William J. Giardino, Ph.D.
Instructor, Department of Psychiatry & Behavioral Sciences
Stanford University School of Medicine
1201 Welch Rd., MSLS P154, Stanford, CA 94305
willgiar@stanford.edu

EDUCATION & TRAINING

Years	Institution	Degree	Field	PI
2013-	Stanford University	(Postdoctoral)	Circuits/Systems Neuroscience	Luis de Lecea
2008-13	Oregon Health & Sci. Uni.	Ph.D.	Behavioral Neuroscience	Andrey Ryabinin
2004-08	University of Washington	B.Sc.	Psychology (Neuropharmacology)	Charles Chavkin

GRANT FUNDING

2018-23: NIH - NIAAA Pathway to Independence Award (K99/R00 AA025677; PI: Giardino)
2013-16: NIH - NIAAA Postdoctoral Individual NRSA Fellowship (F32 AA022832; PI: Giardino)
2011-13: NIH - NIAAA Predoctoral Individual NRSA Fellowship (F31 AA021023; PI: Giardino)
2009-11: NIH - NIDA Predoctoral Institutional Training Grant (T32 DA007262)
2008-09: NIH - NIAAA Predoctoral Institutional Training Grant (T32 AA007468)

FIRST-AUTHORED PUBLICATIONS

Giardino WJ, Eban-Rothschild A, Christoffel DJ, Li S-B, Malenka RC, de Lecea L. Parallel circuits from the bed nuclei of stria terminalis to the lateral hypothalamus drive opposing emotional states. *Nature Neuroscience*. 2018 Aug;21(8):1084-1095.

Giardino WJ, Rodriguez ED, Smith ML, Ford MM, Galili D, Mitchell SH, Chen A, Ryabinin AE. Control of chronic excessive alcohol drinking by genetic manipulation of the Edinger-Westphal nucleus urocortin-1 neuropeptide system. *Translational Psychiatry*. 2017 Jan 31;7(1):e1021.

Giardino WJ, de Lecea L. Resting easy with a novel sleep regulator. *eLife*. 2015 Dec 10;4. pii: e12093.

Giardino WJ, de Lecea L. Hypocretin (orexin) neuromodulation of stress and reward pathways. *Current Opinion in Neurobiology.* 2014 Jul 19;29C:103-108.

Giardino WJ, Ryabinin AE. CRF1 receptor signaling regulates food and fluid intake in the drinking-in-the-dark model of binge alcohol consumption. *Alcohol. Clin. Exp. Res.* 2013 Jul;37(7):1161-107.

Giardino WJ, Cote DM, Li J, Ryabinin AE. Characterization of genetic differences within the centrally-projecting Edinger-Westphal nucleus of C57BL/6J and DBA/2J mice by expression profiling. *Frontiers in Neuroanatomy.* 2012;6(5).

Giardino WJ, Mark GP, Stenzel-Poore MP, Ryabinin AE. Dissociation of corticotropin-releasing factor receptor subtype involvement in sensitivity to locomotor effects of methamphetamine and cocaine. *Psychopharmacology*. 2012 Feb;219(4):1055-63.

Giardino WJ, Ryabinin AE. Corticotropin-releasing factor: innocent until proven guilty. *Nature Rev. Neurosci*. 2012 Jan;13(1):70.

Giardino WJ, Cocking DL, Kaur S, Cunningham CL, Ryabinin AE. Urocortin-1 within the Centrally Projecting Edinger-Westphal Nucleus is Critical for Ethanol Preference. *PLoS One*. 2011;6(10):e26997.

Giardino WJ, Pastor R, Anacker AMJ, Spangler E, Cote DM, Li J, Stenzel-Poore M, Phillips TJ, Ryabinin AE. Dissection of corticotropin-releasing factor system involvement in locomotor sensitivity to methamphetamine. *Genes Brain and Behav.* 2011 Feb;10(1):78-89.

