

Curriculum Vitae
 Cassandra D. Gipson-Reichardt (formerly Gipson)
 Assistant Professor
 Address: Arizona State University
 Psychology Department, Room 206
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Education

2004 Bachelor of Science in Psychology, University of California, San Diego
 2007 Master of Science in Psychology, University of Kentucky
 Thesis: Post-Choice Stimulus Review by Pigeons
 Mentor: Dr. Thomas Zentall
 2010 Doctor of Philosophy in Psychology, University of Kentucky
 Thesis: A Translational Model of Mood-Based Rash Action
 Mentors: Dr. Michael T. Bardo and Dr. Thomas Kelly

Positions and Honors

ACTIVITY/ OCCUPATION	BEGINNING DATE (mm/yy)	ENDING DATE (mm/yy)	FIELD	INSTITUTION/ COMPANY	SUPERVISOR/ EMPLOYER
Research Asst.	06/2002	06/2003	Psychology	UC San Diego	Victor Ferreira, PhD
Research Asst.	12/2002	06/2003	Psychiatry	UC San Diego	Tamar Gollan, PhD
Research Asst.	08/2003	05/2005	Psychology	UC San Diego	John Wixted, PhD
Research Asst.	08/2003	05/2005	Psychology	UC San Diego	Edmund Fantino, Ph.D.
Research Fellow	08/2005	06/2006	Psychology	University of Kentucky	Graduate School
Teaching Asst.	08/2006	12/2006	Beh. Neurosci	University of Kentucky	Michael Bardo, PhD
Teaching Asst.	01/2007	12/2007	Learning/ Behavior	University of Kentucky	Thomas Zentall, PhD
Research Trainee	07/2008	06/2010	Behavioral Sciences	University of Kentucky	Thomas Garrity, PhD
Research Fellow	07/2010	09/2010	Psychology	University of Kentucky	Graduate School
Postdoctoral Fellow	11/2010	07/2015	Neurosciences	Med. Univ. South Carolina	Peter Kalivas, PhD
Assistant Prof.	08/2015	present	Psychology	Arizona State Univ.	

Publications

1. O'Daly, M., Angulo, S., **Gipson, C.**, & Fantino, E. (2006). Influence of temporal context on value in the multiple-chains and successive-encounters procedures. *Journal of the Experimental Analysis of Behavior*, 85(3), 309-328. PMID: 16776054.
2. **Gipson, C.D.**, DiGian, K.A., Miller, H.C., & Zentall, T.R. (2008). Radial maze analog for pigeons: Evidence for flexible coding strategies may result from faulty assumptions. *Learning & Motivation*, 39, 285-295. PMID: 19884963.

