

**CURRICULUM VITAE  
JULIA A. CHESTER, PH.D.**

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**Office Address:**

Purdue University  
Department of Psychological Sciences  
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**Education**

1998 Ph.D. Behavioral Neuroscience, Oregon Health and Science University, Portland, OR  
1996 M.S. Behavioral Neuroscience, Oregon Health and Science University, Portland, OR  
1993 B.A. Psychology (Minor: Biology), San Jose State University, San Jose, CA  
1990 A.A. Liberal Arts, De Anza College, Cupertino, CA

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**Academic Positions**

2023-present Associate Head for Research, Department of Psychological Sciences, Purdue University  
2021-2023 Associate Head, Department of Psychological Sciences, Purdue University  
2020-present Professor, Department of Psychological Sciences, Purdue University  
2009-2020 Associate Professor, Department of Psychological Sciences, Purdue University  
2003-2009 Assistant Professor, Department of Psychological Sciences, Purdue University  
2002-2003 Assistant Scientist, Department of Medicine, Indiana University  
1998-2002 Postdoctoral Fellow, Department of Medicine, Indiana University  
1993-1998 Graduate Student, Department of Behavioral Neuroscience, Oregon Health Sciences University (OHSU)  
1992-1993 Teaching Assistant, Department of Psychology, San Jose State University (SJSU)

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**Purdue University Research Affiliations**

- Faculty Member: Interdisciplinary Life Science Graduate Program (PULSe; 2003-present)
- Faculty Member: Ingestive Behavior Research Center (IBRC; 2005-present)
- Faculty Member: Oncological Sciences Center, Discovery Park (OSC; 2006-present)
- Faculty Member: Center for Research on Brain, Behavior, and NeuroRehabilitation (CEREBBRAL; 2016-present)

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**Research Areas of Interest**

- Addiction/Alcohol Use Disorders
- Animal Models of Psychiatric Co-morbidity
- Behavioral Genetics
- Behavioral Pharmacology
- Pavlovian Drug Conditioning
- Neuroendocrinology/Stress

## JULIA A. CHESTER, PH.D.

### Honors and Awards

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- Purdue Academic Course Transformation (IMPACT) X+ Fellow, 2021
- Senior Mentor, Teaching for Tomorrow Fellowship Program, Purdue University, 2019-2020
- Purdue University Seed for Success Award for Excellence in Research, 2018
- Book of Great Teachers, Purdue University, 2018
- Jane S. Link Outstanding Teaching Award, College of Health and Human Sciences, Purdue University, 2018
- James C. Naylor Award for Teaching Excellence in Psychology, Department of Psychological Sciences, Purdue University, 2016
- Travel Award, ISBRA (NIAAA), 2006
- Young Investigator Travel Award, IBANGS, 2005, 2006
- International Travel Grant, Purdue Research Foundation, 2004, 2006
- Research Incentive Grant Award, School of Liberal Arts, 2004, 2006
- Travel Award, NIAAA Workshop: Stress and Alcohol Abuse, 2002
- Junior Investigator Award, RSA, 2002
- Travel Award, The Neurobiology of Alcoholism and Addiction Symposium, 2001
- Travel Award, Keystone Symposia: Genetics of Alcohol and Substance Abuse, 2000
- NIAAA Postdoctoral Trainee, 1999-2002
- AccuScan Instruments Travel Fellowship, SFN, 1998
- Graduate Student Travel Award, Office of the Dean, OHSU, 1997
- Student Merit Award, RSA, 1996, 1998
- National Institute on Alcohol Abuse and Alcoholism (NIAAA) Predoctoral Trainee, 1993-1997
- Dean's Scholar, SJSU, 1992
- Outstanding Student Service Award, Associated Students 55 Club, SJSU, 1992
- De Anza College Honors Program, 1988-1989

### Grants and Fellowships

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#### **Current Support:**

National Institute of Environmental Health Sciences PHS R01 ES035019-01A1  
*"PFAS induced alterations in reward processing"*

**J.A. Chester, Co-Investigator**; D. Foti, Co-Principal Investigator; J.R. Cannon, Co-Principal Investigator

01/01/24-10/31/28; Total Direct Costs: \$2,151,272

Department of Defense

Peer Reviewed Medical Research Program Investigator-Initiated Research Award

*"Role of Comorbid Military-Relevant Stressors in Osteoarthritis"*

**J.A. Chester, Co-Investigator**; D. Little, Principal Investigator; J.R. Cannon, Co-Investigator

10/01/22-09/30/26; Total Direct Costs: \$1,151,791

Purdue Institute for Integrative Neuroscience, Purdue University

Purdue Animal Behavior Core Incentive Awards (3)

**J.A. Chester, Principal Investigator**

03/26/21-no expiry; Total Direct Costs: \$4,000

**JULIA A. CHESTER, PH.D.**

***Previous Support:***

National Institute on Alcohol Abuse and Alcoholism PHS R01 AA025368-01A1  
*"G-protein, beta-arrestin- and ERK-signaling in alcohol-use and anxiety-disorders"*

**J.A. Chester, Principal Investigator**; 09/10/2021-09/09/2023

R.M. van Rijn, Principal Investigator; J.A. Chester, Co-Investigator (09/10/2017-09/09/2021)  
09/10/2017-09/09/2023; Total Direct Costs: \$1,250,000

Purdue Institute for Integrative Neuroscience, Purdue University  
*"Pathways to substance use disorder: A unified model of animal and human neuroscience to predict illness development."*

**J.A. Chester, Co-Principal Investigator** with Chiu, Y.C., Foti, D. Linnes, J, Lynam, D., Hélie, S.  
07/01/2020-6/30/2023; Total Direct Costs \$150,000

CEREBBRAL Pilot Grant Funding Mechanism, Purdue University  
*"Environmental Risks for Psychiatric Disorders"*

**J.A. Chester, Co-Investigator**; J.R. Cannon, Co-Principal Investigator; D. Foti, Co-Principal Investigator; U. Emir, Co-Investigator  
07/01/2020-6/30/2023; Total Direct Costs: \$19,000

CEREBBRAL Pilot Grant Funding Mechanism, Purdue University  
*"Pre-clinical modeling of overlapping mechanisms and pathologies between Parkinson's disease and alcohol use disorders"*

**J.A. Chester, Principal Investigator**; J.R. Cannon, Co-Principal Investigator  
07/01/2019-6/30/2023; Total Direct Costs: \$5,000

NIH New R01 Program

Purdue Office of the Executive Vice President for Research and Partnerships

*"Identifying novel pharmacological treatments for co-morbid alcohol use and post-traumatic stress disorders"*

**J.A. Chester, Principal Investigator**

12/01/2016-12/31/2017; Total Direct Costs: \$30,000

Purdue Institute for Integrative Neuroscience

*"A new method for manipulating specific neural pathways during learning"*

**J.A. Chester, Co-Investigator**; S. Sangha, Principal Investigator

07/01/2016-06/30/2017; Total Direct Costs: \$5,000

Purdue Research Foundation

*"Sensitivity to nicotine in an animal model of alcohol use disorders"*

**J.A. Chester, Principal Investigator**/Research Advisor to Marcus Weera

06/01/2015-05/31/2016; Total Direct Costs: Half-time rate for graduate student stipend

NARSAD Independent Investigator Grant

Brain & Behavior Research Foundation

*"Pharmacological intervention for the treatment of Post-traumatic Stress Disorder (PTSD)-like behavior in a unique animal model for genetic propensity toward alcohol use disorders"*

**J.A. Chester, Principal Investigator**

07/15/2013-07/14/2015; Total Direct Costs: \$100,000

**JULIA A. CHESTER, PH.D.**

Purdue University Showalter Award

*"Nicotinic acetylcholine receptors as therapeutic targets for Parkinson's disease"*

**J.A. Chester, Co-Principal Investigator**; R.M. Drenan, Co-Principal Investigator;  
07/01/012-06/30/13; Total Direct Costs: \$75,000

National Institute on Alcohol Abuse and Alcoholism PHS R21 AA019529

*"Anxiety in a genetic animal model of alcoholism: Role of endocannabinoids"*

**J.A. Chester, Co-Principal Investigator**; E.L. Barker, Co-Principal Investigator  
04/01/10-03/31/13; Total Direct Costs: \$275,000

National Institute on Alcohol Abuse and Alcoholism PHS R21 AA016895

*"The role of cyclic AMP in alcohol withdrawal and mental disease"*

**J.A. Chester, Principal Investigator**  
07/01/09-06/30/13; Total Direct Costs: \$275,000

National Alliance for Research on Schizophrenia and Depression (NARSAD)

*"In vitro and in vivo PKC activation induces D3 and D1 dopamine receptor heteromers"*

**J.A. Chester, Co-Investigator**; V.J. Watts, Principal Investigator;  
10/01/09-09/30/12; Total Direct Costs: \$92,000

National Institute on Alcohol Abuse and Alcoholism PHS R01 AA106843

*"Anxiety and alcohol drinking in a genetic animal model of alcoholism"*

**J.A. Chester, Principal Investigator**  
09/28/07-08/31/12; Total Direct Costs: \$725,000

Indiana University/Purdue University Collaboration in Biomedical Research Pilot Grant Program

*"Identification of novel gene targets in a genetic animal model of alcoholism"*

**J.A. Chester, Co-Principal Investigator**; T. Liang, Co-Principal Investigator;  
01/01/08-06/3/10; Total Direct Costs: \$50,000 (\$21,409 to Purdue)

National Institute on Alcohol Abuse and Alcoholism PHS R03 AA015424

*"Measuring the aversive effects of alcohol withdrawal"*

**J.A. Chester, Principal Investigator**  
07/01/05-06/30/08; Total Direct Costs: \$100,000

Purdue Research Foundation Summer Faculty Grant Award

**J.A. Chester, Principal Investigator**

*"The role of stress in alcohol consumption and the risk for alcoholism"*

06/01/04-07/31/04; Total Direct Costs: \$7,000

National Institute on Alcohol Abuse and Alcoholism PHS 50 AA07611

Center on Genetic Determinants of Alcohol Ingestion D.W. Crabb, Center Director

Component 8: *"CNS genetic determinants of alcohol drinking in rats"*

**J.A. Chester, Co-Investigator**; W.J. McBride, Principal Investigator  
12/01/02-11/30/07; Total Direct Costs: \$1,024,618

**JULIA A. CHESTER, PH.D.**

National Institute on Alcohol Abuse and Alcoholism PHS R01 AA10709  
"Alcohol withdrawal in rat lines selected for preference"

**J.A. Chester, Co-Investigator**; J.C. Froehlich, Principal Investigator  
07/01/00-06/30/05; Total Direct Costs: \$1,547,639

Indiana Alcohol Research Center Research Incentive Program  
"Relationship between alcohol withdrawal severity and alcohol preference"

**J.A. Chester, Co-Investigator**; J.C. Froehlich, Principal Investigator  
04/01/01-3/31/02; Total Direct Costs: \$20,000

Indiana University Research Venture Award  
"Continuous measurement of physiological responses during alcohol withdrawal"

**J.A. Chester, Co-Investigator**; J.C. Froehlich, Principal Investigator  
07/19/99-07/18/00; Total Direct Costs" \$7,500

National Institute on Alcohol Abuse and Alcoholism F31 AA05489-01  
Individual National Research Service Award

"GABA receptors in ethanol place preference and aversion"  
**J.A. Chester, Fellow**, C.L. Cunningham, Sponsor  
08/04/1997-08/03/98; Total Direct Costs: \$19,887

Oregon Health Sciences University School of Medicine  
Tartar Trust Fellowship  
"Behavioral effects of cocaine in dopamine D<sub>4</sub> receptor knockout mice"

**J.A. Chester, Fellow**  
07/01/96-06/30/97; Total Direct Costs: \$2,000

**Published work (\*asterisk indicates primary author(s); superscript numbers indicate:  
<sup>1</sup>undergraduate student, <sup>2</sup>graduate student)**

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**Refereed articles:**

Smart, K.<sup>\*1</sup>, **Chester\***, **J. A.**, & Guberman, D. A. (under review). Empowering student learning: Examining the significance of student pedagogy advocacy in a large university context. *International Journal for Students as Partners*.

