S-M, **Baller EB**, Bloch JB, Kohn PD, Kippenhan JS, Rubinow D, Martinez P, Schmidt PJ, Berman KF. Ovarian hormones modulate age-related changes in rCBF during working memory- A positron emission tomography (PET) study in women. *Biological Psychiatry*. 71(8):170S, 2012.
10. Cropp B, Jabbi M, Kohn P, **Baller E**, Kippenhan JS, Eisenberg D, Masdeu J, Berman KF. Midbrain presynaptic dopamine mediates instrumental choice behavior. *Biological Psychiatry*. 71(8):262S, 2012.
11. Masdeu JC, Kohn P, **Baller E**, Bronstein J, Wei S-M, Ianni A, Meyer-Lindenberg A, Kolachana B, Czarapata J, Weinberger D, Berman KF. The human dopaminergic VTA-hippocampal loop evidenced by the effect of BDNF genotype. *Neurology*. 74(9):A20, 2010.
12. Masdeu JC, Kohn P, **Baller E**, Bronstein J, Wei S-M, Meyer-Lindenberg A, Kolachana B, Salloum JB, Weinberger D, Berman KF. Dopaminergic ventral tegmental area-hippocampal modulation: effects of BDNF val66met genotype. *Neuroimage*. 47:S140, 2009.
13. Kohn P, Roe K, Kippenhan J, Coutlee C, Padmanabhan A, Wei S-M, Eisenberg D, Salloum J, **Baller E**, Berman K. Hippocampal activation during an event-related 2-D navigational learning task. *Neuroimage*. 47:S54, 2009.
14. Masdeu J, Kohn P, **Baller E**, Bronstein J, Wei S-M, Meyer-Lindenberg A, Kolachana B, Salloum J, Weinberger D, Berman K. Effect of the BDNF val66met genotype on the modulation of the hippocampus by the mesolimbic dopaminergic system. *Neurology*. 73:332, 2009.
15. **Baller E**, Schmidt P, Kohn P, Wei S-M, Rubinow D, Berman K. Working memory-related rCBF activation in Premenstrual Dysphoria. *Neuroimage*. 47:S49, 2009.
16. Dreher JC, Schmidt P, **Baller E**, Kohn P, Rubinow D, Furman D, Berman KF. Modulation of the reward system by gonadal steroids: a combined pharmacological/fMRI study in healthy young women. *Neuroimage*. 47:S138, 2009.
17. **Baller E**, Schmidt P, Kohn P, Rubinow D, Furman D, Berman K. Neural correlates of hormonally modulated spatial cognition in women. *Biological Psychiatry*. 63(7):93S, 2008.

Reports, Editorials, Chapters and other scholarly output:

1. Berchmans GN and **Baller EB**. Facing Postoperative Pain: A Guide for Patients and their Families. Boston: Massachusetts General Hospital Psychiatry Academy; 2021. Chapter 1, What causes pain?; p.1-27.
2. Ross DA, Akil M, Arbuckle M, **Baller E**, Bentman A, Cooper J, delaCruz A, Eisen J, Rao S, Skikic M, Thompson-Felix T, Travis M, Walker A. Quarantine Curriculum. National Neuroscience Curriculum Initiative; 2020. <https://www.ncionline.org/course/quarantine-curriculum/>
3. **Baller E**. Truth or Dare: Chronic Pain. National Neuroscience Curriculum Initiative; 2020. <https://www.ncionline.org/course/truth-or-dare-chronic-pain/>
4. **Baller E**. “Menstrual Mysteries: The Case of PMDD.” This “Stuff” is Really Cool 2018. New Haven, CT, USA: National Neuroscience Curriculum Initiative; 27 Jul 2018. http://www.ncionline.org/course/this-stuff-is-really-cool-yale-july-2018/?course_type=content&course_page=4
5. **Baller E**: “SOS: Your System has been Hijacked!” This “Stuff” is Really Cool: SOBP 2018. Society of Biological Psychiatry, New York, NY: National Neuroscience Curriculum Initiative; 2018. http://www.ncionline.org/course/this-stuff-is-really-cool-sobp-2018/?course_type=content&course_page=7