3. **Gipson**, C.D., Alessandri, J.J.D., Miller, H.C., & Zentall, T.R. (2009). Preference for 50% reinforcement over 75% reinforcement by pigeons. *Learning & Behavior*, *37*(4), 289-98. PMID: 19815925.
4. Miller, H.C., **Gipson**, C.D., Vaughn, A., Rayburn-Reeves, R., & Zentall, T.R. (2009). Object permanence in dogs: Invisible displacement in a rotation task. *Psychonomic Bulletin & Review*, *16*(1), 150-155.
5. **Gipson**, C.D., Miller, H.C., Alessandri, J.J.D., & Zentall, T.R. (2009). Within-trial contrast: The effect of probability of reinforcement in training. *Behavioural Processes*, *82*, 126-132. PMID: 19607889.
6. **Gipson**, C.D., & Bardo, M.T. (2009). Extended access to amphetamine self-administration increases impulsive choice in a delay discounting task in rats. *Psychopharmacology*, *207*, 391-400. PMID: 19784636.
7. Marusich, J.A, Beckmann, J.S, **Gipson**, C.D., & Bardo, M.T. (2010). Methylphenidate as a reinforcer for rats: contingent delivery and escalation. *Experimental and Clinical Psychopharmacology*, *18*(3), 257-266. PMID: 20545390.
8. Beckmann, J.S., Marusich, J.A., **Gipson**, C.D., & Bardo, M.T. (2010). Novelty seeking, incentive salience and acquisition of cocaine self-administration in the rat. *Behavioral Brain Research*, *26*(1), 159-165. PMID: 20655954.
9. **Gipson**, C.D., Beckmann, J.S., El-Maraghi, S., Marusich, J.A., & Bardo, M.T. (2011). Effect of environmental enrichment on escalation of cocaine self-administration in rats. *Psychopharmacology*, *214*(2), 557-566. PMID: 21057774.
10. **Gipson**, C.D., Yates, J., Beckmann, J.S., Marusich, J.A., Zentall, T.R., & Bardo, M.T. (2011). Social facilitation of d-amphetamine self-administration in the rat. *Experimental and Clinical Psychopharmacology*, *19*(6), 409-19. PMID: 2176703.
11. Marusich, J.A., Beckmann, J.S., **Gipson**, C.D., & Bardo, M.T. (2011). Cue effects on methylphenidate self-administration in rats. *Behavioural Pharmacology*, *22*(7), 714-7. PMID: 21897204.
12. Marusich, J.A., McCuddy, W.T., Beckmann, J.S., **Gipson**, C.D., & Bardo, M.T. (2011). Strain differences in self-administration of methylphenidate and sucrose pellets in a rat model of attention-deficit hyperactivity disorder. *Behavioural Pharmacology*, *22*(8), 794-804. PMID: 22015805.
13. **Gipson**, C.D., Beckmann, J.S., Adams, Z., Marusich, J.A., Nesland, T.O., Yates, J.R., Kelly, T.H., & Bardo, M.T. (2011). A translational behavioral model of mood-based impulsivity: Implications for drug self-administration. *Drug and Alcohol Dependence*, *122*(1-2), 93-9. PMID: 21975194.
14. Beckmann, J.S., **Gipson**, C.D., Marusich, J.A., & Bardo, M.T. (2012). Escalation of cocaine intake with extended access in rats: dysregulated addiction or regulated acquisition? *Psychopharmacology*, *222*(2), 257-67. PMID: 22249361.
15. Yates, J., Beckmann, J.S., **Gipson**, C.D., Marusich, J.A., & Bardo, M.T. (2012). High impulsivity in rats predicts amphetamine conditioned place preference in rats. *Pharmacology, Biochemistry, & Behavior*, *100*(3), 370-6. PMID: 21807020.
16. Yates, J.R., Darna, M., **Gipson**, C.D., Dvoskin, L.P., & Bardo, M.T. (2012). Isolation rearing as a preclinical model of attention/deficit-hyperactivity disorder. *Behavioral Brain Research*, *234*(2), 292-8. PMID: 22580232.
17. Alvers, K.A., Marusich, J.A., **Gipson**, C.D. Beckmann, J.S., & Bardo, M.T. (2012). Environmental enrichment during development decreases intravenous self-administration of methylphenidate at low unit doses in rats. *Behavioural Pharmacology*, *23*(7), 650-7. PMID: 22914073.
18. **Gipson**, C.D.*, Kupchik, Y.M.*, Shen, H.*, Reissner, K.J., Thomas, C.A., & Kalivas, P.W. (2013). Relapse induced by cues predicting cocaine depends on rapid, transient synaptic potentiation. *Neuron*, *77*(5), 867-72. PMID: 23473317.
19. **Gipson**, C.D., Reissner, K.J., Kupchik, Y.M., Smith, A.W., Stankeviciute, N., Hensley-Simon, M.E., & Kalivas, P.W. (2013). Nicotine relapse is mediated by glutamatergic plasticity. *Proceedings of the National Academy of Sciences*, *110*(22), 9124-9. PMID: 23671067.

