

**CURRICULUM VITAE**  
**University of Pittsburgh**  
**School of Medicine**

**BIOGRAPHICAL**

<b>Name:</b> Marta Peciña, MD, PhD	<b>Business Address:</b> Western Psychiatric Institute and Clinic 3811 O'Hara Street Pittsburgh, PA 15213
<b>Email:</b> pecinam@upmc.edu	<b>Business Phone:</b> (412) 246-5831

**EDUCATION and TRAINING**

**UNDERGRADUATE**

1998- 2004	University of Navarra, Spain	MD 2004	Medicine
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**GRADUATE**

2005- 2009	University of Navarra, Spain	PhD 2009	Neuroscience
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**POSTGRADUATE**

2005- 2009	University of Navarra Medical Center	Residency 2009 Program Director: Javier Schlatter	Psychiatry
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2009- 2012	University of Michigan, USA	Post-Doc 2012 Mentor: Jon-Kar Zubieta	Neuroimaging
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**APPOINTMENTS and POSITIONS**

**ACADEMIC**

11/2012- 8/2015	University of Michigan, Ann Arbor	Research Investigator
9/2015 - 06/2016	University of Michigan, Ann Arbor	Research Assistant Professor
7/2016 -11/2021	University of Michigan, Ann Arbor	Adj. Research Assistant Professor
7/2016 - 5/2022	University of Pittsburgh, Pittsburgh	Assistant Professor of Psychiatry
5/2022 - Present	University of Pittsburgh, Pittsburgh	Associate Professor of Psychiatry

**CERTIFICATION AND LICENSURE**

Medical License, Spain	5/2005- 5/2009
Psychiatry Specialist, Full Registration with a license to practice, UK	7/2012- 5/2013
Psychiatry Specialist, Full Registration without a license to practice, UK	5/2013- 9/2016

### MEMBERSHIP in PROFESSIONAL and SCIENTIFIC SOCIETIES

Outstanding Member, Spanish Biological Psychiatry Society (SBPS)	2010-2016
Member, University of Michigan Depression Center	2011-2016
Member, The International Society for CNS Clinical Trials and	2014-2016
Member, Alicia Koplowitz Foundation	2015-2016
SOBP (Society of Biological Psychiatry) Member	2015-Present
Associate Member of American College of Neuropsychopharmacology (ACNP)	2021-Present
ACNP Member	2023- Present

### HONORS AND AWARDS

- 2006 Best Poster in Mood Disorders, Spanish Psychiatry Society
- 2009 Visiting Research Fellowship, College of Medicine of Navarra.
- 2009 Psychiatry Residents Research Award, Spanish Biological Psychiatry Society.
- 2010 Visiting Research Fellowship, Alicia Koplowitz Foundation.
- 2010 Travel Award, American Society of Clinical Psychopharmacology.
- 2013 Best Publication Award in the Outstanding Investigator Category, SBPS.
- 2014 Early Career Travel Award, American College of Neuropsychopharmacology (ACNP).
- 2014 New Investigator Award, International Society for CNS Clinical Trials and Methodology.
- 2015 Faculty Member, Neuroscience Graduate Program, University of Michigan.
- 2015 Career Development Institute for Psychiatry Award.
- 2016 Past-travel Awardee Minority Travel Award, ACNP.
- 2017 Young Physician Scientist Award, American Society of Clinical Investigation (ASCI).
- 2018 SOBP Domestic Fellowship Award.

2020 ACNP Associate Member

2020 Faculty at the Leadership Academy for Early Career Faculty at the Univ. of Pittsburgh

2023 ACNP Member

## PUBLICATIONS

### 1. ORIGINAL PEER REVIEWED ARTICLES:

1. Mickey BJ, Zhou Z, Heitzeg MM, Heinz E, Hodgkinson CA, Hsu DT, Langenecker SA, Love TM, **Peciña M**, Shafir T, Stohler CS, Goldman D, Zubieta JK. Emotion processing, major depression, and functional genetic variation of neuropeptide Y. *Arch Gen Psychiatry*. 2011 Feb;68(2):158-66. doi: 10.1001/archgenpsychiatry.2010.197. PubMed PMID: 21300944; PubMed Central PMCID: PMC3091621.
2. Hsu DT, Mickey BJ, Langenecker SA, Heitzeg MM, Love TM, Wang H, Kennedy SE, **Peciña M**, Shafir T, Hodgkinson CA, Enoch MA, Goldman D, Zubieta JK. Variation in the corticotropin-releasing hormone receptor 1 (CRHR1) gene influences fMRI signal responses during emotional stimulus processing. *J Neurosci*. 2012 Feb 29;32(9):3253-60. doi: 10.1523/JNEUROSCI.5533-11.2012. PubMed PMID: 22378896; PubMed Central PMCID: PMC3297975.3:
3. Love TM, Enoch MA, Hodgkinson CA, **Peciña M**, Mickey B, Koeppe RA, Stohler CS, Goldman D, Zubieta JK. Oxytocin gene polymorphisms influence human dopaminergic function in a sex-dependent manner. *Biol Psychiatry*. 2012 Aug 1;72(3):198-206. doi: 10.1016/j.biopsych.2012.01.033. Epub 2012 Mar 13. PubMed PMID: 22418012; PubMed Central PMCID: PMC3392442.
4. **Peciña M**, Stohler CS, Zubieta JK. Role of  $\mu$ -opioid system in the formation of memory of placebo responses. *Mol Psychiatry*. 2013 Feb;18(2):135-7. doi: 10.1038/mp.2012.16. Epub 2012 Mar 20. PubMed PMID: 22430673; PubMed Central PMCID: PMC4152848.
5. **Peciña M**, Azhar H, Love TM, Lu T, Fredrickson BL, Stohler CS, Zubieta JK. Personality trait predictors of placebo analgesia and neurobiological correlates. *Neuropsychopharmacology*. 2013 Mar;38(4):639-46. doi: 10.1038/npp.2012.227. Epub 2012 Nov 16. PubMed PMID: 23187726; PubMed Central PMCID: PMC3572460.
6. **Peciña M**, Mickey BJ, Love T, Wang H, Langenecker SA, Hodgkinson C, Shen PH, Villafuerte S, Hsu D, Weisenbach SL, Stohler CS, Goldman D, Zubieta JK. DRD2 polymorphisms modulate reward and emotion processing, dopamine neurotransmission and openness to experience. *Cortex*. 2013 Mar;49(3):877-90. doi: 10.1016/j.cortex.2012.01.010. Epub 2012 Feb 14. PubMed PMID: 22424959; PubMed Central PMCID: PMC3381848.
7. Briceño EM, Weisenbach SL, Rapport LJ, Hazlett KE, Bieliauskas LA, Haase BD, Ransom MT, Brinkman ML, **Peciña M**, Scheitingart DE, Starkman MN, Giordani B, Welsh RC, Noll DC, Zubieta JK, Langenecker SA. Shifted inferior frontal laterality in women with major depressive disorder is related to emotion-processing deficits. *Psychol Med*. 2013 Jul;43(7):1433-45. doi: 10.1017/S0033291712002176. Epub 2013 Jan 8. PubMed PMID: 23298715; PubMed Central PMCID: PMC4380502.

