

## Lori A. Knackstedt, PhD

Psychology Department  
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### Education

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- Ph.D.**                    **2005:** Psychology; University of California, Santa Barbara, Santa Barbara, CA  
**Advisor:** Aaron Ettenberg, PhD  
**Dissertation:** “Motivating Factors Underlying the Co-administration of Cocaine and Alcohol”
- B.S.**                    **1999:** Bucknell University, Lewisburg, PA  
**Major:** Biology  
**Magna cum laude**

### Positions Held

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- 2012-present            Assistant Professor  
Psychology Department  
University of Florida, Gainesville, FL
- 2008-2012              Research Assistant Professor  
Neurosciences Department  
Medical University of South Carolina, Charleston, SC
- 2005-2008              Post-doctoral Fellow  
Neurosciences Department  
Medical University of South Carolina, Charleston, SC  
Mentor: Peter Kalivas, PhD

### Research Support

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#### **Ongoing:**

NIDA: R01 DA033436 (PI: Knackstedt)

“Glutamate Transporters and Cocaine Seeking”

7/1/2012 - 6/30/2018 (NCE)

TDC \$857,980

This grant aims to use the animal model of reinstatement to investigate the role of glutamate transporters in the ability of the antibiotic ceftriaxone to prevent cocaine relapse in rats.

Department of Defense, Institute of Molecular Neuroscience Subcontract 8738sc (PI: Knackstedt)

“Development of an animal model and novel treatments for comorbid PTSD and cocaine addiction”

9/1/2013-7/31/18

TDC \$734,014

This grant aims to establish an animal model of comorbid PTSD and cocaine addiction for the screening of highly translational compounds to reduce PTSD symptoms and the motivation to seek cocaine.

NIDA R01 DA037270      PIs: Abou-Garbia, Rothstein      6/16/2014-6/14/2019

Role: Subcontract PI

“GLT-1 Enhancers as Drug Candidates for Treating Cocaine Addiction”

TDC to Knackstedt \$190,374

This grant funds medicinal chemistry research to identify ceftriaxone analogs with better oral bioavailability and brain penetration. My role is to test these new compounds for their ability to prevent cocaine reinstatement.

### **Completed:**

NIDA: R21 DA026010 (PI: Knackstedt)

“Striatal Glutamate Homeostasis and Cocaine Relapse”

9/15/08-6/30/11

TDC \$275,000

This grant was aimed at investigating the co-regulation of glutamate transporters in the ventral striatum, and the effect of up-regulating different transport systems on glutamate uptake, reinstatement of cocaine-seeking, and Group I mGluR expression.

### **Professional Societies/Memberships**

2014-present      American College of Neuropsychopharmacology, elected Associate Member  
2000–present      Society for Neuroscience

### **Honors and Awards**

2016      Winter Conference on Brain Research Travel Award  
2015      University of Florida Excellence Award for Assistant Professors  
2011      Federation of European Neuroscience Societies Travel Award  
2010      American College of Neuropsychopharmacology Annual Meeting Travel Award  
2007      Motivational Neuronal Networks Biannual Meeting Travel Award  
2006      National Research Service Award (F32)  
2006      Federation of European Neuroscience Societies Travel Award  
2004      University of California Regents Dissertation Fellowship  
1999      Phi Beta Kappa, Bucknell University  
1995      National Merit Scholarship Semifinalist

### **Honors and Awards to Trainees**

UF Center for Addiction Research and Education Travel Award to Bethany Stennett (graduate student), 2016: \$500  
UF Psychology Dept. Trish Calvert Ring Travel Award to Bethany Stennett (graduate student), 2016: \$500  
UF Psychology Dept. Trish Calvert Ring Travel Award to Carly Logan (graduate student), 2016: \$500  
UF Graduate Student Council Travel Award to Natalie Hadad (graduate student), 2016: \$350  
Ring Fund Research Award to Bethany Stennett (graduate student), 2015: \$2,000  
UF Center for Addiction Research and Education Travel Award to Amber LaCrosse (post-doctoral associate), 2015: \$500

