CURRICULUM VITAE

Brooks G. Robinson, Ph.D.

CURRENT POSITION

2020-present Program Director-Grant Specialist, Lyda Hill Institute for Human Resilience, University of Colorado Colorado Springs, Colorado Springs, CO

RECENT POSITION

2018- 2019 Research Assistant Professor, Oregon Health & Science University, Portland, OR

EDUCATION

2013-2018 Postdoctoral Fellow, Oregon Health & Science University, Portland, OR

2008-2013 Ph.D. in Neuroscience - The University of Texas, Austin, TX. “Ethanol dependence in Drosophila larvae“ supervised by Dr. Nigel Atkinson.

2004-2008 B.A. in Neuroscience - Colorado College, Colorado Springs, CO. cum laude with Distinction in Neuroscience

RELEVANT SKILLS

Designing and executing research projects, grant writing, scientific writing, literature comprehension and review, oral presentations, communication and collaboration across disciplines, data analysis and statistics, Microsoft Office, Adobe Suites including Photoshop and Illustrator, electrophysiology, imaging and microscopy, immunohistochemistry and immunofluorescence, immunoprecipitation, cell and molecular biology,

AWARDED GRANT FUNDING

2018-2019 NIH (NIDA) K99/R00 - Cocaine-induced plasticity of D2 receptor synapses (Impact score: 18, Percentile: 5)

2015-2018: NIH (NIDA) F32 Individual postdoctoral NRSA - Opioid sensitive GABA outputs from the nucleus accumbens (Impact score: 18, Percentile: 5)

2010-2013: NIH (NIAAA) T31 Institutional training NRSA

2008-2009: Neuroscience Graduate Fellowship.

PUBLICATIONS

1. Robinson, B.G.*, Cai, X., Wang, J., Bunzow, J.R., Williams, J.T., & Kaeser, P.S. (2019). RIM is essential for stimulated but not spontaneous somatodendritic dopamine release in the midbrain. eLife, 8, e47972. doi: 10.7554/eLife.47972

2. Robinson, B.G.*, Bunzow, J.R., Grimm, J.B., Lavis, L., Dudman, J.T., Brown, J., Neve, K, & Williams, J.T. (2017). Desensitized D2 autoreceptors are resistant to trafficking. Scientific Reports, 7, 4379. doi: 10.1038/s41598-017-04728-z

3. Robinson, B.G.*†, Condon, A.F.*, Radl, D., Borrelli, E., Williams, J.T., & Neve, K, (2017). Cocaine-induced adaptation of dopamine D2S, but not D2L autoreceptors. eLife, 6, e31924. doi: 10.7554/eLife.31924 † corresponding author

4. Gantz, S.C., Robinson, B.G., Buck, D.C., Bunzow, J.R., Neve, R.L., Williams, J.T., & Neve, K.A. (2015). Distinct regulation of dopamine D2S and D2L autoreceptor signaling by calcium. eLife; vol. 4. doi: 10.7554/eLife.09358

5. Matsui, A., Jarvie, B.C., Robinson, B.G., Hentges, S.T., & Williams, J.T. (2014). Separate GABA afferents to dopamine neurons mediate acute action of opioids, development of tolerance and expression of withdrawal. Neuron; 82 1-11. doi: 10.1016/j.neuron.2014.04.030

6. Robinson, B.G.* and Atkinson, N.S. (2013). Is alcoholism learned? Insights from the fruit fly.

Current Opinions in Neurobiology 23(4); 529-34. doi: 10.1016/j.conb.2013.01.016

7. Robinson, B.G.*, Khurana, S, Atkinson, N.S. (2013). Drosophila larvae as a model to study physiological alcohol dependence. Communicative and Integrative Biology 6:2. doi: 10.4161/cib.23501

8. Robinson, B.G.*, Khurana, S.*, Kuperman, A., & Atkinson, N.S. (2012). Neural adaptation leads to cognitive ethanol dependence. Current Biology 18;22(24):2338-41. doi: 10.1016/j.cub.2012.10.038

