JOAQUIN N. LUGO JR.
CURRICULUM VITA
OCTOBER 2021

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EDUCATION

2004 Ph.D., Experimental Psychology, University of South Carolina, Columbia, SC
1999 *B.S. Neuroscience,* Baylor University, Waco, TX

PROFESSIONAL APPOINTMENTS

2018-Present Graduate Program Director in the Department of Psychology and Neuroscience at Baylor University, Waco, Texas
2016-Present Associate Professor (with Tenure) in the Department of Psychology and Neuroscience at Baylor University, Waco, Texas
2010-2016 Tenure-track Assistant Professor in the Department of Psychology and Neuroscience at Baylor University, Waco, Texas
2004-2010 Post-doctoral fellow in the Department of Pediatrics at the Baylor College of Medicine and Department of Neurology in the Texas Children's Hospital, Houston, Texas
1999-2004 Research Graduate Assistant for Psychology Department at the University of South Carolina-Columbia, Columbia, South Carolina

GRANT FUNDING

External Grant Funding

Current funding:

$415,000 Awarded by: National Institutes of Health/NINDS, PI: J.N. Lugo
Title: Signaling Mechanisms Underlying Epilepsy and Autism Comorbidity
Type of Award: 1R15NS088776-02 Renewal Grant
Project Period: 09/01/2018-08/31/2022

$75,175 Awarded by: National Institutes of Health/NINDS, PI: J.N. Lugo
Title: Signaling Mechanisms Underlying Epilepsy and Autism Comorbidity
Type of Award: 1R15NS088776-02 Diversity Supplemental Award
Project Period: 09/01/2019-08/31/2022

Completed funding:

$8,000 Awarded by: Burroughs Wellcome Fund Collaborative Research Travel Grant
Title: The use of dietary supplementation of vitamin D to reduce seizures, behavioral comorbidities, and osteoporosis in a mouse model of epilepsy
Project Period: 06/01/2018-12/31/2019

$415,000 Awarded by: National Institutes of Health/NINDS, PI: J.N. Lugo
Title: Signaling Mechanisms Underlying Epilepsy and Autism Comorbidity
Type of Award: 1R15NS088776-01
Project Period: 02/01/2015-01/31/2019

Equipment Grant Awarded by: Faculty for Undergraduate Neuroscience, PI: J.N. Lugo
Grant Title: Identifying the cognitive enhancing effects of Aniracetam
Type of Award: Faculty for Undergraduate Neuroscience Equipment Loan Program
Project Period: 03-01-2014 through 03-01-2016
Equipment Issued: SR-LAB System with Small/Medium enclosure for mice (2 stations) and Gemini Avoidance System

$50,000 Awarded by: Epilepsy Foundation, PI: J. N. Lugo
Grant Title: Understanding the role of early-life seizures in autistic behaviors
Type of Award: Research Grants Program
Project Period: 01-01-2012 through 12-31-2012

$147,607 Awarded by: NIH: National Institute on Neurological Disorders and Stroke
PI: J. N. Lugo
Title: Mechanisms of regulation of excitability in immature CNS
Type of Award: Postdoctoral Fellowship Grant
Grant Number: F32NS056664
Project Period: 12-06-2007 through 12-05-2010

$40,000 Awarded by: Epilepsy Foundation, PI: J. N. Lugo
Title: Neuroprotective Role for Potassium Channels in Early-Life Status Epilepticus
Type of Award: Postdoctoral Fellowship Grant
Project Period: 01-01-2007 through 12-31-2007

$76,850 Awarded by: NIH: National Institute on Neurological Disorders and Stroke
PI: J. W. Swann to support J. N. Lugo fellowship
Title: Immature Hippocampus: Epileptogenic Properties
Type of Award: Minority supplemental award for Joaquin N. Lugo Jr.
Grant Number: NS 18309S1
Project Period: 01-01-2005 through 12-31-2007

$94,112 Awarded by: National Institute on Alcohol Abuse and Alcoholism, PI: J. N. Lugo
Title: Alcohol Exposure, Social behavior, and The Amygdala
Type of Award: Predoctoral Fellowship Grant
Grant Number: F31 AA05583
Project Period: 08-15-2000 through 07-14-2004

Internal Grant Funding

Current funding:

$5000 Undergraduate Research and Scholarly Achievement Program PI: J. N. Lugo
Title: Examining the impact of seizures on learning and memory
Project Period: 06-01-2021 through 05-31-2022

Completed funding:

$5000 Undergraduate Research and Scholarly Achievement Program PI: J. N. Lugo
Title: Dietary therapy to reverse deficits in Fragile X Syndrome
Project Period: 06-01-2020 through 05-31-2021

$5000 Undergraduate Research and Scholarly Achievement Program PI: J. N. Lugo
Title: Investigating the impact of agomelatine on early-life seizures
Project Period: 06-01-2019 through 05-31-2020

$25,000 Faculty Research Investment Program PI: J. N. Lugo
Determining the role of mTOR and FMRP in mediating autistic-like behavioral comorbidities after early-life seizures.
Project Period: 06-01-2018 through 05-31-2019

$7500 University Research Grant (URC) PI: J. N. Lugo
Title: Using high omega-3 to reduce autistic-like behavioral deficits and neuroinflammation in Fragile X Syndrome mice
Project Period: 06-01-2018 through 05-31-2019

$5000 Undergraduate Research and Scholarly Achievement Program PI: J. N. Lugo
Title: Inhibiting neuroinflammation to reduce the impacts of early-life seizures
Project Period: 06-01-2018 through 05-31-2019

$5000 Undergraduate Research and Scholarly Achievement Program
PI: E. Abel and J. N. Lugo
Title: Development of a high-throughput behavior assay for determining effects of OPFR exposure
Project Period: 06-01-2016 through 05-31-2017

$5000 Undergraduate Research and Scholarly Achievement Program PI: J. N. Lugo
Title: Determining the role of Aniracetam as a cognitive enhancer in mice.
Project Period: 06-01-2014 through 05-31-2015

$1500 Teaching Grant to attend Faculty for Undergraduate Neuroscience Workshop
Project Period: 08-18-2014 to 08-22-2014

$3500 University Research Grant (URC) PI: J. N. Lugo
Title: The role of environmental toxins on neurodegenerative diseases
Project Period: 06-01-2014 through 05-31-2015

$5000 Undergraduate Research and Scholarly Achievement Program PI: J. N. Lugo
Title: Pharmacological Optimization of Learning and Memory
Project Period: 06-01-2013 through 05-31-2014

$25000 Young Investigator Development Program Grant (YIDP) PI: J. N. Lugo
Title: Neural Mechanisms Underlying Social Behavior Deficits in Epilepsy
Project Period: 06-01-2012 through 05-31-2013
This grant provided support which was later funded by the NIH

$7500 University Research Grant (URC) PI: J. N. Lugo
Title: The Role of PTEN in modifying social and cognitive behaviors in epilepsy

Project Period: 06-01-2011 through 05-31-2012

$1500 Teaching Grant to attend Winter Conference on Brain Research
Project Period: 01/30/2012

PEER-REVIEWED PUBLICATIONS (*Indicates Dr. Lugo as the corresponding author. # indicates Baylor graduate student. † indicates Baylor undergraduate student)

1. Womble, P. D.#, Hodges, S. L.#, Nolan, S. O.#, Binder, M. S.#, Holley, A. J.#, Herrera, R.†, Senger, S.†, Kwok, E.†, Narvaiz, D. A.#, Faust, A†., Hernandez-Zegada, C. J.†, Kwon, R. Y., **Lugo, J. N.** (2021). Epilepsy and Behavior. Nov; 124:108297. doi: 10.1016/j.yebeh.2021.108297.
2. Binder, M. S.#, Pranske, Z. J.†, **Lugo, J. N.** (2021). Evaluating the DeepSqueak and Mouse Song Analyzer vocalization analysis systems in C57BL/6J, FVB.129, and FVB neonates. Journal of Neuroscience Methods. Dec 1; 364: 109356. DOI: 10.1016/j.jneumeth.2021.109356
3. O'Brien, M., Rundell, Z. C., Nemec, M.D., Langan, L. M., Back, J. A., **Lugo, J. N.** (2021). A comparison of four commercially available RNA extraction kits for wastewater surveillance of SARS-CoV-2 in a college population. Science of the Total Environment. Dec 20; 801:149595. doi: 10.1016/j.scitotenv.2021.149595.
4. Hodges, S. L.#, Womble, P. D.#, Kwok, E. M.†, Darner, A. M.†, Senger, S. S.†, Binder, M. S.#, Faust, A. M.†, Condon, S. M.†, Nolan, S. O.#, Quintero, S. I.†, **Lugo, J. N.** (2021). Rapamycin, but not minocycline, significantly alters ultrasonic vocalization behavior in C57BL/6J pups in a flurothyl seizure model. Behavioural Brain Research. July 23; 410: 113317. doi: 10.1016/j.bbr.2021.113317.
5. Nolan, S. O.#, Hodges, S. L., Okoh, J. T.†, Binder, M. S.#, **Lugo, J. N.** (2021). Prenatal high-fat diet rescues communication deficits in Fmr1 mutant mice in a sex-specific manner. Developmental Neuroscience. Developmental Neuroscience. Jan 4:1-11.
6. Reynolds, C. D.†, Suzanne, S. O.#, Smith, G. D.#, Jefferson, T. S.†, Hodges, S. L.#, Brewster, A. L., **Lugo, J. N.** (2020). Increased expression of Fragile X mental retardation protein in malformative lesions of patients with focal cortical dysplasia. Neuroreport. Oct 7;31(14):1036-1041. doi:10.1097/WNR.0000000000001517.
7. Binder, M. S.#, Kim, A. D.†, **Lugo, J. N.** (2020). An acute seizure prior to memory reactivation transiently impairs associative memory performance in C57BL/6J mice. Aug 18; 27(9):340-345. doi: 10.1101/lm.050633.119.
8. Binder, M. S.#, Nolan, S. O.#, **Lugo, J. N.** (2020). A comparison of the Avisoft (v.5.2) and MATLAB Mouse Song Analyzer (v.1.3) vocalization analysis systems in C57BL/6, Fmr1-FVB.129, NS-Pten-FVB, and 129 mice. Journal of Neuroscience Methods, Aug 14: 108913. doi: 10.1016/j.jneumeth.2020.108913.
9. Huebschman, J. L.†, Hodges, S. L.#, Reynolds, C. D.†, Nolan, S. O.#, **Lugo, J. N.** (2020). A single episode of early-life status epilepticus impacts neonatal ultrasonic vocalization behavior in the Fmr1 knockout mouse. Epilepsy and Behavior, 111:107279. doi: 10.1016/j.yebeh.2020.107279.
10. Hodges, S. L.# and **Lugo, J. N.** (2020). Therapeutic role of targeting mTOR signaling and neuroinflammation in epilepsy. Epilepsy Research. Jan 30;161:106282.
11. Hodges, S. L.#, Nolan, S. O.#, Tomac, L. A.†, Muhammad, I. D. A.†, Binder, M. S.#, Taube, J. H., **Lugo, J. N.** (2020). Lipopolysaccharide-induced inflammation leads to acute elevations in pro-inflammatory cytokine expression in a mouse model of Fragile X syndrome. Physiology and Behavior Mar 1;215:112776.