UF CLAS Travel Award to Bethany Stennett (graduate student), 2015: \$500  
UF Psychology Dept. Travel Award to Bethany Stennett (graduate student), 2015: \$500  
UF Psychology Dept. Travel Award to Natalie Hadad (graduate student), 2015: \$500  
UF Psychology Dept. Travel Award to Bethany Stennett (graduate student), 2014, \$500  
UF CLAS Travel Award, to Bethany Stennett (graduate student), 2013, \$300  
UF Psychology Dept. Travel Award to Bethany Stennett (graduate student), 2013, \$150  
UF Graduate School Fellowship (GSF) Award to Bethany Stennett (graduate student), 2013-2017, \$5000/year

### **Service to the Profession**

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Media and Governmental Liason Committee, American College of Neuropsychopharmacology, 2015-present  
Review Editor in Neuropharmacology for *Frontiers in Neuropharmacology*

### **University and Department Service**

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2016-present: Social Media Committee, Chair  
2016-present: Building Committee, Member  
2016-present: Mentor for NIH-funded "SF2UF Bridge to Baccalaureate" program  
2016-present: Invited Speaker Committee Member, Center for Addiction Research and Education  
2016: Faculty advisor for the student organization "Second Chance Gators"  
2014: Applied Behavior Analysis new hire search committee  
2013-2014: Merit Committee member

### **Journal Review**

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Ad hoc reviewer for: *Journal of Neuroscience*, *Neuropsychopharmacology*, *Addiction Biology*, *Biological Psychiatry*, *Molecular Psychiatry*, *Neuroscience*; *Brain Research*, *Alcoholism: Clinical and Experimental Research*; *Neuropharmacology*, *Nutrients*, *Psychopharmacology*, *Stress*, *British Journal of Pharmacology*, *Journal of Psychopharmacology*, *Frontiers in Behavioral Neuroscience*

### **NIH Grant Review**

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Neurobiology of Motivated Behavior, Ad hoc: February 2013  
Neurobiology of Motivated Behavior, Ad hoc: June 2015  
Special Emphasis Panel ZRG1 IFCN-C Alcohol, Drugs and Neurotoxicology, Ad hoc: November 2015  
Special Emphasis Panel ZRG1 IFCN-C Alcohol, Drugs and Neurotoxicology, Ad hoc: March 2016  
Special Emphasis Panel ZRG1 IFCN-C Alcohol, Drugs and Neurotoxicology, Ad hoc: October 2016  
Special Emphasis Panel ZRG1 IFCN-C Alcohol, Drugs and Neurotoxicology, Ad hoc: March 2017

### **Invited Talks**

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2017                      Bucknell University Psychology Department  
2016                      Southeastern Association for Behavior Analysis Annual Meeting

2016	University of Florida Neuroscience Department Seminar
2016	International Behavioral Neuroscience Society Annual Meeting (Hot Topic)
2016	Temple University School of Pharmacy
2016	Winter Conference on Brain Research Annual Meeting
2015	Symposium on Catecholamines and Other Neurotransmitters in Stress
2015	Society of Biological Psychiatry Annual Meeting
2014	Millersville University Psychology Department
2013	U. of Maryland School of Medicine, Dept. of Anatomy and Neurobiology
2012	American College of Neuropsychopharmacology Annual Meeting
2012	University of North Carolina Wilmington, Psychology Department
2012	University of Florida, Psychology Department
2011	Penn State College of Medicine, Department of Neural and Behavioral Sciences
2011	American Society of Clinical Psychopharmacology Annual Meeting
2010	American College of Neuropsychopharmacology Annual Meeting
2010	University of California, Santa Barbara Department of Psychology
2008	Smith College Department of Psychology