9. Robinson, B.G.*, Khurana, S.*, Pohl, J., Li, W., Ghezzi, A., Cady, A.M., Najjar, K.,…Atkinson, N.S. (2012). A low concentration of ethanol impairs learning but not motor and sensory behavior in Drosophila larvae. PLoS One 7(5):e37394. doi: 10.1371/journal.pone.0037394

10. Khurana, S.*, Robinson, B.G.*, Wang, Z., Shropshire, W.C., Zhong, A.C., Garcia, L.E., Corpuz, J….Atkinson, N.S. (2012). Olfactory conditioning in the third instar larvae of Drosophila melanogaster using heat shock reinforcement. Behavior Genetics 42:151-161. doi: 10.1007/s10519-011-9487-9

11. Anderson, K., Bones, B., Robinson, B., Hass, C., Lee, L., Ford, K., Roberts, T., & Jacobs, B. (2009). The morphology of supragranular pyramidal neurons in the human insular cortex: A quantitative golgi study. Cerebral Cortex; doi: 10.1093/cercor/bhn234

ACADEMIC AND PROFESSIONAL HONORS

- 2018 Poster Award, Gordon Research Conference Basal Ganglia, Ventura, CA
- 2018 Outstanding Poster Award, Winter Conference on Brain Research, Whistler, BC
- 2012 Research Society on Alcoholism Student Merit Travel Award
- 2012 Bruce Jones Travel Fellowship in Addiction Biology, The University of Texas, Austin, TX
- 2011 NIAAA T32 Director's Meeting and Trainee Workshop Travel Award, Browne University, Providence, RI
- 2009 Graduate Professional Development Award
- 2008 Dean's Excellence Award, The University of Texas, Austin, TX
- 2008 Graduated cum laude with distinction in Neuroscience, Colorado College, CO
- 2006 Dean's Honor List, Colorado College, CO
- 2005 Alpha Lambda Delta Honor Society, Colorado College, CO
- 2004-08 Crown-Goodman Presidential Scholar, Colorado College, CO
- 2004-08 Los Alamos National Laboratory Employees Scholarship

PRESENTATIONS

Invited Speaker

1. "Desensitization and internalization of the dopamine D2 autoreceptor", 50th Winter Conference on Brain Research, Session: Ion Channels, Receptors, and Cell Structure that Define Dopamine Neurons. Big Sky, MT, January 2017
2. "Cocaine and the long and short variants of the dopamine D2 receptor" 48th Winter Conference on Brain Research, Session: I'm only sleeping: Regulation of dopamine receptor responsiveness in dopamine neurons. Big Sky, MT, January 2015
3. "Ethanol Dependence in Drosophila Larvae", NIAAA Directors Meeting and Trainee Workshop, Providence, RI, 2011

Posters (recent)

1. "Localizing D2 Autoreceptors and Dopamine Release in the SNc", Gordon Research Conference on Basal Ganglia, Ventura, CA, March 2018

2. “Localization of Dopamine D2 Autoreceptors on Dopamine Neurons”, 51st Winter Conference on Brain Research, Whistler, BC, January 2018
3. “Localization and Trafficking of Dopamine D2 Autoreceptors”, Society for Neuroscience Annual Conference, Washington, DC, November 2017
4. “Functional Comparison of G Protein and Arrestin Biased D2 Receptors”, 50th Winter Conference on Brain Research, Big Sky, MT, January 2017
5. “The Desensitization of Midbrain Dopamine D2 Receptors”, 49th Winter Conference on Brain Research, Breckenridge, CO, January 2016
6. “Potentiation of D2 Receptor-Mediated GIRK Currents”, Gordon Research Conference on Catecholamines, Sunday River, ME, August 2015

TEACHING AND MENTORING

- Lecture for Graduate course ‘Addiction’ entitled ’Opioid effects in the midbrain’ Oregon Health & Science University, Spring 2019.
- Lecture for Graduate course ‘G Protein Coupled Receptors’ entitled ’Synaptic Activation and Localization of GPCRs’ Oregon Health & Science University, Spring 2018.
- Lecture for Graduate/Undergraduate course ‘Epigenetics’ University of Texas at Austin, 2009
- IE Pre-graduate school internship mentor for Kathryn Fife