8. Martikainen IK, **Peciña M**, Love TM, Nuechterlein EB, Cummiford CM, Green CR, Harris RE, Stohler CS, Zubieta JK. Alterations in endogenous opioid functional measures in chronic back pain. *J Neurosci*. 2013 Sep 11;33(37):14729-37. doi: 10.1523/JNEUROSCI.1400-13.2013. PubMed PMID: 24027273; PubMed Central PMCID: PMC3771036.
9. **Peciña M**, Martínez-Jauand M, Hodgkinson C, Stohler CS, Goldman D, Zubieta JK. FAAH selectively influences placebo effects. *Mol Psychiatry*. 2014 Mar;19(3):385-91. doi: 10.1038/mp.2013.124. Epub 2013 Sep 17. PubMed PMID: 24042479; PubMed Central PMCID: PMC4222079.
10. **Peciña M**, Martínez-Jauand M, Love T, Heffernan J, Montoya P, Hodgkinson C, Stohler CS, Goldman D, Zubieta JK. Valence-specific effects of BDNF Val66Met polymorphism on dopaminergic stress and reward processing in humans. *J Neurosci*. 2014 Apr 23;34(17):5874-81. doi: 10.1523/JNEUROSCI.2152-13.2014. PubMed PMID: 24760847; PubMed Central PMCID: PMC3996214.
11. **Peciña M**, Stohler CS, Zubieta JK. Neurobiology of placebo effects: expectations or learning? *Soc Cogn Affect Neurosci*. 2014 Jul;9(7):1013-21. doi: 10.1093/scan/nst079. Epub 2013 Jul 24. PubMed PMID: 23887819; PubMed Central PMCID: PMC4090967.
12. **Peciña M**, Love T, Stohler CS, Goldman D, Zubieta JK. Effects of the Mu opioid receptor polymorphism (OPRM1 A118G) on pain regulation, placebo effects and associated personality trait measures. *Neuropsychopharmacology*. 2015 Mar;40(4):957-65. doi: 10.1038/npp.2014.272. Epub 2014 Oct 13. PubMed PMID: 25308352; PubMed Central PMCID: PMC4330509.
13. Schallmo MP, Kassel MT, Weisenbach SL, Walker SJ, Guidotti-Breting LM, Rao JA, Hazlett KE, Considine CM, Sethi G, Vats N, **Peciña M**, Welsh RC, Starkman MN, Giordani B, Langenecker SA. A new semantic list learning task to probe functioning of the Papez circuit. *J Clin Exp Neuropsychol*. 2015;37(8):816-33. doi: 10.1080/13803395.2015.1052732. PubMed PMID: 26313512; PubMed Central PMCID: PMC5065919.
14. Martikainen IK, Nuechterlein EB, **Peciña M**, Love TM, Cummiford CM, Green CR, Stohler CS, Zubieta JK. Chronic Back Pain Is Associated with Alterations in Dopamine Neurotransmission in the Ventral Striatum. *J Neurosci*. 2015 Jul 8;35(27):9957-65. doi: 10.1523/JNEUROSCI.4605-14.2015. PubMed PMID: 26156996; PubMed Central PMCID: PMC4495244.
15. **Peciña M**, Bohnert AS, Sikora M, Avery ET, Langenecker SA, Mickey BJ, Zubieta JK. Association Between Placebo-Activated Neural Systems and Antidepressant Responses: Neurochemistry of Placebo Effects in Major Depression. *JAMA Psychiatry*. 2015 Nov;72(11):1087-94. doi: 10.1001/jamapsychiatry.2015.1335. PubMed PMID: 26421634; PubMed Central PMCID: PMC4758856.
16. Sikora M, Heffernan J, Avery ET, Mickey BJ, Zubieta JK, **Peciña M**. Salience Network Functional Connectivity Predicts Placebo Effects in Major Depression. *Biol Psychiatry Cogn Neurosci Neuroimaging*. 2016 Jan;1(1):68-76. PubMed PMID: 26709390; PubMed Central PMCID: PMC4689203.

17. Jacobs RH, Barba A, Gowins JR, Klumpp H, Jenkins LM, Mickey BJ, Ajilore O, **Peciña M**, Sikora M, Ryan KA, Hsu DT, Welsh RC, Zubieta JK, Phan KL, Langenecker SA. Decoupling of the amygdala to other salience network regions in adolescent-onset recurrent major depressive disorder. *Psychol Med*. 2016 Apr;46(5):1055-67. doi: 10.1017/S0033291715002615. Epub 2016 Jan 20. PubMed PMID: 26784396; PubMed Central PMCID: PMC4810773.
18. Kassel MT, Rao JA, Walker SJ, Briceño EM, Gabriel LB, Weldon AL, Avery ET, Haase BD, **Peciña M**, Considine CM, Noll DC, Bieliauskas LA, Starkman MN, Zubieta JK, Welsh RC, Giordani B, Weisenbach SL, Langenecker SA. Decreased Fronto-Limbic Activation and Disrupted Semantic-Cued List Learning in Major Depressive Disorder. *J Int Neuropsychol Soc*. 2016 Apr;22(4):412-25. doi: 10.1017/S1355617716000023. Epub 2016 Feb 2. PubMed PMID: 26831638; PubMed Central PMCID: PMC4856469.
19. Romero M, Aguilar JM, Del-Rey-Mejias A, Mayoral F, Rapado M, **Peciña M**, Barbancho MA, Ruiz-Veguilla M, Lara JP. Psychiatric comorbidities in autism spectrum disorder: A comparative study between DSM-IV-TR and DSM-5 diagnosis. *International journal of clinical and health psychology: IJCHP*. 2016 Sep-Dec;16(3):266-275. doi: 10.1016/j.ijchp.2016.03.001. Epub 2016 Jun 3. PMID: 30487870; PMCID: PMC6225088.
20. Mickey BJ, Heffernan J, Heisel C, **Peciña M**, Hsu DT, Zubieta JK, Love TM. Oxytocin modulates hemodynamic responses to monetary incentives in humans. *Psychopharmacology (Berl)*. 2016 Dec;233(23-24):3905-3919. Epub 2016 Sep 10. PubMed PMID: 27614896; PubMed Central PMCID: PMC5106343.
21. **Peciña M**, Sikora M, Avery ET, Heffernan J, Peciña S, Mickey BJ, Zubieta JK. Striatal dopamine D2/3 receptor-mediated neurotransmission in major depression: Implications for anhedonia, anxiety and treatment response. *Eur Neuropsychopharmacol*. 2017 Oct;27(10):977-986. doi: 10.1016/j.euroneuro.2017.08.427. Epub 2017 Sep 1. PubMed PMID: 28870407; PubMed Central PMCID: PMC5623119.
22. Wilson RP, Colizzi M, Bossong MG, Allen P, Kempton M; MTAC., Abe N, Barros-Loscertales AR, Bayer J, Beck A, Bjork J, Boecker R, Bustamante JC, Choi JS, Delmonte S, Dillon D, Figeo M, Garavan H, Hagele C, Hermans EJ; ICCAM Consortium., Ikeda Y, Kappel V, Kaufmann C, Lamm C, Lammertz SE, Li Y, Murphy A, Nestor L, **Peciña M**, Pfabigan D, Pizzagalli D, Rademacher L, Roeo A, Sommer T, Stark R, Suzuki H, Van Amelsvoort T, Van Hell E, Vink M, Votinov M, Wotruba D, Bhattacharyya S. The Neural Substrate of Reward Anticipation in Health: A Meta-Analysis of fMRI Findings in the Monetary Incentive Delay Task. *Neuropsychol Rev*. 2018 Sep 25. doi: 10.1007/s11065-018-9385-5. Review. PubMed PMID: 30255220; PubMed Central PMCID: PMC6310672.
23. **Peciña M**, Heffernan J, Wilson J, Zubieta JK, Dombrowski AY. Prefrontal expectancy and reinforcement-driven antidepressant placebo effects. *Transl Psychiatry*. 2018 Oct 15;8(1):222. doi: 10.1038/s41398-018-0263-y. PMID: 30323205; PubMed Central PMCID: PMC6189213.
24. Lin C, Karim HT, **Peciña M**, Aizenstein H, Lenze EJ, Blumberger DM, Mulsant B, Kharasch ED, Reynolds III CF, Karp JK. Low-dose augmentation with buprenorphine increases emotional reactivity but not reward activity in treatment resistant mid- and late-life depression. *Neuroimage: Clinical*. 2019; 21:101679. doi: 10.1016/j.nicl.2019.101679. PMID: 30685701; PubMed Central PMCID: PMC6356006.

