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EDUCATION/TRAINING:

2018- present	Assistant Professor, College of Pharmacy, Department of Pharmacodynamics, University of Florida
2013 - 2018	Postdoctoral Fellow – NIDA, Baltimore, MD Advisor: Bruce T. Hope, Ph.D.
2013	Ph.D. Neuroscience – Florida State University, Tallahassee, FL Thesis Advisor: Carlos A. Bolaños-Guzmán, Ph.D.
2012	Summer Program in Neuroscience Ethics and Survival – Marine Biology Laboratory, Woods Hole, MA
2010	M.S. Biopsychology – Florida State University, Tallahassee, FL
2010	NeuroStereology Workshop – Marine Biology Laboratory, Woods Hole, MA
2008	B.Sc. Psychology – Florida State University, Tallahassee, FL

AWARDS AND HONORS:

2019	Travel Award, American College of Neuropsychopharmacology (ACNP).
2019	Travel Award, International Drug Abuse Research Society (IDARS).
2018	Travel Award, Federation of European Neuroscience Societies (FENS).
2017	Travel Award, Winter Conference on Brain Research (WCBR).
2016	Fellow's Award for Research Excellence, NIH Fellows Committee.
2015	Travel Award, International Brain Research Organization (IBRO).
2014	Ziskind-Somerfield Research Award Finalist.
2013	Russell and Eugenia Morcom award for Best Talk, Psychology Department, Florida State University.
2013	Jane West Award, Psychology Department, Florida State University.
2012&2013	Travel Award, International Behavioral Neuroscience Society (IBNS).
2012	Honorable Mention, Ford Foundation Dissertation Award.
2011	Graduate Research Scholarship, American Psychological Foundation.
2010	Travel Award, National Hispanic Science Network.
2008–2013	Congress of Graduate Students Conference Presentation Award.
2008	B.S. Psychology. Magna Cum Laude, Florida State University.
2005–2008	Dean's List, Florida State University.

GRANTS AND FELLOWSHIPS:

2019-2021	NARSAD Young Investigator Grant from the Brain and Behavior Research Foundation
2017-2022	“Neuronal Ensembles in extinction of cocaine seeking.” R00-DA042102
2012	Integrated Clinical Neuroscience Trainee, NIMH T32 Award.
2011	Summer Research Fellow, NIDA-Johns Hopkins Bayview Medical Center. Supervisors: Scott Hall, Ph.D. and George Uhl, M.D., Ph.D.
2009	Summer Research Fellow, Mount Sinai School of Medicine. Supervisor: Eric J. Nestler, M.D., Ph.D.
2008–2010	Neuroscience Fellowship, Florida State University.

PROFESSIONAL AFFILIATIONS:

Society for Neuroscience
National Hispanic Science Network on Drug Abuse
International Behavioral Neuroscience Society
International Drug Abuse Research Society

TEACHING EXPERIENCE:

2019-present	University of Florida, Gainesville, FL Title: Instructor PharmD courses taught: Pathophysiology and Patient Assessment 2: Neurological System
2014	Scientists Teaching Science Workshop – NIDA, Baltimore, MD
2009-2011	Florida State University, Tallahassee, FL Title: Graduate Instructor Undergraduate Courses Taught: Introduction to Brain and Behavior

PROFESSIONAL SERVICE:

Ad-hoc manuscript reviewer: European Journal of Neuroscience, Neuropsychopharmacology, Synapse, Psychopharmacology, Neuroscience Letters, Behavioral Brain Research, Neuropharmacology, Biological Psychiatry, Plos One

PUBLICATIONS:**Book Chapters**

1. Steiner H, **Warren BL**, Van Waes V, Bolaños-Guzmán CA. *Progress in Brain Research*, 211. Chapter 2: Life-long Consequences of juvenile exposure to psychotropic drugs on brain and behavior.

Peer Reviewed Journal Publications (Reverse Chronological Order):

1. Kane L, Venniro M, Quintana-Feliciano R, Madangopal R, Rubio FJ, Bossert JM, Caprioli D, Shaham Y, Hope BT, **Warren BL** (2020) Distinct Fos-expressing neuronal ensembles in rat ventromedial prefrontal cortex encode food versus cocaine seeking in rats. *Addiction Biology (in press)*. PMID:

32683756.