7. **Baller E.** Find it, Draw it, Know it: Pain Circuitry. New York, NY: National Neuroscience Curriculum Initiative; 2018. <http://www.ncionline.org/course/find-it-draw-it-know-it-pain-circuitry/>
8. **Baller E,** Arbuckle M, Wang A. Functional Neuroanatomy Through a Clinical Case. New York, NY: National Neuroscience Curriculum Initiative; 2017. <http://nnci.articulateonline.com/p/7131670637>.
9. **Baller E,** Arbuckle M, Wang A. Celebrity/Pictionary Mash-Up... With BRAINS! New York, NY: National Neuroscience Curriculum Initiative; 2017. <http://www.ncionline.org/course/celebrity-pictionary-mash-up-with-brains/>.

Posters:

1. Hu F, Weinstein SM, **Baller EB**, Valcarcel AM, Adebimpe A, Raznahan A, Roalf DR, Robert-Fitzgerald T, Gonzenbach V, Gur RC, Gur RE, Vandekar S, Detre JA, Linn KA, Alexander-Bloch A, Satterthwaite TD, Shinohara RT. Voxel-wise Intermodal Coupling Analysis of Two or More Modalities using Local Covariance Decomposition. *Submitted for OHBM 2022 annual meeting.*
2. **Baller EB**, Valcarcel AM, Adebimpe A, Alexander-Bloch A, Cui Z, Gur RC, Gur RE, Larsen BL, Linn KA, O'Donnell C, Pines AR, Raznahan A, Roalf DR, Tapera TM, Tisdall MD, Vandekar S, Xia CH, Detre JA, Shinohara RT, Satterthwaite TD. Developmental coupling of cerebral blood flow and fMRI fluctuations in youth. American College of Neuropsychopharmacology Annual Meeting. 8 Dec 2021.
3. **Baller EB**, Kaczurkin A, Sotiras A, Varol E, Moore T, Xia C, Adebimpe A, Calkins M, Gur RE, Gur RC, Wolf DH, Bassett DS, Linn KA, Davatzikos C, Satterthwaite TD (2019). Semi-supervised machine learning reveals three patterns of cognitive function in depressed youth. Poster, American Psychiatric Association, San Francisco, CA. May 18-22
4. **Baller EB**, Kaczurkin A, Sotiras A, Varol E, Moore T, Xia C, Adebimpe A, Calkins M, Gur RE, Gur RC, Wolf DH, Bassett DS, Linn KA, Davatzikos C, Satterthwaite TD (2018). Semi-supervised machine learning reveals three patterns of cognitive function in depressed youth. Poster, American College of Neuropsychopharmacology, Hollywood, Fl. Dec 9-13.
5. Wei S-M, **Baller EB**, Martinez PE, Reding K, Kohn PD, Kippenhan JS, Gregory M, Rubinow DR, Schmidt PJ, Berman KF (2018). Sex hormones, resting regional cerebral blood flow with PET, and resting functional connectivity with fMRI in healthy women and women with PMDD. Poster, American College of Neuropsychopharmacology, Hollywood, Fl. Dec 9-13.
6. Wei S-M, **Baller EB**, Martinez PE, Reding K, Kohn PD, Kippenhan JS, Gregory M, Rubinow DR, Schmidt PJ, Berman KF (2018). Modulation of resting rCBF and connectivity by ovarian steroids in healthy women and those with PMDD. Poster, Organization for Human Brainmapping, Singapore. June 17-21.
7. Damme KSF, Wei S-M, **Baller EB**, Bloch JB, Kohn PD, Kippenhan JS, Rubinow D, Martinez P, Schmidt PJ, Berman KF (2012). Ovarian hormones modulate working memory related hippocampal-dlpfc connectivity in women- a positron emission tomography (PET) study. Poster, American College of Neuropsychopharmacology. Hollywood, Fl. Dec 2-6.
8. Block JB, Wei S-M, **Baller EB**, Damme KSF, Martinez PE, Kohn PD, Kippenhan JS, Rubinow DR, Schmidt PJ, Berman KF (2012). Ovarian hormones differentially modulate subgenual cingulate and hippocampal activity in premenstrual dysphoria at rest- A positron emission tomography (PET) study. Poster, Society of Biological Psychiatry. Philadelphia, PA. May 3-5. *Top Poster Award* (Top 25 posters out of 1,100).
9. Eisenberg DP, Masdeu JC, Kohn PD, Ianni A, **Baller E**, Kolachana B, Weinberger DR, Berman KF (2011). Effects of PPP1R1B genetic variation on in vivo human central dopamine system function. Poster, Annual Meeting of the American College of Neuropsychopharmacology, Waikoloa, Hawaii. December 4-8.
10. Wei SM, Kohn PD, Kippenhan JS, **Baller EB**, Alarcon G, Schmidt PJ, Berman KF (2011). Gonadal steroid hormones affect hippocampal activation during spatial navigation in women. Poster, Annual Meeting of the American College of Neuropsychopharmacology, Waikoloa, Hawaii. December 4-8.