Mukadam<sup>\*2</sup>, A. A. & **Chester\***, **J. A.** (in press). Line- and Sex-Dependent Effects of Juvenile Stress on Contextual Fear- and Anxiety-related Behavior in High- and Low-Alcohol-Preferring Mouse Lines. *Behavioural Brain Research*.

Cullins<sup>\*1</sup>, E. & **Chester\***, **J. A.** (in press). Adolescent social isolation increases binge-like alcohol drinking in male but not female high-alcohol-preferring mice. *Alcohol and Alcoholism*.

Enkh-Amgalan\*, S., Brown-Leung, J. M., Syeda, T., Nolan, R. M., Cannon, J. R., & **Chester\***, **J. A.** (2023). Paraquat exposure produces sex-dependent reduction in binge-like alcohol drinking in high alcohol-preferring mice. *Food and Chemical Toxicology*. Apr;174:113685. doi: 10.1016/j.fct.2023.113685. Epub 2023 Feb 20

Ko<sup>\*2</sup>, M. J., Chiang, T., Mukadam, A. A., Mulia, G. E., **Chester, J. A.**, & van Rijn\*, R. M. (2021).  $\beta$ -arrestin 1 and 2 differentially modulate anxiety-like and conditioned fear-related behavior through isoform- and brain region-specific regulation of ERK1/2 signaling in mice. *Science Signaling*, 2021 Aug 3;14 (694):eaba0245. doi: 10.1126/scisignal.aba0245.

**JULIA A. CHESTER, PH.D.**

- Ding\*, Z., Knipp, G. T., van Rijn, R. M., **Chester, J. A.**, & Watts\*, V. J. (2021). The CUL3/neddylation inhibitor MLN4924 reduces ethanol-induced locomotor sensitization and inflammatory pain allodynia in mice. *Behavioural Brain Research*, 399:113051. doi: 10.1016/j.bbr.2020.113051. Epub 2020 Dec 3.
- Mueller\*, I. Adams<sup>1</sup>, D. D., Sangha, S., & **Chester\*, J. A.** (2021). Juvenile stress facilitates safety learning in male and female high alcohol preferring mice. *Behavioural Brain Research*, 400:113006. doi: 10.1016/j.bbr.2020.113006. Epub 2020 Nov 6.
- Kirchhoff, A. M., Barker, E. L., & **Chester\*, J. A.** (2019). Endocannabinoids and fear-related behavior in mice selectively bred for high or low alcohol preference. *Brain Sciences*, 9(10), pii: E254.
- Weera\*<sup>2</sup> M. M., Agim, Z., Cannon, J., & **Chester\*, J. A.** (2019). Genetic correlations between nicotine reinforcement-related behaviors and propensity toward high or low alcohol preference in two replicate mouse lines. *Genes, Brain and Behavior*, 18(3), e12515.
- Fernandez\*, R. F. Kim, S. Q., Zhao, Y., Foguth, R. M., Counihan, J. L., Weera,<sup>2</sup> M. M., **Chester, J. A.**, Nomura, D. K., Cannon, J. R., & Ellis\*, J. M. (2018). Acyl-CoA Synthetase 6 enriches the neuroprotective omega-3 fatty acid DHA in the brain. *Proceedings of the National Academy of Sciences of the United States of America (PNAS)*, 115(49), 12525-12530.
- Weera\*<sup>2</sup>, M. M., & **Chester\*, J. A.** (2018). Effects of nicotine on alcohol drinking in female mice selectively-bred for high or low alcohol preference. *Alcoholism: Clinical and Experimental Research*, 42(2):432-443. Epub 2018 Jan 15.
- Peng\*, C. Engle\*, S. E., Yan Y., Weera,<sup>2</sup> M. M., Berry, J. N., Arvin, M. C., Zhao G., McIntosh, J. M., **Chester, J. A.**, Drenan\*, R. M. (2017). Altered nicotine reward-associated behavior following  $\alpha 4$  NACHR subunit deletion in ventral midbrain. *Public Library of Science (PLoS) One*, 31;12(7):e0182142.
- Chester\*, J. A.**, & Weera,<sup>2</sup> M. M. (2017). Genetic correlation between alcohol preference and conditioned fear: Exploring a functional relationship. *Alcohol*, 58: 127-137. Published in a Special Issue on "Mouse Genetic Models of Alcohol and Stress-Alcohol Interactions."
- Qiu\*, B., Luczak, S. E., Wall, T. L., Kirchhoff, A. M., Xu, Y., Eng, M. Y., Stewart, R., Shou, W., Boehm II, S. L., **Chester, J. A.**, Yong, W., & Liang\*, T. (2016). FKBP5 gene affects alcohol drinking in knockout mice and is implicated in alcohol drinking in humans. *International Journal of Molecular Sciences*, 17(8): pii: E1271.
- Breit\*<sup>2</sup> K. R., & **Chester\*, J. A.** (2016). Effects of chronic stress on alcohol reward- and anxiety-related behavior in high- and low-alcohol preferring mice. *Alcoholism: Clinical and Experimental Research*, 39(12): 24 38-46.
- Powers\*,<sup>2</sup> M. S., Breit,<sup>2</sup> K. R., & **Chester\*, J. A.** (2015). Genetic versus pharmacological assessment of the role of cannabinoid type 2 receptors in alcohol reward-related behaviors. *Alcoholism: Clinical and Experimental Research*, 39(12): 2438-46. Selected as an article of public interest: (2015). Articles of Public Interest. *Alcoholism: Clinical and Experimental Research*, 39: 2267.
- Helms\*, C. M., Bell, R. L., Bennett, A. J., Davies, D. L., **Chester, J.A.**, Kosten, T. A., Leeman, R. F., Panicker, S., Platt, D. M., Weiner, J. L., & Edwards\*, S. (2015). The importance of animals in advancing research on alcohol use disorders. *Alcoholism: Clinical and Experimental Research*, 39(4): 575-8.
- Yong\*, W., Spence, J. P., Eskay, R. Fitz, S. D., Damadzic, R., Lai, D., Foroud, T., Carr, L. G., Shekhar, A., **Chester, J. A.**, Heilig, M., Liang\*, T. (2014). Alcohol-preferring rats show

**JULIA A. CHESTER, PH.D.**

- decreased corticotropin-releasing hormone 2 receptor expression and respond differently to restraint stress compared to -nonpreferring rats. *Alcoholism: Clinical and Experimental Research*, 38(5): 1275-83. Epub 2014 Mar 10.
- Huang\*, M. C., Schwandt, M. L., **Chester, J. A.**, Kirchhoff, A. M., Kao, C. Liang, T., Tapocik, J. D., Ramchandani, V. A., George, D. T., Hodgkinson, C. A., Goldman, D., Heilig\*, M. (2014). FKBP5 moderates alcohol withdrawal severity: Human genetic association and functional validation in knockout mice *Neuropsychopharmacology*, 39(8): 2029-38. Epub 2014 Mar 7.
- Powers\*<sup>2</sup> M. S., **Chester\***, **J. A.** (2014). Effects of stress, acute alcohol treatment, or both on prepulse inhibition in high- and low- alcohol preferring mice. *Alcohol*, 48(2): 113-22. Epub 2014 Jan 8.
- Powers\*<sup>2</sup> M. S., Broderick, H., Drenan\*, R. M., **Chester\***, **J. A.** (2013). Nicotinic acetylcholine receptors containing  $\alpha 6$  subunits modulate alcohol reward behaviors. *Genes, Brain and Behavior*, 12(5), 543-53. Epub 2013 May 7.
- Han\*, C., Salyer, A. E., Kim, E. H., Jiang, X., Jarrard, R. E., Powers,<sup>2</sup> M. S., Kirchhoff, A. M., Salvador, T. K., **Chester, J. A.**, Hockerman, G. H., Colby\*, D. A. (2013). Evaluation of difluoromethyl ketones as agonists of the gamma-aminobutyric acid type B (GABA<sub>B</sub>) receptor. *Journal of Medicinal Chemistry*, 56(6), 2456-65, Epub 2013 Mar 6.
- Chester\***, **J.A.**, Kirchhoff, A. M., Barrenha,<sup>2</sup> G. D. (2013). Relation between corticosterone and fear-related behavior in mice selectively bred for high or low alcohol preference. *Addiction Biology*, Epub 2013 Jan 21.
- Han\*, B., Wright, R., Kirchhoff, A. M., **Chester, J. A.**, Cooper, B. R., Davisson, V. J., Barker\*, E. L. (2013). Quantitative LC-MS/MS analysis of arachidonoyl amino acids in mouse brain with treatment of FAAH inhibitor. *Analytical Biochemistry*, 432(2), 74-81. Epub 2012 Oct 5.
- Barrenha\*<sup>2</sup>, G. D., **Chester\***, **J. A.** (2012). Effects of cross-fostering on alcohol preference and correlated responses to selection in high- and low-alcohol preferring mice. *Alcoholism: Clinical and Experimental Research*, 36(12), 2065-73. Epub 2012 May 16.
- Barrenha\*<sup>2</sup>, G. D., Coon, L. E., **Chester\***, **J. A.** (2011). Effects of alcohol on the acquisition and expression of fear potentiated startle in mouse lines selectively bred for high and low alcohol preference. *Psychopharmacology*, 218(1), 191-201. Epub 2011 Apr 13.
- Powers<sup>2</sup>, M. S., Barrenha<sup>2</sup>, G. D., Mlinac<sup>2</sup>, N. S., Barker, E. L., **Chester\***, **J. A.** (2010). Effects of the novel endocannabinoid uptake inhibitor, LY2183240, on fear-potentiated startle and alcohol-seeking behaviors in mice selectively bred for high alcohol preference. *Psychopharmacology*, 212(4), 571-83. Epub 2010 Sep 14.
- Chester\***, **J.A.**, Coon, L.E. (2010). Pentylentetrazol produces a conditioned place aversion to alcohol withdrawal in mice. *Pharmacology, Biochemistry and Behavior*, 95(2), 258-65. Epub 2010 Feb 9.
- Placzek\*, E. A., Cooper, B. R., Placzek, A. T., **Chester, J. A.**, Davisson, V. J., Barker\*, E. L. (2010). Lipidomic metabolism analysis of the endogenous cannabinoid anandamide (N-arachidonylethanolamide). *Journal of Pharmaceutical and Biomedical Analysis*, 53(3), 567-75. Epub 2010 Apr 1.
- Mill\*, C. P., **Chester, J. A.**, Riese\*, D. J. (2009) EGFR may couple moderate alcohol consumption to increased breast cancer risk. *Breast Cancer (London)*, 1, 31-38.
- Timberlake\*, W., Leffel, J., **Chester, J. A.**, Froehlich\*, J. C. (2009). Alcohol intake during choice in three pairs of rat lines selectively bred for differences in alcohol preference: Effects of forced alcohol drinking. *Alcohol*, 43(2), 105-118.