MANUSCRIPTS IN PROGRESS

Giardino WJ, Yamaguchi H, de Lecea L. CRISPR/Cas9 editing of neuropeptide receptor signaling reveals an extended amygdala circuit mechanism modulating alcohol drinking, anxiety, and avoidance. In revision at top-tier journal, Oct. 2019. preprint version: https://drive.google.com/open?id=1wpDZY8sgfDqcRx8jhAx3FC75hsAWamxv

Eban-Rothschild A, Borniger JC, Rothschild G, **Giardino WJ**, Morrow JG, de Lecea L. Arousal state dependent alterations in VTA-GABAergic neural activity. In revision, Oct. 2019. preprint version: https://www.biorxiv.org/content/10.1101/770313v1

CO-AUTHORED PUBLICATIONS

Ho AL, Salib AN, Pendharkar AV, Sussman ES, **Giardino WJ**, Halpern CH. The Nucleus Accumbens and Alcoholism: A Target for Deep Brain Stimulation. *Neurosurg Focus*. 2018 Aug;45(2):E12.

Li S-B, Nevárez N, **Giardino WJ**, de Lecea L. Optical Probing of Orexin/Hypocretin Receptor Antagonists. *Sleep*. 2018 Jul 27. doi: 10.1093/sleep/zsy141

Ryabinin AE, **Giardino WJ**. Contribution of urocortin to the development of excessive alcohol drinking. *International Review of Neurobiology*. 2017;136:275-291.

Eban-Rothschild AD, **Giardino WJ**, de Lecea L. To sleep or not to sleep: neuronal and ecological insights. *Current Opinion in Neurobiology*. 2017 May 10;44:132-138.

Li S, **Giardino WJ**, de Lecea L. Hypocretins and arousal. *Curr. Top. Behav. Neurosci.* 2017;33:93-104

Eban-Rothschild AD, Rothschild GD, **Giardino WJ**, Jones JR, de Lecea L. VTA dopaminergic neurons regulate ethologically relevant sleep-wake behaviors. *Nature Neuroscience.* 2016 Oct;19(10):1356-66.

Schank JR, Ryabinin AE, **Giardino WJ,** Ciccocioppo R, Heilig M. Stress-related neuropeptides and addictive behaviors: beyond the usual suspects. *Neuron*. 2012 Oct;76(4):192-208.

Ryabinin AE, Tsoory MM, Kozicz T, Thiele T, Neufeld-Cohen A, Chen A, Lowery-Gionta E, **Giardino WJ,** Kaur S. Urocortins: CRF's siblings and their potential role in anxiety, depression, and alcohol drinking behavior. *Alcohol*. 2012 Jun;46(4):349-57.

Land BB, Bruchas MR, Schattauer S, **Giardino WJ**, Aita M, Messinger D, Hnasko TS, Palmiter RD, Chavkin C. Activation of the kappa opioid receptor in the dorsal raphé nucleus mediates the aversive effects of stress and reinstates drug seeking. *Proc. Natl. Acad. Sci. USA.* 2009 Nov 10;106(45):19168-73.

AWARDS, HONORS, & APPOINTMENTS

2019 American College of Neuropsychopharmacology (ACNP), Education & Training Committee (ad-hoc)
NIAAA/NIDA Frontiers in Addiction, Early Career Investigator Showcase Travel Award. Chicago, IL
Gordon Research Conference on the Amygdala: Poster Presentation Award. Easton, MA

2018 American College of Neuropsychopharmacology (ACNP), Travel Award: Hollywood, FL
Stanford Neuroscience Institute, Postdoc Paper of the Year (3rd place): Stanford, CA
Gordon Research Seminar on Alcohol & Nervous System: Oral Presentation Award. Galveston, TX

2015 International Behavioral and Neural Genetics Society, Travel Award: Uppsala, Sweden
Faculty of 1000 Associate Faculty Member (with Luis de Lecea)

2014 Research Society on Alcoholism, Junior Investigator Award
International Society for Biomedical Research on Alcoholism, Travel Award: Seattle, WA

2013 Oregon Health & Science University, Research Week: Oral Presentation Award
Oregon Health & Science University, Graduate Student Organization Travel Award: New Orleans, LA.

2012 Intl. Soc. for Biomedical Research on Alcoholism, Young Investigator & Travel Awards: Sapporo, Japan
The Jackson Laboratory, Short Course on the Genetics of Addiction (scholarship funds)
Research Society on Alcoholism, Travel Award: San Francisco, CA
Oregon Health & Science University, Research Week: Oral Presentation Award
Behavior, Biology and Chemistry (Translational Research in Addiction), Travel Award: San Antonio, TX