12. Nolan, S. O. [#], Hodges, S. L. [#], **Lugo, J. N.** (2020). High-throughput analysis of vocalizations reveals sex-specific changes in Fmr1 mutant pups. Genes Brain and Behavior. Feb;19(2):e12611.
13. Binder, M. S. [#], Jones, D. G. [†], Hodges, S. L. [#], **Lugo, J. N**. (2020). NS-Pten adult knockout mice display both quantitative and qualitative changes in urine-induced ultrasonic vocalizations. Behavioral Brain Research. Jan 27;378:112189.
14. Hodges, S. L. [#], Reynolds, C. D. [†], Nolan, S. O. [#], Huebschman, J. L. [†], Okoh, J. T. [†], Binder, M. S. [#], **Lugo, J. N.** (2019). A single early-life seizure results in long-term behavioral changes in the adult Fmr1 knockout mouse. Epilepsy Research. Nov;157:106193.
15. Binder, M. S. [#], Nolan, S. O. [#], **Lugo, J. N.** (2019). Neuronal subset-specific Pten-deficient mice do not exhibit deficits in sensorimotor gating processes. F1000Research 2019, 8:1727.
16. Nolan, S.O. [#], Hodges, S.L. [#], Condon, S.M. [†], Muhammed, I.D.A. [†], Tomac, L.A. [†], Binder, M.S. [#], Reynolds, C.D. [†], **Lugo, J.N.** (2019). High seizure load during sensitive periods of development leads to broad shifts in ultrasonic vocalization behavior in neonatal male and female C57BL/6J mice. Epilepsy and Behavior. Jun;95:26-33.
17. Nolan, S.O. [#], Jefferson, T.S. [†], Reynolds, C.D. [†], Smith, G.D. [#], Holley, A.J. [#], Hodges, S.L. [#], **Lugo, J. N.** (2019). Neuronal deletion of phosphatase and tensin homolog results in cerebellar motor learning dysfunction and alterations in intracellular signaling. Neuroreport. May 22;30(8):556-561. doi: 10.1097/WNR.0000000000001241.
18. Hodges, S. L. [#], Reynolds, C. D. [†], Smith, G. D. [#], Jefferson, T. S. [†], Gao, N. [†], Morrison, J. B. [†], White, J. [†], Nolan, S. O. [#], **Lugo, J. N.** [*] (2018). Neuronal subset-specific deletion of Pten results in aberrant Wnt signaling and memory impairments. Brain Res. 1699:100-106. doi: 10.1016/j.brainres.2018.08.007.
19. Binder, M. S. [#], Hernandez-Zegada, C. J. [†], Potter, C. T. [†], Nolan, S. O[#]., **Lugo, J. N.**[*] (2018). A comparison of the Avisoft (5.2) and Ultravox (2.0) recording systems: Implications for early-life communication and vocalization research. J Neurosci Methods. 309:6-12. doi:0.1016/j.jneumeth.2018.08.015.
20. Hodges, S. L. [#] & **Lugo, J. N.** [*] (2018). Wnt/β-catenin signaling as a potential target for novel epilepsy therapies. Epilepsy Research.146:9-16. doi: 10.1016/j.eplepsyres.2018.07.002. Epub 2018 Jul 24. Review.
21. Hodges, S. L. [#], Reynolds, C. D. [†], Smith, G. D. [#], Jefferson, T. S. [†], Nolan, S. O. [#], **Lugo, J. N.** [*] (2018). Molecular interplay between hyperactive mammalian target of rapamycin signaling and Alzheimer's disease neuropathology in the NS-Pten knockout mouse model. Neuroreport. 29(13):1109-1113. doi: 10.1097/WNR.0000000000001081.
22. Nolan, S.O. & **Lugo, J. N.**[*] (2018). Reversal learning paradigm reveals deficits in cognitive flexibility in the Fmr1 knockout male mouse. F1000Res. 2018 Jun 7;7:711. doi: 10.12688/f1000research.14969.1. eCollection 2018.
23. Frigerio, F., Flynn, C., Han, Y., Lyman, K., **Lugo, J. N.,** Ravizza, T., Ghestem, A., Pitsch, J., Becker, A., Anderson, A. E., Vezzani, A., Chetkovich, D., Bernard, C. (2018). Neuroinflammation alters integrative properties of rat hippocampal pyramidal cells. Molecular Neurobiology. 55(9):7500-7511. doi: 10.1007/s12035-018-0915-1. Epub 2018 Feb 9.
24. Hodges, S.L. [#], Nolan, S.O. [#], Taube, J.H., **Lugo, J.N.** [*] (2017). Adult Fmr1 knockout mice present with deficiencies in hippocampal interleukin-6 and tumor necrosis factor-α expression. NeuroReport. 28(18):1246-1249. 28915148.
25. Binder, M. S. [#] & **Lugo, J. N.** [*] (2017). NS-Pten knockout mice show sex- and age-specific differences in ultrasonic vocalizations. Brain and Behavior. 7(11):e00857. 29201556.
26. Nolan, S.O. [#], Reynolds, C. D. [†], Smith, G. D. [#], Holley, A. J. [#], Escobar, E. [†], Chandler, M. A. [†], Volquardsen, M. [†], Jefferson, T. [†], Pandian, A. [†], Smith, T. [†], Nolan, S.O. [#],

Huebschman, J.L. †, and **Lugo, J. N.** * (2017). Deletion of Fmr1 results in sex-specific changes in behavior. Brain and Behavior. Aug 25;7(10):e00800. 29075560.

27. Chernoff, N., Hill D,J., Diggs, D.L., Faison, B.D., Francis, B.M., Lang, J.R., Larue, M.M., Le, T.T., Loftin, K.A., **Lugo, J.N.,** Schmid, J.E., Winnik, W.M. (2017). A critical review of the postulated role of the non-essential amino acid, β-N-methylamino-L-alanine, in neurodegenerative disease in humans. J Toxicol Environ Health B Crit Rev. 2017;20(4):1-47. doi: 10.1080/10937404.2017.1297592.
28. Reynolds C.D. †, Jefferson, T.S. †, Volquardsen, M. †, Pandian, A. †, Smith, G. D. #, Holley, A. J. # & **Lugo, J. N.** (2017). Study of oral aniracetam in C57BL/6J mice without pre-existing cognitive impairments doi: 10.12688/f1000research.11023.3. eCollection 2017.
29. Reynolds, C. D. †, Nolan, S.O. #, Huebschman, J.L. †, Hodges, S.L. #, **Lugo, J.N.** * (2017). Early-life status epilepticus acutely impacts select quantitative and qualitative features of neonatal vocalization behavior: Spectrographic and temporal characterizations in C57BL/6 mice. Epilepsy Behav. 2017 May 30;72:58-62. doi: 10.1016/j.yebeh.2017.04.025.
30. Hodges, S. L. #, Nolan, S. O. #, Reynolds, C. D. †, **Lugo, J. N.** * (2017). Spectral and temporal properties of calls reveal deficits in ultrasonic vocalizations of adult Fmr1 knockout mice. Behavioral Brain Research. May 26;332:50-58. doi: 10.1016/j.bbr.2017.05.052.
31. **Lugo, J.N.** *, Thompson, M. H, †, Huber, P., Smith, G. #, Kwon, R.Y. (2017). Neuron subset-specific Pten deletion induces abnormal skeletal activity in mice. Experimental Neurology. May;291:98-105. doi: 10.1016/j.expneurol.2017.02.002.
32. Smith, G. D. #, Ahmed, N. †, Arbuckle, E. #, **Lugo, J.N.** * (2017). Early-life status epilepticus induces long-term deficits in anxiety and spatial learning in mice. International Journal of Epilepsy. http://dx.doi.org/10.1016/j.ijep.2016.12.005.
33. Reynolds, C.D.†, Nolan. S.O.#, Jefferson. T.†, **Lugo. J.N.*** (2016). Sex-specific and genotype-specific differences in vocalization development in FMR1 knockout mice. Neuroreport. Dec 14;27(18):1331-1335.
34. Smith, G.D. #, White, J. †, & **Lugo, J. N.*** (2016). Superimposing Status Epilepticus on Neuron Subset-Specific PTEN Haploinsufficient and Wild Type Mice Results in Long-term Changes in Behavior. Scientific Reports.Nov 7;6:36559. doi: 10.1038/srep36559.
35. Reynolds, C. #, Smith, G. D. †, Jefferson, T. S. #, **Lugo, J. N.** * (2016). Early-life seizures produce a sex-specific suppression of ultrasonic vocalizations in neonatal mice. Epilepsia. Sep;57(9):1377-85. doi: 10.1111/epi.13450.
36. Smith, G. D. #, Gao, N. †, **Lugo, J. N.** * (2016). Kv4.2 knockout mice display learning and memory deficits in the Lashley maze. F1000 Research. 5:2456. doi: 10.12688/f1000research.9664.2. eCollection 2016.
37. Holley, A. J. # & **Lugo, J. N*.** (2016). Effects of an Acute Seizure on Associative Learning and Memory. Epilepsy and Behavior, Jan;54:51-7.
38. Reynolds, C. †, Smith, G. D. #, Jefferson, T. S. †, **Lugo, J. N.** * (2015). Comparison of Equivalence Between Two Commercially Available S499-phosphorylated FMRP Antibodies in Mice. PLOS One. Nov 18;10(11):e0143134. doi: 10.1371/journal.pone.0143134.
39. Arbuckle, E. P. #, Smith, G. #, Gomez, M. †, **Lugo, J. N.*** (2015). Testing for Odor Discrimination and Habituation in Mice. Journal of Visualized Experiments. May 5(99) e52615.
40. Elston, T. W. †, Pandian, A. †, Smith, G. D. #, Holley, A. J. #, Gao, N. †, **Lugo J. N.** * (2014). Aniracetam Does Not Alter Cognitive and Affective Behavior in Adult C57BL/6J Mice. PLOS One. Aug 6;9(8):e104443. doi: 10.1371/journal.pone.0104443.
41. **Lugo, J. N.** *, Smith, G. D. #, Arbuckle, E. P. #, White, J. †, Holley A, J. #, Floruta, C. M. †, Ahmed, N. †, Gomez, M. C. †, Okonkwo, O. † (2014). Deletion of PTEN produces autism-