### **Teaching Experience**

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2012-present	Assistant Professor, Psychology Department University of Florida, Gainesville, FL <i>Courses taught: Behavioral Neuroscience; Introduction to Psychology; Contemporary Techniques in Behavioral Neuroscience; Neurobiology of Substance Abuse; Psychology of Substance Abuse</i>
2010-2012	Lecturer, College of Medicine Medical University of South Carolina, Charleston, SC <i>Approximately 7 lectures/year and Neuroanatomy Lab instructor (2 weeks/yr)</i>
2005-2012	Adjunct Faculty, Psychology Department College of Charleston, Charleston, SC <i>Courses taught: Introduction to Psychology; Psychology of Substance Abuse</i>
2003-2004	Adjunct Faculty, Psychology Department Santa Barbara City College, Santa Barbara, CA <i>Courses taught: Introduction to Physiological Psychology</i>
2003-2004	Graduate Instructor, Psychology Department University of California, Santa Barbara, Santa Barbara, CA <i>Courses taught: Brain and Behavior; Concepts in Biological Psychology</i>

### **PhD and Masters Committees Chaired**

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Natalie Hadad, Psychology Dept.; UF, PhD, 2016. Current: Assist. Prof. (Tenure track) at Santa Fe College, Gainesville, FL.

Carly Logan, Psychology Dept., UF, M.S., Current: PhD in progress, expected May 2019

Bethany Stennett, Psychology Dept. UF, PhD (in progress, expected August 2017)

Leslie Howard, Psychology Dept. UF, M.S. (in progress, expected May 2018)

### PhD and M.S. Degree Committee Service

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Brantley Jarvis, Psychology Dept., UF, PhD, 2015

Kaley McFadyen, Pharmacodynamics Dept., College of Pharmacy, UF, PhD, April 2017

Melissa Cervantez, Psychology Dept., UF, PhD, in progress

Dulce Minaya, Psychology Dept., UF, PhD, in progress

Christina Gobin, Psychology Dept., UF, PhD, in progress

Shelby Blaes, Neuroscience Dept., College of Medicine, PhD, in progress

### Post-doctoral Supervision

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Amber Lacrosse, Psychology Dept. UF, post-doctoral associate 2014-2015. Current: post-doctoral associate at Aurora Health, Milwaukee, WI.

Allison Bechard, Psychology Dept., UF, post-doctoral associate 2016-present.

### Undergraduate Students Mentored who pursued a PhD (out of total 50 mentored)

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Mark Namba, UF, B.S. 2016. Current: PhD student in ASU Psychology Dept. (\*under-represented minority)

Brooke Jackson, UF. B.S. 2016 Current: PhD student in U. GA Psychology Dept.

Morgan Zipperly, College of Charleston, B.S. 2014. Current: MD/PhD (Neuroscience) at UAB

Kirstin Morton, College of Charleston, B.S. 2009. PhD Indiana U. at Bloomington, Chemistry.

### Publications (25 total)

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\*= UF undergraduate author; #= UF graduate student author; \$ = post-doctoral fellow

Lacrosse AL<sup>\$</sup>, O'Donovan S, Sepulveda-Orengo MT, McCullumsmith R, Reissner KJ, Schwendt M, and **Knackstedt LA**. Contrasting the role of xCT and GLT-1 upregulation in the ability of ceftriaxone to attenuate the reinstatement of cocaine-seeking and normalize AMPA receptor subunit expression. *Journal of Neuroscience*, Epub ahead of print. PMID: 28495973

Hadad NA<sup>#</sup>, Wu L, Hiller H, Krause EG, Schwendt M, **Knackstedt LA**. (2016). Conditioned stress prevents cue-primed cocaine reinstatement only in stress-responsive rats. *Stress*, 19(4):406-18. PMID: 27181613

Pati D, Kelly K, Stennett B<sup>#</sup>, Frazier CJ, **Knackstedt LA**. (2016). Alcohol self-administration increases basal glutamate in the nucleus accumbens of outbred rats without affecting pre-synaptic release properties. *European Journal of Neuroscience*, 44(2):1896-1905. PMID: 27207718

**Knackstedt LA**, Schwendt M. (2016). mGlu5 receptors and relapse to cocaine-seeking: the role of receptor trafficking in post-relapse extinction learning deficits. *Neural Plasticity*, 2016:9312508. PMID: 26881139

Lacrosse AL<sup>\$</sup>, Hill K, **Knackstedt LA**. (2016) Ceftriaxone attenuates cocaine relapse after abstinence through modulation of nucleus accumbens AMPA subunit expression. *European Neuropsychopharmacology*, 26(2):186-94. PMID: 26706696