25. Stahl S., Jung C., Weiner D.K., **Peciña M.**, Karp J.F. Opioid Exposure Negatively Affects Antidepressant Response to Venlafaxine in Older Adults with Chronic Low Back Pain and Depression. *Pain Med.* 2019 Oct 21. pii: pnz279. doi: 10.1093/pm/pnz279. [Epub ahead of print].
26. Chen J.\* , Mizuno A.\* , Lyew T., Karim H., Karp J.F., Dombrovski A.Y., **Peciña M.** Naltrexone Modulates Contextual Processing in Depression. *Neuropsychopharmacol.* (2020). <https://doi.org/10.1038/s41386-020-00809-2>.  
\* Equal contributions.
27. **Peciña M.**, Chen J., Lyew T., Karp J.F., Dombrovski A.Y.  $\mu$ -Opioid antagonist naltrexone partially abolishes the antidepressant placebo effect and reduces OFC encoding of reinforcement. *Biol Psychiatry Cogn Neurosci Neuroimaging.* 2021 Mar 6;S2451-9022(21)00055-0. doi: 10.1016/j.bpsc.2021.02.009. Online ahead of print.
28. Evans K., Colloca L., **Peciña M.**, Katz N. What can be done to control the placebo response in clinical trials?: A narrative review. *Contemp Clin Trials.* 2021 Aug; 107: 106503. Published online 2021 Jul 6. doi: 10.1016/j.cct.2021.106503
29. Gerlach A.R.; Karim H.T.; **Peciña M.**; Ajilore O.; Taylor W.; Butters M.A. MRI Predictors of Pharmacotherapy Response in Major Depressive Disorder (in press *Neuroimage Clinical*).
30. **Peciña M.**, Chen J., Karp J.F., Dombrovski A.Y. Dynamic Feedback Between Antidepressant Placebo Expectancies and Mood are Encoded in the Dorsal Attention and Salience Networks. *JAMA Psychiatry*, 2023 Apr 1;80(4):389-398. PMID: 36857039, PMCID: PMC9979016.

## 2. OTHER PEER REVIEWED PUBLICATIONS:

1. **Peciña M.**, Zubieta JK. Over a decade of neuroimaging studies of placebo analgesia in humans: what is next? *Mol Psychiatry.* 2015 Apr;20(4):415. doi: 10.1038/mp.2015.33. PubMed PMID: 25798855.
2. **Peciña M.**, Zubieta JK. Molecular mechanisms of placebo responses in humans. *Mol Psychiatry.* 2015 Apr;20(4):416-23. doi: 10.1038/mp.2014.164. Epub 2014 Dec 16. Review. PubMed PMID: 25510510; PubMed Central PMCID: PMC4372496.
3. **Peciña M.**, Zubieta JK. Expectancy Modulation of Opioid Neurotransmission. *Int Rev Neurobiol.* 2018; 138:17-37. doi: 10.1016/bs.irn.2018.02.003. Epub 2018 Apr 2. PubMed PMID: 29681324.
4. **Peciña M.**, Karp JF, Mathew S, Todtenkopf MS, Ehrich EW, Zubieta JK. Endogenous opioid system dysregulation in depression: implications for new therapeutic approaches. *Mol Psychiatry.* 2019 Apr;24(4):576-587. Epub 2018 Jun 28. PubMed PMID: 29955162.
5. Brown V, **Peciña M.** Neuroimaging Studies of Antidepressant Placebo Effects: Challenges and Opportunities. *Front Psychiatry.* 2019 Sep 24;10:669. doi: 10.3389/fpsy.2019.00669. eCollection 2019.
6. **Peciña M.**, Dombrovski A.Y., Price R., Karim H. Neurocomputational Mechanisms of

Antidepressant Placebo Effects. *J Psychiatry Brain Sci.* 2021;6: Published online 2021 Feb 15. doi: [10.20900/jpbs.20210001](https://doi.org/10.20900/jpbs.20210001). PubMed Central PMCID: PMC7963355.

### **3. PUBLICATIONS UNDER REVIEW:**

1. Martikainen, I.K., Nuechterlein E.B., **Peciña, M.**, Love T.L., Kaplan, C.; Green C., Stohler, C.S., Zubieta J.K. Pain expectation paradoxically enhances dopamine release in the nucleus accumbens and is associated with dysregulation of pain modulatory mechanisms in back pain patients.
2. Lin Z., Agabio R., Lopez-Pelayo H., Bruguera P., Huang SY., **Marta Pecina**, Krupitsky EM., Fitzmaurice GM. Baseline and placebo double-controlled pharmacoefficacy for alcohol use disorder per studies during 1979~2023.
3. Mary L. Woody, PhD; Rebecca Rohac, BS; Iya Cooper, BS; Angela Griffo, BS; Nastasia McDonald, BS; Jay Fournier, PhD; Neil Jones, PhD; **Marta Peciña**, MD; Kymberly Young, PhD; Ben Grafton, PhD; Rebecca B. Price, PhD. The Impact of Intravenous Ketamine on Attentional Bias: Probing Mechanisms of Rapid-Acting Antidepressant Effects.
4. Handoko K., Neppach A., Karim H.T.1,2, Dombrovski A.Y., **Peciña M.** Mechanisms of long-term antidepressant placebo effects.