2. Parise LF, Sial OK, **Warren BL**, Sattler CR, Duperrouzel JC, Parise EM, Bolaños-Guzmán CA (2020) Nicotine treatment buffers negative behavioral consequences induced by exposure to physical and emotional stress in adolescent male mice. *Psychopharmacology*, (in press). PMID: 32594187.
 3. **Warren BL**, Mazei-Robinson M, Robison AJ, Iñiguez SD (2020) Can I get a witness? Using vicarious defeat stress to study mood-related illnesses in traditionally understudied populations. *Biological Psychiatry*, 88(5), 381-391. PMID: 32228871.
 4. **Warren BL**, Kane L, Venniro M, Selvam P, Quintana-Feliciano R, Mendoza MP, Madangopal R, Komer L, Whitaker LR, Rubio FJ, Bossert JM, Caprioli D, Shaham Y, Hope BT (2019) Separate vmPFC ensembles control cocaine self-administration versus extinction in rats. *The Journal of Neuroscience*, 39(37), 7394-7407. PMID: 31331999
 5. Iñiguez SD, Alcantara LF, Lobo MK, Flores-Ramirez FJ, Garcia-Carachure I, **Warren BL**, Robison AJ (2019) Upregulation of hippocampal extracellular signal-regulated kinase (ERK)-2 induces antidepressant-like behavior in the rat forced swim test. *Behavioral Neuroscience*, 133(2), 225-231. PMID: 30907619
 6. Rubio FJ, Quintana-Feliciano R, **Warren BL**, Li X, Witonsky KF, Soto del Valle F, Selvam PJ, Caprioli D, Venniro M, Bossert J, Shaham Y, Hope BT (2018) Prelimbic cortex is a common brain area activated during cue-induced reinstatement of cocaine and heroin seeking in a polydrug self-administration model. *European Journal of Neuroscience*, 49(2), 165-178. PMID: 30307667
 7. **Warren BL**, Whitaker LR, (2018) Parvalbumin-expressing neurons in the nucleus accumbens: a new player in amphetamine sensitization and reward. *Neuropsychopharmacology*, 43(5), 929-930. PMID: 29162905
 8. **Warren BL**, Suto N, Hope BT, (2017) Fos expressing neuronal ensembles have the mechanistic resolution that homogenates lack. *Frontiers in Neuroscience*, 11, 28. PMID: 28484375
 9. Whitaker LR, **Warren BL**, Venniro M, Harte TC, McPherson KB, Beidel JM, Bossert JM, Shaham Y, Bonci A, Hope BT, (2017) Bidirectional modulation of intrinsic excitability in rat prelimbic cortex neuronal ensembles and non-ensembles following operant learning. *The Journal of Neuroscience*, 37(36), 8845-8856. PMID: 28779019
 10. Venniro M, Caprioli D, Zhang M, Whitaker LR, Zhang S, **Warren BL**, Cifani C, Marchant NJ, Yizhar O, Bossert JM, Chiamulera C, Morales M, Shaham Y (2017) The anterior insula→central amygdala glutamatergic pathway is critical to relapse after contingency management. *Neuron*, 96(2), 414-427. PMID: 29024664
 11. Wallace VJ, Cimbri R, Rubio FJ, Fortuno LV, Necarsulmer JC, Koivula PP, Henderson MJ, DeBiase LM, **Warren BL**, Harvey BK, Hope BT (2017) Neurons internalize functionalized micron-sized silicon dioxide microspheres. *Cellular and Molecular Neurobiology*, 37(8), 1487-1499 PMID: 28260198
 12. Caprioli D, Venniro M, Zhang M, Bossert JM, **Warren BL**, Hope BT, Shaham Y (2016) Intrinsic excitability is selectively increased within prelimbic cortex neuronal ensembles that encode operant learning. *The Journal of Neuroscience*, 37(4), 1014-1027. PMID: 28123032
 13. **Warren BL**, Mendoza MP, Cruz FC, Leao RM, Caprioli D, Rubio FJ, Whitaker LR, McPherson KB, Bossert JM, Shaham Y, Hope BT, (2016) Distinct Fos-expressing neuronal ensembles in the ventromedial prefrontal cortex mediate acquisition versus extinction of operant conditioning for palatable food. *The Journal of Neuroscience*, 36(25), 6691-703. PMID: 27335401
 14. Sial OK†, **Warren BL**†, Alcantara LF, Parise EM, Bolaños-Guzmán CA (2015) Chronic witness social defeat: Bridging the gap between physical and emotional stress. *J Neuro Methods*, 258, 94-103. PMID: 26545443
- † Authors contributed equally.
15. Rubio FJ, Liu QR, Li X, Cruz F, Leao RM, **Warren BL**, Kambhampati S, Babin K, McPherson K, Cimbri R, Bossert, Shaham Y, Hope BT, (2015) Context-induced reinstatement of methamphetamine seeking is