- Massie A, Boillee S, Hewett S, **Knackstedt L**, Lewerenz J.(2015). System xc- in the central nervous system: a wolf in sheep's clothing? *Journal of Neurochemistry*, 135(6):1062-79. PMID:26336934
- Griffin WC, Ramachandra VS, **Knackstedt LA**, Becker HC. (2015). Repeated cycles of chronic intermittent ethanol exposure increases basal glutamate in the nucleus accumbens of mice without affecting glutamate transport. *Frontiers in Pharmacology* 6(27). PMID: 25755641
- Weiland A, Garcia S\*<sup>&</sup>, **Knackstedt LA**. (2015). Cefazolin and ceftriaxone attenuate the cue-primed reinstatement of alcohol-seeking. *Frontiers in Pharmacology*. 6 (44). PMID:25805996
- Reissner KJ, Gipson CD, Phuong KT, **Knackstedt LA**, Scofield MD, Kalivas PW. (2015) Glutamate transporter GLT-1 mediates N-acetylcysteine inhibition of cocaine reinstatement. *Addiction Biology*, 20(2):316-23. PMID:24612076
- Hadad NA<sup>#</sup>, **Knackstedt LA**. (2014). Addicted to palatable foods: comparing the neurobiology of Bulimia Nervosa to that of drug addiction. *Psychopharmacology (Berl)*. 231(9): 1897-1912. PMID: 24500676
- Knackstedt LA**, Trantham-Davidson H, Schwendt M. (2014) The role of ventral and dorsal striatum mGluR5 in relapse to cocaine-seeking and extinction learning. *Addiction Biology*, 19(1): 87-101. PMID:23710649
- Alajaji M, Bowers MS, **Knackstedt L**, Damaj MI. (2013) Effects of the beta-lactam antibiotic ceftriaxone on nicotine withdrawal and nicotine-induced reinstatement of preference in mice. *Psychopharmacology (Berl)*. 228(3):419-26. PMID: 23503685
- Trantham-Davidson H, Lalumiere RT, Reissner KJ, Kalivas PW, **Knackstedt LA**. (2012). Ceftriaxone Normalizes Nucleus Accumbens Synaptic Transmission, Glutamate Transport, and Export following Cocaine Self-Administration and Extinction Training. *Journal of Neuroscience*, 32(36):12406-10. PMID:22956831
- Wang X, Moussawi K, **Knackstedt L**, Shen H, Kalivas PW. (2012). Role of mGluR5 neurotransmission in reinstated cocaine-seeking. *Addiction Biology*, 18(1): 40-9. PMID: 22340009
- Sondheimer I, **Knackstedt LA**. (2011). Ceftriaxone prevents the induction of cocaine sensitization and produces enduring attenuation of cue- and cocaine-primed reinstatement of cocaine-seeking. *Behavioural Brain Research*, 225(1): 252-258. PMID: 21824497
- Uys JD, **Knackstedt L**, Hurt P, Tew KD, Manevich Y, Hutchens S, Townsend DM, Kalivas PW. (2011). Cocaine Induced Adaptations in Cellular Redox Balance Contributes to Enduring Behavioral Plasticity. *Neuropsychopharmacology*, 36(12): 2551-60. PMID: 21796101
- Knackstedt, LA**, Moussawi, K, Lalumiere, R, Schwendt, M, Klugman, M, Kalivas, PW. (2010). Extinction training after cocaine self-administration induces glutamatergic plasticity to inhibit cocaine-seeking. *Journal of Neuroscience*, 30(23):7984-92. PMID: 2534846.
- Knackstedt, LA**, Melendez, RI, Kalivas, PW. (2010). Ceftriaxone restores glutamate homeostasis and prevents relapse to cocaine seeking. *Biological Psychiatry*, 67(1): 81-4. PMID: 19717140.
- Knackstedt, LA**, Kalivas, PW. (2009). Glutamate and reinstatement. *Current Opinion in Pharmacology*, 9(1): 59-64. PMID: 19157986.