### **4. BOOKS, BOOK CHAPTERS AND MONOGRAPHS**

1. Lecciones de Psiquiatría (Psychiatry Lectures). Chapter 7: Tratamiento de Trastornos Afectivos (Mood Disorders Treatment). Figueroa A., Sarraís F., **Peciña M.**, Soutullo C. Co-Editors: Ortuño F, Pla J, Schlatter J, Soutullo C, Cano A, Sarraís F, Zapata R. Lecciones de Psiquiatría, 5º Curso de Medicina. Departamento de Psiquiatría y Psicología Médica. Clínica Universidad de Navarra, Universidad de Navarra. Sept. 2005. D.L. NA-2537/2006.
2. **Peciña M.** & Zubieta J.K. (2013). Molecular Mechanisms of Placebo Responses In Humans: Pain and Placebo. Colloca L., Magne Arve Flaten and Karin Meissner. Eds. Elsevier.
3. Colloca L, Seneviratne C, Noel J, Franklin PD, eds. Placebo Effects Through the Lens of Translational Research. 1<sup>st</sup> ed. New York, NY: Oxford University Press; 2023.
  - 3.a. Alter B., Leibowitz K., Crum A., **Peciña, M.** New Translational Opportunities for Placebo Research.
  - 3.b. Yetman H., **Peciña M.**, Tiwari A., Vollert J., and Hall K. Molecular Mechanisms of Placebo Response: From Genes to Pathways.

### **5. PUBLISHED ABSTRACTS**

1. Mickey B., Zhou Z., Hsu D., Langenecker A., Love T., **Peciña M.**, Shafir T., Hodgkinson C., Goldman D., Zubieta J.K. Neural responses to Affective Stimuli are modulated by NPY genotype. SOBP 65th Annual Meeting (New Orleans, LA, March 2010).

2. **Peciña M.**, Mickey B., Hsu D., Shafir T., Shen P., Wright S., Langenecker S., Goldman D., Zubieta J.K., D2/D3 receptor polymorphisms predict amygdala and subgenual cingulated reactivity to positive and negative emotional stimuli. Society of Biological Psychiatry 65th Annual Meeting (New Orleans, LA, March 2010).
3. **Peciña M.**, Mickey B., Wang H., Shen P., Love T., Shafir T., Goldman D., Zubieta J.K., DRD2 polymorphisms predicts individual differences in DLPFC during a reward anticipation task. Human Brain Mapping Annual Meeting (Barcelona, Spain, June 2010).
4. Hsu D., Mickey B, Langenecker S., Heitzeg M., Love T., Wang H., Kennedy S., **Peciña M.**, Shafir T., Hodgkinson C, Enoch M-A., Goldman D., Zubieta J.K. Blood-Oxygenation-Level Dependent Signal Responses to Emotional Stimuli Depend on Variations in rs110402 within the Corticotropin-Releasing Hormone Receptor Gene. ACNP Annual Meeting (Hollywood, FL, December 2010).
5. **Peciña M.**, Mickey B., Wang H., Love T., Shen P.J., Langenecker S., Hsu D., Shafir T., Villafuerte S., Wright S., Goldman D., Zubieta J.K. Dopamine D2 Receptor Polymorphism Modulates Prefrontal Function and Connectivity During Reward and Emotion Processing. ACNP Annual Meeting (Hollywood, FL, December 2010).
6. Walker S.J., Kassel M.T., Wright S.L., **Peciña M.**, Considine C.M., Noll D.C., Zubieta J.K., Langenecker S.A. Learning and memory differences among women with and without major depressive disorder. Society for Biological Psychiatry Annual Meeting (San Francisco, CA, May 2011).
7. Kassel M.T, Walker S.J., Wright S.L., Haase B.D., **Peciña M.**, Considine C.M., Noll D.C., Zubieta J.K., Langenecker S.A. Learning Task in Women with and without Major Depressive Disorder: Differential Impact of Distraction in Serial Position Curves with the Semantic List. International Neuropsychological Society Annual Meeting (Montreal, Canada, February 2012).
8. Weisenbach S.L., Haase B., Kassel M., **Peciña M.**, Heidebrink J.L., Zubieta J.K., Kales H.C., Langenecker S.A. Hippocampal Activation Abnormalities during Verbal Encoding Among Patients with Geriatric Depression. American Association of Geriatric Psychiatry Annual Meeting (Washington DC, March 2012).
9. Sikora M., **Peciña M.**, Avery E., Diaz V., Zubieta J.K. Prepronociceptin Polymorphisms Predict Inter-individual Variability in Placebo-Induced Opioid Release. Society for Neuroscience Annual Meeting (New Orleans, LA, October 2012).
10. **Peciña M.**, Sikora M., Avery E., Diaz V., Dampier C., Angers K., Zubieta J.K. The Molecular Neuroanatomy of Placebo effects in Major Depression. Society for Biological Psychiatry Annual Meeting (San Francisco, CA, May 2013).
11. Pruitt P., **Peciña M.**, Stern E., Love T., Mickey B., Avery E., Diaz V., Weisenbach S., Zubieta J.K. Neural response to uncertainty as a predictor of placebo effect in depression. Society for Biological Psychiatry Annual Meeting (San Francisco, CA, May 2013).
12. **Peciña M.**, Love T., Hodgkinson C., Stohler C., Goldman D. and Zubieta J.K. *MOPR1* A118G and the Regulation of Stress Responses. ACNP Annual Meeting (Hollywood, FL, December 2013).

13. Biomarkers of Antidepressant Treatment Outcome. Speaker at Symposium: World Psychiatry Congress Annual Meeting (Madrid, Spain, September 2014).
14. Speaker in Symposium: *Neurobiology of Illness Risk, Treatment Response and Outcomes in Major Depression*. SOBP Annual Meeting (New York, NY, May 2014).
15. Sikora M., **Peciña M.**, Avery E., Zubieta J.K. Effect of Placebo Administration on Resting State in Major Depression. Society for Biological Psychiatry Annual Meeting (New York, NY, May 2014).
16. **Peciña M.**, Chang K., Avery E., Heffernan J., Sikora M., Mickey B., Zubieta J.K. Clinical Implications of Ventral Striatum Dopamine Receptor Binding in Major Depression. ACNP Annual Meeting (Phoenix, AZ, December 2014).
17. Love T., Heffernan, J., Mickey, B., Heisel C., **Peciña M.**, Hsu D.T., Zubieta J.K. Oxytocin Administration Modulates Non-Social Reward Networks. ACNP Annual Meeting (Phoenix, AZ, December 2014).
18. **Peciña M.**, Bohnert A., Sikora M., Avery E., Langenecker S., Mickey B., Zubieta J.K. Placebo-Activated Neural Systems are Linked to Antidepressant Responses. International Society of Clinical Trial Methodology (Washington DC, February 2015).
19. Heffernan J., Avery E., Chang E., Love T., Zubieta J.K., **Peciña M.** The Neural Correlates of Expectations of Fast-acting Antidepressant Effects in Patients with Major Depression. Society for Biological Psychiatry Annual Meeting (Toronto, Canada, May 2015).
20. Pruitt P., **Peciña M.**, Love T., Mickey B., Avery E., Diaz V., Zubieta J.K. Anticipatory Incentive Response, mu-opioid receptors and antidepressant treatment response. Society for Biological Psychiatry Annual Meeting (Toronto, Canada, May 2015).
21. **Peciña M.**, Heffernan J., Avery E., Villalobos K., Chang E. Dissecting the Neural Signature of Placebo Effects in Major Depression. Society for Biological Psychiatry Annual Meeting (Atlanta, USA, May 2016).
22. **Peciña M.**, Heffernan J., Avery E., Villalobos K. Placebo-Induced Changes in Peripheral Levels of Beta-Endorphins are Associated with the Neural Representation of Placebo Responses. ACNP Annual Meeting (Hollywood, FL, USA, May 2016).
23. Weisenback S., Pruitt P., **Peciña M.**, Sikora M., Love T., Avery E., Zubieta J.K. Multimodal Assessment of the Positive Valence Network in Major Depressive Disorder. ACNP Annual Meeting (Hollywood, FL, USA, May 2016).
24. **Peciña M.**, Burghardt P., Avery E., Heffernan J., Mickey B., Zubieta J.K. Inflammation, Striatal Dopamine Receptor Binding and Anhedonia in Major Depression. American Society of Clinical Investigation (Chicago, IL, USA, April 2017).
25. **Peciña M.**, Heffernan J., Avery E., Villalobos K., Wilson J., Aizenstein H., Dombrowski A.Y. Internal and External Expectancies Shape Placebo-Induce Activation of the Salience Network in Depression. SOBP Annual Meeting (San Diego, CA, May 2017).