like behavioral deficits and alterations in synaptic proteins. Frontiers in Molecular Neuroscience Apr 16;7:27. doi: 10.3389/fnmol.2014.00027. eCollection 2014.
42. **Lugo, J. N.** [*]**,** Smith, G. [#], Holley, A. [#] (2014). Trace fear conditioning in mice. Journal of Visualized Experiments. Mar 20;(85). doi: 10.3791/51180.
43. **Lugo, J.N.** [*], Swann, J.W, Anderson A.E. (2014). Early-life seizures result in deficits in social behavior and learning. Exp Neurol. Jun;256:74-80. doi: 10.1016/j.expneurol.2014.03.014.
44. **Lugo, J. N.** [*]**,** Smith, G. D. [#], Morrison, J. B.[†], White, J. [†] (2013). Deletion of PTEN produces deficits in conditioned fear and increases fragile X mental retardation protein. Learning and Memory. Nov 15;20(12):670-3. doi: 10.1101/lm.032839.113.
45. Brewster, A. L., **Lugo, J. N.,** Patil, V. V., Lee, W. L., Qian, Y., Vanegas, F., Anderson, A. E. (2013). Rapamycin reverses status epilepticus-induced memory deficits and dendritic damage. PLOS ONE. 8(3):e57808. PMID: 23536771
46. Marcelin, B., **Lugo, J.N.,** Brewster, A. L., Liu, Z., Lewis, A. S., McClelland, S., Chetkovich, D. M., Baram, T. Z., Anderson, A. E., Becker, A., Esclapez, M., Bernard C. (2012). Differential dorso-ventral distributions of Kv4.2 and hyperpolarization-activated cyclic adenosine monophosphate gated channel (HCN) proteins confer distinct integrative properties to hippocampal CA1 pyramidal cell distal dendrites. Journal of Biological Chemistry. May 18; 287(21):17656-61. PMID:22511771
47. **Lugo, J. N.,** Brewster, A. L., Spencer, C.M., Anderson, A. E. (2012). Kv4.2 knockout mice show hippocampal-dependent learning and memory deficits. Learning and Memory, Apr 13;19(5):182-9
48. Sunnen, C.N., Brewster, A. L., **Lugo, J. N.,** Venegas, F., Turcios, E., Mukhi, S., Parghi, D., D'Arcangelo, D., Anderson, A. E. (2011). Inhibition of the mammalian target of rapamycin blocks epilepsy progression in NS-PTEN conditioninal knockout mice. Epilepsia, Nov;52(11): 2065-75. PMID: 22505720
49. Ljungberg, C., Sunnen, C.N., **Lugo, J. N.,** Anderson, A. E. & D'Arcangelo, G. D. (2009). Rapamycin suppresses seizures and neuronal hypertrophy in a mouse model of cortical dysplasia. Disease Models & Mechanisms. Jul-Aug;2(7-8): 389-398. PMCID: PMC2707106.
50. Barnwell, L. F. S., **Lugo, J. N.,** Lee, W., Willis, S. E., Gertz, S. J., Hrachovy, R. A., Anderson, A. E., (2009). Kv4.2 knockout mice demonstrate increased susceptibility to convulsant stimulation. Epilepsia. Jul; 50(7): 1741-1751. PMCID: PMC2925051.
51. **Lugo, J. N.,** Barnwell, L. F., Johnston, L. D., Kim, R., Feng, C., Hrachovy, R. A., Sweatt, J. D., & Anderson, A. E. (2008). Altered phosphorylation and localization of the A-type channel, Kv4.2 in status epilepticus. Journal of Neurochemistry. Aug;106(4): 1929-40. PMCID2678944.
52. Jung, S., Jones, T. D., **Lugo,** J. N., Sherrin, A. H., Sherrin, J. W., D'Ambrosio, R., Anderson, A. E., Poolos, N. P. (2007). Progressive Dendritic HCN Channelopathy during Epileptogenesis in the Rat Pilocarpine Model of Epilepsy. Journal of Neuroscience. 27(47), 13012-12021. PMID: 18513371.
53. Gass, G. T., Jenkins, W. J., Marino, M. D., **Lugo Jr., J. N.**, Kelly, S.J. (2007). Alcohol exposure during development: Analysis of effects on female sexual behavior. Alcoholism: Clinical and Experimental Research. 31(12), 2065-2072. PMID: 17949467.
54. **Lugo Jr., J. N.,** Wilson, M. A., Kelly, S. J. (2006). Perinatal ethanol exposure alters met-enkephalin levels of male and female rats. Neurotoxicology & Teratology, 28(2), 238-244. PMID: 16457985.
55. **Lugo Jr., J. N.,** Marino, M. D. Gass, J. T., Wilson, M. A., & Kelly, S. J. (2006). Alcohol exposure during development reduces resident aggression and testosterone in rats. Physiology & Behavior, 87(2), 330-337. PMID: 12724179.

56. **Lugo Jr., J. N.,** Marino, M D., Cronise, K., Kelly, S. J. (2003). Effects of alcohol exposure during development on social behavior in rats. Physiology and Behavior, 78(2), 185-194. PMID: 12576115.
57. Marino, M., Cronise, K., **Lugo, J. N.,** & Kelly, S. J. (2002). Ultrasonic Vocalizations and Maternal-Infant Interactions in a Rat Model of Fetal Alcohol Syndrome. Developmental Psychobiology, 41(4), 341-351. PMID: 12430158.

PUBLICATIONS: NON PEER-REVIEWED

1. **Lugo, J. N.,** Lee, W., & Anderson, A. E. (2009). Epilepsy genes- A. Single gene mutations as a cause of epilepsy: Post-translational modification of ion channels in epilepsy. In P. A. Schwartzkroin (Ed.), Encyclopedia of Basic Epilepsy Research. Oxford, UK: Elsevier Ltd., 658-662.
2. Wilson, M. A., Burghardt, P. R., **Lugo Jr., J. N.,** Primeaux, S. D., Wilson, S. P. (2003). Effect of amygdalar opioids on the anxiolytic properties of ethanol. Annals of the New York Academy of Sciences (986): The Amygdala in Brain Function: Basic and Clinical Approach. 472-475. PMID: 12724179.

MANUSCRIPTS IN PREPARATION/REVISION OR SUBMITTED

(*Indicates Dr. Lugo as the corresponding author. # indicates Baylor graduate student. † indicates Baylor undergraduate student). * = corresponding author.

INVITED PROFESSIONAL PRESENTATIONS AND WORKSHOPS

Lugo, J. N. (January 2021). Using Wastewater-based Epidemiology to Monitor SARS-CoV-2 in a University Population. COVID Community Action Summit. *Virtual meeting.*

Lugo, J. N. (December 2020). The Role of the PI3K/AKT/mTOR Pathway in Bone Comorbidities. Special Interest Group: Neuroendocrinology: Determining Mechanisms Underlying Bone Comorbidities in Epilepsy. Annual American Epilepsy Society meeting.

Lugo, J. N. (December 2020). How to apply for a Research Job in Academia. Co-Organizer Career Skills Session. Annual American Epilepsy Society meeting.

Lugo, J. N. (December 2020). LEARN THE ROPES: Finding a Great Mentor and Building a Relationship. Annual American Epilepsy Society meeting.

Lugo, J. N. (December 2020). Career Pathways: Research. Co-Organizer Career Development Session. Annual American Epilepsy Society meeting.

Lugo, J. N. (December 2019). I was the co-chair and organizer for the Special Interest Groups panel on Basic Mechanisms and Neuroscience session titled “Tauopathies and Epileptogenesis: Cause or Correlation?” for the American Epilepsy Society meeting in Baltimore, M.D.

Lugo, J. N. (December 2018). I was the co-chair and organizer for the Special Interest Groups panel on Basic Mechanisms and Neuroscience session titled “mTOR in Epilepsy” for the American Epilepsy Society meeting in New Orleans, LA.

Lugo, J. N. (December 2018) Co-organizer with Dr. Elizabeth Felton for the Junior Investigator Roundtable Discussion titled “Diversity in the Workforce” for the American Epilepsy Society meeting in New Orleans, LA.

Lugo, J. N. (September 2018). Panelist member on Leader Skills for Broadening the Representation of Academic Investigators in NeuroScience (BRAINS) cross-cohort workshop in Seattle, W.A.

Lugo, J. N. (December 2017). I was the main organizer and moderator for the Investigator Workshop titled “From Inflammation to Phagocytosis: How Microglia Shape Vulnerable Neuronal Networks in Epilepsy” for the American Epilepsy Society meeting in Washington, D.C.

Lugo, J. N. (December 2017). I was the main organizer and one of the speakers for the Special Interest Groups panel on Basic Mechanisms and Neuroscience session titled “Wnt/Beta catenin Signaling Dysfunction and Epilepsy” for the American Epilepsy Society meeting in Washington, D.C. The title of my talk was “Aberrant Wnt signaling in a mouse model of Cortical Dysplasia.”

Lugo, J. N. (December 2017) Co-organizer with Dr. Michelle D. Jones-London for the Junior Investigator Roundtable Discussion titled “Diversity in the Workforce” for the American Epilepsy Society meeting in Washington, D.C.