**JULIA A. CHESTER, PH.D.**

- Przybyla\*, J. A. Cueva, J. P. Chemel, B. R., Hsu, K. J., Riese, D. J. II, McCorvy<sup>2</sup>, J. D., **Chester, J. A.**, Nichols, D. E., & Watts\*, V. J. (2009). Comparison of the enantiomers of (±)-doxanthrine, a high efficacy full dopamine D1 receptor agonist, and a reversal of enantioselectivity at D1 versus alpha2C adrenergic receptors. *European Neuropsychopharmacology*, 9(2), 138-146. Epub 2008 Nov 21.
- Chester\***, J. A., Barrenha<sup>2</sup>, G. D., Hughes<sup>1</sup>, M. L., & Keuneke<sup>1</sup>, K. J. (2008) Age- and sex-dependent effects of footshock stress on subsequent alcohol drinking and acoustic startle behavior in mice selectively bred for high alcohol preference. *Alcoholism: Clinical and Experimental Research*, 32(10), 1782-1794. Epub 2008 Jul 23.
- Chester\***, J. A., & Barrenha<sup>2</sup>, G. D. (2007). Acoustic startle at baseline and during acute alcohol withdrawal in replicate mouse lines selectively bred for high or low alcohol preference. *Alcoholism: Clinical and Experimental Research*, 31(10), 1633-1644. Epub 2007 Sept 17.
- Barrenha<sup>2</sup>, G. D., & **Chester\***, J. A. (2007). Genetic correlation between innate alcohol preference and fear-potentiated startle in selected mouse lines. *Alcoholism: Clinical and Experimental Research*, 31(7), 1081-1088. Epub 2007 Apr 19.
- Chester\***, J. A., Rausch, E. J., June, H. L., & Froehlich\*, J. C. (2006). Decreased reward during acute alcohol withdrawal in rats selectively bred for low alcohol drinking. *Alcohol*, 38(3), 165-172. Epub 2006 July 28.
- Chester\***, J. A., Mullins, A. J., Nguyen, C. H., Watts, V. J., & Meisel\*, R. L. (2006). Repeated quinpirole treatments produce neurochemical sensitization and associated behavioral changes in female hamsters. *Psychopharmacology*, 188(1), 53-62. Epub 2006 July 19.
- Chester\***, J. A., Barrenha, G. D., DeMaria<sup>1</sup>, A., & Finegan<sup>1</sup>, A. (2006). Different effects of stress on alcohol drinking behavior in male and female mice selectively bred for high alcohol preference. *Alcohol and Alcoholism*, 41(1), 44-53.
- Chester\***, J. A., Blose, A. M., & Froehlich\*, J. C. (2005). Effects of chronic alcohol treatment on acoustic startle reactivity during withdrawal and subsequent alcohol intake in high and low alcohol drinking rats. *Alcohol and Alcoholism*, 40(5), 379-87.
- Chester\***, J. A., Blose, A. M., & Froehlich\*, J. C. (2004). Acoustic startle reactivity during acute alcohol withdrawal in rats that differ in genetic predisposition toward alcohol drinking: Effect of stimulus characteristics. *Alcoholism: Clinical and Experimental Research*, 28(5), 677-687.
- Chester\***, J. A., Blose, A. M., & Froehlich\*, J. C. (2004). Effects of stress on alcohol consumption in rats selectively bred for high or low alcohol drinking. *Alcoholism: Clinical and Experimental Research*, 28(3), 385-393.
- Chester\***, J. A., Blose, A. M., & Froehlich\*, J. C. (2003). Further evidence of an inverse genetic relationship between innate differences in alcohol preference and alcohol withdrawal magnitude in multiple selectively bred rat lines. *Alcoholism: Clinical and Experimental Research*, 27(3), 377-387.
- Chester\***, J. A., Lumeng, L., Li, T.-K., & Grahame\*, N. J. (2003). High and low alcohol-preferring mice show differences in conditioned taste aversion to alcohol. *Alcoholism: Clinical and Experimental Research*, 27(1), 12-18.
- Chester\***, J. A., Price, C. S., & Froehlich\*, J. C. (2002). Inverse genetic association between alcohol preference and severity of alcohol withdrawal in rats. *Alcoholism: Clinical and Experimental Research*, 26(1), 19-27.
- Chester\***, J. A., Grahame, N. J., Li, T.-K., Lumeng, L., & Froehlich\*, J. C. (2001). Effects of acamprosate on sensitization to alcohol's locomotor-stimulant effects in mice selectively

**JULIA A. CHESTER, PH.D.**

- bred for high (HAP) and low (LAP) alcohol preference. *Behavioural Pharmacology*, 12(6), 535-543.
- Grahame\*, N. J., **Chester, J. A.**, Rodd-Henricks, K., Li, T.-K., & Lumeng, L. (2001). Alcohol place preference conditioning in high- and low-alcohol preferring selected lines of mice. *Pharmacology, Biochemistry and Behavior*, 68(4), 805-814.
- Chester\***, J. A., & Cunningham\*, C. L. (1999). Baclofen alters ethanol-stimulated activity but not conditioned place preference or taste aversion in mice. *Pharmacology, Biochemistry and Behavior*, 63(2), 325-331.
- Chester\***, J. A., & Cunningham\*, C. L. (1999). GABA<sub>A</sub> receptors modulate ethanol-induced conditioned place preference and taste aversion in mice. *Psychopharmacology*, 144, 363-372.
- Wood\*, R. D., Shen, E. H., **Chester, J. A.**, & Phillips\*, T. J. (1999). Ontogeny of ethanol-induced locomotor activity and hypothermia differences in selectively-bred FAST and SLOW mice. *Pharmacology, Biochemistry and Behavior*, 62(2), 339-347.
- Chester\***, J. A., Risinger, F. O., & Cunningham\*, C. L. (1998). Ethanol reward and aversion in mice bred for sensitivity to ethanol withdrawal. *Alcoholism: Clinical and Experimental Research*, 22(2), 468-473.
- Chester\***, J. A., & Cunningham\*, C. L. (1998). Modulation of corticosterone does not affect the acquisition or expression of ethanol-induced conditioned place preference in DBA/2J mice. *Pharmacology, Biochemistry and Behavior*, 59(1), 67-75.
- Rubinstein\*, M., Phillips, T. J., Bunzow J. R., Falzone, T. L., Dziewczapolski, G., Zhang, G., Fang, Y., Larson, J. L., McDougall, J. A., **Chester, J. A.**, Saez, C., Pugsley, T. A., Gershanik, O., Low, M. J., & Grandy\*, D. K. (1997). Mice lacking dopamine D4 receptors are supersensitive to ethanol, cocaine, and methamphetamine. *Cell*, 90, 991-1001.
- Finn\*, D. A., Phillips, T. J., Okorn, D. M., **Chester, J. A.**, & Cunningham\*, C. L. (1997). Rewarding effect of the neuroactive steroid 3 $\alpha$ -hydroxy-5 $\alpha$ -pregnan-20-one in mice. *Pharmacology, Biochemistry and Behavior*, 56(2), 261-264.

**Book chapters:**

- Chester\***, J. A. (2018). A genetic mouse model for co-morbid alcohol use disorder and posttraumatic stress disorder. In: Foti, D. and Sangha, S. (eds.) *Neurobiology of Abnormal Emotion and Motivated Behaviors*, pp. 164-180. Cambridge: Academic Press.
- Ehlers\*, C. L., **Chester\***, J. A. (2009). Alcoholism. In: Squire, L.R. (ed.) *Encyclopedia of Neuroscience*, vol. 1, pp. 231-236. Oxford: Academic Press.

**Refereed invited review articles:**

- Chester\***, J. A., & Cunningham, C. L. (2002). GABA<sub>A</sub> receptor modulation of the rewarding and aversive effects of ethanol. *Alcohol*, 26, 131-143.

**Invited review articles:**

- Chester\***, J. A., & Watts\*, V. J. (2007). Adenylyl cyclase 5 - A new clue in the search for the "Fountain of Youth"? *Science STKE*, 413, pe64.

**Published conference reports:**

- Faingold, C. L., Knapp, D. J., **Chester\***, J. A., & Gonzalez, L. P. (2004). Integrative neurobiology

## JULIA A. CHESTER, PH.D.

of the alcohol withdrawal syndrome-From anxiety to seizures. *Alcoholism: Clinical and Experimental Research*, 28(2), 268-278.

### **White paper:**

**Chester\*, J. A.** (2020). Importance of nonhuman animals for alcohol research. Research Society on Alcohol. [RSA White Paper \(researchsocietyonalcohol.org\)](https://www.researchsocietyonalcohol.org)

### **Published Abstracts/Conference Presentations:**

- Aroor<sup>\*2</sup>, A., Enkh-Amgalan<sup>\*2</sup>, S., Prater<sup>1</sup>, K. R., Lipscomb<sup>1</sup>, E. B., & **Chester\*, J. A.** (June, 2023). Effects of chronic intermittent alcohol exposure on object recognition memory in aged mice with a genetic propensity toward high alcohol preference. *Alcoholism: Clinical and Experimental Research*, Vol. 47 (S1), 489 (730).
- Cullins<sup>\*1</sup>, E. C., & **Chester\*, J. A.** (June, 2023). Adolescent social isolation increases binge-like alcohol drinking in high-alcohol-preferring mice. *Alcoholism: Clinical and Experimental Research*, Vol. 47 (S1), 266 (256).
- Enkh-Amgalan<sup>\*2</sup>, S., Brown, J. M., Syeda, T. B., Foguth, R. M., Cannon, J. R., & **Chester\*, J. A.** (June, 2022). Effects of the environmental toxicant, paraquat, on alcohol-induced locomotor sensitization in high- and low-alcohol-preferring mice. *Alcoholism: Clinical and Experimental Research*, Vol. 46 (S1), 188A (508).
- Enkh-Amgalan<sup>\*2</sup>, S., Brown, J., Foguth, R., Syeda, T., Cannon, J., & **Chester\*, J. A.** (June, 2021). Effects of the environmental toxicant, paraquat, on binge-like alcohol drinking and striatal catecholamines in high-alcohol-preferring mice. *Alcoholism: Clinical and Experimental Research*, Vol. 45, 82A-83A.
- Mueller\*, I., Sangha, S., & **Chester\*, J. A.** (June, 2020). Juvenile stress affects fear-related learning in male and female high-alcohol-preferring mice. *Alcoholism: Clinical and Experimental Research*, Vol. 44 (s1), 29A (088).
- Ko<sup>\*2</sup> M. J., Chiang, T., Mukadam, A. M., Mulia, G. E., **Chester, J. A.**, & van Rijn, R. M. (October, 2019).  $\beta$ -arrestin-dependent opioid signaling positively contributes to reduced conditioned fear and anxiety-like behavior. Poster presented at the Society for Neuroscience meeting, Chicago, IL.
- Mueller\*, I., Adams<sup>1</sup>, D. D., Sangha, S., & **Chester, J. A.** (March, 2019). Juvenile stress effects on fear-related learning in male and female high-alcohol-preferring mice. Poster presented at the Greater Indiana Society for Neuroscience meeting, Indianapolis, IN.
- Ding, Z., Ejendal, K. F. K., Watts, V. J., & **Chester\*, J. A.** (June, 2018). Inhibition of the neddylation pathway interferes with the development of sensitization to the locomotor stimulant effects of ethanol in mice. *Alcoholism: Clinical and Experimental Research*, Vol. 42, 221A. Poster presented at the Research Society on Alcoholism meeting, San Diego, CA.
- Ko<sup>\*2</sup> M. J., Chiang, T., Mukadam, A. A., Mulia, G. E., Weera,<sup>2</sup> M. M., **Chester, J. A.**, & van Rijn, R. M. (June, 2018). Contribution of  $\beta$ -arrestin and ERK signaling in the anxiolytic-like effects of the  $\delta$ -opioid receptor ( $\delta$ OR) agonist SNC80. Poster presented at the International Narcotics Research Conference, San Diego, CA.
- Ellis\*, J. M., Fernandez, R. F., Zhao, Y., Counihan, J. L., Nomura, D. K., & **Chester, J. A.** (April, 2018). Long-Chain Acyl-CoA synthetase 6 deficiency reduces brain omega-3 fatty acid DHA and disrupts motor control. *Federation of American Societies for Experimental Biology (FASEB) Journal*, 32 (1). Poster presented at the Experimental Biology meeting,

**JULIA A. CHESTER, PH.D.**

San Diego, CA.