26. **Peciña M.**, Lyew T., Wilson J., Karp J., Dombrovski A.Y. Expectancies and Reinforcement Manipulations of Mood Improvement. SOBP Annual Meeting (New York City, NY, May 2018).
27. **Peciña M.**, Chen J., Lyew T., Karp J., Dombrovski A.Y. Neurocomputational Mechanisms of Antidepressant Placebo Effects. ACNP (Hollywood, FL, Dec 2019).
28. **Peciña M.**, Chen J., Lyew T., Karp J., Dombrovski A.Y. mu-Opioid Blockade reduces Antidepressant Placebo Effects by Disrupting Cortico-Striato-Thalamic Encoding of Reinforcement. SOBP Annual Meeting (New York City, NY, May 2019).
29. Chen J., Mizuno A., Lyew T., Karim H., Karp J., **Peciña M.** Neural correlates of Naltrexone-induced Blockade of Contextual Effects on Emotion Perception. SOBP Annual Meeting (New York City, NY, May 2019, DOI:10.13140/RG.2.2.24541.46569).
30. **Peciña M.** Neurocomputational Mechanisms of Antidepressant Placebo effects. ACNP Annual Meeting (Mini-Panel, Orlando, FL, Dec 2019).
31. **Peciña M.**, Lyew T., Chen J., Karp J., Dombrovski A.Y.: Neural Correlates of Antidepressant Expectancies Positively Moderate Antidepressant Treatment Response to Placebo but Not Escitalopram in Major Depression. SOBP Annual Meeting (NYC, May 2020).
32. **Peciña M.**, Chen J., Lyew T., Karp J., Dombrovski A.Y. Neural Antidepressant Expectancies Moderate Antidepressant Treatment Response in Major Depression. ACNP (Virtual, Dec 2020).
33. Workshop Presenter: Translational Implications of Placebo Research. Society of Interdisciplinary Placebo Studies (Virtual/Baltimore, May 2021).
34. Workshop Presenter: Molecular Mechanisms of Placebo Response: From Genes to Pathways. Society of Interdisciplinary Placebo Studies (Virtual/Baltimore, May 2021).
35. Poster Presentation: "Impaired Amygdala Reactivity to Social Cues Predicts Self-Reported Loneliness." **Peciña M.**, Karim H., Melhem N., Dombrovski A. Society SOBP 2022 Annual Meeting, April 28 – 30, 2022 in New Orleans, Louisiana.
36. Poster Presentation: "Mu-Opioid Blockade Blunts Neural Responses to Pleasant Contextual Cues through Decoupling of Prefrontal and Anterior Insula Connectivity". Kukor C., Karim H., Dombrovski A., **Peciña M.** SOBP 2022 Annual Meeting, April 28 – 30, 2022 in New Orleans, Louisiana.
37. Poster Presentation: "Continuous Theta Burst Stimulation of the Ventromedial Prefrontal Cortex Potentiates Placebo-Induced Antidepressant Expectancies: A Pilot Study" Achitoo M., Neppach A., Karim H., Price R., Dombrovski A., **Peciña M.** SOBP 2022 Annual Meeting, April 28 – 30, 2022 in New Orleans, Louisiana.

## 6. **ABSTRACTS (not published in Scientific Journals)**

1. Figueroa A., Díez A., **Peciña M.**, Maestro C., Soutullo C. Cognitive function in ADHD early diagnosis. X Spanish Psychiatry National Meeting (Seville, Spain, October 2006).

2. **Peciña M.**, Figueroa A., Maestro C., Pla J. Late life depression: Clinical and neuropsychological differences between late and early onset. X Spanish Psychiatry National Meeting (Sevilla, Spain, October 2006).
3. **Peciña M.**, Figueroa A., Maestro C., Pla J. Vascular depression: association between cardiovascular risk and executive dysfunction. X Spanish Psychiatry National Meeting (Sevilla, Spain, October 2006).
4. Schlatter J., Ortuño F., Pla J., Rodríguez T., **Peciña M.**, Cervera S. Biological markers of depression: The immune system. X Spanish Psychiatry National Meeting (Sevilla, Spain, October 2006).
5. **Peciña M.**, Schlatter J., Sepulcre J., Yllanes J.D., Pla J., Zubieta J.L. Effect of Chronic Depression on OFC gray matter volume. XI Spanish Psychiatry National Meeting (Santiago de Compostela, Spain, October 2007).
6. Altered Cortisol Response to Alprazolam in Patients with Depression. Invited Speaker at Symposium at Vasco-Navarra Psychiatry Society Meeting (La Guardia, Spain, November 2007).
7. De Castro P., Soutullo C., Ortuño F., **Peciña M.**, Gimenez Amaya JM., Mechelli A., McGuire P. Volumetric changes in adolescents with first psychosis episode. Child Psychiatry Spanish National Meeting (Valencia, Spain, March 2008).
8. **Peciña M.**, Schlatter J., Sepulcre J., Pla J., De Castro P., Ortuño F. Structural neuroimage changes in depression: a voxel-based morphometry study. XII Spanish Psychiatry National Meeting (Valencia, Spain, November 2008).
9. **Peciña M.**, Schlatter J., Sepulcre J., Pla J. Grey matter atrophy and psychopathology symptoms in long- and short-term depression. VII Psychiatry Residents Spanish National Meeting (Palma de Mallorca, Spain, February 2009).
10. Gray Matter Atrophy Correlates of Affective and Cognitive Symptoms in Long- and Short-Term Depression. Speaker at Symposium at VII National Meeting for Residents in Psychiatry (Palma de Mallorca, Spain, February 2009).
11. **Peciña M.**, Avery E., Heffernan J., Sikora M., Mickey B., Zubieta J.K. Imaging Striatal D2/3 Receptors in Major Depression: Implications for Treatment Response. National Network of Depression Centers Annual Conference (Ann Arbor, Michigan, November 2015).
12. Handoko K., Karim H., Neppach A., Karp J.F., Dombrovski A.Y., **Peciña M.** *Dorsal attention network responses to antidepressant expectancies differentially predict placebo effects in a randomized control trial* (WPIC Research Day, University of Pittsburgh, Pittsburgh, June 2023).
13. Neppach A., Handoko K., Karim H., Price R., Ferrarelli F., Dombrovski A.Y., **Peciña M.** *Dmpfc Causal Modulation of Antidepressant Expectancies* (WPIC Research Day, University of Pittsburgh, Pittsburgh, June 2023).
14. Miller O., Neppach A., Handoko K., Melhem N., Karp J.F., Dombrovski A.Y., **Peciña M.**