Lugo, J. N. (December 2016). I was the co-organizer for the Special Interest Groups panel on Basic Mechanisms and Neuroscience session titled “Channels to Vesicles to Synapses” for the American Epilepsy Society meeting in Houston, TX.

Lugo, J. N. (January 2016). I was a speaker on the panel titled, “Neurocognitive Effects of Early-Life Seizures.” This panel was presented at the annual conference of the Winter Conference on Brain Research meeting.

Lugo, J.N. (December 2015). I am the main organizer of the Investigator Workshop with the title, “The Role of Fragile X Mental Retardation Protein in Epilepsy, Ion Channels, and Behavioral Comorbidities.” I was also a speaker in this workshop. It was presented during the American Epilepsy Society annual meeting.

Lugo, J. N. (March 2015). A Role for PTEN in Learning and Autism. Presented in the department of Psychological Sciences at Purdue University, West Lafayette, IN.

Lugo, J. N., Thompson, M. Huber, P., Smith, G., Holley, A., Bain, S., Gardiner, E., & Kwon, R. (December 2014). Neuron subset-specific-PTEN deletion induces abnormal skeletal activity in mice. Platform talk presented at the American Epilepsy Society: Seattle, WA.

Lugo, J. N. (September 2014). The role of the PI3K signaling pathway and fragile X mental retardation protein in autism. Presented at the department of Orthopaedics and Sports Medicine in the University of Washington School of Medicine.

Broadening the Representation of Academic Investigators in NeuroScience (BRAINS) National Symposium. Selected panelist/participant. 2014.

Lugo, J. N. (December 2013). Inhibition of mTOR reverses learning deficits and dendritic alterations induced by status epilepticus. Presented at the American Epilepsy Society Annual Meeting. Investigator Workshop Session on Dendritic Injury in Epilepsy: Mechanisms and Consequences. Washington, DC.

Lugo, J. N. (July 2013). The role of aberrant PI3K signaling in Autism. Linda CRNIC Institute for Down Syndrome. University of Colorado-Denver Anschutz Medical Campus School of Medicine. Aurora, CO.

Lugo, J. N. (June 2013). Deletion of the PTEN gene results in Autism-like behaviors in mice. Neuroscience research group. Scott and White Health Care & Texas A&M Health Science Center College of Medicine. Temple, TX.

Lugo, J. N. (January 2012). Dysregulation of the mTOR signaling pathway in a mouse model of epilepsy. University of Massachusetts Medical School. Worcester, MA.

Lugo, J. N. (January 2012). Neural Communication: Epilepsy and Autism. Talk presented at the Waterford School: Salt Lake City, UT.

Lugo, J. N. (May 2011). Inhibition of mTOR by Rapamycin Eliminates Learning and Memory Deficits in Rats with Prior Seizures. Data blitz presentation during the University of Texas at Dallas Neuroscience Research Conference: The Neuroscience of Stress and Memory.

Lugo, J. N. (January 2010). The role of potassium ion channels and the mTOR signaling pathway in epilepsy and memory. Talk presented in the Psychology in the University of Mount Union: Alliance, OH.

Lugo, J. N. (November 2009). The role of dendritic ion channels and signaling pathways in epilepsy and memory. Talk presented in the Psychology department in the State University of New York-Binghamton: Binghamton, NY.

Lugo, J. N. (November 2009). The role of dendritic ion channels and signaling pathways in epilepsy and memory. Talk presented in the Psychology and Neuroscience department in Baylor University: Waco, TX.

Lugo, J. N. (February 2009). The role of dendritic ion channels in epilepsy and memory. Talk presented at Psychology department in Northeastern Illinois University: Chicago, IL.

Lugo, J. N. (December 2008). Kv4.2: A Candidate Role in Epilepsy and Memory. Talk presented at Biology department in Colby College: Waterville, ME.

Lugo, J. N. (November 2008). The role of potassium ion channels in acquired epilepsy and cognitive behavior. Talk presented at Psychology department in University of St. Thomas in St. Paul, MN.

Lugo, J. N. (November 2008). The role of potassium ion channels in acquired epilepsy and cognitive behavior. Talk presented at Psychology department in Smith College in Northampton, MA.

Lugo, J. N. (October 2008). The role of ion channels in epilepsy and cognitive behavior. Talk presented at Trinity University in San Antonio, TX.

Lugo, J. N. (February 2008). Deletion of Kv4.2 gene produces specific deficits in contextual memory. Talk presented at the TMC Epilepsy Forum.

PROFESSIONAL POSTER PRESENTATIONS (***** Indicates corresponding author. [#] Indicates Baylor graduate student. [†] Indicates Baylor Undergraduate student.

Hodges, S.[#], Womble, P.[#], Kwok, E.[†], Darner, A.[†], Senger, S.[†], Binder, M.[#], Faust, A.[†], Condon, S.[†], Nolan, S.[#], Quintero, S.[†], Lugo, J. N. (2020). Rapamycin, but not minocycline, significantly alters ultrasonic vocalization behavior in C57Bl/6 pups in a flurothyl seizure model. Annual Meeting for American Epilepsy Society. Virtual Meeting.

Womble, P.[#], Hodges, S.[#], Nolan, S. O.[#], Binder, M.[#], Holley, A.[#], Herrera, R.[†], Senger, S.[†], Kwok, E.[†], Hernandez-Zegada, C.[†], Narvaiz, D.[#], Kwon, R. Y., **Lugo, J. N.** (2020). A Vitamin-D Fortified Diet Increases Survival and Reduces Sex-Specific Behavioral Alterations, But Does Not Rescue Bone Abnormalities in a Mouse Model of Cortical Dysplasia (NS-Pten Knockout Mice. Annual Meeting for American Epilepsy Society. Virtual Meeting.

Pranske, Z. & Lugo, J. N. (2020). Agomelatine Does Not Prevent Seizure-induced Immune Activation of Deficits in Ultrasonic Vocalizations. Poster session at Baylor University URSA Virtual Symposium.

Faust, A., Darner, A., Lugo, J. N. (2020). NS-PTEN Knockout mice give insight into how mTOR signaling is linked to Alzheimer's disease. Poster session at Baylor University URSA Virtual Symposium.

Binder, M.[#], Hodges, S[#]., Nolan, S.[#], Womble, P., Jones, D., **Lugo, J. N.** (2019). Characterizing Ultrasonic Vocalizations in the NS Pten Knockout Model: Implications for Epilepsy and Autism. Annual Meeting for American Epilepsy Society, Baltimore, MD.

Hodges, S., Nolan, S., Condon, S., Muhammad, I. D., Tomac, L., Binder, M., Reynolds, C., **Lugo, J. N.** (2019). Impact of flurothyl seizure load differentially effects neonatal vocalization behavior and molecular signaling cascades in a sensitive period of development. Annual Meeting for American Epilepsy Society, Baltimore, MD.

Womble, P., Hodges, S., Nolan, S. O., Binder, M., Holley, A., Herrera, R., Senger, S., Jones, D., Kwok, E., Hernandez-Zegada, C., **Lugo, J. N.** (2019). A Vitamin-D Fortified Diet Reduces Behavioral Deficits in a Sex-Specific Manner in a Mouse Model of Cortical Dysplasia. Annual Meeting for American Epilepsy Society, Baltimore, MD.

Binder, M.[#], Hodges, S[#]., Nolan, S.[#], Womble, P., Jones, D., **Lugo, J. N.** (2019). Characterizing ultrasonic vocalizations in the NS Pten knockout model: Implications for autism. Society for Neuroscience Annual Meeting, Chicago, IL.

Womble, P., Hodges, S., Nolan, S. O., Binder, M., Holley, A., Herrera, R., Senger, S., Jones, D., Kwok, E., Hernandez-Zegada, C., **Lugo, J. N.** (2019). A vitamin D enriched diet

attenuates sex-specific behavioral deficits in the NS-Pten knockout mouse. Society for Neuroscience Annual Meeting, Chicago, IL.

Nolan, S.[#], Hodges, S.[#], Binder, M.[#],Womble, P.[#], **Lugo, J. N.** (2019). Sex-specific effects of prenatal omega-3 fatty acids on vocalization production in the Fmr1 knockout mouse. Society for Neuroscience Annual Meeting, Chicago, IL.

Pranske, Z. J.[†], Nolan, S. O.[#], Hodges, S. L.[#], Muhammad, I.[†], Binder, M.[#], **Lugo, J. N.** (2019). Early-life Immune Insult Results in Sex-Specific Quantitative and Qualitative Differences in Ultrasonic Vocalizations. Psychoneuroimmunology Research Society. Berlin, Germany.

Nolan, S.[#], Hodges, S.[#], & **Lugo, J.,** (2019). Age-dependent impacts on fear learning following high omega-3 diet in the Fmr1 knockout mouse. UT Learning and Memory Conference, Austin, TX.

Hodges, S.[#], Reynolds, C.[†], Smith, G.[#], Jefferson, T.[†], Gao, N.[†], Morrison, J.[†], White, J.[†], Nolan, S.[#], Binder, M.[#], **Lugo, J.,** (2019). Neuronal subset-specific deletion of Pten results in aberrant Wnt signaling and memory impairments. UT Learning and Memory Conference, Austin, TX.

Binder, M.[#], Nolan, S.[#], Hodges, S[#]. Holley, A.[#], **Lugo, J. N.** (2018). Hyperactive mTOR Signaling Results in Sex- and Age- Specific Differences in Early Life Communication. American Epilepsy Society, New Orleans, LA.

Binder, M.[#], Hernandez-Zegada, C.[†], Potter, C.[†], **Lugo, J. N.**(2018). A comparison of the avisoft (5.2) and ultravox (2.0) recording systems: Implications for early life communication and vocalization research in mouse models. Society for Neuroscience Annual Meeting, San Diego, CA.

Nolan, S.[#], Hodges, S.[#], Okoh, J.[†], Binder, M.[†], Condon, S.[†], **Lugo, J. N.** (2018). Dietary rescue of adult behavioral deficits in the Fmr1 knockout mouse. Society for Neuroscience Annual Meeting, San Diego, CA.

Hodges, S.[#], Nolan, S.[#], Tomac, L.[†], Muhammad, I.[†], Womble, P.[#], **Lugo, J.N.** (2018). Cytokine expression and sickness behavior following lipopolysaccharide stimulation in the Fmr1 knockout mouse. Society for Neuroscience Annual Meeting, San Diego, CA.