20. Stankeviciute, N., Scofield, M., Kalivas, P.W., & **Gipson**, C.D. (2013). Context-induced reinstatement elicits rapid, reversible increases in dendritic spine morphology in nucleus accumbens core. *Addiction Biology*. PMID: 23648005
21. **Gipson**, C.D., Kupchik, Y.M., & Kalivas, P.W. (2013). Rapid, transient synaptic plasticity in addiction. NIDA 40th anniversary edition of *Neuropharmacology*. PMID: 23639436.
22. Shen, H., **Gipson**, C.D., Huijts, M.J., & Kalivas, P.W. (2013). Prelimbic cortex and ventral tegmental area modulate synaptic plasticity differentially in nucleus accumbens during cocaine-reinstated drug seeking. *Neuropsychopharmacology*, doi: 10.1038/npp.2013.318. PMID: 24232172
23. McClure, E.A., **Gipson**, C.D., Malcolm, R., Kalivas, P.W., Gray, K.M. (2014). Potential Role of N-Acetyl-Cysteine in the Management of Substance Use Disorders. *CNS Drugs*. PMID: 24442756
24. Reissner, K.J., **Gipson**, C.D., Knackstedt, L.A., Scofield, M.D., & Kalivas, P.W. (2014). Glutamate Transporter GLT-1 Mediates N-acetylcysteine Inhibition of Cocaine Reinstatement. *Addiction Biology*. PMID: 24612076
25. Kalivas, P.W. & **Gipson**, C.D. (2014). "Mourning" a Lost Opportunity. Commentary on: *A multistep general theory of transition to addiction* by Piazza and Deroche-Gamonet (2013), *Psychopharmacology*. PMID: 24862367
26. Yates, J.R., Perry, J.L., Meyer, A.C., **Gipson**, C.D., Charnigo, R., & Bardo, M.T. (2014). Role of medial prefrontal and orbitofrontal monoamine transporters and receptors in performance in an adjusting delay discounting procedure. *Brain Research*. PMID: 24928616
27. McClure, E.A., Baker, N.L., **Gipson**, C.D., Carpenter, M.J., Roper, A., Froeliger, B., Kalivas, P.W., & Gray, K.M. (2014). An open-label pilot trial of N-acetylcysteine and varenicline in adult cigarette smokers. *The American Journal of Drug and Alcohol Abuse*. PMID: 25062287
28. **Gipson**, C.D., & Kalivas, P.W. (2014). More Cocaine = More Glutamate = More Addiction. *Biological Psychiatry*, doi: 10.1016/j.biopsych.2014.08.010. Epub 2014 Oct 31. PMID: 25442059
29. Smith, A.W., Kupchik, Y.M., Scofield, M.D., **Gipson**, C.D., Wiggins, A.T., Thomas, C.A., & Kalivas, P.W. (2014). Synaptic plasticity mediating cocaine relapse requires matrix metalloproteinases. *Nature Neuroscience*. doi: 10.1038/nn.3846. [Epub ahead of print] PMID: 25326689
30. Darna, M., Beckmann, J.S., **Gipson**, C.D., Bardo, M.T., Dwoskin, L.P. (2015). Effect of environmental enrichment on dopamine and serotonin transporters and glutamate neurotransmission in medial prefrontal and orbitofrontal cortex. *Brain Research*. PMID: 25536304
31. Yates, J., Darna, M., **Gipson**, C.D., Dwoskin, L.P., Bardo, M.T. (2015). Dissociable roles of dopamine and serotonin transporter function in a rat model of negative urgency. *Behavioural Brain Research*. PMID: 26005123
32. Garcia-Keller, C., Kupchik, Y.M., **Gipson**, C.D., Brown, R.M., Spencer, S., Bollati, F., Esparza, M.A., Roberts-Wolfe, D., Heinsbroek, J., Bobadilla, A-C., Cancela, L.M., Kalivas, P.W. (2015). Glutamatergic mechanisms of comorbidity between acute stress and cocaine self-administration. *Molecular Psychiatry*. doi: 10.1038/mp.2015.151.
33. Scofield, M.D., Heinsbroek, J., **Gipson**, C.D., Spencer, S., Smith, A.C.W., Kalivas, P.W. (in press). The Nucleus Accumbens: Mechanisms of Addiction Across Drug Classes Reflect the Importance of Glutamate Homeostasis. *Pharmacological Reviews*.
34. **Gipson**, C.D. (in press). Treating addiction: Unraveling the relationship between N-Acetylcysteine, glial glutamate transport, and behavior. Commentary on: *N-Acetylcysteine facilitates self-imposed abstinence after escalation of cocaine intake* by Ducret et al. (2015), *Biological Psychiatry*.

Manuscripts Submitted or in Preparation:

1. **Gipson**, C.D., & Beckmann, J.S. (in preparation). Conditioned versus discriminative stimuli in cue-triggered relapse: Do these drug-associated stimuli elicit different neurobiological changes?
2. **Gipson**, C.D., & Olive, M.F. (submitted). Structural plasticity of dendritic spines – cause or consequence of behavior? Invited review for *Genes, Brain, and Behavior*.

Book Chapters

1. **Gipson**, C.D., & Kalivas, P.W. Pharmacotherapies in drug addiction. *In: Drug Discovery for Psychiatric Disorders*. Rankovic, Z., Bingham, M., Hargreaves, R., & Nestler, E. (Eds). Royal Society of Chemistry.
2. **Gipson**, C.D. & Kalivas, P.W. Neural Basis of Drug Addiction. In: *Neurobiology of Drug Abuse in Adolescents*, São Paulo, Brazil.
3. Olive, M.F., & **Gipson**, C.D. (book chapter). *Conditioning of Addiction*. 2nd edition of *Addiction Medicine*.

Pharmaceutical Reports

1. Bardo, M.T., **Gipson**, C.D., & Denehy, E.D. (2008). Effects of Targacept compounds TI-297455, TI-308691, and TI-314017 on intravenous nicotine self-administration in rats. Targacept, Inc.
2. Bardo, M.T., **Gipson**, C.D., & Denehy, E.D. (Supplement, 2008). Effects of repeated TI-314017 on intravenous nicotine self-administration in rats. Targacept, Inc.

Awards, Recognition, Grants

2005

1. Graduate School Research Fellowship, University of Kentucky, August 2005-June 2006.

2007

2. Society for the Advancement of Behavior Analysis Student Presenter Grant, May, 2007.

2008

3. NIDA Predoctoral Traineeship, Department of Behavioral Science and the National Institute of Drug Abuse, University of Kentucky, July 1, 2008- June 30, 2009 (T32 DA007304).