2011 American Psychological Association, Dissertation Research Award
National Institute on Alcohol Abuse and Alcoholism Trainee Workshop, Travel Award: Providence, RI
Cold Spring Harbor Laboratory, Cellular Biology of Addiction (scholarship funds)
Oregon Health & Science University, Dept. of Behavioral Neuroscience: Ashworth Training Award
Research Society on Alcoholism, Travel Award: Atlanta, GA
Oregon Health & Science University, Student Research Forum: Oral Presentation Award
2010 International Behavioral and Neural Genetics Society, Travel Award: Halifax, Nova Scotia
Oregon Health & Science University, Methamphetamine Abuse Research Center Travel Award

TALKS

2019

- *SRI International, Biosciences Seminar.* Menlo Park, CA
- *University of California-Davis, Department of Psychology.* Davis, CA
- *NIAAA/NIDA Frontiers in Addiction conference (SfN pre-meeting).* Chicago, IL
- *Stanford School of Medicine Neuroscience Forum*. Stanford, CA
- *Winter Conference on Brain Research.* Snowmass, CO
- *Vanderbilt University, Vanderbilt Brain Institute.* Nashville, TN
- *Einstein Medical College, Department of Psychiatry.* New York City, NY

2018

- *The Scripps Research Institute, Department of Neuroscience.* Jupiter, FL
- *University of Texas, Division of Pharmacology & Toxicology.* Austin, TX
- *University of Alabama, Department of Neurobiology.* Birmingham, AL
- *University of Illinois, School of Molecular and Cellular Biology.* Champaign-Urbana, IL
- *Santa Clara University, Neuroscience seminar series.* Santa Clara, CA
- *Stanford University, Center for Molecular Neuroscience in Health and Disease.* Stanford, CA
- *Oregon Health & Science University, Dept. of Behavioral Neuroscience retreat.* Cannon Beach, OR
- *Gordon Research Conference on Alcohol & the Nervous System*. Galveston, TX

2015-16

- *Research Society on Alcoholism*. New Orleans, LA
- *University of Alabama*, *Department of Psychiatry.* Birmingham, AL
- *International Behavioral and Neural Genetics Society.* Uppsala, Sweden

2010-12

- *International Society for Biomedical Research on Alcoholism*. Sapporo, Hokkaido, Japan
- *Behavior, Biology and Chemistry: Translational Research in Addiction*. San Antonio, TX
- *International Behavioral and Neural Genetics Society*. Halifax, Nova Scotia, Canada

TRAINEES

Caitlin Ottaway – Clinical Neuroscience Immersion Experience student, 2019
Current position: high school senior
Tasneem Sadok – Undergraduate researcher, 2019
Current position: B.Sc. expected 2021, UCLA
Javier Correa Vasquez, M.A. – Post-baccalaureate researcher, 2018-19
Current Position: M.S. expected 2020, University of Bordeaux
Tara Ortiz-Ithier – Undergraduate researcher, 2018
Current Position: B.Sc. expected 2020, University of Texas-San Antonio
Ashley Yao – Undergraduate researcher, 2017-19
Current Position: B.Sc. expected 2020, Santa Clara University
Karbi Choudhury, B.Sc. – Undergraduate researcher, 2017
Current Position: Study coordinator, Harvard University/MGH
Kimberly Cruz, B.Sc. – Undergraduate researcher, 2017
Current Position: Research technician, University of Maryland

Danny Hoang, B.Sc. – Post-baccalaureate researcher, 2016-18
Current Position: M.D. expected 2023, UCLA
Neelima Valluru – High school researcher, 2016-17
Current Position: B.Sc. expected 2022, University of Illinois Urbana-Champaign
Crystal Liang – Undergraduate researcher, 2016-7
Current Position: B.Sc. expected 2020, Occidental University
Natalia Rodriguez-Sosa, B.Sc. – Undergraduate researcher, 2016
Current Position: Ph.D. expected 2022, University of Texas-Southwestern
Karen Malacon, B.A. – Undergraduate researcher, 2015
Current Position: Research associate, Duke University
Fiona Henderson, M.Sc. – Masters student researcher, 2015
Current Position: Ph.D. expected 2019, University of Paris VI
Matias Silvestre, B.Sc. – Undergraduate researcher, 2015
Current Position: Community Health Worker, Portland, OR
Tawaun Lucas, B.Sc. – Ph.D. rotation student, 2014
Current Position: Ph.D. expected 2020, Stanford University
Blue Sheffer, B.Sc. – Undergraduate researcher, 2014
Current Position: Ph.D. expected 2023, Stanford University
Ashley Ermann, B.A., M.Sc., M.D. – Undergraduate researcher, 2013
Current Position: Resident physician in Pediatrics, Phoenix Children's Hospital
Danny Rodriguez, B.Sc., M.D. – Undergraduate researcher, 2012-13
Current Position: Resident physician in Pathology, UCLA
Westley Dang, B.Sc. – Undergraduate researcher, 2011
Current Position: Ph.D. expected 2019, The Scripps Research Institute