*Impaired amygdala reactivity to social cues predicts risk for suicide in depression* (WPIC Research Day, University of Pittsburgh, Pittsburgh, June 2023).

15. Prassanna T., Handoko K., Neppach A., Karp J.F., Dombrovski A.Y., **Peciña M.**  
*Subjective beliefs moderate antidepressant treatment response in depression* (WPIC Research Day, University of Pittsburgh, Pittsburgh, June 2023).

**PROFESSIONAL ACTIVITIES**

**TEACHING**

**Medical Teaching Education**

Dates	Role	Title of Teaching Session	Type of Learner	# of Learners	# sessions/year
2005-2009 UNav	Resident	Psychiatry Clerkship	M3-M4	4	One 6-week sessions per student 1h/year
2009 UNav	Lecturer	Introduction to Psychiatry	M3	~120	1h/year
2014 UMich	Co-Mentor	UMMS Student Biomedical Research Program	M4	Christopher Dampier	8-week lab rotation
2016 UMich	Co-Mentor	UMMS Student Biomedical Research Program	M4	Katherine Heckman	8-week lab rotation
2017-2020 UPitt	Small Group Facilitator	Introduction to Psychiatry	M1	16	1 h/year
2017-present UPitt	Small Group Facilitator	Behavioral Medicine	M1	16	1 h/year
2020-present UPitt	Course Director	Behavioral Medicine	M1	120	1 course/year
2019-2020 UPitt	Advisor	Physician Scientist Incubator Program	M1-M5	1	1h/quarterly
2020-present UPitt	Faculty	Medical Scientist Training Program	M3-M4	N/A	N/A

**Graduate Student Teaching**

Dates	Role	Title of Teaching Session	Type of Learner	# of Learners	# sessions/year
2013 UMich	Co-Mentor	Psychiatry Clerkship	International PhD	Mercedes Martinez-	12 weeks lab rotation

2011-2015 UMich	Co-Mentor	Introduction to Psychiatry	Candidate PhD	Jauand Magdalena	Lab
2012-2016 UMich	Co-Mentor	Introduction to Psychiatry	Candidate PhD	Sikora Patrick Pruitt	Lab
2021-present UPitt	Faculty	Center for Neuroscience	Candidate PhD	N/A	N/A
2021-present UPitt	Faculty/Mode rator	Center for Neuroscience	Candidate PhD	14	15 1-hour JC presentation

**Resident Teaching**

Dates	Role	Title of Teaching Session	Type of Learner	# of Learners	# sessions/year
2005-2009 UNav	Lecturer	Neuroscience Curriculum	PGY1-3	Approx. 10	1h
2016-present UPitt	Lecturer	Neuroscience Curriculum	PGY3	10	1h

**Fellow Teaching**

Dates	Role	Title of Teaching Session	Type of Learner	# of Learners	# sessions/year
2014 & 2015 UMich	Lecturer	Pain Fellowship	Pain Fellowship	Approx. 10	1h

**Undergraduate Student Mentoring**

Dates	Role	Title of Teaching Session	Type of Learner	# of Learners	# sessions/year
2010-16 UMich	Co-Mentor	Lab procedures	Research Assistant	Erich Avery	Full-time
2010-2012 UMich	Co-Mentor	Lab procedures	Research Assistant	Veronica Diaz	Full-time
2013 UMich	Co-Mentor	Lab procedures	Research Assistant	Kaley Angers	Full-time
2012-2014 UMich	Co-Mentor	Lab procedures	Research Assistant	Evan Chang	Full-time
2014 UMich	Co-Mentor	Lab procedures	Research Assistant	Katie Chang	Full-time
2015 UMich	Mentor	Lab procedures	Research Assistant	Kristen Villalobos	Full-time
2016-2020 UPitt	Faculty Advisor	Yes Plus Club	Undergraduate Student	4	1h/quarterly
2017-2021 UPitt	Manager	Lab procedures	Research Study Coordinator	Thandi Lyew	Full-time
2017 UPitt	Mentor	Lab procedures	Undergraduate Student	Erin Grayhack	Lab rotation

2018-2019 UPitt	Mentor	Lab procedures	Undergraduate Student	Rachel Ward	Lab rotation
2018-2020 UPitt	Mentor	Lab procedures	Undergraduate Student	Isabella Lao	Lab rotation
2018-2020 UPitt	Manager	Lab procedures	Research Programmer	Jiazhou Chen	Part-time
2018-present UPitt	Mentor	Lab procedures	Undergraduate Student	Mia Achitov	Lab rotation
2020-present UPitt	Mentor	Lab procedures	Undergraduate Student	Camille Kukor	Lab rotation
2020-2021 UPitt	Manager	Lab procedures	Research Assistant	Lauren Grice	Full-time
2020-present UPitt	Manager	Lab procedures	Research Study Coordinator	Alyssa Neppach	Full-time
2021-2022 UPitt	Mentor	Lab procedures	Research Assistant	Bhavesh Koppala	Part-time
2021-2022 UPitt	Mentor	Lab procedures	Research Assistant	Pranjali Rajalakshmi	Part-time
2021-2022 UPitt	Mentor	Lab procedures	Research Assistant	Kylee Guarino	Part-time
2022-present UPitt	Mentor	Lab procedures	Research Assistant	Gaurav Badhan	Full-time
2022-present UPitt	Mentor	Lab procedures	Research Assistant	Olivia Miller	Part-time
2022-present UPitt	Mentor	Lab procedures	Research Assistant	Tejas Prassana	Part-time
2022-present UPitt	Manager	Lab procedures	Research Assistant	Kevin Handoko	Full-time
2023 UPitt – CNUP Undergraduate Research Program	Mentor	Research procedures	Student	Kelsey Cadahia	Full-time
2023-present UPitt	Manager	Lab procedures	Data Scientist	Ian Snyder	Full-time
2023-present UPitt Neurosc	Mentor	Lab procedures	Research Assistant	Lydia Boyce	Part-time
2023-present UPitt Neurosc	Mentor	Lab procedures	Research Assistant	Alice Kosterin	Part-time
2023-present UPitt Neurosc	Mentor	Lab procedures	Research Assistant	Sai Guntaka	Part-time