- Ko<sup>\*2</sup> M. J., Chiang, T., Weera,<sup>2</sup> M. M., **Chester, J. A.**, & van Rijn, R. M. (January, 2018).  $\beta$ -arrestin-biased signaling at  $\delta$ -opioid receptor ( $\delta$ OR) as a novel therapeutic target for anxiety disorders. Poster presented at the 83rd Cold Spring Harbor Laboratory Symposium on Quantitative Biology, Cold Spring Harbor, NY.
- Ko<sup>\*2</sup> M. J., Chiang, T., Weera,<sup>2</sup> M. M., **Chester, J. A.**, & van Rijn, R. M. (December, 2017).  $\beta$ -arrestin2-biased signaling at delta-opioid receptor (DOR) as a novel therapeutic target for anxiety disorders (new data in poster). Poster presented at the Clinical and Translational Sciences Institute annual meeting, Indianapolis, Indiana.
- Ko<sup>\*2</sup> M. J., Chiang, T., Weera,<sup>2</sup> M. M., **Chester, J. A.**, & van Rijn, R. M. (November, 2017).  $\beta$ -arrestin2-biased signaling at delta-opioid receptor (DOR) as a novel therapeutic target for anxiety disorders. Poster presented at the *Society for Neuroscience* meeting, Washington, D.C.
- Weera<sup>\*2</sup>, M. M., **Chester\***, **J. A.** (June, 2017). Nicotine-induced conditioned taste aversion in high- and low-alcohol preferring mice. *Alcoholism: Clinical and Experimental Research*, Vol. 41(s1).
- Weera<sup>\*2</sup>, M. M., **Chester\***, **J. A.** (June, 2016). Effects of repeated acute nicotine injections on alcohol two-bottle choice and binge-like drinking in high and low alcohol preferring female mice. *Alcoholism: Clinical and Experimental Research*, Vol. 40(s1), 247.
- Weera<sup>\*2</sup>, M. M., **Chester\***, **J. A.** (June, 2015). Nicotine place conditioning in mice selectively bred for high or low alcohol preference. *Alcoholism: Clinical and Experimental Research*, Vol. 39(s1), 68A.
- Breit<sup>\*2</sup>, K. R., **Chester\***, **J. A.** (June, 2014). The effects of adolescent chronic stress on alcohol-related reward in adulthood in mice selectively bred for high or low alcohol preference. *Alcoholism: Clinical and Experimental Research*, Vol. 38(s1), 0051, 13A.
- Matson\*, L., Kirchhoff, A. M., **Chester J. A.**, Zimmer, R., Quoilin, C., Grahame\*, N. J. (June, 2014). Emotional reactivity to incentive downshift and corticosterone response as correlated responses to selection for high alcohol preference. *Alcoholism: Clinical and Experimental Research*, Vol. 38(s1), 0057, 15A.
- Weera<sup>\*2</sup>, M. M., Shih, P. Y., Drenan, R. M., **Chester\***, **J. A.** (2014, May). Nicotine and alcohol reward-related responses in mice selectively-bred for high or low alcohol preference. *Genes, Brain and Behavior (IBANGS)*.
- Huang\*, M., Schwandt, M. L. **Chester, J. A.** Kirchhoff, A. M., Kao, C., Liang, T., Tapocik, J. D. Ramchandani, V. A., George, D. T., Hodgkinson, C. A., Goldman, D., Heilig\*, M. (2013, December). FKBP5 moderates alcohol withdrawal severity: human genetic association and functional validation in knockout mice. *Neuropsychopharmacology (ACNP)*.
- Powers<sup>\*2</sup>, M. S., **Chester\***, **J. A.** (2013, June). The CB1 antagonist, Rimonabant, decreases alcohol intake but increases alcohol-induced conditioned place preference in high alcohol preferring mice. *Alcoholism: Clinical and Experimental Research*, Vol. 37(2), 700, 186A.
- Kirchhoff, A. M., **Chester\***, **J. A.** (2013, June). Assessment of alcohol withdrawal-related disorders in animal models of alcohol dependence and co-morbid disorders. *Alcoholism: Clinical and Experimental Research*, Vol. 37(2), 902, 236A.
- Chester\***, **J. A.**, Barker, E. L., Kirchhoff, A. M. (2013, June). The endocannabinoid agonist, CP55940, reduces the expression of fear-potentiated startle in mice selectively bred for high alcohol preference. *Alcoholism: Clinical and Experimental Research*, Vol. 37(2), 701, 186A.

**JULIA A. CHESTER, PH.D.**

- Chester\***, J. A. (2012, June). Anxiety and alcohol drinking in high and low alcohol preferring mice. *Alcoholism: Clinical and Experimental Research*, Vol. 36 (6sl), S041, 314A.
- Chester\***, J. A., Barker, E. L., Kirchoff, A. M., Han, B. (2012, June). Endocannabinoids and fear-related behavior in mice selectively bred for high or low alcohol preference. *Alcoholism: Clinical and Experimental Research*, Vol. 36 (6sl), 0706, 187A.
- Powers\*<sup>2</sup>, M. S., Broderick, H., Drenan, R. M., **Chester\***, J. A. (2012, June). Involvement of hypersensitive  $\alpha 6$  subunit containing neuronal nicotinic acetylcholine receptors in modulating alcohol intake and preference. *Alcoholism: Clinical and Experimental Research*, Vol. 36 (6sl), 0673, 179A.
- Chester\***, J. A., Kirchoff, A.M., Barrenha<sup>2</sup>, G. D. (2012, June). Relation between corticosterone and fear-related behavior in mice selectively bred for high or low alcohol preference. *Alcoholism: Clinical and Experimental Research*, Vol. 36 (6sl), 0417, 115A.
- Liang\*, T., Wong, W., Eng, M.Y., Shou, W., **Chester**, J. A., Wall, T. L. (2011). Association of glucocorticoid receptor binding protein FKBP5 with alcohol drinking behavior in knock out mice and human subjects. *Alcoholism: Clinical and Experimental Research*, Vol. 35 (6), 0503, 136A.
- Chester\***, J. A. (2011, June). Genetic correlation between alcohol preference and conditioned fear: evidence for a functional relationship. *Alcoholism: Clinical and Experimental Research*, Vol. 35 (6sl), 0744, 196A.
- Powers\*<sup>2</sup>, M. S., & **Chester\***, J. A. (2011, June). Prepulse inhibition in mice selectively bred for high or low alcohol preference: effects of repeated stress or acute alcohol exposure, or both. *Alcoholism: Clinical and Experimental Research*, Vol. 35 (6sl), 0177, 55A.
- Chester\***, J. A. (2010, June). The controversial evidence that stress induces drinking: Results from preclinical studies. *Alcoholism: Clinical and Experimental Research*, Vol. 34 (6sl), S093, 268A.
- Powers\*<sup>2</sup>, M. S., & **Chester\***, J. A. (2010, June). Effects of acute alcohol exposure on prepulse inhibition in mice selectively bred for high and low alcohol preference. *Alcoholism: Clinical and Experimental Research*, Vol. 34 (6sl), 710, 188A.
- Liang\*, T., & **Chester\***, J. A. (2010, June). Corticotropin-releasing factor receptor 2 response to stress and alcohol drinking in HAP2 and LAP2 mice. *Alcoholism: Clinical and Experimental Research*, Vol. 34 (6sl), 274, 79A.
- Barrenha\*<sup>2</sup>, G. D., & **Chester\***, J. A. (2009, June). Cross-fostering does not affect fear-potentiated startle in mice selectively bred for high alcohol preference. *Alcoholism: Clinical and Experimental Research*, Vol. 33 (6sl), 518, 140A. Poster presented at the Research Society on Alcoholism meeting, San Diego, CA.
- Chester\***, J. A., Barker, E. L., Barrenha<sup>2</sup>, G. D., & Mlinac<sup>2</sup>, N. S. (2009, June). Assessment of endocannabinoid modulation on the expression of conditioned fear in high alcohol preferring mice. *Alcoholism: Clinical and Experimental Research*, Vol. 33 (6sl), 546, 147A. Poster presented at the Research Society on Alcoholism meeting, San Diego, CA.
- Chester\***, J. A., & Gallt, L. E. (2009, June). Pentelenetetrazol produces conditioned place aversion to alcohol withdrawal in mice. *Alcoholism: Clinical and Experimental Research*, Vol. 33 (6sl), 581, 156A. Poster presented at the Research Society on Alcoholism meeting, San Diego, CA.
- Barrenha\*<sup>2</sup>, G. D., & **Chester\***, J. A. (2008, June). Cross-fostering does not alter alcohol intake behavior in mice selectively bred for high alcohol preference. *Alcoholism: Clinical and Experimental Research*, Vol. 32 (6sl), 835, 219A. Poster presented at the Research

**JULIA A. CHESTER, PH.D.**

- Society on Alcoholism meeting, Washington, DC.
- Barrenha<sup>\*2</sup>, G. D., & **Chester\***, J. A. (2008, June). Anxiolytic effect of alcohol in high-alcohol-preferring but not low-alcohol-preferring mice. *Alcoholism: Clinical and Experimental Research, Vol. 32 (6s1)*, 261, 76A. Poster presented at the Research Society on Alcoholism meeting, Washington, D.C.
- Barrenha<sup>\*2</sup>, G. D., & **Chester\***, J. A. (2008, May). Different corticosterone response to fear-related stimuli in mice selectively bred for high (HAP) and low (LAP) alcohol preference. *Genes, Brain, & Behavior, in press*. Poster presented at the International Behavioural and Neural Genetics Society, Portland, OR.
- Chester\***, J. A. (2007, July). Acoustic startle modulation in mouse lines selectively bred for high or low alcohol preference. *Alcoholism: Clinical and Experimental Research, Vol. 31 (6s1)*, 004, 249A. Symposium presented at the Research Society on Alcoholism meeting, Chicago, IL.
- Barrenha<sup>\*2</sup>, G. D., & **Chester\***, J. A. (2007, July). Effects of alcohol on fear-potentiated startle in two replicate mouse lines selectively bred for high- and low-alcohol preference. *Alcoholism: Clinical and Experimental Research, Vol. 31 (6s1)*, 820, 213A. Poster presented at the Research Society on Alcoholism meeting, Chicago, IL.
- Timberlake\*, W., **Chester, J. A.**, Leffel, J. K., & Froehlich\*, J. C. (2007, July). Effect of forced alcohol intake on subsequent consumption of alcohol by three pairs of rat lines bred for high or low alcohol drinking. *Alcoholism: Clinical and Experimental Research, Vol. 31 (6s1)*, 266, 75A. Poster presented at the Research Society on Alcoholism meeting, Chicago, IL.
- Alexander, L. L., **Chester, J. A.**, & Froehlich\*, J. C. (2007, July). Utility of rats selectively bred for high alcohol drinking (HAD line) as a preclinical screening tool for medications development. *Alcoholism: Clinical and Experimental Research, Vol. 31 (6s1)*, 525, 140A. Poster presented at the Research Society on Alcoholism meeting, Chicago, IL.
- Chester\***, J. A., Hughes<sup>1</sup>, M. L., & Barrenha<sup>2</sup>, G. D. (2006, September). Stress during adolescence increases alcohol drinking and alters prepulse inhibition in adult mice selectively bred for high alcohol preference. *Alcoholism: Clinical and Experimental Research, Vol. 30 (9s1)*, 706, 129A. Poster presented at the International Society for Biomedical Research on Alcoholism meeting, Sydney, AU.
- Chester\***, J. A., & Barrenha<sup>\*2</sup>, G. D. (2006, June). Selectively bred high-alcohol-preferring mice show greater fear-potentiated startle than low-alcohol-preferring mice. *Alcoholism: Clinical and Experimental Research, Vol. 30 (6s1)*, 467, 123A. Poster presented at the Research Society on Alcoholism meeting, Baltimore, MD.
- Chester\***, J. A., & Barrenha<sup>\*2</sup>, G. D. (2006, May). Effects of alcohol on fear-potentiated startle in mice selectively bred for high (HAP) or low (LAP) alcohol preference. Poster presented at the International Behavioural and Neural Genetics Society, Vancouver, BC.
- Watts\*, V. J., Bradley, K. C., Nguyen, C. H., Mullins, A. J., Vortherms, T. A., Meisel, R. L., **Chester, J. A.** (2006, March). D<sub>2</sub> dopamine receptor-induced heterologous sensitization of recombinant and endogenous adenylyl cyclases. Symposium presented at the Spring Brain Meeting, Sedona, AZ.
- Chester\***, J. A., Reichwage, J. P., & Froehlich\*, J. C. (2005, June). CNS hyperexcitability and the alcohol deprivation effect. *Alcoholism: Clinical and Experimental Research, Vol. 29, No. 5, 64, 17A*. Poster presented at the Research Society on Alcoholism meeting, Santa Barbara, CA.