Hodges, S.[#], Nolan, S.[#], Tomac, L.[†], Muhammad, I.[†], **Lugo, J. N.** (2018). Cytokine expression and sickness behavior following lipopolysaccharide stimulation in the Fmr1 knockout mouse. PNIRS Annual Meeting, Miami Beach, FL.

Nolan, S.[#], Hodges, S.[#], Okoh, J.[†], Binder, M.[#], Condon, S.[†], **Lugo, J. N.** (2018). The acute and long-term impact of prenatal dietary supplementation with omega-3 fatty acids on the behavioral phenotype of the Fmr1 knockout mouse. PNIRS Annual Meeting, Miami Beach, FL.

Hodges, S.[#], Nolan, S[#]., Holley, A.[#], Binder, M.[#], Okoh, J.[†], Ackerman, K.[†], **Lugo, J. N.** (2017, November). “Effect of early life seizures on development of autistic-like behavior in two mouse strains: 129SvEvTac and C57BL/6 mice.” Society for Neuroscience Annual Meeting, Washington, D.C.

Nolan, S.[#], Hodges, S[#]., Reynolds, C.[†], Holley, A.[#], Binder, M.[#], Smith, G.[#], **Lugo, J. N.** (2017, November). “The impact of early-life seizures on ultrasonic vocalization behavior in 129 SvEvTac mice: A seizure model comparison.” Society for Neuroscience Annual Meeting, Washington, D.C.

Muhammad, I.[†], Nolan S.[#], Hodges, S.[#], Condon, S.[†], Binder, M.[#], **Lugo, J. N.** (2017, August). “The impact of multiple flurothyl seizures on vocalization development in male and female C57BL/6J mice.” Baylor University Summer Science Research Program Symposium, Waco, Texas.

Nolan, S.[#], Hodges, S.[#], Smith, G.[#], Jefferson, T.[†], Escobar, B.[†], Holley, A.[#], **Lugo, J. N.** (2017, June). “The effects of dietary supplement with n-3 fatty acids on behavioral and neuroinflammatory phenotype of the Fmr1 knockout mouse.” 24th annual PsychoNeuroImmunology Scientific meeting, Galveston, Texas.

Hodges, S[#]., Nolan, S.[#], Reynolds, C.[†], Smith, G.[#], Holley, A.[#], Jefferson, T.[†], Huebschman, J.[†], Volquardsen, M.[†], Pandian, A.[†], Taube, J., **Lugo, J. N.** (2017, June).

"Characterization of the behavioral phenotype and neuroinflammatory profile of the Fmr1 knockout mouse." 24th annual PsychoNeuroImmunology Scientific meeting, Galveston, Texas.

Holley, A.[#], Binder, M.[#], Hodges, S.[#], Okoh, J.[†], Lugo, J. (2017, April). "A brief flurothyl-induced seizure produces long-term anterograde memory deficits." UT Austin Conference on Learning and Memory, Austin, Texas.

Nolan, S.[#], Hodges, S.[#], Smith, G.[#], Jefferson, T.[†], Escobar, B.[†], Holley, A.[#], **Lugo, J. N.** (2017, April). "The effects of dietary supplement with n-3 fatty acids on behavioral and neuroinflammatory phenotype of the Fmr1 knockout mouse." Graduate Student Association Research Showcase, Waco, Texas.

Hodges, S.[#], Nolan, S.[#], Reynolds, C.[†], Smith, G.[#], Holley, A.[#], Jefferson, T.[†], Huebschman, J.[†], Volquardsen, M.[†], Pandian, A.[†], Taube, J., **Lugo, J. N.** (2017, April). "Characterization of the behavioral phenotype and neuroinflammatory profile of the Fmr1 knockout mouse." Graduate Student Association Research Showcase, Waco, Texas.

Ackerman, K.[†], Hodges, S.[#], Nolan, S.[#], Reynolds, C.[†], **Lugo, J. N.** (2017, March). "A mouse model of Fragile X syndrome exhibit qualitative deficits in vocalization behavior." Undergraduate Research and Scholarly Achievement (URSA) Scholars Week Presentations, Waco, Texas.

Reynolds, C.[†], Nolan, S., Huebschmann, J.[†], Hodges, S., **Lugo, J. N.** (2017, March). "Neonatal seizures lead to call-specific changes in the quantitative and spectrotemporal features of mouse ultrasonic vocalization behavior." Texas Academy of Sciences Meeting, Belton, Texas.

Nolan, S.[#], Reynolds, C., Smith, G.[#], Jefferson, T., Hodges, S.[#], **Lugo, J. N.** (2016, December). "The effect of early-life status epilepticus on ultrasonic vocalizations in mice." American Epilepsy Society Annual Meeting, Houston, Texas.

Holley, A.[#] & **Lugo, J. N.*** (December 2016). An Acute Seizure Impairs the Long-Term Retention of a New Hippocampal-Dependent Memory. Poster presented at the annual conference of the American Epilepsy Society in Houston, TX.

Reynolds, C[†], Smith, G.[#], Jefferson, T.[†], Nolan, S. O.[#], **Lugo, J. N. *** (December 2016). The Effect of Early-Life Status Epilepticus on Ultrasonic Vocalizations in Mice. Poster presented at the annual conference of the American Epilepsy Society in Houston, TX.

Hodges, S. L.[#], Nolan, S. O.[#], Reynolds, C[†], Smith, G. D.[#], Holley, A.[#], Jefferson, T.[†], Huebschman, J[†], Volquardsen, M.[†], Pandian, A.[†], **Lugo, J. N. *** (November 2016). Characterization of the behavioral phenotype and neuroinflammatory profile of the FMR1 KO mouse. Poster presented at the annual conference of the Society for Neuroscience in San Diego, CA.

Nolan, S. O.[#], Hodges, S. L.[#], Smith, G. D.[#], Jefferson, T.[†], Escobar, B.[†], Holley, A. J., **Lugo, J. N. *** (November 2016). The effects of dietary supplementation with n-3 fatty acids on behavioral and neuroinflammatory phenotype of the Fmr1-knockout mouse. Poster presented at the annual conference of the Society for Neuroscience in San Diego, CA.

Holley, A., Binder, M. S., **Lugo, J. N. *** (November 2016). An acute seizure impairs the long-term retention of a new hippocampal-dependent memory. Poster presented at the annual conference of the Society for Neuroscience in San Diego, CA.

Reynolds, C.[†], Nolan, S. O., Huebschman, **Lugo, J. N. *** (November 2016). Spectrographic analysis of the acute behavioral impact of early-life seizures on ultrasonic vocalizations in 129SvEvTac and C57BL/6 mice. Poster presented at the annual conference of the Society for Neuroscience in San Diego, CA.

Nolan, S.[#], Reynolds, C.[†], Smith, G[#]., Holley, A., Volquardsen, M.[†], Jefferson, T.[†], Pandian, A.[†], Smith, T.[†], Huebschman, J.[†], Hodges, S.[#], **Lugo, J.N. *** (April 2016). Deletion of fmr-1 results in both sex-specific and age-dependent changes in behavior. Poster presented at Reprogramming the Brain to Health Symposium: Dallas, TX.

Reynolds, C. D.[†], Smith, G.[†], Jefferson, T. [†], **Lugo, J. N. *** (October 2015). Characterization of neonatal ultrasonic vocalization behavior and neurodevelopmental signaling

after kainate- induced seizures in mice. Poster presented at the annual conference of the Society for Neuroscience in Chicago, IL.

Holley, A. J.[#] & **Lugo, J. N.*** (October 2015). The Effects of an Acute Flurothyl Seizure on Associative Learning and Memory. Poster presented at the annual conference of the Society for Neuroscience in Chicago, IL.

Nolan, S.[#], Reynolds, C.[†], Holley, A.[#], Volquardsen, M.[†], Jefferson, T.[†], Pandian, A.[†], Smith, T.[†], Huebschman, J.[†], **Lugo, J. N. *** (October 2015). Fragile X Knockout Mice Show Alterations in Activity Levels and Ultrasonic Vocalization Behaviors. Poster presented at the annual conference of the Society for Neuroscience in Chicago, IL.

Holley, A. J.[#] & **Lugo, J. N.*** (April 2015). A Single Acute Pre-training Seizure Impairs Long Term Fear Memory in Mice. Poster presented at the UT Learning and Memory Conference in Austin, TX.

Smith, G.[#], White, J.[†], Nicoletti, J. Y.[†], Pandian, A.[†], **Lugo, J. N. *** (April 2015). Superimposing Status Epilepticus on NS-PTEN Haploinsufficient and Wild Type Mice Results in Long-term Changes in Behavior. Poster presented at the UT Learning and Memory Conference in Austin, TX.

Nolan, S.[#], Smith, G.[#], Arbuckle, E.[#], Ahmed, N.[†], **Lugo, J. N. *** (April 2015). Comparing the long-term effects of seizures at different ages of development on learning and memory. Poster presented at the UT Learning and Memory Conference in Austin, TX.

Pandian, A.[†], Elston, T. W.[†], Smith, G[#], Holley, A.[#], Gao, N.[†], **Lugo, J. N. *** (April 2015). Repeated oral doses of aniracetam does not alter anxiety, locomotion, or learning and memory in adult C57BL/6J mice. Poster presented at the Baylor University Scholars Week in Waco, TX.

Reynolds, C.[†] & **Lugo, J. N. *** (April 2015). Neonatal Seizures Suppress Isolation-Induced Ultrasonic Vocalizations in Mice. Poster presented at the Baylor University Scholars Week in Waco, TX.

Holley, A. J.[#] & **Lugo, J. N.*** (December 2014). A Single Acute Pre-training Seizure Impairs Long Term Fear Memory in Mice. Poster presented at the American Epilepsy Meeting: Seattle, WA.

Smith, G.[#], White, J.[†], Nicoletti, J. Y.[†], Pandian, A.[†], **Lugo, J. N. *** (December 2014). Superimposing Status Epilepticus on NS-PTEN Haploinsufficient and Wild Type Mice Results in Long-term Changes in Behavior. Poster presented at the Society for Neuroscience Annual Meeting: Washington, D. C.