PEER REVIEW

Cell Reports
Journal of Neuroscience
Addiction Biology
PLoS One
Frontiers in Psychiatry
Neurobiology of Learning & Memory
Behavioural Brain Research
Sleep
International Journal of Neuropsychopharmacology
Cellular and Molecular Neurobiology
Pharmacological Reports
Alcoholism: Clinical & Experimental Research

PEER REVIEW (with Luis de Lecea)

Nature
Cell
Nature Neuroscience
Neuron
Nature Methods
PNAS
Nature Communications
Journal of Neuroscience

PEER REVIEW (with Andrey Ryabinin)

PNAS
Biological Psychiatry
Neuropsychopharmacology
Addiction Biology
Translational Psychiatry
Psychopharmacology
Neuroscience & Biobehavioral Reviews
Alcoholism: Clinical & Experimental Research
PLoS One
Physiology & Behavior
Neuroscience
Drug and Alcohol Dependence
Neuroscience Research

TEACHING

2018-19 Guest Lecturer, Neuroscience seminar series & Neuroscience club.
Santa Clara University; Santa Clara, CA.

2011-12 Guest Lecturer, Department of Psychology (Behavioral Neuroscience, Drugs & Behavior).
Lewis & Clark College; Portland, OR.

PROFESSIONAL AFFILIATIONS

- *Society for Neuroscience* (2009-present)
- *Research Society on Alcoholism* (2009-present)
- *International Behavioral and Neural Genetics Society* (2010-present)
- *International Society for Biomedical Research on Alcoholism* (2012-present)
- *American College of Neuropsychopharmacology* (travel awardee; 2018-present)

MEETING ABSTRACTS

Giardino WJ, Yamaguchi H, de Lecea L. CRISPR/Cas9 editing of neuropeptide receptor signaling reveals an extended amygdala circuit mechanism modulating alcohol drinking, anxiety, and avoidance. *Winter Conference on Brain Research.* Big Sky, MT. January 2020 (Poster presenter, panel Chair pending acceptance).

Giardino WJ, Yamaguchi H, de Lecea L. CRISPR/Cas9 editing of neuropeptide receptor signaling reveals an extended amygdala circuit mechanism modulating alcohol drinking, anxiety, and avoidance. *American College of Neuropsychopharmacology.* Orlando, FL. December 2019 (Poster presenter, travel awardee).

Giardino WJ, Yamaguchi H, de Lecea L. Circuit-specific CRISPR/Cas9 gene editing reveals an extended amygdala neuropeptide receptor signaling mechanism modulating alcohol drinking, anxiety, and avoidance. *Society for Neuroscience.* Chicago, IL. October 2019 (Poster presenter; selected for SfN HotTopics and NIDA/NIAAA Frontiers in Addiction Early Career Investigator Showcase).

Jennings KJ, **Giardino WJ**, de Lecea L. Lateral hypothalamic control of male and female sexual motivation. *Society for Neuroscience.* Chicago, IL. October 2019 (Co-author).

Giardino WJ, Yamaguchi H, de Lecea L. Circuit-specific extended amygdala neuropeptide receptor signaling modulates alcohol drinking, anxiety, and avoidance. *Gordon Research Seminar & Conference on Amygdala Function in Emotion, Cognition & Disease.* Easton, MA. August 2019 (Poster presenter).

Jennings KJ, **Giardino WJ**, de Lecea L. Lateral hypothalamic control of male and female sexual motivation. *Society for Behavioral Neuroendocrinology.* Bloomington, IN. June 2019 (Co-author).

Giardino WJ, de Lecea L. Functional diversity of genetically-defined BNST circuits driving stress, reward-seeking, and arousal. *Winter Conference on Brain Research*. Snowmass, CO. January 2019 (Symposium chair, oral presenter).

Giardino WJ, Eban-Rothschild A, Christoffel DJ, Li S.-B., Malenka RC, de Lecea L. Parallel bed nuclei of stria terminalis→lateral hypothalamus circuits for opposing emotional states. *American College of Neuropsychopharmacology*. Hollywood, FL. December 2018 (Travel awardee, poster presenter).