**JULIA A. CHESTER, PH.D.**

- Chester\*, J. A. (2005, June). Acoustic startle reactivity during alcohol withdrawal in mouse lines selectively bred for high or low alcohol preference. *Alcoholism: Clinical and Experimental Research, Vol. 29, No. 5, 846, 148A*. Poster presented at the Research Society on Alcoholism meeting, Santa Barbara, CA.
- Chester\***, J. A., Barrenha,<sup>2</sup> G. D., DeMaria,<sup>1</sup> A., & Finegan,<sup>1</sup> A. (2005, November). Effects of stress on alcohol drinking behavior in mice selectively bred for high alcohol preference. *Society for Neuroscience Online Abstract Viewer, 680.10*. Poster presented at the Society for Neuroscience meeting, Washington, DC.
- Chester\***, J. A., Mullins, A. J., Nguyen, C. H., Watts, V. J., & Meisel\*, R. L. (2004, October). Effects of chronic quinpirole on behavioral and neurochemical sensitization in female hamsters. *Society for Neuroscience Online Abstract Viewer, 466.19*. Poster presented at the Society for Neuroscience meeting, San Diego, CA.
- Chester\***, J. A., & Froehlich\*, J. C. (2004, June). Chronic alcohol treatment suppresses acoustic startle reactivity during withdrawal and reduces subsequent alcohol intake in high alcohol drinking rats. *Alcoholism: Clinical and Experimental Research, Vol. 28, No. 5, 806, 141A*. Poster presented at the Research Society on Alcoholism meeting, Vancouver, BC.
- Chester\***, J. A., Reichwage, J. P., & Froehlich\*, J. C. (2004, June). Relationship between innate sensitivity to alcohol withdrawal and alcohol drinking behavior in rats selectively bred for high and low alcohol drinking. *Alcoholism: Clinical and Experimental Research, Vol. 28, No. 5, 45, 14A*. Poster presented at the Research Society on Alcoholism meeting, Vancouver, BC.
- Chester\***, J. A., & Froehlich\*, J. C. (2003, June). Acoustic startle reactivity during withdrawal from chronic alcohol treatment in high and low alcohol drinking rats. *Alcoholism: Clinical and Experimental Research, Vol 27, No. 5, 553, 98A*. Poster presented at the Research Society on Alcoholism meeting, Ft. Lauderdale, FL.
- Chester\***, J. A., Rausch, E.J., Asmaro, R. B., Seyoum, R., June, H. L., & Froehlich\*, J. C. (2003, June). Responding for electrical brain stimulation (EBS) over repeated sessions as an index of alcohol withdrawal in rats. *Alcoholism: Clinical and Experimental Research, Vol 27, No. 5, 552, 97A*. Poster presented at the Research Society on Alcoholism meeting, Ft. Lauderdale, FL.
- Chester\***, J. A., & Froehlich\*, J. C. (2002, November). Acoustic startle reactivity during alcohol withdrawal in rats selectively bred for differences in alcohol drinking. *Society for Neuroscience Online Abstract Viewer, Program No. 899.14*. Poster presented at the Society for Neuroscience meeting, Orlando, FL.
- Rausch\*, E. J., **Chester, J. A.**, Asmaro, R. B., June, H. L., & Froehlich\*, J. C. (2002, November). Response to electrical brain stimulation is a sensitive index of alcohol withdrawal severity in rats. *Society for Neuroscience Online Abstract Viewer, Program No. 899.13*. Poster presented at the Society for Neuroscience meeting, Orlando, FL.
- Chester\***, J. A., & Froehlich\*, J. C. (2002, June). Analysis of acoustic startle reactivity during alcohol withdrawal in high and low alcohol drinking rats. *Alcoholism: Clinical and Experimental Research Vol. 26, No.5, 116A(666)*. Poster presented at the Research Society on Alcoholism meeting, San Francisco, CA.
- Chester\***, J. A., & Froehlich\*, J. C. (2002, June). Effects of stress on alcohol intake in high and low alcohol drinking rats. *Alcoholism: Clinical and Experimental Research, Vol. 26, No.5, 114A(652)*. Poster presented at the Research Society on Alcoholism meeting, San Francisco, CA.

**JULIA A. CHESTER, PH.D.**

- Chester\***, J. A., & Froehlich\*, J. C. (2001, November). Inverse genetic association between alcohol drinking and stimulus reactivity during alcohol withdrawal. *Society for Neuroscience Abstracts, Vol 27, Program No. 444.13*. Poster presented at the Society for Neuroscience meeting, San Diego, CA.
- Chester\***, J. A., & Froehlich\*, J. C. (2001, June). High Alcohol Drinking and Low Alcohol Drinking rat lines differ in acoustic startle responses at baseline and during alcohol withdrawal. *Alcoholism: Clinical and Experimental Research, 98, 23A*. Poster presented at the Research Society on Alcoholism meeting, Montréal, QC.
- Chester\***, J. A., Lumeng, L., Li, T.–K, & Grahame\*, N. J. (2001, April). High and low alcohol preferring mice show differences in alcohol-induced conditioned taste aversion. Poster presented at the Neurobiology of Alcoholism and Addiction Symposium, San Francisco, CA.
- Chester\***, J. A., & Froehlich\*, J. C. (2000, June). Differences in alcohol withdrawal in rat lines selectively bred for alcohol preference and nonpreference. *Alcoholism: Clinical and Experimental Research, 499, 90A*. Poster presented at the Research Society on Alcoholism meeting, Denver, CO.
- Chester\***, J. A., Grahame\*, N. J., Lumeng, L., Li, T.–K, & Froehlich, J. C. (2000). Alcohol withdrawal-induced conditioned place aversion in low alcohol-preferring (LAP) mice. *Alcoholism: Clinical and Experimental Research, 258, 49A*. Poster presented at the Keystone Symposia: Genetics of Alcohol and Substance Abuse, Tahoe City, CA (January) and at the Research Society on Alcoholism meeting, Denver, CO (June).
- Chester\***, J. A., Grahame\*, N. J., Lumeng, L., Li, T.–K, & Froehlich\*, J. C. (1999, October). Effects of acamprosate on sensitization to ethanol-induced locomotor activity in mice selectively bred for high (HAP) and low (LAP) alcohol preference. *Society for Neuroscience Abstracts, 1077, 439.3*. Poster presented at the Society for Neuroscience meeting, Miami Beach, FL.
- Badia-Elder\*, N. E., **Chester, J. A.**, Zink, R. W., McCullough, D. E., Portoghese, P. S., & Froehlich\*, J. C. (1999, June). Irreversible mu opioid receptor antagonist increases alcohol drinking. *Alcoholism: Clinical and Experimental Research, 83, 19A*. Poster presented at the Research Society on Alcoholism meeting, Santa Barbara, CA.
- Chester\***, J. A., Cunningham\*, C. L. (1998, November). Picrotoxin alters the acquisition of ethanol-induced conditioned place preference and taste aversion in mice. *Society for Neuroscience Abstracts, 1962, 778.1*. Poster presented at the Society for Neuroscience meeting, Los Angeles, CA.
- Chester\***, J. A., & Cunningham\*, C. L. (1998, June). Bicuculline effects on the acquisition of ethanol-induced conditioned place preference and taste aversion in mice. *Alcoholism: Clinical and Experimental Research, 22, 49A*. Poster presented at the Research Society on Alcoholism meeting, Hilton Head, SC.
- Chester\***, J. A., Piercy, M., Rubenstein, M., Low, M. J., Grandy, D. K., & Phillips\*, T. J. (1997, October). Effects of locomotor-stimulant drugs in dopamine D<sub>4</sub> receptor knockout and wild type mice. *Society for Neuroscience Abstracts, 23, 271.4*. Poster presented at the Society for Neuroscience meeting, New Orleans, LA.
- Chester\***, J. A., & Cunningham\*, C. L. (1997, July). Picrotoxin interferes with the acquisition of ethanol-induced conditioned place preference in mice. *Alcoholism: Clinical and Experimental Research, 21, 8A*. Poster presented at the Research Society on Alcoholism meeting, San Francisco, CA.

## JULIA A. CHESTER, PH.D.

- Chester\***, J. A., Risinger, F. O., & Cunningham\*, C. L. (1996, June). Ethanol-induced conditioned place preference and conditioned taste aversion in HAW and LAW selected lines of mice. *Alcoholism: Clinical and Experimental Research*, 20, 59A. Poster presented at the Research Society on Alcoholism meeting, Washington, DC.
- Chester\***, J. A., & Cunningham\*, C. L. (1995, June). Effects of aminoglutethimide on expression of conditioned place preference with ethanol. *Alcoholism: Clinical and Experimental Research*, 19, 36A. Poster presented at the Research Society on Alcoholism meeting, Steamboat Springs, CO.

### Invited Presentations/Panels

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- Chester, J. A. (2021) *Interactions Between Alcohol Drinking and Fear Expression in Mice*, Midwestern Psychological Association, Virtual Conference.
- Chester, J. A. (2019) *A Mouse Model for Co-Morbid Alcohol Use and Post-traumatic Stress Disorders*, Dept. of Psychological Sciences Neuroscience Area Colloquium, Purdue University, IN.
- Chester, J. A. (2018) *Animal Models to Study Alcohol Use and Traumatic Brain Injury*, Brain and Spinal Cord Injury Seminar Series, Purdue Institutes for Integrative Neuroscience and Drug Discovery, Purdue University, IN.
- Chester, J. A. (2017) *A Mouse Model for Co-morbid Alcohol Use Disorder and Post-traumatic Stress Disorder*, Behavioral Neuroscience and Psychopharmacology Program, Department of Psychology, University of Kentucky, Lexington, KY.
- Chester, J. A. (2017) *Sensitivity to the Motivational Effects of Alcohol and Nicotine are Correlated in Mice Selectively Bred for High or Low Alcohol Preference*, local NIDA (Neuroscientists Interested in Drug Abuse) seminar series, University of Kentucky, Lexington, KY.
- Chester, J. A. (2017) *A Mouse Model for Co-Morbid Alcohol Use and Post-traumatic Stress Disorders*, Psychological Sciences Department (Clinical Colloquium), Purdue University, IN.
- Chester, J. A. (2016) *Behavioral and Biological Traits Associated with Genetic Propensity Toward Alcohol Drinking*, Biology Department, Purdue University-Calumet, Hammond, IN.
- Chester, J. A. (2015) *Pursuing Genetic Mechanisms that Influence Sensitivity to Alcohol and Nicotine in Mice Selectively Bred for High and Low Alcohol Preference*, Psychology Department, Indiana University-Purdue University Indianapolis (IUPUI), Indianapolis, IN.
- Chester, J. A. (2014) *Assessing Genetic Influences on Psychiatric Comorbidity Phenotypes in an Animal Model of Alcoholism*, Midwestern Psychological Association, Chicago, IL.
- Chester, J. A. (2012) *Anxiety and Alcohol Drinking in High and Low Alcohol Preferring Mice*, Scientific Meeting of the Research Society on Alcoholism, San Francisco, CA.
- Chester, J. A. (2012) *Anxiety and Alcohol Drinking in a Genetic Animal Model of Alcoholism*, Psychology Department, Indiana University-Purdue University Indianapolis (IUPUI), Indianapolis, IN.
- Chester, J. A. (2010) *The Controversial Evidence that Stress Induces Drinking: Results from Preclinical Studies*, Scientific Meeting of the Research Society on Alcoholism, San Antonio, TX.
- Chester, J. A. (2009) *Alcoholic Beverages*, Symposium on Beverages and Health, Indianapolis, IN (invited discussant).
- Chester, J. A. (2009) *Alcohol Withdrawal-related Phenotypes in Mice Selectively Bred for High or Low Alcohol Preference*, Scientific Meeting of the International Behavioural and Neural Genetics Society, Dresden, Germany (declined due to unanticipated conflict).