11. Eisenberg DP, Masdeu JC, Ianni AM, **Baller EB**, Kolachana BS, Weinberger DR, Berman KF (2011). Common variation in the DARPP-32 gene is associated with presynaptic dopamine in healthy humans. Poster, Society for Neuroscience, Washington, DC. November 13-16.
12. Cropp BF, Jabbi M, Kohn P, Nash T, **Baller EB**, Kippenhan JS, Raila HE, Eisenberg DP, Masdeu JC, Berman KF (2011). Midbrain dopamine modulates mesocorticolimbic and sensorimotor regulation of decision-making. Poster, Society for Neuroscience, Washington, DC. November 13-16.
13. Alarcon G, Kippenhan J, **Baller E**, Wei S-M, Schmidt P, Berman K (2011). Hippocampal Gray Matter Volume Increase during Luteal Phase of Menstrual Cycle as Measured with VBM. Poster, Organization for Human Brain Mapping, Quebec City, Canada. June 26-30.
14. **Baller E**, Schmidt P, Kohn P, Wei S-M, Rubinow D, Berman K (2011). Working memory-related brain activation in premenstrual dysphoria: a PET and fMRI study. Poster, Organization for Human Brain Mapping, Quebec City, Canada. June 26-30.
15. Alarcon G, Wei S-M, Kippenhan J, Kohn P, **Baller E**, Schmidt P, Berman K (2010). Pharmacologically-Controlled Changes in Gonadal Steroid Hormones Influence Gray Matter Volume in the Orbitofrontal Cortex and Hippocampal Regions of Women. Poster, Annual Meeting of the American College of Neuropsychopharmacology, Miami Beach, FL. December 5-9.
16. **Baller E**, Schmidt P, Kohn P, Wei S-M, Rubinow D, Berman K (2010). A Multimodal Study of Working Memory-related Brain Activation in Premenstrual Dysphoria. Poster, Annual Meeting of the American College of Neuropsychopharmacology, Miami Beach, FL. December 5-9.
17. Wei S-M, Schmidt P, **Baller E**, Kohn P, Kippenhan J, Kolachana B, Rubinow D, Weinberger D, Berman K (2010). Interaction between Brain Derived Neurotrophic Factor (BDNF) and Gonadal Steroid Hormones affects Hippocampal Function during Working Memory. Poster, Annual Meeting of the American College of Neuropsychopharmacology, Miami Beach, FL. December 5-9.
18. Alarcon G, Wei SM, Kippenhan J, Kohn P, **Baller E**, Schmidt P, Berman K (2010). Pharmacologically-controlled changes in gonadal steroid hormones influence orbitofrontal cortex and hippocampal gray matter volume in women. Poster, Annual Meeting of the Society for Neuroscience, San Diego, CA. November 13-17.
19. Eisenberg D, Masdeu JC, Kohn P, **Baller E**, Ianni A, Nash T, Kolachana B, Weinberger D, Berman K (2010). Genetic variation in NOS1 predicts presynaptic dopamine synthesis. Poster, Organization for Human Brain Mapping, Barcelona, Spain. June 6-10.
20. Eisenberg D, Masdeu JC, Kohn P, **Baller E**, Ianni A, Nash T, Kolachana B, Weinberger D, Berman K (2009). Genetic variation in NOS1 predicts presynaptic dopamine synthesis. Poster, Annual Meeting of the American College of Neuropsychopharmacology, Hollywood, FL. December 6-10.
21. Masdeu J, Kohn P, **Baller E**, Bronstein J, Wei S-M, Meyer-Lindenberg A, Kolachana B, Salloum J, Weinberger D, Berman K (2009). Ventral Tegmental Area/Hippocampal Interactions: Modulation by BDNF val66met Genotype. Poster, Annual Meeting of the American College of Neuropsychopharmacology, Hollywood, FL. December 6-10.
22. Masdeu J, Kohn P, **Baller E**, Bronstein J, Wei S-M, Meyer-Lindenberg A, Kolachana B, Salloum J, Weinberger D, Berman K (2009). Dopaminergic Ventral Tegmental Area-Hippocampal Modulation: Effects of BDNF val66met Genotype. Poster and oral presentation, Annual Meeting of the Society for Neuroscience, Chicago, IL. Oct 17-21.
23. Wei S-M, **Baller E**, Furman D, Kohn P, Schmidt P, Berman K (2009). Gonadal Steroid Hormones Modulate Subgenual Activity in Women during Rest. Lecture/Abstract/Poster presented to Annual Meeting of the Society for Neuroscience, Chicago, IL. October 17-21.
24. Dreher J-C, Schmidt P, **Baller E**, Kohn P, Rubinow D, Furman D, Berman K (2009). Modulation of the reward system by gonadal steroids: a combined pharmacological/fMRI study in healthy young women. Poster, Organization for Human Brain Mapping, San Francisco, CA. June 18-24.