- associated with unique molecular alterations in Fos-expressing dorsolateral striatum neurons. *The Journal of Neuroscience*, 35(14), 5625-5639. PMID: 25855177
16. Hodes G, Pfau ML, Leboeuf M, Golden S, Christoffel D, Bregman Dana, Rebusi N, Heshmati M, Aleyasin H, **Warren BL**, Sarah H, Lapidus K, Stelzhammer V, Wong E, Bahn S, Bolanos-Guzman CA, Murrough J, Merad Miriam, Russo SJ (2014) Individual differences in the peripheral immune system promote resilience versus susceptibility to social stress. *PNAS* 111(45), 16136-41. PMID: 25331895
 17. **Warren BL**, Sial OK, Alcantara LF, Greenwood MA, Brewer JS, Rozofsky JP, Parise EM, Bolaños-Guzmán CA (2014) Altered gene expression and spine density in nucleus accumbens of mice exposed to emotional and physical stress during adolescence. *Developmental Neuroscience*, 36(3-4), 250-60. PMID: 24943326
 18. Iñiguez SD, Riggs LM, Nieto SJ, Dayrit G, Zamora NN, Shawhan KL, Cruz B, **Warren BL** (2014) Social defeat stress induces a depression-like phenotype in adolescent male c57BL/6 mice. *Stress*, 17(3), 247-55. PMID: 24689732
 19. Alcantara LF, **Warren BL**, Parise EM, Iñiguez SD, Bolaños-Guzmán CA (2014) Effects of psychotropic drugs on second messenger signaling and preference for nicotine in juvenile male mice. *Psychopharmacology*, 231(8): 1479-92. PMID: 24452697
 20. Iñiguez SD, Alcantara LF, **Warren BL**, Riggs LM, Parise EM, Vialou VF, Wright KN, Dayrit G, Nieto SJ, Wilkinson MB, Lobo MK, Neve RL, Nestler EJ, Bolaños-Guzmán CA (2014) Fluoxetine exposure during adolescence alters responses to aversive stimuli in adulthood. *The Journal of Neuroscience*, 34(3), 1007-21. PMID: 24431458
 21. Parise EM, Alcantara LF, **Warren BL**, Wright KN, Hadad R, Sial OK, Kroeck KG, Iñiguez SD, Kroeck K, Bolaños-Guzmán CA (2013) Repeated ketamine exposure induces an enduring resilient phenotype in adolescent and adult rats. *Biological Psychiatry*, 74(10): 750-9. PMID: 23790225
 22. **Warren BL**, Vialou VF, Iñiguez SD, Alcantara LF, Wright KN, Feng J, Kennedy PJ, LaPlant Q, Shen, L, Nestler EJ, Bolaños-Guzmán CA (2012) Neurobiological sequelae of witnessing stressful events in mice. *Biological Psychiatry*, 73(1), 7-14. PMID: 22795644
 23. **Warren BL**, Iñiguez SD, Alcantara LF, Wright KN, Weakley SK, Bolaños-Guzmán CA (2011) Juvenile administration of concomitant methylphenidate and fluoxetine alters behavioral reactivity to reward- and mood-related stimuli and disrupts ventral tegmental area gene expression in adulthood. *The Journal of Neuroscience*, 31(28), 10347-58. PMID: 21753012
 24. LaPlant Q, Vialou V, Covington HE 3rd, Dumitriu D, Feng J, **Warren BL**, Maze I, Dietz DM, Watts EL, Iñiguez SD, Koo JW, Mouzon E, Renthal W, Hollis F, Wang H, Noonan MA, Ren Y, Eisch AJ, Bolaños CA, Kabbaj M, Xiao G, Neve RL, Hurd YL, Oosting RS, Fan G, Morrison JH, Nestler EJ (2010). Dnmt3a regulates emotional behavior and spine plasticity in the nucleus accumbens. *Nature Neuroscience*, 13(9), 1137-43. PMID: 2072844
 25. Iñiguez SD, **Warren BL**, Neve RL, Russo SJ, Nestler EJ, Bolaños-Guzmán CA (2010) Viral-Mediated Expression of extracellular signal-regulated kinase-2 in the ventral tegmental area modulates behavioral responses to cocaine. *Behavioral Brain Research*, 214(2), 460-4. PMID: 20561901
 26. Iñiguez SD, Vialou V, **Warren BL**, Cao JL, Alcantara LF, Davis LC, Manojlovic Z, Neve RL, Russo SJ, Han MH, Nestler EJ, Bolaños-Guzmán CA (2010) Extracellular Signal-Related Kinase-2 in the Ventral Tegmental Area Regulates Responses to Stress. *The Journal of Neuroscience*, 30(22), 7652-63. PMID: 20519540
 27. Vialou V, Robison AJ, LaPlant QC, Covington HE 3rd, Dietz DM, Ohnishi YN, Mouzon E, Rush AJ 3rd, Watts EL, Wallace DL, Iñiguez SD, Ohnishi YH, Steiner MA, **Warren BL**, Krishnan V, Bolaños-Guzmán CA, Neve RL, Ghose S, Berton O, Tamminga CA, Nestler EJ (2010) DeltaFosB in brain reward circuits mediates resilience to stress and antidepressant response. *Nature Neuroscience*, 13(6), 743-752. PMID: 20473292
 28. Iñiguez SD, **Warren BL**, Bolaños-Guzmán CA (2010) Short- and Long-Term Functional Consequences

of Fluoxetine Exposure During Adolescence in Male Rats. *Biological Psychiatry*, 67(11), 1057-66. PMID: 20172503