**Knackstedt, LA**, Larowe, S, Mardikian, P, Malcolm, R, Upadhaya, H, Hedden, S, Markou, A, Kalivas, PW. (2009). The role of cystine-glutamate exchange in nicotine dependence in rats and humans. *Biological Psychiatry*, 65(10):841-5. PMID: 19103434

Kalivas, PW, Lalumiere, R, **Knackstedt, L**, Shen, HW. (2008). Glutamate transmission in addiction. *Neuropharmacology*, 56 Suppl 1:169-73. PMID: 18675832.

**Knackstedt LA**, Kalivas PW. (2007). Extended-access to cocaine self-administration enhances drug-primed reinstatement but not behavioral sensitization. *Journal of Pharmacology and Experimental Therapeutics*, 322(3): 1103-09. PMID: 17601982.

**Knackstedt LA**, Ettenberg A. (2006). Alcohol consumption is preferred to water in animals pretreated with cocaine. *Pharmacology, Biochemistry, Behavior*, 85: 281-86. PMID: 17049976.

Kalivas PW, Peters J, **Knackstedt LA**. (2006). Animal models and brain circuits in drug addiction. *Molecular Interventions*, 6(6): 339-44. PMID: 17200461.

**Knackstedt LA**, Kalivas PW. (2006). Pharmacotherapy targets for regulating cocaine-induced plasticity. *Drugs of the Future*, 31(10): 893-912.

**Knackstedt LA**, Ettenberg A. (2004). Ethanol consumption reduces the adverse consequences of self-administered intravenous cocaine in rats. *Psychopharmacology*, 178: 143-50. PMID: 15338105.

**Knackstedt LA**, Samimi MM, Ettenberg A. (2002). Evidence for the opponent-process actions of intravenous cocaine and cocaethylene. *Pharmacology, Biochemistry, Behavior* 72: 931-36. PMID: 12062583

### Manuscripts under Review

\*= UF undergraduate author; #= UF graduate student author; \$ = post-doctoral fellow

Stennett B<sup>#</sup>, Frankowski J<sup>\*</sup>, Peris J, **Knackstedt LA**. Ceftriaxone reduces alcohol intake in outbred rats while upregulating xCT in the nucleus accumbens. Under review at Pharmacology, Biochemistry, and Behavior.

### Manuscripts in Preparation

\*= UF undergraduate author; #= UF graduate student author; \$ = post-doctoral fellow

Schwendt M, Shallcross J<sup>#</sup>, Hadad NA<sup>#</sup>, Namba M<sup>\*</sup>, Hiller H, Wu L, Krause EG, **Knackstedt, LA**. mGlu5 mediates enhanced cocaine-seeking in a novel rat model of comorbid PTSD and cocaine addiction. In preparation for submission to *Biological Psychiatry*.

Logan C<sup>#</sup>, **Knackstedt LA**. The role of nucleus accumbens GLT-1 expression in regulating cocaine reinstatement and the glutamate efflux which accompanies reinstatement. In preparation for submission to *Neuropharmacology*.

Bechard A<sup>\$</sup>, Hamor P<sup>#</sup>, Schwendt M, **Knackstedt LA**. Sex differences in the ability of ceftriaxone to attenuate cue-primed reinstatement of cocaine-seeking. In preparation for submission to *Psychopharmacology*.

## **Invited Book Chapters**

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Polysubstance-related disorders. LaCrosse A<sup>\$</sup>, Stennett, B<sup>#</sup>, Knackstedt L. The SAGE Encyclopedia of Abnormal and Clinical Psychology. *In press*, Wenzel AE (ed.)

Bulimia Nervosa as an Addiction. Hadad, N<sup>#</sup> & Knackstedt, L. in The Neuropathology of Drug Addictions and Substance Misuse. Vol 3 Pages: 1019-1027, Preedy, V (ed.)

Neuropharmacology of Cocaine and Amphetamine. Knackstedt, LA. in Biological Research on Addiction: Comprehensive Addictive Behaviors and Disorders (2013), Vol 2 Pages: 573-577, Miller, PM (ed.)