Ortiz-Ithier T, Jennings KJ, **Giardino WJ**, de Lecea L. Characterization of extended amygdala in social behaviors. *ABRCMS.* Indianapolis, IN. November 2018 (Mentor, co-author).

Giardino WJ, Eban-Rothschild A, Christoffel DJ, Li S.-B., Malenka RC, de Lecea L. Parallel bed nuclei of stria terminalis→lateral hypothalamus circuits for opposing emotional states. *Society for Neuroscience*. San Diego, CA. November 2018 (Poster presenter).

Jennings KJ, **Giardino WJ**, de Lecea L. Hypocretin: a neural node linking social behavior and sleep. *NIH/NHLBI - Sleep and the Health of Women.* Bethesda, MD. October 2018 (Co-author).

Giardino WJ, Eban-Rothschild A, Christoffel DJ, Li S.-B., Malenka RC, de Lecea L. Parallel bed nuclei of stria terminalis→lateral hypothalamus circuits for opposing emotional states. *Gordon Research Seminar &*

Conference on Optogenetic Approaches for Studying Neural Circuits & Behavior. Newry, ME. July 2018 (Poster presenter).

Giardino WJ, Yamaguchi H, de Lecea L. CRISPR-Cas9 editing of hypocretin (orexin) receptor genes in extended amygdala neurons modulating binge alcohol drinking and anxiety-like behavior. *Research Society on Alcoholism.* San Diego, CA. June 2018 (Poster presenter).

Ho A, Wu HCH, Christoffel DJ, Smith ML, **Giardino WJ**, Kakusa BW, Halpern CH. Nucleus Accumbens Deep Brain Stimulation with Coordinated Reset for Binge Drinking. *American Society for Stereotactic and Functional Neurosurgery*. Denver, CO. June 2018 (Co-author).

Giardino WJ, Yamaguchi H, de Lecea L. CRISPR-Cas9 editing of hypocretin (orexin) receptor genes in extended amygdala neurons modulating alcohol drinking and withdrawal-related behavior. *Gordon Research Conference & Seminar on Alcohol & the Nervous System.* Galveston, TX. March 2018 (Travel awardee, oral & poster presenter).

Bonaventure P, Whittle AJ, **Giardino WJ**, Shireman B, Lovenberg T, Dugovic C, de Lecea L. Pharmacological Inhibition of Hypocretin/Orexin-1 Receptors Prevents Hyperarousal and Rewarding Behaviors Induced by Optogenetic Stimulation of Norepinephrine or Dopamine Neurons. *American College of Neuropsychopharmacology*. Palm Springs, CA. December 2017 (Co-author).

Giardino WJ, Eban-Rothschild AD, Li S-B, Christoffel DJ, de Lecea L. Parallel genetically-segregated extended amygdala-lateral hypothalamus circuits for opposing emotional states. *Society for Neuroscience.* Washington, D.C. November 2017 (Poster presenter).

de Lecea L, **Giardino WJ**, Yamaguchi H. CRISPR-Cas9 editing of hypocretin (orexin) receptor genes in cell type-specific extended amygdala neurons modulating alcohol drinking and withdrawal-related behavior. *Society for Neuroscience.* Washington, D.C. November 2017 (Poster presenter).

Cruz K, **Giardino WJ**, Yamaguchi H, de Lecea L. AAV-Mediated Cas9 Gene Editing to Study Addiction Neurocircuitry. *ABRCMS*. Phoenix, AZ. November 2017 (Mentor, co-author).

Eban-Rothschild AD, Rothschild GD, **Giardino WJ**, Jones JR, de Lecea L. VTA dopaminergic neurons regulate ethologically relevant sleep-wake behaviors. *American College of Neuropsychopharmacology*. Hollywood, FL. December 2016 (Co-author).

Giardino WJ, Christoffel DJ, de Lecea L. Extended amygdala neuropeptide circuits for bi-valent hyperarousal states. *Society for Neuroscience*. San Diego, CA. November 2016 (Poster presenter).

Eban-Rothschild AD, Rothschild GD, **Giardino WJ**, Jones JR, de Lecea L. VTA dopaminergic neurons regulate ethologically relevant sleep-wake behaviors. *Society for Neuroscience*. San Diego, CA. November 2016 (Co-author).