29. Iñiguez SD†, Warren BL†, Parise E, Alcantara LF, Schuh B, Maffeo ML, Manojlovic Z, Bolaños-Guzmán CA (2009) Nicotine exposure during adolescence induces a depression-like state in adulthood. *Neuropsychopharmacology*, 34(6), 1609-1624. PMID: 19092782

† Authors contributed equally.

30. Iñiguez SD, Warren BL, Neve RL, Nestler EJ, Russo SJ, Bolaños-Guzmán CA (2008) Insulin receptor substrate-2 in ventral tegmental area regulates cocaine-induced behavioral adaptations. *Behavioral Neuroscience*, 122(5), 1172-1177. PMID: 18639865

Manuscripts in Preparation:

1. Warren BL, Alcantara LF, Parise EM, Bolaños-Guzmán CA. *Molecular adaptations following physical versus emotional stress in adolescent male mice.*

Selected Published Abstracts:

1. Warren BL, Selvam V, Mendoza MP, Soto F, Caprioli DC, Venniro M, Shaham Y, Hope BT, (2016) Neuronal ensembles within the infralimbic cortex mediate extinction of cocaine seeking. Society for Neuroscience Annual Meeting, San Diego, CA.
2. Warren BL, Mendoza MP, Selvam V, Caprioli DC, McPherson K, Shaham Y, Hope BT, (2015) Distinct neuronal ensembles in rat infralimbic cortex control food reward memories and extinction memories. Society for Neuroscience Annual Meeting, Chicago, IL.
3. Warren BL, Cruz FC, Leao RM, Babin KR, McPherson K, Shaham Y, Hope BT, (2014) Role of prefrontal cortical neuronal ensembles in appetitive (palatable food) operant conditioning extinction learning in rats. Society for Neuroscience Annual Meeting, Washington, DC.
4. Warren BL, Alcantara LF, Parise EM, Iñiguez SD, Vialou VF, Nestler EJ, Bolaños-Guzmán CA (2013) Neurobiology of physical versus emotional stress in adolescent male mice. Society for Neuroscience Annual Meeting, San Diego, CA.
5. Warren BL, Alcantara LF, Vialou VF, Wright KN, Iñiguez SD, Nestler EJ, Bolaños-Guzmán CA, Russo SJ (2012) Witnessing social defeat of other animals induces an anxiety and depression-like state and increases nicotine consumption. Society for Neuroscience Annual Meeting, New Orleans, LA.
6. Warren BL, Alcantara LA, Wright KN, Vialou VF, Laplant Q, Iñiguez SD, Nestler EJ, Bolaños-Guzmán CA (2012) Vicarious social defeat induces depression- and anxiety-like behavior and dysregulates gene expression within the VTA. International Behavioral Neuroscience Society Annual Meeting, Kona, HI.
7. Warren BL, Alcantara LF, Wright KN, Vialou V, Iñiguez SD, Nestler EJ, Bolaños-Guzmán CA (2011) Anxiety- and depression-like state induced by vicarious social defeat can be rescued by chronic fluoxetine exposure. Society for Neuroscience Annual Meeting, Washington, D.C.
8. Warren BL, Iñiguez SD, Nestler EJ, Bolaños-Guzmán CA (2010) *Witnessing physical stress induces an anxiety- and depression-like state in adult mice.* 49th annual meeting American College of Neuropsychopharmacology (ACNP), Miami Beach, FL.
9. Warren BL, Iñiguez SD, LaPlant Q, Alcantara LF, Weakley S, Nestler EJ, Bolaños-Guzmán CA (2010) *Emotional stress induces an anxiety- and depression-like state in adult mice.* Society for Neuroscience, San Diego, CA.
10. Warren BL, LaPlant Q, Iñiguez SD, Nestler EJ, Bolaños-Guzmán CA (2009) Long-lasting neurobiological effects of nicotine exposure during adolescence in male rats. *Society for Neuroscience*, Chicago, IL.

INVITED LECTURES:

- 2018 Distinct neuronal ensembles in the vmPFC mediate self-administration of food and cocaine. Sapienza University of Rome. Rome, Italy. July 13, 2018.
- 2017 Role of neuronal ensembles in acquisition and extinction of cocaine-seeking. National Institute on Drug Abuse Intramural Research Program. Baltimore, MD. December 5, 2017.

REFERENCES:

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