## **Poster Presentations (National and International)**

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**\*= UF undergraduate author; #= UF graduate student author; \$ = post-doctoral fellow**

Logan C<sup>#</sup>, **Knackstedt LA**. AAV-mediated overexpression of GLT-1 does not attenuate cocaine relapse or the glutamate release that accompanies reinstatement. Max Planck Florida Institute for Neuroscience Biennial Sunposium. West Palm Beach, FL: February 2017.

**Knackstedt L**, Stennett B<sup>#</sup>, Schwendt M. The role of glutamate in mediating the reinstatement of cocaine-seeking is altered by both a history of stress and combined alcohol and cocaine self-administration. American College of Neuropsychopharmacology Annual Meeting, Hollywood, FL: December 2016.

Stennett B<sup>#</sup>, Jackson B,\* **Knackstedt, L**. The Nucleus Accumbens Core is Less Active During Reinstatement to Cocaine Seeking in Animals with a History of Alcohol Use as Compared to Cocaine Use Only. Society for Neuroscience Annual Meeting, San Diego, CA. November 2016.

Logan, C<sup>#</sup>. & **Knackstedt, L**. AAV mediated upregulation of GLT-1 does not prevent the reinstatement of cocaine seeking. Society for Neuroscience Annual Meeting, San Diego CA. November 2016.

Shallcross J.F<sup>#</sup>, **Knackstedt L**, Schwendt M. mGluR5 mediates resilience to traumatic stress and relapse to cocaine seeking. Society for Neuroscience Annual Meeting, San Diego, CA. November 2016.

**Knackstedt, LA**, Logan C<sup>#</sup>. Ceftriaxone and cocaine relapse: contrasting the roles of xCT and GLT-1 upregulation. International Behavioral Neuroscience Society Annual Meeting. Budapest, Hungary. June 2016.

Schwendt M, **Knackstedt, LA**. The role of mGluR5 in neurobiological mechanisms of resilience to develop comorbid PTSD and cocaine addiction. International Behavioral Neuroscience Society Annual Meeting. Budapest, Hungary. June 2016.

Shallcross J<sup>#</sup>, Namba M\*, Hiller H, Krause EK, Schwendt M, **Knackstedt L**. Development of an animal model of comorbid PTSD and cocaine addiction: the role of mGluR5 in promoting resilience and reducing cocaine relapse. Society for Biological Psychiatry Annual Meeting, Atlanta, GA. May 2016.

Stennett B<sup>#</sup>, **Knackstedt, LA**. Voluntary consumption of alcohol in combination with cocaine alters the neurobiology underlying relapse to cocaine-seeking. American College of Neuropsychopharmacology Annual Meeting, Hollywood, FL: December 2015.



LaCrosse AL<sup>§</sup>, Gordon MA\*, Jackson BS\*, **Knackstedt LA**. Antisense-mediated downregulation of xCT reduces basal glutamate in the NA and alters post-synaptic AMPA receptor subunit expression. Society for Neuroscience. Chicago, IL. October 2015.

Stennett B,<sup>#</sup> **Knackstedt LA**. The role of glutamate release in the nucleus accumbens core during cocaine reinstatement in rats with a history of both alcohol and cocaine self-administration. Society for Neuroscience. Chicago, IL. October 2015.

Hadad NA<sup>#</sup>, Schwendt M, Hiller H, Krause E, and **Knackstedt LA**. Predator Stress Combined with Extinction-Reinstatement as an Animal Model of PTSD Comorbid with Cocaine Addiction. Anxiety and Depression Association of America. Miami, FL. April 2015.

Reissner K, **Knackstedt LA**. Ceftriaxone requires both xCT and GLT-1 up-regulation in the nucleus accumbens to attenuate the reinstatement of cocaine-seeking and alter AMPA receptor subunit composition. American College of Neuropsychopharmacology Annual Meeting, Phoenix, AZ: December 2014.

Stennett B,<sup>#</sup> **Knackstedt, LA**. Using a rodent model of simultaneous cocaine and alcohol use to screen medications to prevent cocaine relapse. Society for Neuroscience Annual Meeting Washington, DC: November 2014.