202-p3present UPitt Neurosc	Mentor	Lab procedures	Research Assistant	Tanvi Deepesh	Part-time
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**Master Students and Post-doctoral Fellows Mentoring**

<b>Dates</b>	<b>Role</b>	<b>Title of Teaching Session</b>	<b>Type of Learner</b>	<b># of Learners</b>	<b># sessions/year</b>
2012-2014 UMich	Mentor	Research procedures	Postdoc	Ilkka Martikainen	2h/week
2015 UMich	Mentor	Research procedures	Masters Student	Ying Jiang	2h/week
2016-2020 UPitt	Mentor	Research procedures	Postdoc	Helmet Karim	2h/week
2016-2020 UPitt	Mentor	Research procedures	Postdoc	Akiko Mizuno	2h/week
2018-present UPitt	Faculty	Center for the Neural Bases of Cognition	Postdoc	N/A	N/A
2020-present UPitt	Faculty	Bioengineering Psychiatry Training Program	Postdoc	N/A	N/A

**High-School Teaching**

<b>Dates</b>	<b>Role</b>	<b>Title of Teaching Session</b>	<b>Type of Learner</b>	<b># of Learners</b>	<b># sessions/year</b>
2019-2021 UPitt	Mentor	Research procedures	High School Student	Emelyn Juenger	1h/week

**Dissertations Committees**

Mercedes Martinez- Jauand, PhD

“Genetic and psychosocial factors involved in the modulation of pain”  
Neuroscience Graduate Program, University of Balearic Islands, Spain, 2013

Marina Romero Gonzalez, PhD

Title: “Health and Socio-Educational Implications in the Implementation of DSM-5 Criteria for the Autistic Spectrum Disorder”  
Program: Neuroscience Graduate Program, Carlos Haya Hospital, Spain, 2014

Leslie Young Espinoza, MD PhD

Title: “Genetic, Cognitive and Neural Markers of Schizophrenia: A COMT Val158Met Study”  
Program: Neuroscience Graduate Program, University of Navarra, Spain, 2015

Magdalena Sikora, PhD

Title: “An Investigation into the Neurobiology of Treatment Response in patients with Major Depression: The Placebo Effect”  
Program: Neuroscience Graduate Program, University of Michigan, Ann Arbor, 2015

**RESEARCH**

**CURRENT GRANT SUPPORT**

<b>Grant Number</b>	<b>Grant Title</b>	<b>Role</b>	<b>YEARS</b>	<b>Source \$ Amount</b>
R01 MH122548	<i>Neurocomputational Mechanisms of Antidepressant Placebo Effects.</i>	PI: 75% 9 CM	04/01/2020- 03/31/2025	Source: \$2,450,454 Direct: \$1,551,664 Indirect: \$898,790
2 R01 MH108039 PI: Nadine Melhem	<i>Neuroinflammation and Stress Response in Familial and Nonfamilial Youth Suicidal Behavior.</i>	Co-I: 2.5% 0.3 CM	09/01/2021- 08/31/2026	\$25,000
1R01MH135488 PI: Pecina, Melhem, Auerbach	<i>Identifying Interpersonal and Biopsychosocial Risk Factors for Adolescent Suicidal Behavior</i>	MPI: 15% 1.8 CM	12/01/2023- 11/31/2028	\$9,277,317
Momentum Funds UPitt	<i>Examining Psychosocial Correlates of Loneliness Among Marginalized Youth</i>	Co-I: 0 % 0 CM	9/1/2023- 8/31/2024	\$200,000

**PENDING GRANT SUPPORT**

<b>Grant Number</b>	<b>Grant Title</b>	<b>Role</b>	<b>YEARS</b>	<b>Source \$ Amount</b>
NIMH	<i>Dissecting Antidepressant Placebo Expectancy-Mood Dynamics</i>	PI: 6 CM	09/01/2024 – 09/31/2029	N/A

**PAST GRANT SUPPORT**

<b>Grant Number</b>	<b>Grant Title</b>	<b>Role</b>	<b>YEARS</b>	<b>Source \$ Amount</b>
Anesthesia Seed Grant PI: Benedict Alter	<i>Cortical Mechanisms Underlying the Bidirectional Modulation of Pain Intensity.</i>	Co-I: 0 CM	03/01/2022- 03/31/2023	\$8,000

Constellation of Emerging and Rising Stars Program, Department of Psychiatry. PI: Rebecca Price	<i>Depression Constellation</i>	Co-I: 0% 0 CM	04/01/2021-03/31/2023	\$150,000
714095 American Foundation of Suicide Prevention PI: Nadine Melhem	<i>Neuroinflammation and Imminent Risk for Suicidal Behavior in Young Adults</i>	Co-I: 2% 0.24 CM	03/01/2019-02/28/2022	\$11,000
MR2016-86253 The Pittsburgh Foundation	<i>Rising Star Award in Psychiatric Research</i>	PI: 0% 0 CM	01/11/2016-10/31/2019	\$300,000
23730: NARSAD Young Investigator Award	Title: <i>Placebo Effects in Major Depression: A pharmaco-fMRI intervention</i>	PI: 0% 0 CM	07/01/2016-07/01/2018	\$75,000
University of Michigan, Department of Psychiatry Pilot Funds	<i>Remission from Depression: Antidepressant or Placebo effect</i>	PI: 0 % 0 CM	03/01/13-06/30/16	\$50,000
R01 MH086858 PI: Jon-Kar Zubieta	<i>Predicting placebo responses across disease states</i>	Post-doctoral Fellow: 100%	09/16/09-07/31/14	\$1,242,525
R01 AT008243 PI: Daniel Claw	<i>Neurobiology of Placebo Effects in Fibromyalgia</i>	12 CM Co-I: 50 % 6 CM	08/01/14-06/30/16	\$127,644
21790 Distinguished Investigator Award PI: Jon-Kar Zubieta	<i>Molecular Mechanisms of Treatment Response in Major Depression</i>	Co-I: 20 % 2.4 CM	07/01/14-06/30/16	\$51,060
R01 MH102264 PI: David Hsu	<i>Endogenous Opioid Mechanisms for Rejection Sensitivity</i>	Co-I: 5 % 0.6 CM	08/01/15 - 06/30/16	\$6,382