Pandian, A.[†], Elston, T. W.[†], Smith, G[#], Holley, A.[#], Gao, N.[†], **Lugo, J. N. *** (November 2014). Repeated oral doses of aniracetam does not alter anxiety, locomotion, or learning and memory in adult C57BL/6J mice. Poster presented at the Society for Neuroscience Annual Meeting: Washington, D. C.

Smith, G.[#], White, J.[†], Nicoletti, J. Y.[†], Pandian, A.[†], **Lugo, J. N. *** (November 2014). The Effects of Superimposing Seizure Induction on NS-PTEN Haploinsufficient and Wild Type Mice. Poster presented at the Society for Neuroscience Annual Meeting: Washington, D. C.

Thompson, M. Huber, P., Smith, G.[#], Holley, A.[#], Bain, S., Gardiner, E., **Lugo, J. N.,** Kwon, R. (September 2014). Brain-Specific PTEN Deletion Induces Abnormal Skeletal Activity in Mice. Poster presented at the American Society for Bone and Mineral Research Annual Meeting: Houston, TX.

Elston, T.[†] & **Lugo, J. N. *** (March 2014). Aniracetam and Behavior. Platform presentation during the URSA Scholars Week poster session: Waco, TX

Gao, N.[†], Smith, G.[#], **Lugo, J. N.*** (March 2014). Kv4.2 Knockout Mice have Learning Deficits in the Lashley Maze. Poster presented during the URSA Scholars Week poster session: Waco, TX.

Smith, G.[#], Morrison, J.[†], White, J.[†], **Lugo, J. N.*** (November 2013). Deletion of PTEN results in deficits in fear conditioning and increases the Fragile X Mental Retardation protein. Poster presented at the Society for Neuroscience: San Diego, CA.

Holley, A.[#], Smith, G.[#], Arbuckle, E.[#], **Lugo J. N.*** (November 2013). Neuronal-Specific deletion of PTEN Results in Motor Learning Deficits and Hyperactivity. Poster presented at the Society for Neuroscience: San Diego, CA.

Ahmed, N.[†], Smith, G.[#], Arbuckle, E.[#], **Lugo, J. N. *** (November 2013). Early-life seizures result in long-term elevation in anxiety in mice and spatial learning deficits. Poster presented at the Society for Neuroscience: San Diego, CA; and presented during Faculty for Undergraduate Neuroscience poster session.

Elston, T.[†], Pandian, A.[†], **Lugo, J.N.*** (November 2013). Effects of Aniracetam, a Cognition Enhancer, in Healthy Subjects. Poster presented at the Society for Neuroscience Faculty for Undergraduate Neuroscience poster session: San Diego, CA.

Floruta, C.[†], Smith, G.[#], Arbuckle, E.[#] and **Lugo J. N.*** (April 2013). Social Behavior Deficits in PTEN Knockout Mice. Poster presented during the URSA Scholars Week poster session: Waco, TX. *Poster selected for most outstanding poster in Neuroscience.

White, J.[†], Smith, G[#]., Arbuckle, E. [#] and **Lugo J. N.*** (April 2013). Deletion of PTEN in neurons results in alterations in repetitive behavior in mice. Poster presented during the URSA Scholars Week poster session: Waco, TX.

Ahmed, N.[†], Smith, G.[#], Arbuckle, E.[#], **Lugo, J. N.*** (April 2013). Early-life seizures result in long-term elevation in anxiety in mice and spatial learning deficits. Poster presented during the URSA Scholars Week poster session: Waco, TX.

Holley, A.[#], Smith, G.[#], Arbuckle, E.[#], **Lugo J. N.*** (April 2013). Deletion of PTEN in Cerebellar Granule Cells Results in Motor Learning deficits and hyperactivity. Poster presented at the Learning and Memory Conference at University of Texas at Austin: Austin, TX.

Arbuckle, E.[#], Smith, G.[#], Morrison, J.[†], White, J.[†] and **Lugo, J. N. *** (April 2013). Hyperactivation of mTOR results in hippocampal-dependent learning and memory deficits. Poster presented at the Learning and Memory Conference at University of Texas at Austin: Austin, TX.

Smith, G.[#], Arbuckle, E.[#], Ahmed, N.[†], **Lugo, J. N.*** (April 2013). Early Postnatal Seizures Result in Spatial Learning Deficits and Increases Anxiety in Adult Mice. Poster presented at the Learning and Memory Conference at University of Texas at Austin: Austin, TX.

Arbuckle, E.[#], Smith, G.[#], Morrison, J.[†], Floruta, C.[†], Okonkwo, O.[†], **Lugo, J. N.*** (December 2012). Long-term MTOR hyperactivation leads to social behavior and learning and memory deficits. Poster presented at the American Society for Epilepsy meeting: San Diego, CA.

Carter, A., Brewster, A. L., **Lugo, J. N.,** Patil, V. V., Lee, W. L., Qian, Y., Vanegas, F., Anderson, A. E. (December 2012). MTORC1 inhibition rescues learning and memory but not social deficits following status epilepticus. Poster presented at the American Society for Epilepsy meeting: San Diego, CA.

Smith, G.[#], Arbuckle, E.[#], **Lugo, J. N.*** (October 2012). Early-life seizures result in a long-term elevation of anxiety in adult mice. Poster presented at the Society for Neuroscience: New Orleans, LA.

Lugo, J. N., Brewster, A., Li, Y., Anderson, A. E. (January 2012). Alterations in mTOR pathway signaling following status epilepticus in immature vs. mature rats. Poster presented at the Winter Conference on Brain Research: Snowbird, UT.

Lugo, J. N., Brewster, A., Patil, V., Nguyen, L., Sunnen, Vanegas, F., D'Arcangelo, G., Anderson, A. E. (December 2011). Long-term early mTOR inhibition is required to maintain suppression of the epilepsy phenotype in NS-Pten knockout mice. Poster presented at the American Society for Epilepsy Investigator's Workshop in Baltimore, M.D.

Lugo, J. N., Brewster, A., Patil, V., Nguyen, L., Sunnen, Vanegas, F., D'Arcangelo, G., Anderson, A. E. (November 2011). Long-term mTOR inhibition is required to maintain suppression of the epilepsy phenotype in NS-Pten knockout mice. Poster presented at the Society for Neuroscience Meeting in Washington, DC.

Lugo, J.N., Sunnen, N. Ljungberg, M. C., Vanegas, F., D'Arcangelo, Anderson, A. E. (January 2011). Intermittent mTOR inhibition is sufficient to block the epilepsy phenotype in NS-Pten conditional knockout mice. Poster presented in the Winter Conference on Brain Research meeting in Keystone, CO. Accepted into the special award session for Winter Brain.

Brewster, A. L., **Lugo, J. N.,** Vanegas, F., Qian, Y., Anderson, A. E. (January 2011). mTORC1 suppression reverses the dendritic damage and spatial learning and memory deficits induced by prolonged seizures. Poster presented in the Winter Conference on Brain Research meeting in Keystone, CO.

Lugo, J.N. Winoske, K., Swann, J. W., Anderson, A. E. (December 2010). Deficits in memory and social behavior following seizures early in life. Poster presented at the American Epilepsy Society: San Antonio, TX.

Brewster, A. L., **Lugo, J. N.,** Vanegas, F., Qian, Y., Anderson, A. E. (December 2010). A candidate role for aberrant mTOR signaling in SE-associated alterations in dendritic ion channel homeostasis. Poster presented at the American Epilepsy Society: San Antonio, TX.

Lugo, J.N. Winiske, K., Swann, J. W., Anderson, A. E. (November 2010). Early-life seizures produce long-term deficits in learning and memory and social behavior. Poster presented at the Society for Neuroscience. San Diego, C.A.

Brewster, A. L., **Lugo, J. N.,** Vanegas, F., Qian, Y., Anderson, A. E. (November 2010). Aberrant mTOR signaling cascade in epilepsy. Poster presented at the Society for Neuroscience. San Diego, C.A.

Lugo, J. N., Brewster, A. L., Anderson, A. E. (December 2009). Long-term alterations in social behavior and the mTOR pathway following early-life seizures. Poster presented at the American Epilepsy Society. Boston, MA.

Sunnen, N. Ljungberg, M. C., Parghi, D., **Lugo, J. N.,** D'Arcangelo, Anderson, A. E. (December 2009). Rapamycin rescues epilepsy and mossy fiber sprouting in a NS-PTEN knockout model of cortical dysplasia. Poster presented at the American Epilepsy Society. Boston, MA.

Lugo, J. N., Brewster, A. L., Anderson, A. E. (October 2009). Early-life seizures produce long-term alterations on social behavior and the mTOR signaling pathway in female mice. Poster presented at Society for Neuroscience Meeting. Chicago, IL.

Sunnen, N. Ljungberg, M. C., **Lugo, J. N.,** Parghi, D., D'Arcangelo, Anderson, A. E. (October 2009). TORC1 inhibition rescues epilepsy and mossy fiber sprouting in NS-PTEN knockout mice. Poster presented at Society for Neuroscience Meeting. Chicago, IL.

Lugo, J.N & Anderson, A. E. (December 2008). Early-life seizures produce sex-specific effects on social behavior. Poster presented at American Epilepsy Society: Seattle, WA.

Lugo, J.N & Anderson, A. E. (November 2008). Early-life seizures produce long-term effects on social behavior in female mice. Poster presented at Society for Neuroscience: Washington, D. C.

S. J. Gertz, S. J., Willis, S. E., **Lugo, J. N.,** Anderson, A. E., & Barnwell, L. F. (December 2007). Alterations in Kv4 channels: A candidate mechanism in sudden death in epilepsy. Poster presented at American Epilepsy Society Meeting: 3.048, Philadelphia, PA.

Lee, W., **Lugo Jr., J. N.** & Anderson, A. E. (December 2007). Status epilepticus is associated with alternations in Kv4.2 regulation and subcellular localization. Poster presented at American Epilepsy Society Meeting: 3.043, Philadelphia, PA.

Jung, S., Jones, T. D., **Lugo Jr., J. N.,** Sherrin, A. H., Sherrin, J. W., D'Ambrosio, R., Anderson, A. E., Poolos, N. P. (December 2007). Persistent downregulation of hippocampal pyramidal HCN channels following pilocarpine-induced status epilepticus. Poster presented at American Epilepsy Society Meeting: 3.016, Philadelphia, PA.