Rodriguez-Sosa N, **Giardino WJ**, de Lecea L. Hedonic valence pathways between the extended amygdala and lateral hypothalamus. *ABRCMS*. Tampa, FL. November 2016 (Mentor, Co-author).

Giardino WJ, de Lecea L. Extended amygdala neuropeptide circuits for bi-valent hyperarousal states. *Gordon Research Conference on Optogenetic Approaches for Studying Neural Circuits and Behavior*. Newry, ME. July 2016 (Poster presenter).

Eban-Rothschild AD, Rothschild GD, **Giardino WJ**, Jones JR, de Lecea L. VTA dopaminergic neurons regulate ethologically relevant sleep-wake behaviors. *Gordon Research Conference on Optogenetic Approaches for Studying Neural Circuits and Behavior*. Newry, ME. July 2016 (Co-author).

Giardino WJ, Yamaguchi H, de Lecea L. Cell type-specific CRISPR/Cas9 genome editing of neuropeptide circuit elements underlying long-term escalation of intermittent alcohol drinking. *Research Society on Alcoholism*. New Orleans, LA. June 2016 (Symposium chair, oral presenter).

Eban-Rothschild AD, **Giardino WJ**, de Lecea L. Optogenetic interrogation reveals a causal role for VTA dopamine neurons in the regulation of sleep and wakefulness. *Society for Neuroscience*. Chicago, IL. October 2015 (Co-author).

Giardino WJ, Lucas TA, de Lecea L. Extended amygdala circuitry linking anxiety, aversion, and behavioral arousal. *International Behavioral and Neural Genetics Society.* Uppsala, Sweden. May 2015 (Oral presenter).

Eban-Rothschild AD, **Giardino WJ**, de Lecea L. Optogenetic interrogation reveals a causal role for VTA dopamine neurons in the regulation of sleep and wakefulness. *Society for Neuroscience*. Washington D.C. November 2014 (Co-author).

Giardino WJ, Rodriguez ED, Smith ML, Chen A, Ryabinin AE. Midbrain stress neuropeptide adaptations selectively drive long-term excessive alcohol intake. *Research Society for Alcoholism*. Seattle, WA. June 2014 (Poster presenter).

Giardino WJ, Cote DM, Rodriguez ED, Ryabinin AE. Neuropeptide gene expression within the centrally projecting Edinger-Westphal nucleus following long-term intermittent alcohol drinking. *Society for Neuroscience*. San Diego, CA. Nov. 2013 (Poster presenter).

Smith ML, Wilhelm CJ, Cote DM, **Giardino WJ**, Li J, Zigman J, Ryabinin AE. Compensations in ghrelin receptor levels restore alcohol drinking in ghrelin receptor (Ghsr) null mutant mice. *Research Society on Alcoholism*. Orlando, FL. June 2013 (Co-author).

Giardino WJ, Ford MM, Ryabinin AE. Urocortin-1: selective involvement in long-term alcohol consumption. *Society for Neuroscience*. New Orleans, LA. Oct. 2012 (Poster presenter).

Giardino WJ, Ryabinin AE. Urocortin-1 involvement in alcohol intake, preference, and reward in mice. *International Society for Biomedical Research on Alcoholism.* Sapporo, Hokkaido, Japan. Sept. 2012 (Oral and poster presenter).

Giardino WJ, Ryabinin AE. Urocortin-1 involvement in ethanol drinking and sensitivity in mice. *Research Society on Alcoholism*. San Francisco, CA. June 2012 (Poster presenter).

Giardino WJ, Ryabinin AE. Differential involvement of urocortin-1 across several ethanol drinking paradigms in mice. *Behavior, Biology and Chemistry: Translational Research in Addiction*. San Antonio, TX. Mar. 2012 (Oral presenter).

Giardino WJ, Cocking DL, Kaur S, Cunningham CL, Ryabinin AE. Urocortin-1 involvement in alcohol intake and alcohol-induced reward: a role for the centrally-projecting Edinger-Westphal nucleus. *Society for Neuroscience*. Washington, D.C. Nov. 2011 (Poster presenter)

Giardino WJ, Kaur S, Cunningham CL, Ryabinin AE. Deletion of urocortin-1 alters ethanol reward and ethanol-induced neural activity in the Edinger-Westphal nucleus. *NIAAA Trainee Workshop*. Providence, RI. Sept. 2011 (Oral presenter)