**AD-HOC REVIEW**

**Journal Review**

Nicotine & Tobacco Research	2018- current
Journal of Psychopharmacology	2018- current
Experimental Gerontology	2018- current
American Journal of Psychiatry	2018- current
Science Translational Medicine	2018- current
Neuropsychologia	2018- current
Neuropsychopharmacology	2018- current
Molecular Psychiatry	2018- current
Neuroscience & Biobehavioral Reviews	2018- current
Journal of the Royal Society of Medicine	2017- current
Scientific Reports	2017- current
Biological Psychology	2017- current
Lancet Psychiatry	2016- current
Translational Psychiatry	2016- current
The Pharmacogenomics Journal	2016- current
NeuroImage: Clinical	2015- current
Anxiety, Stress & Coping	2015- current
JAMA Psychiatry	2015- current
Synapse	2015- current
Pain	2014- current
Pain Management	2014- current
The Journal of Pain	2014- current
The Journal of Neuroscience	2014- current
The Journal of Clinical Investigation	2014- current
Neuroscience	2013- current
Journal of Psychosomatic Research	2013- current
Neuropsychiatry	2013- current
Journal of Psychiatry and Neuroscience	2013- current
PLOSone	2013- current

Biological Psychiatry	2011- current
Schizophrenia Research	2009- current

**Study Section**

NIMH Initiative RFA-MH-24-120: Precision Mental Health: Develop Tools to Inform Treatment Selection in Depression	February, 2024
NIMH R25 Special Emphasis Panel—ZMH1 ERB-P (01)	September 2023
BRAIN K99 Special Emphasis Panel—ZMH1-ERB-P (02)	June, 2023
NIMH BRAINS Study Section	October, 2020
Early Career Reviewer Program, NIH	2019/20
Medical Research Council, UK	2018
University of Maryland, College Park, MD	2018
WPIC, Pittsburgh, PA	2016-present
Michigan Institute for Clinical & Health Research Pilot Grant Program, University of Michigan, Ann Arbor, MI	2015/16
National Science Center, Poland	2014

**LIST OF CURRENT RESEARCH INTEREST**

1. Neurobiology of Treatment Response: Placebo Effects
2. Neurobiology of Depression: Opioid and Dopamine Neurotransmission and Reward Learning
3. Implementation of Biomarkers of Treatment Response in Depression

**INVITED SEMINARS AND LECTURESHIPS**

**Local Presentations**

1. Invited Talk: DataBlitz. Neuroscience Graduate Program Retreat, University of Michigan (Detroit, MI, September 2015).
2. Invited Lecturer: Expectancy Modulation of Emotions: Implications for Treatment Response. Biological & Health Program, Department of Psychology, University of Pittsburgh (Pittsburgh, PA, November 2017).
3. Invited Lecturer: Treatment Expectancy Modulation of Pain and Emotion. Pittsburgh Center for Pain Research, University of Pittsburgh (Pittsburgh, PA, November 2017).
4. Researchers on the Rise Lecture: Dissecting the Neural Correlates of Antidepressant Placebo Effects. Department of Psychiatry, University of Pittsburgh (Pittsburgh, PA, February 2018).
5. Invited Lecturer, Psychosomatic Medicine Education Series: The Placebo Effect. Department

of Psychiatry, University of Pittsburgh (Pittsburgh, PA, February 2018).

6. Invited Lecturer – BioEngineering Seminar Series: Neuroimaging predictors of opioid modulation of antidepressant placebo effects. School of Medicine, University of Pittsburgh (Pittsburgh, PA, March 2022).
7. Invited Lecturer – MSTP/PSTP Seminar Series: Neuroimaging predictors of opioid modulation of antidepressant placebo effects. School of Medicine, University of Pittsburgh (Pittsburgh, PA, March 2022).

### **National Presentations**

1. Invited Talk: Genetic Variation and Multimodal Neuroimaging as a mean to explore Reward Endophenotypes: The Placebo Effect. Department of Radiology and Imaging Sciences, Emory University (Atlanta, GA, May 2011).
2. Invited Talk: Neuroimaging Predictors of Placebo Effects. Department of Psychiatry, Stony Brook University (Stony Brook, NY, January 2014)
3. Invited Talk: Molecular and Functional Mechanisms of Placebo Effects, MGH/HST Martinos Center for Biomedical Imaging & Program in Placebo Studies & Therapeutic Encounter, Beth Israel Deaconess Medical Center/Harvard Medical School (Boston, MA, October 2015).
4. Invited Talk: Molecular and Functional Mechanisms of Placebo Effects. Department of Psychiatry, University of Pittsburgh (Pittsburgh, PA, February 2016).
5. Invited Talk: Molecular and Functional Mechanisms of Placebo Effects. Department of Psychiatry, Stanford University (Palo Alto, CA, March 2016).
6. Panelist: From Learning Mechanisms to Expectancy Violation: Understanding Placebo and Nocebo Effects in Pain Research (Pain Research Forum Webinar, April 2017).
7. Presenter: Meet the PI Lecture. Department of Psychiatry, University of Pittsburgh (Pittsburgh, PA, December 2022).
8. Invited Talk: Psychiatry Department's Grand Rounds. Expectancy-mood dynamics in depression (Greer, South Carolina with Prisma Health and the University of South Carolina Greenville, February 2024).
9. Invited Talk: Expectancy-mood dynamics in depression. 2023-2024 Friedman Brain Institute Translational Neuroscience Seminar Series (Icahn School of Medicine at Mount Sinai, New York, June 2024).

### **International Presentations**

1. Invited Talk: Grand Rounds: Neuroimaging Biomarkers of Treatment Response: The Placebo Effect. Department of Psychiatry, University Clinical of Navarra (Pamplona, Spain, May 2015).
2. Oral Presentation: Internal and External Expectancies Shape Placebo-Induce Activation of the Salience Network in Depression. SOBP Annual Meeting (San Diego, CA, May 2017).
3. Oral Presentation: Expectancies and Reinforcement Manipulation of Mood Improvement.

SOBP Annual Meeting (NYC, May 2018).

4. Oral Presentation: Opioid-mediated mechanisms of Antidepressant Placebo Effects. Society of Interdisciplinary Placebo Studies (Leiden, July 2019).
5. Speaker at Symposium: “Novel Extensions of Computational Psychiatry to Decode Treatment Targets in Depression and Anxiety”. ACNP (Orlando, FL, Dec 2019).
6. Speaker at Plenary Session: Understanding Placebo and Nocebo Effects in Clinical Research. North American Neuromodulation Society Annual Meeting (Las Vegas, NV, Feb 2020).
7. Speaker at Plenary Session: The endogenous opioid system, depression, and pain. ACNP, Phenix, AZ, December 2022).
8. Oral Presentation: Dorsomedial prefrontal cortex causal modulation of antidepressant expectancies (SOBP, San Diego, CA, April 2023).
9. Invited Talk: CRC/TRR 289 “Treatment Expectation” Webinar Series. Expectancy-mood dynamics in depression (University of Duisburg-Essen, Germany, September 2023).

**PROFESSIONAL DEVELOPMENT ACTIVITIES**

2020 Leadership Academy for Early Career Faculty at the University of Pittsburgh.

**SERVICE**

**Committees**

Biological Psychiatry Membership Committee, Member	2016- 2019
Biological Psychiatry Travel Award Committee, Voting Member	2020- 2022
Biological Psychiatry Strategic Plan Task Force Service, Member	2020- 2021
ACNP Membership Advisory Task Force Service, Member	2020- 2023
ACNP Women’s Task Force Service, Member	2020- 2023
ACNP Program Committee, Member	2023-2025