Lugo Jr., J. N. & Anderson, A. E. (November 2007). Kv4.2 channels are important determinants of seizure susceptibility and long-term consequences of early-life seizures. Poster presented at Society for Neuroscience: 253.7, San Diego, CA.

Jung, S., Jones, T. D., Lugo Jr., J. N., Sherrin, A. H., Sherrin, J. W., D'Ambrosio, R., Anderson, A. E., Poolos, N. P. (November 2007). Downregulation of hippocampal HCN channels during epileptogenesis in the rat pilocarpine model of temporal lobe epilepsy. Poster presented at Society for Neuroscience: 467.1, San Diego, CA.

Lugo Jr., J. N. & Anderson, A. E. (March 2007). Kv4.2 Channels are Important Determinants of Seizure Susceptibility and Long-term Consequences of Early-life Seizures. Poster presented at Curing Epilepsy 2007: Translating Discoveries into Therapies.

Ljunberg, C., Sunnen, N., **Lugo, J. N.,** Anderson A. E., D'Arcangelo, G. (2006). Elevated PI3K/mTOR pathway activity in brain disorders associated with epilepsy and cell growth abnormalities. Poster presented at Keystone Meeting.

Lugo Jr., J. N, Willis, S. E., Barnwell, L.F., Anderson, A. E. (December 2006). Kv4.2 Channels Regulate Seizure Susceptibility in the Immature Brain. Poster presented at American Epilepsy Society Meeting: BS.26, San Diego, CA.

Barnwell, L. B., Ren, Y., **Lugo Jr. J. N.,** and Anderson, A. E. (December 2006). Modulation of Synaptic Kv4.2 in Hippocampus during Status Epilepticus Modulation of Synaptic Kv4.2 in Hippocampus during Status Epilepticus. Poster presented at American Epilepsy Society Meeting: 3.003, San Diego, CA.

Lugo Jr., J. N, Willis, S. E., Barnwell, L.F., Anderson, A. E. (October 2006).Seizure susceptibility and long-term consequences of early-life seizures in Kv4.2 deficient mice. Poster presented at Society for Neuroscience, 82.4 Atlanta, GA.

Ljunberg, C., Sunnen, N., **Lugo, J. N.,** Anderson A. E., D'Arcangelo, G. (2006). Cortical phenotype and seizure activity in conditional GFAP-PTEN knockout mice. Poster presented at Society for Neuroscience: 280.18, Atlanta, GA.

Lugo Jr., J. N, Willis, S. E., Barnwell, L.F., Anderson, A. E. (August 2006). Neuroprotective Role of Kv4.2 in Early-Life Seizures. Poster presented at Gordon Research Conference, Colby, MA.

Lugo Jr., J. N., Lee, W. L., Anderson, A. E., & Schrader, L. A. (August 2006). Developmental Regulation of the Contribution of HCN and SK Channels to Spiking Activity of Hippocampal CA1 Pyramidal Cells. Poster presented at Gordon Research Conference, Colby, MA.

Lugo Jr., J. N., Lee, W. L., Barnwell, L. F., Schrader, L. A., and Anderson, A. E. (December 2005). Developmental Regulation of Ca++-activated Small Conductance K+ channels in Hippocampus. Poster presented at American Epilepsy Society Meeting, Washington, D.C.

Lugo Jr., J. N., Lee, W. L., Barnwell, L. F., Anderson, A. E., & Schrader, L. A. (October 2005). Potassium Channel Regulation in Developing Hippocampus. Poster presented at Society for Neuroscience, Washington, D. C.

Gass, J. T., **Lugo Jr., J. N.,** Marino, M. D., & Kelly, S. J. (October 2005). The effect of perinatal alcohol exposure on ultrasonic vocalization response to isolation: the role of alcohol withdrawal. Poster presented at Society for Neuroscience, Washington, D. C.

Lugo, Jr., J. N. & Kelly, S. J. (October, 2004). Effect of early ethanol exposure on mu and delta receptors in adult male and female rats. Poster presented at the Society for Neuroscience, San Diego, CA.

Lugo, Jr., J. N., Marino, M. D., Gass, J. T., Heape, C. E., & Kelly, S. J. (November, 2002). The effect of perinatal ethanol exposure on aggressive behaviors in male and female rats. Poster presented at the Society for Neuroscience, Orlando, FL.

Gass, J. T., Marino, M. D., **Lugo, J. N.,** Reese, M. K., & Kelly, S. J. (November, 2002). Perinatal alcohol exposure alters sexual behavior in rats. Poster presented at the Society for Neuroscience, Orlando, FL.

Lugo, Jr., J. N. Heape, C. E., Kelly, S. J., Mascagni, F., McDonald, A.J., Wilson, S. P., Wilson, M. A. (March, 2002). The effects of altered enkephalin expression in amygdala on

ethanol self-administration. Poster Session presented at the New York Academy of Sciences Meeting: The Amygdala in Brain Function: Basic and Clinical Approaches, Galveston, TX.

Burghardt, P. R., **Lugo, J.,** Primeaux, S.P., Wilson, Wilson, M.A. (March, 2002). Effect of amygdalar opioids on the anxiolytic properties of ethanol. Data Blitz Session presented at the New York Academy of Sciences Meeting: The Amygdala in Brain Function: Basic and Clinical Approaches, Galveston, TX.

Lugo, J. N. & Kelly, S. J. (2001). Perinatal alcohol exposure decreases volume of accessory olfactory and frontotemporal systems of the extended amygdala. Poster Session presented at the Society for Neuroscience, San Diego, CA.

Lugo, Jr., J. N., Cronise, K., Marino, M. D., Slappey, L. S., Kelly, S. J. (2001). Effects of perinatal ethanol exposure on social behaviors in juvenile rats. Poster presented at the Research Society on Alcoholism, Montreal, Canada.

Lugo, Jr., J. N., Marino, M. D., Cronise, K., Slappey, L. S., Kelly, S. J. (2001). Effects of Perinatal Alcohol Exposure on the Social Response System in Juvenile Rats. Paper Session presented at the South Carolina Academy of Science, Conway, SC.

Marino, M. D., Cronise, K., **Lugo, J. N.,** Kelly, S. J. (2001). Pup vocalizatios and mother-infant interactions in a rat model of fetal alcohol syndrome. Paper Session presented at the South Carolina Academy of Science, Conway, SC.

Cronise, K. Marino, M. D., **Lugo, J. N.,** Slappey, L. S., & Kelly, S. J. (2000). Effects of perinatal ethanol exposure on attentive maternal behaviors. Poster presented at Society for Neuroscience, New Orleans, LA.

Lugo, J. N., Cronise, K., Marino, M. D., Slappey, L. S., & Kelly, S. J. (2000). Effects of perinatal ethanol exposure on social motivation in juvenile rats. Poster session presented at the fall meeting of Society for Neuroscience, New Orleans, LA.

Marino, M. D., Cronise, K., **Lugo, J. N.,** Slappey, L. S., & Kelly, S. J. (2000). Effects of combined prenatal and postnatal alcohol exposure on dam/pup interactions: retrieval latencies. Poster presented at the Society for Neuroscience, New Orleans, LA.

Marino, M. D., Cronise, K., Tran, T. D., **Lugo, J. N.,** Slappey, L. S., & Kelly, S. J. (2000). Critical periods of perinatal alcohol exposure on activity and exploratory behavior. Poster session presented at the Research Society on Alcoholism, Denver, CO.

Graham, D. L., Diaz-Granados, J. L., Herin, D., **Lugo, J.,** Riley, H., and Tallman, D. (1999). Adolescent ETOH exposure alters subsequent ETOH-induced conditioned taste aversions in adult C3H mice. Poster presented at the Society for Neuroscience, Miami, FL.

Batson, J. D., Lugo, J., and Batsell, W. R., (April 1999). Tests of a "Sensory Channeling" hypothesis of Potentiated Flavor Aversions. Paper session at the 45th meeting of the Southwestern Psychological Association, Albuquerque, N.M.

Gilbert, M. D., Michalski, R., Graham, D. L., Herin, D. V., **Lugo, J. L.,** Seaton, J. R., & Patton, J. H. (1998). Environmentally regulated anger and hostility predict parietal P300 evoked potential amplitude. Poster presented at the Society For Neuroscience: *24,* 692.

Nash-Spooner, S., Barker, L. M., & **Lugo, J.** (April, 1997). Flavor preferences are enhanced by conditioned inhibition, not Garcia's "medicine effect". Poster resented at the 43rd meeting of the Southwestern Psychological Association, Ft. Worth, TX.

UNDERGRADUATE AND GRADUATE STUDENT AWARDS

1. **Siena Condon** (2020) was the recipient of the F. Ray Wilson II Award for Best Thesis.
2. **Samantha Hodges** (2019) was the recipient of the Fall 2019 Outstanding Graduate Research Award recipient for STEM at Baylor University.
3. **Suzanne Nolan** (2018) was the recipient of the Society for Neuroscience Travel Award.
4. **Samantha Hodges** (2018) was the recipient of the Society for Neuroscience Travel Award.

5. **Conner Reynolds** (2017) was the recipient of the F. Ray Wilson II Award for Best Thesis.
6. **Samantha Hodges** (2018) was accepted into the NIH Clinical Center's Clinical and Translational Research Course.
7. **Suzanne Nolan** (2016). Acceptance into the Marine Biology Laboratories Summer Program in Neuroscience, Excellence and Success (SPINES) program.
8. **Taylor Jefferson** (2015) Travel award to attend the Gulf Coast Undergraduate Research Symposium, Rice University on October 17, 2015. She also received the Most Outstanding presentation award in her session.
9. **Gregory Smith** (2014) $1200 American Epilepsy Society Fellows travel award to attend the AES annual society meeting in Seattle, WA.
10. **Jessica Morrison** (2014) was the recipient of the F. Ray Wilson II Award for Best Thesis.
11. **Erin Arbuckle** (2013) $1200 American Epilepsy Society Fellows travel award to attend the AES annual society meeting in San Diego, CA.
12. **Crina Floruta** (2013) Received the Best Poster in Neuroscience award during the Baylor University Scholars Day poster session.