## JULIA A. CHESTER, PH.D.

- Chester, J. A. (2007) *Acoustic Startle Modulation in Mouse Lines Selectively Bred for High or Low Alcohol Preference*, Scientific Meeting of the Research Society on Alcoholism, Chicago, IL.
- Chester, J. A. (2007) *Stress, Anxiety, and Alcohol Drinking Behavior in a Genetic Animal Model of Alcoholism*, Psychology Department, DePauw University, Greencastle, IN.
- Chester, J. A. (2005) *Behavioral Mechanisms of Drug Dependence*, Psychology Department, Indiana University-Purdue University Indianapolis (IUPUI), Indianapolis, IN.
- Chester, J. A. (2005) *Relationship Between Genetic Differences in Alcohol Drinking and Alcohol Withdrawal in Selectively Bred Rodent Lines*, Scientific Meeting of the International Behavioural and Neural Genetics Society, Sitges, Spain.
- Chester, J. A. (2004) *Genetic Relationships Between Alcohol Aversion and Alcohol Drinking Behavior*, Department of Pharmaceutical Sciences, Idaho State University, Pocatello, ID.
- Chester, J. A. (2003) *Relationship Between Genetic Differences in Alcohol Drinking and Alcohol Withdrawal*, Scientific Meeting of the Research Society on Alcoholism, Ft. Lauderdale, FL.
- Chester, J. A. (1998) *Effects of GABAergic Compounds on the Acquisition of Ethanol-Induced Conditioned Place Preference and Taste Aversion in Mice*, Psychiatry Department, Indiana University School of Medicine, Indianapolis, IN.
- Chester, J. A. (1998). *Effects of GABA<sub>A</sub> Receptor Antagonists on Ethanol-Induced Conditioned Taste Aversion in Mice*. Invited presentation, Research Forum, Oregon Health Sciences University, Portland, OR.

### **Professional Activities/Service to Discipline**

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#### **Professional Memberships:**

- American Psychological Association (APA)
- APA Division 28: Psychopharmacology and Substance Abuse
- International Behavioural and Neural Genetics Society (IBANGS)
- Research Society on Alcoholism (RSA)
- Society for Neuroscience (SFN)
- Greater Indiana SFN

#### **Ad Hoc Reviewer for the Following Journals (alphabetical):**

*Addiction Biology; Alcohol; Alcoholism: Clinical and Experimental Research; Behavioural Brain Research; Behavior Genetics; Brain Research Bulletin; Brain Sciences; Critical Reviews in Neurobiology; Current Addiction Reports; Current Drug Abuse Reviews; Drug and Alcohol Dependence; European Journal of Neuroscience; Frontiers in Neuroscience; International Journal of Developmental Neuroscience; Journal of Pharmacology and Experimental Therapeutics; Lab Animal (Nature Research Journal); Neuropharmacology; Neuropsychopharmacology; Pharmacology and Therapeutics; Neurotoxicology; Pharmacology, Biochemistry and Behavior; Pharmacology, Neurology and Psychiatry; Neurotoxicology; Physiology & Behavior; PLOS One; Progress in Neuro-Psychopharmacology & Biological Psychiatry; Psychopharmacology; Recent Patents on CNS Drug Discovery*

#### **Editorial Board:**

- *Brain Sciences*

#### **Associate Editor:**

- *Frontiers in Pharmacology – Neuropharmacology section*

## JULIA A. CHESTER, PH.D.

### **Special Issue Editor:**

- *Brain Sciences* “The Genetics of Alcohol Use Disorder,” 2020-2021

### **Contributing Editor:**

- *Psychology: The Adaptive Mind*, Fourth Edition by James Nairne, Wadsworth Publishing Company, 2005

### **Grant Review Panel Member:**

- National Institutes of Health (NIH), “Biobehavioral Regulation, Learning and Ethology” Study Section, 2022
- National Institutes of Health (NIH), Special Emphasis Panel [2021/01 ZAA1 GG (32) L], “Fellowship Review,” 2020
- National Institutes of Health (NIH), Special Emphasis Panel [2020/05 ZAA1 GG (32) L], “Fellowship Review,” 2020
- National Institutes of Health (NIH), Special Emphasis Panel [2020/01 ZAA1 GG (32) L], “Fellowship Review,” 2019
- National Institutes of Health (NIH), Special Emphasis Panel (ZAA1 D C2), “Preclinical Medications Screening in Dependence Models of Alcohol Use Disorder,” 2019
- Department of Defense (DOD), Congressionally Directed Medical Research Program (CDMRP), “Response and Resilience in the Face of Traumatic Stress,” Military Operational Medicine (MOM), 2019
- Veteran’s Administration Merit Review, “Mental Health & Behavioral Science” Integrated Review Group, 2017
- Veteran’s Administration Merit Review, “Mental Health & Behavioral Science” Integrated Review Group, 2016
- National Institutes of Health (NIH), Special Emphasis Panel, “Biobehavioral Mechanisms of Emotion, Stress and Health” Study Section, 2016
- National Science Foundation (NSF), Animal Behavior Program, 2015
- National Institutes of Health (NIH), Special Emphasis Panel (ZAA1 DD C2), “Preclinical Medications Screening in Dependence Models of Alcohol Use Disorder,” 2014
- Indiana CTSI Collaboration in Translational Research (CTR), 2012
- National Institutes of Health (NIH), Special Emphasis Panel (ZRG1-IFCN-A-02M), NIAAA, 2011
- National Institutes of Health (NIH), NIAAA (ZRG1 IFCN-A 58 R), Challenge Grants Panel 8, 2009
- Department of Defense (DOD), Congressionally Directed Medical Research Program (CDMRP): Department of Defense Deployment Related Medical Research Program (DRMRP): Molecular Mechanisms of Psychological Health and Traumatic Brain Injury (PH-TBI)-2, 2008
- Department of Defense (DOD), Congressionally Directed Medical Research Program (CDMRP): Department of Defense Post Traumatic Stress Disorder (PTSD) Neurobiology and Genetics (NBGEN-1), 2007
- National Institutes of Health (NIH), NIAAA [ZAA1 CC (16)], “Animal Models of Endophenotypes of Alcohol Related Behaviors”, 2007
- Ontario Mental Health Foundation, 2000

### **Conference Program/Symposium Organizer:**

## JULIA A. CHESTER, PH.D.

- RSA Annual Meeting, *Binge Drinking During Adolescence: Translational Studies in Cognition and Reward Sensitivity*, 2019
- Interaction of Stress and Drug-Seeking, 5<sup>th</sup> Purdue Symposium on Psychological Sciences: *Emotion Dysregulation: Consequences and Mechanisms*, 2016
- RSA Annual Meeting, *Relations Between Anxiety and Alcohol Drinking Behavior: Insights From Rodent to Human Data*, 2012
- Special Lectures in Neuroscience Symposium Series, Purdue University Interdisciplinary Life Science Program, 2009-2011
- RSA Annual Meeting, *Translational Research in the Study of Alcoholism Using Startle Reflex Phenotypes*, 2007
- Purdue University Neuroscience Symposium, West Lafayette, IN, 2005, 2006
- NIAAA Sponsored Trainee Conference, *Alcoholism: Toward an Integration of Basic and Clinical Research Training for the 21<sup>st</sup> Century*, 2001

### **Professional Committees:**

- Governmental Affairs Advocacy Committee, Research Society on Alcoholism, 2017-present
- Animal Research Ethics Committee, Research Society on Alcoholism, 2015-present
- Committee on Animal Research and Ethics (STAR: Supporting Truth About Animal Research: A Coalition of Scientific Societies), American Psychological Association, 2016-2022
- Animal Research Ethics Committee, Co-Chair, Research Society on Alcoholism, 2016-2021
- Research Society on Alcoholism Program Committee, 2009-2010; 2015-2016
- Ingestive Behavior Research Center Executive Committee, Purdue University, 2008-2009
- Ingestive Behavior Research Center Symposium Committee, Purdue University, 2008-2009
- Abstracts Reviewer, 2019 annual *Society for Research on Nicotine and Tobacco* meeting
- Invited Mentor, Student Luncheon at the Annual Meeting for the Research Society on Alcoholism, 2007
- Recruitment Coordinator, Purdue University Interdisciplinary Life Science Graduate Program, 2006-2009

### **Teaching and Mentoring**

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#### **Academic courses/lectures:**

*Course Director:* Alcohol Use and Disorders (PSY 421), Purdue University, Spr2014-present

*Course Director:* Research Ethics in Psychological Sciences (PSY 464), Purdue University, 2014-present

*Course Director:* Psychopharmacology (PSY 603), Purdue University, Fall semesters, 2012, 2015; 2018, 2023.

*Invited Lecturer:* Data Management and Record Keeping (GRAD 590), Fall 2023

*Course Director:* Neurobiology of Brain Disorders (PSY 616), Fall 2020

*Course Director:* Research Focused Honors Program (PSY 404/405), Spring –Fall 2020

*Course Director:* Neuroscience Seminar (PSY 696), Purdue University, Fall 2018-2019

*Invited Lecturer:* Neural Systems and Behavior (BIOL 562/PSY 512), Purdue University, Spring

## JULIA A. CHESTER, PH.D.

semesters, 2006-2013.

*Course Director:* Introduction to Behavioral Neuroscience (PSY615), Purdue University, Spring 2013.

*Invited Lecturer:* Drugs and Behavior (PSY 428); Topic: Alcohol, Spring 2011.

*Invited Lecturer:* Neuroscience of Motivated Behaviors (PSY 322); Topic: Alcohol Abuse and Alcoholism, Spring 2008; Fall 2008; Spring 2010; Spring 2011; Fall, 2012.

*Invited Lecturer:* Introduction to the Science and Fields of Psychology (PSY 100); Topic: Behavioral Neuroscience, Fall semesters, 2007-2009; 2011; Spring 2011; Spring 2013.

*Invited Lecturer:* Families and Health (CDFS 685F); Topic: Psycho-neuro-immunology, Purdue University, Fall 2007.

*Course Director:* Neural Systems and Behavior (BIOL 562/PSY 512), Purdue University, Spring semesters, 2007-2012.

*Invited Lecturer:* Research in Ingestive Behavior (PSY 692F/F&N 590F), Purdue University, Fall 2006.

*Course Director:* Special Lectures in Neuroscience: Shared Mechanisms of Obesity and Addiction (BIOL 695G/PSY 692C), Purdue University, Fall 2006.

*Invited Lecturer:* Drug Abuse Education (MCMP 316); Topic: Genetics of addiction, Department of Medicinal Chemistry and Molecular Pharmacology, Purdue University, IN, Spring semesters, 2006-2018.

*Course Director:* Elementary Psychology (PSY 120), Department of Psychological Sciences, Purdue University, Fall 2003; Spring 2004; Fall 2004; Spring 2005; Fall 2005; Spring 2006; Spring 2007; Fall 2007; Spring 2008.

*Online Instructor:* Special Topics in Biology/Physiology: Addictions (EA BIOL L391/P547), Pharmacology Forum; Topic: Neurobiology of drug abuse and medications to treat alcoholism, Department of Biology, Indiana University East, 2002, 2003.

*Invited Lecturer:* Biology of Mental Illness (BIOL N120); Topic: Neurobiology of addiction and mental illness, Department of Biology, Indiana University School of Science, 2002.

*Invited Lecturer:* Animal Learning (PSY B344); Topic: Instrumental conditioning, Department of Psychology, Indiana University School of Science, 2002.

*Invited Lecturer:* Neurochemistry (BIOCHEM 835); Topic: Neuropeptides as neuromodulators, Department of Psychiatry, Indiana University School of Medicine, 2000, 2001.

*Invited Lecturer:* Drugs of Abuse and Addictive Behavior II Lecture Series (PSY 590); Topic: Genetics of alcoholism and alcohol withdrawal, Department of Psychology, Indiana University School of Science, 2000, 2002.

*Invited Lecturer:* Psychobiology (PSYCH 030); Topic: Neurotransmission, Department of Psychology, San Jose State University, 1992.

### **Research Courses/Mentoring:**

*Course Director:* Senior Research in Psychology/Research Focused Honors Program (PSY 498/498H), Department of Psychological Sciences, Purdue University: Kelly Keuneke (2006-2007), Matthew Hughes (2007-2008), Margaret Archer (2008-2009), Molly Craig (2014); Alicia Kerr (2014); Emily Rantz (2015-2016); Vydhehi Shanker (2017-2018); Demitra Adams (2019); Soyol Amgalan ( Fall 2019-Spring 2020); Sarah Zhang (Spring 2021-Spring 2022); Eva Cullins (Fall 2021- Spring 2022); Darien Harris (Spring 2023-Fall 2023); Ashley Niebrugge (Spring 2023-Spring 2024); Isaac Fegelman (Fall 2023-Spring 2024).