Giardino WJ, Kaur S, Li J, Cote DM, Ryabinin AE. Urocortin-1 deletion alters drinking-in-the-dark-induced patterns of neural activation. *Research Society on Alcoholism*. Atlanta, GA. June 2011. (Poster presenter)

Giardino WJ, Pastor R, Anacker AMJ, Li J, Cote DM, Phillips TJ, Ryabinin AE. Dissociation of corticotropin-releasing factor receptor subtype involvement in psychostimulant sensitivity: a comparison of methamphetamine and cocaine. *Oregon Chapter of the Society for Neuroscience.* McMinnville, OR. April 2011. (Oral presenter)

Giardino WJ, Li J, Cote DM, Ryabinin AE. Amygdala corticotropin-releasing factor (CRF) type-2 receptor involvement in locomotor sensitivity to methamphetamine. *Society for Neuroscience*. San Diego, CA. Nov. 2010. (Poster presenter)

Scibelli AC, **Giardino WJ**, Phillips TJ. Slow-1 and -2 mice show differential sensitivity to the combined effects of scopolamine and ethanol. *Research Society on Alcoholism.* San Antonio, TX. June 2010. (Co-author)

Giardino WJ, Pastor R, Anacker AMJ, Spangler E, Cote DM, Li J, Phillips TJ, Ryabinin AE. Genetic dissection of the corticotropin-releasing factor (CRF) system reveals a role for the CRF type-2 receptor in locomotor sensitivity to methamphetamine. *International Behavioral and Neural Genetics Society.* Halifax, NS, Canada. May 2010. (Oral presenter)

Giardino WJ, Pastor R, Anacker AMJ, Spangler E, Cote DM, Li J, Phillips TJ, Ryabinin AE. Genetic dissection of the corticotropin-releasing factor (CRF) system reveals a role for the CRF type-2 receptor in locomotor sensitivity to methamphetamine. *Oregon Chapter of the Society for Neuroscience.* McMinnville, OR. Mar. 2010. (Poster presenter)

Giardino WJ, Anacker AMJ, Spangler E, Cote DM, Li J, Phillips TJ, Ryabinin AE. Involvement of the corticotropin-releasing factor type-2 receptor in locomotor sensitivity to methamphetamine. *Society for Neuroscience*. Chicago, IL. Oct. 2009. (Poster presenter)

Land BB, Bruchas MR, **Giardino WJ**, Schattauer S, Aita M, Chavkin C. Dorsal raphé kappa opioid receptors (KOR) are necessary for stress-induced reinstatement of extinguished cocaine CPP. *International Narcotics Research Conference.* Portland, OR. July 2009. (Co-author)

Milner LC, **Giardino WJ**, Buck KJ. Development of a novel murine behavior battery: effects of ethanol withdrawal and *Kcnj9* allelic status. *Research Society on Alcoholism*. San Diego, CA. June 2009. (Co-author)

Redila VA, **Giardino WJ**, Chavkin C. The kappa opioid receptor antagonist nor-binaltorphimine blocks footshock-induced, but not cocaine prime-induced reinstatement of a cocaine conditioned place preference in mice. *Society for Neuroscience.* San Diego, CA. Nov. 2007. (Co-author)

REFERENCES

Luis de Lecea, Ph.D.
Professor, Dept. of Psychiatry & Behavioral Sciences
Stanford University, School of Medicine
+1 (650) 736-9039
llecea@stanford.edu

Ruth O'Hara, Ph.D.
Professor and Associate Chair, Dept. of Psychiatry & Behavioral Sciences
Stanford University, School of Medicine
+1 (650) 796-2720
roh@stanford.edu

Andrey E. Ryabinin, Ph.D.
Professor, Dept. of Behavioral Neuroscience
Oregon Health & Science University
+1 (503) 246-2199
ryabinin@ohsu.edu

John C. Crabbe, Ph.D.
Founding Director, Portland Alcohol Research Center
Professor, Dept. of Behavioral Neuroscience
Oregon Health & Science University
Senior Research Career Scientist
Portland VA Medical Center
+1 (503) 273-5298
crabbe@ohsu.edu

Christopher L. Cunningham, Ph.D.
Professor Emeritus, Dept. of Behavioral Neuroscience
Oregon Health & Science University
+1 (503) 494-8464
cunningh@ohsu.edu

Charles I. Chavkin, Ph.D.
Allan and Phyllis Treuer Professor
Dept. of Pharmacology
University of Washington
+1 (206) 543-4266
cchavkin@uw.edu