Bilodeau J\*, Reissner K<sup>#</sup>, **Knackstedt LA**. Ceftriaxone requires both xCT and GLT-1 up-regulation in the nucleus accumbens to attenuate the reinstatement of cocaine-seeking. Society for Neuroscience Annual Meeting Washington, DC: November 2014.

**Knackstedt LA**, Schwendt M. The role of glutamate in the nucleus accumbens in the context-primed relapse of cocaine-seeking after abstinence. Society for Neuroscience Annual Meeting Washington, DC: November 2014.

Schwendt M, Hiller H, Krause EG, **Knackstedt, LA**. Development of an animal model and treatments for comorbid PTSD and cocaine addiction. Society for Neuroscience Annual Meeting Washington, DC: November 2014.

**Knackstedt LA**, Schwendt M. Ceftriaxone and MTEP attenuate context-primed relapse of cocaine-seeking after abstinence. Federation of European Neuroscience Societies, Milan, Italy: July 2014.

Schwendt M, Krause EG, **Knackstedt LA**. Development of an animal model and treatments for comorbid PTSD and cocaine addiction. Federation of European Neuroscience Societies, Milan, Italy: July 2014.

Stennett B<sup>#</sup>, **Knackstedt LA**. Restoring glutamate homeostasis to prevent relapse in a rodent model of alcohol-seeking. Society for Neuroscience Annual Meeting, San Diego CA: November 2013.

**Knackstedt LA**. Restoring glutamate homeostasis to prevent relapse in a rodent model of alcohol-seeking. NCDEU Annual Meeting, Hollywood, FL: June 2013.

Reissner KJ, Boger HA, Tran PK, **Knackstedt LA**, Scofield MD, Kalivas PW. Effects of cocaine self-administration and extinction on astrocyte content and protein expression in the nucleus accumbens, and

relationship to reinstatement. American College of Neuropsychopharmacology Annual Meeting, Hollywood, FL: December, 2012.

Ramachandra VS, **Knackstedt LA**, Griffin III WC, Hazelbaker CL, Haun HL, Snyder LL, Becker HC. Glutamate transporter expression in nucleus accumbens after chronic intermittent ethanol exposure. Society for Neuroscience Annual Meeting, New Orleans, LA: October 2012.

**Knackstedt LA**, Reissner K. Ceftriaxone increases glutamate transport and basal glutamate levels in the nucleus accumbens core of cocaine self-administering animals. American College of Neuropsychopharmacology Annual Meeting, Kona, HI: December, 2011.

**Knackstedt LA**. The effects of simultaneous cocaine and alcohol consumption on glutamatergic markers in the nucleus accumbens of the rat. American College of Neuropsychopharmacology Annual Meeting, Miami, FL: December, 2010.

**Knackstedt LA**, Kalivas PW. The effects of ceftriaxone on basal glutamate levels in the nucleus accumbens following withdrawal from cocaine self-administration. Society for Neuroscience Annual Meeting, San Diego, CA: November 2010.

Hohman M, Kalivas PW, **Knackstedt LA**. The effects of ceftriaxone on cocaine-induced locomotion and glutamate release in the nucleus accumbens. Society for Neuroscience Annual Meeting, Chicago, IL: October 2009.

**Knackstedt LA**, Moussawi K, Kalivas PW. Glutamatergic adaptations in the nucleus accumbens following cocaine self-administration: abstinence vs. extinction. Society for Neuroscience Annual Meeting, Washington, DC: November 2008.

**Knackstedt LA**, Kalivas PW. Cocaine self-administration alters the expression of proteins associated with glutamatergic transmission and homeostasis at cortico-accumbens synapses. American College of Neuropsychopharmacology Annual Meeting, Boca Raton, FL: December, 2007.

**Knackstedt LA**, Melendez R, Kalivas PW. Cocaine self-administration alters the expression of proteins associated with glutamatergic transmission and homeostasis at cortico-accumbens synapses. Society for Neuroscience Annual Meeting, San Diego, CA: November, 2007.

**Knackstedt LA**, Kalivas PW. Cocaine self-administration alters the expression of proteins associated with glutamatergic transmission and homeostasis at cortico-accumbens synapses. Motivational Neuronal Network Conference, Porquerolles, France: May 2007.