*Course Director:* Research Experience in Psychology (PSY 390/BIOL 494/BIOL 499), Purdue

## JULIA A. CHESTER, PH.D.

University: Andrea De Maria (2004), Adam Finegan (2004), Christina Wieneke (2005), Morgan Barron (2006), Matthew Hughes (2006), Eric Emans (2006), Abe Ghattas (2007), Kristen Klein (2007-2008), Marta Lynch (2012-2013); Molly Craig (2012), Emily Rantz (2014-2015); Theresa Nguyen (2014); Shelby Farmer (2015-2016); Molly Fields (2015-2016); Vydhehi Shanker (2016), Emerald Obie (2016-2017), Hailey Gloden (2016-2017), Demitra Adams (2018), Lexus Ouellette (2018-2019), Andrew Grigdesby (Spring 2019-Fall 2019), Soyol Amgalan (Spring 2019-Summer 2019); Michael Kinasiewicz (Fall 2019); Deepthi Thadasina (Spring 2018-Spring 2020); Ashlyn Cochran (Spring 2021); Eva Cullins (Summer 2021-Spring 2022); Anu Cherukara (Spring 2020-Spring 2022); Shaikh (Spring 2020-Spring 2022); Grace Walsh (Fall 2020-Spring 2022); Koby Prater (Spring 2022-2023), Brooke Lipscomb (Fall 2022-2023), Cami Howard (Spring 2023-present); Griffin Tresse (Spring 2023-present); Isaac Fegelman (Spring 2023-present); Humin (Doris) Gai (Summer 2023-Fall 2023); Roma Kamut (Fall 2023-present); Caitlin Williams (Fall 2023-present); Parker Davis (Spring 2024-present)

*Course Director:* Readings/Research Experience in Behavioral Neuroscience (PSY391/PSY391H/BIOL 295), Purdue University: Molly Craig (2013), Valerie Parker (2013), Melissa Davaust (2013), Alicia Kerr (2013), Reed Koester (2015), Molly Fields (2015); Deepthi Thadasina (2018); Demitra Adams (2018); Koby Prater (Fall 2021).

*Mentor:* Office of Undergraduate Research (OUR), First-Year Investigators Program, Purdue University: Victoria Burke (2023-present)

*Mentor:* Office of Undergraduate Research (OUR) Scholarship Program, Purdue University: Andrew Grigdesby (Fall 2019); Anu Cherukara (Fall 2021-2022)

*Research Advisor:* PULSe laboratory rotations, Purdue University: John McCorvy (2007), Sara Hess (2007), Nathan Mlinac (2008), Christopher Bates (2010), Glen Acosta (2011), Daniel Ysselstein (2011), Hilary Broderick (2012), Marcus Weera (2012), Sasha Vega Alvarez (2013), Nicole Vike (2015).

*Postdoctoral Advisor:* Nicole L.T. Moore (2009-2010; co-advisor with Dr. Val Watts); Tyson Baker (2013-2014); Zhong Ding (2017-2018; co-advisor with Dr. Val Watts); Iris Müller (2018-2019; co-advisor with Dr. Susan Sangha).

*Mentor:* Discovery Park Undergraduate Research Internship Program (DURI), Purdue University: Kenneth Sieranski (2007-2008), Akshay Thomas (2007-2008).

*Mentor:* Multicultural Summer Research Program (MARC/AIM), Purdue University: Hugo Tejada (2006).

*Mentor:* School of Liberal Arts Dean's Scholar Program, Purdue University: Matthew Hughes (2004-2005).

*Research Advisor:* Master of Science in Medical Science Program, Indiana University School of Medicine: Cindi Price (2000-2001).

### **Major Professor for Theses/Dissertations:**

Alisha Aroor, M.S. (current). Department of Psychological Sciences, Purdue.

Soyol Enkh-Amgalan, M.S. (current). Department of Psychological Sciences, Purdue.

Michelle Karth, M.S. (current). Department of Psychological Sciences, Purdue.

Arbaaz Mukadam, M.S. (current). Department of Psychological Sciences, Purdue.

Marcus Weera (2017) *Nicotine Consumption and Motivation-related Responses in High and Low Alcohol Preferring Mice*. Department of Psychological Sciences (PULSe Program), Purdue (dissertation).

Kristen Breit (2015). *Chronic Stress During Adolescence Alters Alcohol-Induced Conditioned*

**JULIA A. CHESTER, PH.D.**

- Place Preference in Mice Selectively Bred for High Alcohol Preference but not Low Alcohol Preference.* Department of Psychological Sciences, Purdue (dissertation).
- Matthew S. Powers (2014). *Genetic and Pharmacological Assessment of Cannabinoid Type 2 Receptors in Alcohol Reward-related Behaviors in Mice.* Department of Psychological Sciences, Purdue (dissertation).
- Matthew S. Powers (2011) *Prepulse Inhibition in Mice Selectively Bred for High or Low Alcohol Preference: Effects of Repeated Stress or Acute Alcohol Exposure, or Both.* Department of Psychological Sciences, Purdue (Master's thesis).
- Phillip M. Bohn (2007). *Measuring the Aversive Effects of Alcohol Withdrawal Using the Place Conditioning Procedure.* Department of Psychological Sciences, Purdue (Master's thesis).
- Gustavo D. Barrenha (2007). *Line Differences in, and Effects of Alcohol on, Fear-Potentiated Startle in Two Replicate Mouse Lines Selectively Bred for High- and Low-Alcohol Preference.* Department of Psychological Sciences, Purdue (Master's thesis).

**Thesis/Dissertation Advisory Committees:**

- Tiange Xiao (current). Department of Basic Medical Sciences, Purdue (dissertation).
- Gabrielle Bonanno (current). Department of Psychological Sciences, Purdue (dissertation).
- Erisa Met Hoxsa (2023). Department of Psychological Sciences, Purdue. *Generalization and discrimination of inhibitory avoidance differentially engage anterior and posterior retrosplenial subregions.* (Master's thesis).
- Melinda Karth (2023). Department of Psychological Sciences, Purdue. *Adolescent anorexia nervosa symptoms as contributors to anxiety development in young adult female rats and university students.* (dissertation).
- Gianna Nossa (2021). Department of Biomedical Engineering, Purdue. *Increased neuroinflammatory response in amygdala, promoting psychological comorbidities in a rat model of epilepsy.* (PULSe preliminary exam).
- Arryn Blaine (2021). Department of Medicinal Chemistry and Molecular Pharmacology, Purdue. *Investigating the cellular and behavioral role of  $\delta$ -opioid receptor mediated  $\beta$ -arrestin signaling.* (dissertation).
- Season Johnson (2020). Department of Psychological Sciences, Purdue. *A role for colony stimulating factor 1 receptor signaling and microgliosis during epileptogenesis* (dissertation).
- Ka Ng (2020). Department of Psychological Sciences, Purdue. *Prefrontal cortex mediates safety, fear, and reward cue discrimination* (dissertation).
- Abraham Escobedo (2020). Department of Psychological Sciences, Purdue. *The role of the partial NMDA receptor D-Cycloserine on the consolidation of safety discrimination.* (preliminary exam).
- Mee Jung Ko (2020). Department of Medicinal Chemistry and Molecular Pharmacology, Purdue. *Cellular mechanisms of G-protein-coupled receptor signaling in the modulation of anxiety, fear, and pain.* (dissertation).
- Season Wyatt (2018). Department of Psychological Sciences, Purdue. *A role for phosphatidylserine in reducing behavioral symptoms of schizophrenia.* (preliminary exam).
- Meridith Robins (2018). Department of Medicinal Chemistry and Molecular Pharmacology, Purdue. *Behavioral pharmacology of alcohol and legal psychostimulants.* (dissertation).
- Season Wyatt (2017). Department of Psychological Sciences, Purdue. *Characterization of microglia and phagocytic signaling molecules in human and experimental epilepsy.*

## JULIA A. CHESTER, PH.D.

- (Master's thesis).
- Mee Jung Ko (2017). Department of Medicinal Chemistry and Molecular Pharmacology, Purdue. *Recovery of enhanced fear memory following early-life stress through oxytocin-mediated glutamatergic neuronal function*. (PULSE preliminary exam committee chair).
- Sasha Vega-Alvarez (2017). Department of Basic Medical Sciences, Purdue. *Oxidative stress-driven deficits in animal models of neurotrauma*. (dissertation).
- Janice Lee (2017). Department of Psychological Sciences, Purdue. *A preliminary study of frequent long-term non-nutritive sweetener consumption and its cardiometabolic effects in rats*. (Master's thesis).
- Ka Ng (2016). Department of Psychological Sciences, Purdue. *Dopamine D1 receptor activity in the basolateral amygdala is important for mediating fear, reward and safety discrimination learning*. (Master's thesis).
- David O'Tousa (2015). Department of Psychology, Indiana University-Purdue University at Indianapolis. *Habit formation in a rodent model of alcoholism: Genetic susceptibility, alcohol-specific effects, and pharmacological manipulation*. (dissertation).
- Meredith Halcomb (2015). Department of Psychology, Indiana University-Purdue University at Indianapolis. *Elucidation of pharmacologically manipulated responding in the delay discounting task in high alcohol-preferring mice*. (dissertation).
- Liana Matson (2014). Department of Psychology, Indiana University-Purdue University at Indianapolis. *Investigating reactivity to incentive downshift as a correlated response to selection for high alcohol preference and a determinant of rash action and alcohol consumption*. (dissertation).
- Kyle Windisch (2014). Department of Psychology, Indiana University-Purdue University at Indianapolis. *Role of Group II metabotropic glutamate receptor subtype 2 (MGLUR2) in appetitive and consummatory aspects of ethanol reinforcement*. (dissertation).
- Brandon Fritz (2013). Department of Psychology, Indiana University-Purdue University at Indianapolis. *Neurobehavioral consequences of binge caffeine and alcohol co-exposure in mice*. (preliminary examination).
- Meredith Halcomb (2013). Department of Psychology, Indiana University-Purdue University at Indianapolis. *Impact of task administration procedures on predictive validity in an animal model of impulsivity*. (preliminary examination).
- David O'Tousa (2012). Department of Psychology, Indiana University-Purdue University at Indianapolis. *Habit formation: Implications for alcoholism research* (preliminary examination published in *Alcohol*).
- Kyle Windisch (2012). Department of Psychology, Indiana University-Purdue University at Indianapolis. *Role of the endocannabinoid system in the regulation of the reinforcing effects of ethanol*. (preliminary examination).
- Liana Matson (2012). Department of Psychology, Indiana University-Purdue University at Indianapolis. *Is emotional reactivity an endophenotype for alcoholism?: A review of the preclinical incentive downshift literature to evaluate whether negative emotional reactivity is a predisposing factor for alcoholism*. (preliminary examination).
- David Linsenbardt (2012). Department of Psychology, Indiana University-Purdue University at Indianapolis. *Using short-term behavioral selection to evaluate the heritability of ethanol-induced locomotor sensitization and its relationship to ethanol's positive motivational effects in mice*. (dissertation).
- Nathan Bushlow (2012). Department of Psychological Sciences, Purdue University (left the program in 2012).
- Jon Klein (2012). Department of Medicinal Chemistry and Molecular Pharmacology, Purdue. *The*