25. Wei S-M, **Baller E**, Furman D, Kohn Schmidt P, Berman K (2009). Gonadal Steroid Hormones Modulate Subgenual Activity in Women during Rest. Poster, Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA. Mar. 21-24.
26. **Baller E**, Schmidt P, Kohn P, Wei S-M, Rubinow D, Berman K (2008). Abnormal recruitment of prefrontal cortex during working memory in women with Premenstrual Dysphoria: A PET Study. Poster, Annual Meeting of the American College of Neuropsychopharmacology, Scottsdale, AZ. December 7-11.
27. Masdeu J, Kohn P, Meyer-Lindenberg A, **Baller E**, Bronstein J, Kolachana B, Salloum J, Kippenhan J, Weinberger D, Berman K (2008). The 9-repeat VNTR polymorphism in the dopamine transporter (DAT) gene is associated with increased presynaptic dopamine in the human ventral striatum. Poster, Annual Meeting of the American College of Neuropsychopharmacology, Scottsdale, AZ. December 7-11.
28. **Baller E**, Schmidt P, Kohn P, Kippenhan J, Rubinow D, Furman D, Berman K (2008). Brain activity during visuospatial cognition is modulated by ovarian steroids in women. Poster, Annual Meeting of the Society for Neuroscience, Washington, DC. November 15-19.
29. Dreher J-C, Schmidt P, **Baller E**, Kohn P, Rubinow D, Furman D, Berman K (2008). Modulation of the reward system by gonadal steroids: a combined pharmacological/fMRI study in healthy young women (2008). Poster and Presentation, Annual Meeting of the Society for Neuroscience, Washington, DC. November 15-19.
30. **Baller E**, Schmidt P, Kohn P, Rubinow D, Furman D, Berman K (2007). Gonadal steroid hormone-dependent changes in rCBF during mental rotation. Poster, Annual Meeting of the American College of Neuropsychopharmacology, Boca Raton, FL. December 9-13.
31. Roe K, Griffin E, Padmanabhan A, Nichols L, King E, **Baller E**, Kippenhan J, Kohn P, Berman K (2007). Neural systems underlying lexical acquisition. Poster, Organization for Human Brain Mapping, Chicago, IL. June 10-14.
32. King E, Furman D, Kohn P, Kippenhan J, Nichols L, Padmanabhan A, Sarpal D, **Baller E**, Roe K, Meyer-Lindenberg A, Berman K (2007). Orbitofrontal cortex activity measured with positron emission tomography during social and nonsocial reversal. Poster, Organization for Human Brain Mapping, Chicago, IL. June 10-14.