HONORS AND AWARDS

2016	Inducted as a Fellow of the American Epilepsy Society
2016	Recipient of an Early-Career Investigator Travel Award from the Keystone Symposia to attend "Microglia in the Brain" conference in Keystone, CO.
2015	Acceptance into the Early Career Institute through the University of Pittsburgh.
2015	Recipient of the ADInstruments Educator Scholarship to attend the CrawFly workshop in Cornell University.
2014	Recipient of an Early-Career Investigator Travel Award from the Keystone Symposia to attend "Neuroinflammation in Diseases of the Central Nervous System" conference in Taos, NM.
2014	Acceptance into Broadening the Representation of Academic Investigators in NeuroScience (BRAINS) program.
2014	Recipient of Baylor University Teaching Development Grant to attend the Faculty for Undergraduate Neuroscience workshop in Ithaca, NY.
2014	Baylor University Summer Sabbatical
2013	Recipient of a travel award to attend the Curing the Epilepsies conference at the NIH.
2013	Baylor University Fall semester Sabbatical
2013	Baylor University Summer Sabbatical
2012	Recipient of a travel award to attend the American Society for Cell Biology meeting in San Francisco, C.A.
2012-3	Acceptance into the Keystone Symposia Fellows Program.
2012	Recipient of Baylor University Teaching Development Grant to attend the Winter Conference on Brain Research in Keystone, CO.
2011	Acceptance into the American Society for Cell Biology Minorities Affairs Committee Mentoring Program.
2010	Acceptance into the Society for Neuroscience Grant Proposal Mentoring Program.
2010	Recipient of a travel award to attend the NIH:NINDS' Grant Writing Workshop for Diversity Investigators.
2010	Recipient of a travel award to attend the NIH: NIGMS Workshop for Postdocs Transitioning to Independent Positions.

2009	Recipient of a travel award to present poster at the 3rd Annual Julius Axelrod Lecture Poster Session in the Society for Neuroscience meeting.
2009	Recipient of a travel award to attend the MAC 4th Annual Junior Faculty/ Postdoctoral Developmental Workshop in Chicago, IL.
2009-11	Faculty Institutes for Reforming Science Teaching (FIRST IV)-Postdoctoral Scholar-NSF sponsored program to provide training in teaching for postdoctoral Fellows. https://www.msu.edu/~first4/.
2008	Grass Fellowship: Research award given by the Grass Foundation to conduct research at the Marine Biological Laboratories in Woods Hole, MA. My research project was titled: The Effect of Transient Early-Life Seizures on the Behavior, Anatomy, and Function of the Developing Zebrafish Brain
12/07-12/10	Postdoctoral NRSA Fellowship; Sponsor: Anne E. Anderson
2005-2008	Society for Neuroscience Scholars Program-travel award to attend the Society for Neuroscience meeting and travel support for other scientific meetings.
2007	Recipient of a Travel Award to Curing Epilepsy 2007: Translating Discoveries into Therapies Meeting.
2007	Epilepsy Foundation Postdoctoral Fellowship: Sponsor Anne Anderson
2006	Recipient of a Carl Storm Underrepresented Minority Fellowship to attend the Gordon Conference: Mechanisms of Epilepsy and Neuronal Synchronization.
01/05-01/07	NINDS Minority Supplement Award; Sponsor: John W. Swann
8/00-7/04	Predoctoral NRSA Fellowship “Alcohol Exposure, Social behavior, and The Amygdala”; Sponsor: Sandra Jean Kelly.
4/01	Research Society on Alcoholism Student Merit/ Junior Investigator Award.
4/99	Recipient of the Southwestern Psychological Association award for Most Outstanding Undergraduate Presentation: Albuquerque, NM.
4/99	Recipient of the Baylor University Psychology and Neuroscience Department's Neuroscience Award for Most Outstanding Graduate.
4/99	Recipient of the Baylor University Psychology and Neuroscience Department's Neuroscience Award for Service.
4/98	Recipient of a Travel Award for the "Affective Neuroscience Symposium" at the University of Wisconsin-Madison.
4/98	Recipient of the Baylor University Psychology and Neuroscience Department's Neuroscience Award for Service.

PROFESSIONAL AFFILIATIONS

2000-Present	Society for Neuroscience, Member
2005-Present	American Epilepsy Foundation Member, Scientific Program Committee Member (2013-2015), Message Board Sub-Committee Member (2010-2014), Basic Sciences Committee Member (2015-2019), Special Interest Group Organizer (2015-2019). Fellows and Training Member (2019-Present). Vice Chair Fellows and Training (2020-Present).
2013-Present	Faculty for Undergraduate Neuroscience Member
2014-Present	Nu Rho Psi Member & Faculty Advisor
2012-14	American Cell Biology Society Member

TEACHING/TRAINING ACTIVITIES

Undergraduate Courses
Physiological Psychology
Introduction to Psychology

Introduction to Statistics
Learning and Behavior
Learning and Behavior Laboratory
Behavioral Neuroscience
Behavioral Neuroscience Laboratory
Advanced Principles in Neural Science
Advanced Principles in Neural Science Laboratory
Clinical Neuroscience
Neuroscience Literature

Graduate Courses
Learning and Behavior Theory
Psychology and Neuroscience Seminar

Undergraduate Trainees
Nicole Wagoner, 2010
Marc Kilonda, 2010-2011
Lucien Kilonda, 2010-2011
Crina Floruta, 2010-2013 (Graduated Honors)
Jessica Morrison, 2010-2013 (Graduated Honors)
Nathan Sanchez, 2011-2012

Obi Okonkwo, 2011-2013
Shane Waldrop, 2012-2013
Rachel Osomo, 2012-2013 (Graduated Honors)
Stephanie Schroeder 2013
Jessika White, 2011-14
Nowrin Ahmed, 2012-14
Porsha Mendez, 2012-14
Nanjing Gao, 2013-14
Ashvini Pandian, 2013-2015
Thomas Elston, 2013-14 (Graduated Honors)
Kristin Paredez, 2013-14
Ji Yeon Nicoletti, 2014
Timothy Hagan, 2014
Andrew Dieu, 2014
Conner Reynolds, 2014-16 (Graduated Honors)
Meagan Volquardsen, 2014-2015
Taylor Jefferson, 2014-2016
Jessica Huebschman, 2014-16 (Graduated Honors)
Tileena Smith, 2014-2015
Matthew Chandler 2015 Summer
James Okoh 2015-2017
Brianna Escobar 2015-2016
Anton Peroski 2015-2016
Jose Sanchez 2015-2016
Austin Macdonald 2015-16 (Graduated Honors)
Kaylin Ackerman 2016-2017
Christian Potter 2017-2018
Christian Hernandez-Zagada 2017-2018
Lindsay Tomac 2017-Summer 2018
Siena Condon 2017-2019 (Graduated Honors)

Graduate Trainees
Gregory Smith, 2011-16 (Graduated PhD.)
Erin Arbuckle, 2011-2013 (Graduated M.A).
Andy Holley, 2013-2018 (Graduated PhD)
Suzanne Nolan, 2014-18 (Graduated PhD)
Matthew Binder, 2015-19 (Graduated PhD)
Samantha Hodges, 2015-19
(Graduated PhD)
Paige Womble, 2018-Present
David Narvaiz, 2019-Present
Katherine Blandin, 2020-Present
John Reinhart, 2021-Present

High School Student Trainees
Anu Ancha Summer 2012
Jake Barrett Summer 2013

Undergraduate Trainees Continued
Eliesse Kwok 2017-Present
Dexter Nguyen 2020-2021(Honors)
Doan Nguyen 2020-Present
Srikhar Chilukuri 2020-Present
Aubrey Condon 2020-Present
Grace O' Neill 2021-Present
Layton Douglas 2021-Present
Taylor Wiley 2021-Present
Jacob Pilcher 2021-Present

Zachary Pranske 2017-2020
Rebecca Herrera 2017-2020
Illyasa Muhammad 2017-2020
Dalton Jones 2017-2019
Savannah Senger 2017-2020
Andrew Kim 2019-2020
Amanda Faust 2019-2020
Alyssa Darner 2019-2020
Saul Quintero 2019-2020

SERVICE

Professional Service

Ad hoc reviewer: National Institutes of Health in 2011 Study Section
Reviewer for following journals: *Public Library of Science –ONE; Physiology and Behavior; Journal of Neurophysiology; Epilepsia; NeuroToxicology; Genes, Brains, and Behavior; Brain Research; Scientific Reports; Brain and Behavioral Research; ENeuro; Epilepsy Research, Epilepsy and Behavior, Frontiers,*
American Epilepsy Foundation (AES) Web Content Reviewer 2011-2014
AES Scientific Program Committee 2013-2015
AES Scientific Special Interest Group Committee 2015-2020
AES-Basic Sciences Committee 2015-2018
Reviewer for the Faculty for Undergraduate Neuroscience Equipment Program (2015)
Panelist for Congressionally Directed Medical Research Programs (CDMRP) Idea Development Awards in November 2015, 2018, 2020, 2021
American Epilepsy Society Mentor for AES fellows program (2017, 2018).
Reviewer for American Epilepsy Society Postdoctoral fellowship program (2018)
Reviewer for Czech Science Foundation Grants (2018)
Reviewer for The French National Research Agency (2019)
Reviewer for the Natural Sciences and Engineering Research Council of Canada 2019-2020
Reviewer for the Austrian Science Fund (FWF) 2021

Departmental and University Service

Recording Secretary (2010-2011)
Member, Clinic Director Search (2012)
Member, Clinical Psychology Faculty Search (2013)
Member, Baylor University Summer Science Research Program Committee Member (2012-13)
Member, Institute of Biomedical Studies Program Committee (2013-Present)
Member, E.O. Wood scholarship committee (2012, 2013)
Member, Centennial Professor Committee (2015-2019)
Member, President's diversity committee Baylor University (2018-Present)
Member, Psychology and Neuroscience Tenure-track Faculty Search (2019)
Member, Task Force on Academic Support and Recitations Baylor University (2019-Present)

Service: Chair position

Organizer of Psychology and Neuroscience Seminar Series 2015-Present
Chair, Neuroscience Lecturer Faculty Search (2016)

Chair, Psychology and Neuroscience Tenure-track Faculty Search (2017)
Chair, Psychology and Neuroscience Tenure-track Faculty Search (2018)
Graduate Program Director (2018-Present)
Chair, Centennial Professor Committee (2020-Present)