**JULIA A. CHESTER, PH.D.**

- role of oxidative stress in alcohol-induced cell death of adult neurons.* (preliminary examination).
- Megan Bertholomey (2011). Department of Psychology, Indiana University-Purdue University at Indianapolis. *Alterations in the seeking and self-administration of ethanol and anxiety-like behavior following exposure to yohimbine in rats selectively bred for high alcohol intake.* (dissertation).
- Alexis Green (2011). Department of Psychology, Indiana University-Purdue University at Indianapolis. *Intravenous self-administration of alcohol in selectively bred high- and low-alcohol preferring mice.* (dissertation).
- Heather Musselman (2011). Department of Psychology, Indiana University-Purdue University at Indianapolis. *Caenorhabditis Elegans as a model of alcoholism.* (preliminary examination).
- David Linsenbardt (2009). Department of Psychology, Indiana University-Purdue University at Indianapolis. *Endocannabinoid modulation of the mesolimbic dopamine system in a genetic mouse model of binge-like ethanol intake* (preliminary examination).
- Kelle Franklin (2009). Department of Psychology, Indiana University-Purdue University at Indianapolis. *Caffeine modulation of ethanol: Effects on intake, metabolism, and adenosine receptor-mediated dopamine neurotransmission in the medial prefrontal cortex of Alcohol-Preferring (P) rats* (dissertation).
- Megan Bertholomey (2009). Department of Psychology, Indiana University-Purdue University at Indianapolis. *The interactive effects of stress and ethanol on subsequent ethanol intake: A critique of current methodology.* (preliminary examination).
- Cathy Striefel (2009). Department of Educational Studies, Purdue University. *The 12-step approach to recovery from alcohol and drug dependence: Test of a mediation model using a loss-gain paradigm.* (dissertation).
- Jia Li (2009). Department of Psychological Sciences, Purdue University. *Comodulation of Limulus lateral eye photoreceptors by efferent neuromodulators.* (dissertation).
- Nathan Mlinic (2008). PULSe program, Purdue University (left the program in 2008).
- Michelle Murphy (2008). Department of Psychological Sciences, Purdue University. *The role of brain-derived neurotrophic factor in the development of vagal innervation of the gastrointestinal tract.* (dissertation).
- Valerie Green (2008). PULSe program, Purdue University. (dissertation: she moved to another university with her mentor in July, 2008).
- Jia Li (2007). Department of Psychological Sciences, Purdue University. *Development of concepts of neuromodulation.* (preliminary examination: unpublished).
- Kelle Franklin (2007). Department of Psychology, Indiana University-Purdue University at Indianapolis. *Bidirectional modulation of glucocorticoids and reward: Implications for drugs of abuse.* (preliminary examination: unpublished).
- Corrinne Lim (2007). Department of Psychological Sciences, Purdue University. *Temperature dependence of photoreceptor neuromodulation: Octopamine and Substance P modulate the duration and speed of sensory signals in the lateral eye of Limulus.* (dissertation: published in *Visual Neuroscience* 25(1):83-94).
- Michelle Murphy (2006). Department of Psychological Sciences, Purdue University. *Evaluation of genetic approaches to the study of obesity and feeding behavior: Characterizing a candidate obesity-related gene.* (preliminary examination: unpublished).
- Alexis Green (2006). Department of Psychology, Indiana University-Purdue University at Indianapolis. *Ethanol drinking in rodents: Is free-choice drinking related to the reinforcing effects of ethanol?* (preliminary examination: published in *Alcohol* 42(1):1-11).

## JULIA A. CHESTER, PH.D.

### Service

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#### ***Purdue University:***

- Grievance Hearing Committee, 2023-present
- Purdue University Institute for Integrative Neuroscience, Animal Behavior Core Strategic Committee, 2021-present
- Member, Research Misconduct Inquiry Committee, Office of the Provost, 2021
- Member, Research Integrity Officer (RIO) Committee, 2021
- Faculty Advisor, Purdue University Neuroscience Society, 2020-2023
- Purdue Committee on Research Integrity, 2019-2020
- Member, University Hearing Committee, 2020
- Member, Staff Appeals Board for Traffic Regulations, 2015-2017
- Member, Purdue University Animal Care and Use Committee, 2012-2015
- Faculty Advisor, Phi Mu Purdue Chapter Sorority, 2012-2013
- Faculty Advisor, Purdue Academic Team, 2012-2013
- Member, Purdue University AlcoholEdu Advisory Committee, 2011-2012
- Member, Ingestive Behavior Research Center Executive Committee, 2008-2009
- Member, Purdue University Sustainability Council, 2007-2012
- Recruitment Coordinator, PULSe Graduate Program, 2006-2009
- Expert Witness, Alcohol Abuse/Hazing Appeal Hearing, Sigma Phi Epsilon at Purdue University, 2006
- Member, Purdue University Alcohol Task Force Prevention Group, 2005-2008
- Chair, Campus Grievance Steering Committee, 2004-2006
- Consultant, Purdue University Student Wellness Office: Alcohol, Tobacco, & Other Drugs, 2003-2008

#### ***College Health and Human Sciences:***

- Representative, Purdue University Senate, 2023-present
- Representative, Advisory Council for Purdue Chapter of Alpha Alpha Alpha (First-Generation Honor Society), 2021-2023
- Ad Hoc Member, School of Health Sciences Senior Primary Committee, 2021
- Member, Search Advisory Committee for the Associate Dean for Diversity, Equity, and Inclusion, 2020
- Member, CEREBBRAL Leadership team, 2019-2020
- Member, Associate Dean for Research Search Committee, 2019
- Member, Grievance Committee, 2011-2015
- Member, Research and Graduate Education Strategic Planning Group, 2011
- Reviewer, College of Liberal Arts Chris Ribnek Scholarships, 2009
- Member, College of Liberal Arts Emergency Preparedness Committee, 2007-2008
- Invited Participant, School of Liberal Arts Media Workshop, 2004

#### ***Department of Psychological Sciences:***

- Neuroscience Area Coordinator, 2021-present
- Member, Advisory Committee, 2009-2012; 2017-2019; 2021-present
- Faculty Mentor, 2016-present
- Chair, Neuroscience and Behavior Faculty Candidate Committee, 2022

## JULIA A. CHESTER, PH.D.

- Member, Strategic Hire Review Committee, 2021
- Member, Diversity Committee, 2021
- Chair, Neuroscience and Behavior Faculty Search Committee, 2020-2021
- Member, Undergraduate Committee, 2011-2012, 2019-2021
- Member, Department Head Search Committee, 2020
- Member, Psychological Sciences Symposium Committee, 2019
- Member, Department Head Search Committee, 2016-2017
- Member, Teaching Excellence Committee, 2015-2016
- Member, Behavioral Neuroscience Faculty Search Committee, 2012
- Winter Commencement Faculty Representative, 2008
- Member, Clinical Faculty Search Committee, 2007-08
- Member, Electronics Technician Search Committee, 2007
- Liaison/Representative, Electronics Shop, 2007-2012
- Member, Electronics Shop Strategic Planning Committee, 2005

### **Engagement/Service to Society**

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#### ***Invited Speaker:***

- Professor Panel for PSY100 (introductory class to the science and field of Psychology), Purdue University, 2018
- Professor Panel for Psi Chi and Psyc Club, "*Behavioral Neuroscience*," Purdue University, 2015
- K-IRPC Head Start Program, "*Alcohol and Drug Abuse and Addiction*," Monon, IN, 2012
- Coalition for a Safe and Drug-Free Tippecanoe County/WBAA Radio, "*How Does Alcohol Affect an Underage Drinker?*" 2006
- Children, Youth, and Families at Risk Program, "*Factors that Influence Alcohol Drinking in Adolescents*," Putting the Pieces Together for Youth Conference, IN, 2005
- National Alliance for the Mentally Ill-Purdue Chapter, "*Alcoholism and Mental Illness*", West Lafayette, IN, 2005
- Kappa Kappa Gamma, "*Alcohol Abuse Awareness*", West Lafayette, IN, 2005
- WBAA Radio, "*Alcohol Abuse and Alcoholism: Nature vs. Nurture*", West Lafayette, IN, 2004
- Purdue Student Union Board, "*The Contribution of Nature and Nurture to Mental Health*", West Lafayette, IN. Educational outreach to Purdue University students and the West Lafayette community, 2003
- Lady Elks, "*Genetic and Environmental Factors in Alcoholism and Alcohol Abuse*", Lebanon, IN, 2002

#### ***Consultant:***

- Purdue 360 Sexual Assault Prevention and Awareness Committee, 2016
- Faculty Component, "*Reducing High-Risk Drinking Among First-Year Students at Purdue University*," US Department of Education, \$300,000, Purdue University Student Wellness Office, 2006-2008.
- Consultant, Positive Educational Experiences for Students (PEEPs) Program, Purdue University (reviewer of alcohol education information, reviewer of alcohol education project grants), 2007

## JULIA A. CHESTER, PH.D.

### **Program/Project Member:**

- Committee on Educational Cooperation (CIC)/Summer Research Opportunities Program (SROP) Conference (roundtable facilitator), Purdue University, 2006
- Advocates for Women in Science, Engineering, and Mathematics (AWSEM), Portland, OR. Education of young women about scientific laboratory research, 1996-1998.
- Non-threatening Encouragement for the Recreational Discovery of Science (NERDS), Portland, OR. Instruction to elementary school classes about basic science, 1994-1997.

### **Selected Media Interviews:**

**Scientific American:** How to Avoid Holiday Hangovers, According to Science

<https://www.scientificamerican.com/article/how-to-avoid-holiday-hangovers-according-to-science/>, 2023

**Mornings with Simi** (980 CKNW in Vancouver, British Columbia): How to Prevent a Hangover, According to Science <https://dcs.megaphone.fm/>, 2023

**Purdue Expert:** Alcohol and Holidays

<https://www.youtube.com/watch?v=WO3nzLD7vDE>, 2023

**Indiana Business Journal:** Alcohol-free businesses provide the drinks without the hangover

<https://www.ibj.com/articles/alcohol-free-businesses-provide-the-drinks-without-the-hangover>, 2023

**Purdue Expert:** Alcohol Use During the Holidays

<https://www.youtube.com/watch?v=bZ-BYmPOGk8>, 2022

**Men's Health:** This 4-Week Guide Will Help You Drink Less Alcohol

<https://www.menshealth.com/nutrition/a40241672/4-week-drinking-less-alcohol-pdf/>, 2022

**GQ:** 4 Ways to Reel in Your Pandemic Drinking

<https://www.gq.com/story/how-to-drink-less-post-pandemic>, 2021

**AARP:** Alcohol Use on the Rise During Pandemic: World Health Organization Says Drinking

Increases Vulnerability to the Coronavirus, <https://www.aarp.org/health/healthy-living/info-2020/coronavirus-alcohol.html>, 2020

**Washington Post:** Quarantinis are a meme of this crisis. But Relying on Alcohol Could Lead

to Serious Problems, <https://www.washingtonpost.com/lifestyle/wellness/drinking-problem-home-coronavirus-lockdown/2020/>, 2020

**The Voice of America:** Alcohol Flying Off Shelves at 'Essential' US Liquor Stores

<https://www.voanews.com/usa/alcohol-flying-shelves-essential-us-liquor-stores>, 2020

**All Sides with Ann Fisher** (WOSU-NPR Radio, Columbus, Ohio): Wellness Wednesday:

Alcohol Consumption Spikes in Ohio Amid Coronavirus Quarantine

<https://radio.wosu.org/>, 2020

**CHEDDAR, Inc.:** How to Drink your Quarantini Responsibly

<https://cheddar.com/media/life-from-home-quarantine-dating-shows-celebrating-the-class-of-and-how-to-drink-your-quarantini-responsibly>, 2020

**Purdue University News:** Shaken and Stirred: The Relation Between Stress and Alcohol

<https://www.purdue.edu/newsroom/releases/2020/Q3/shaken-and-stirred-the-relation-between-stress-and-alcohol.html>, 2020

**MSN/Reader's Digest:** How to Prepare for COVID-19 This Winter

[How to Prepare for COVID-19 This Winter \(msn.com\)](https://www.msn.com), 2020

**Men's Health:** Want to Cut Back on Holiday Boozing? Learn to Hack Your Biology

[How to Hack Your Brain and Control Pandemic and Holiday Drinking](https://www.menshealth.com), 2020

**JULIA A. CHESTER, PH.D.**

- Reader's Digest:** 8 Non-Alcoholic Drinks that Taste Like the Real Thing  
<https://www.thehealthy.com/food/recipes/no-alcohol-drinks-recipes/>, 2020
- The Exponent:** Students in Greek Life Find New Ways to Function: Shifting from Parties to Masked and Distanced Gatherings  
<https://www.purdueexponent.org/>, 2020
- The Exponent:** A New Normal: Chronic Stress Bends Us; Will it Break Us? The Science of Stress, and Methods for Overcoming It  
<https://www.purdueexponent.org/>, 2020
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