**Knackstedt LA**, Kalivas PW. The Long-Access Model of Cocaine Addiction: Extended access to cocaine does not alter the expression of locomotor sensitization or reinstatement behavior relative to controls. Society for Neuroscience Annual Meeting, Atlanta, GA: October, 2006.

**Knackstedt LA**, Kalivas PW. Long-Access Model of Cocaine Addiction: Extended access to cocaine and escalation of drug-intake does not alter the expression of locomotor sensitization relative to non-escalated controls. Federation of European Neuroscience Societies Forum, Vienna, Austria: July 2006.

**Knackstedt LA**, Ettenberg A. Effects of ethanol consumption on the opponent-process properties of intravenous cocaine. Society for Neuroscience Annual Meeting, San Diego, CA: November 2004.

**Knackstedt LA**, Ettenberg A. Ethanol consumption voluntarily increases after pre-treatment with intravenous cocaine. Society for Neuroscience Annual Meeting, New Orleans, LA: November 2003.

**Knackstedt LA**, Ettenberg A. Ethanol consumption reduces the anxiogenic effects of IV cocaine in rats. Society for Neuroscience Annual Meeting, Orlando, FL: November 2002.

**Knackstedt LA**, Samimi M, Ettenberg A. Evidence for the opponent-process actions of intravenous cocaine and cocaethylene. Society for Neuroscience Annual Meeting, San Diego, CA: November 2001.

### **Poster Presentations (Local)**

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\*= UF undergraduate author; #= UF graduate student author; \$ = post-doctoral fellow

Bechard AR<sup>\$</sup>, Frias A<sup>\*</sup>, Padovan Hernandez Y<sup>\*</sup>, **Knackstedt LA**. Influence of sex and estrous cyclicity on ceftriaxone's ability to attenuate cue-primed reinstatement of cocaine-seeking behavior in rats. North Central Florida Society for Neuroscience Annual Meeting, Gainesville, FL. March 2017.

Bechard AR<sup>\$</sup>, Hodges, V<sup>\*</sup>, **Knackstedt LA**. The effects of cue exposure therapy and ceftriaxone on cocaine relapse. North Central Florida Society for Neuroscience Annual Meeting, Gainesville, FL. March 2017.

Shallcross JF<sup>#</sup>, Namba M<sup>\*</sup>, **Knackstedt LA**, Schwendt M. (2016). Development of an animal model of comorbid PTSD and cocaine addiction: the role of mGluR5 in promoting resilience and reducing cocaine relapse. Center for Addiction Research and Education (CARE) Annual Meeting, Gainesville, FL. April 2016

Logan C<sup>#</sup>, **Knackstedt LA**. Upregulation of GLT-1 transporters does not prevent the reinstatement of drug seeking. Center for Addiction Research and Education (CARE) Annual Meeting, Gainesville, FL. April 2016.

Gordon M<sup>\*</sup>, Jackson B<sup>\*</sup>, LaCrosse A<sup>#</sup>, **Knackstedt LA**. Reversal learning is not protective against cocaine relapse. Center for Addiction Research and Education (CARE) Annual Meeting, Gainesville, FL. April 2016.

Shallcross JF<sup>#</sup>, Namba M<sup>\*</sup>, Hiller H, Krause EG, **Knackstedt LA**, Schwendt M. (2016). Development of an animal model of comorbid PTSD and cocaine addiction: the role of mGluR5 in promoting resilience and reducing cocaine relapse. North Central Florida Society for Neuroscience Annual Meeting, Gainesville, FL. March 2016.

Stennett B<sup>#</sup>, **Knackstedt LA**. Using a rodent model of simultaneous cocaine and alcohol use to screen medications to prevent cocaine relapse. North Central Florida Society for Neuroscience Annual Meeting, Gainesville, FL. March 2015.

**Knackstedt LA** & Schwendt M. Ceftriaxone and MTEP attenuate context-primed relapse of cocaine-seeking after abstinence. Center for Addiction Research and Education (CARE) Annual Meeting, Gainesville, FL. April 2014.