2009

4. NIDA Director's Travel Award, College on Problems of Drug Dependence, Reno, NV, June 2009.
5. NIDA Predoctoral Traineeship, Department of Behavioral Science and the National Institute of Drug Abuse, University of Kentucky, July 1, 2009- June 30, 2010 (T32 DA007304).

2010

6. Center for Drug and Alcohol Research Petite Grant Award, January 2010-January 2011.
7. Dissertation Year Fellowship. The Graduate School, University of Kentucky.
8. NIDA Director's Travel Award, College on Problems of Drug Dependence, Scottsdale, AZ, June 2010.
9. **National Research Service Award, National Institute of Drug Abuse (F31 DA028018).**
Title: A Translational Model of Mood-Based Drug Abuse
10. American Psychological Association Dissertation Research Award, APA Science Directorate, November 2010.
11. NIDA Post-Doctoral Traineeship, Department of Neurosciences and the National Institute of Drug Abuse, Medical University of South Carolina, November 1, 2010-October 31, 2011 (T32 DA007288).

2011

12. Early Career Investigator Award, College on Problems of Drug Dependence, Hollywood FL.
13. American Psychological Association, Division 28 Outstanding Dissertation Award. Washington, D.C., August 2011.
14. Behavioral Neuroscience and Psychopharmacology Student Achievement Award 2010-2011, Department of Psychology, University of Kentucky.
15. NIDA Post-Doctoral Traineeship, Department of Neurosciences and the National Institute of Drug Abuse, Medical University of South Carolina, November 1, 2011 (T32 DA007288).

2012

16. **National Research Service Award, National Institute on Drug Abuse (F32 DA033690).**
Title: Chronic Adaptations in Glutamatergic and Dopaminergic Signaling in Nicotine Abuse
17. Young Investigator Award, Society for Research on Nicotine and Tobacco, to present a poster at the NIDA presymposium at the Society for Neuroscience, New Orleans, LA.
18. Travel Award to present a poster at the 6th Annual Julius Axelrod symposium (NIDA), Society for Neuroscience, New Orleans, LA.
19. Travel Award, American College of Neuropsychopharmacology (ACNP), Hollywood, FL.
20. First place poster award for MUSC Research Day, Charleston, SC

2013

21. Travel Award, College on Problems of Drug Dependence, to present a poster at the NIDA presymposium, Society for Neuroscience, San Diego, CA
22. Society for Neuroscience Chapter Travel Award, San Diego, CA

2014

23. Young Psychopharmacologist Award, Division 28, American Psychological Association, Washington DC
24. **K99/R00 Transition to Independence Grant, National Institute on Drug Abuse (K99 DA036569)**
Title: Contributions of Glial Glutamate Transport and NMDA Receptors in Nicotine Relapse
25. NIDA Notes spotlight article, June issue, "New Insight Into Cue-Induced Relapse to Cocaine".
<http://www.drugabuse.gov/news-events/nida-notes/2014/05/new-insight-how-cues-cause-relapse-to-cocaine>

Short Courses, Seminars, and Workshops

1. 2011 Cold Spring Harbor Cellular Biology of Addiction course, Cold Spring Harbor, NY

Professional Affiliations

1. Midwestern Psychological Association
2. College on Problems of Drug Dependence (Elected Member)
3. American Psychological Association, Student Affiliate, Division 28
4. Society for Neuroscience
5. Society for Research on Nicotine and Tobacco (Member)
6. American College of Neuropsychopharmacology, Past Travel Awardee
7. Association for Psychological Science (member)
8. Society of Biological Psychiatry (associate member)

Service Activities

1. Board Member and Membership Coordinator. Society for the Quantitative Analysis of Behavior (SQAB), 2009-2010.
2. Society for Research on Nicotine and Tobacco (SRNT) abstract reviewer, 2013-2015
3. Society for Neuroscience Host and Mentor, *Career Development Topics: A Mentoring and Networking Event* at the "Pre- and Post- Doctoral National Research Service Awards (NRSAs) table. 2013
4. Society for Neuroscience Host and Mentor, *Career Development Topics: A Mentoring and Networking Event* at the "Pre- and Post- Doctoral National Research Service Awards (NRSAs) table. 2014
5. Basic Science Network Advisory Committee, Society for Research on Nicotine and Tobacco, 2015-2017.
6. Intel ISEF Special Award Judge for the National Institute on Drug Abuse, Phoenix AZ, June 2016.
<https://www.drugabuse.gov/news-events/news-releases/2016/05/link-between-stress-mindset-factors-influence-addiction-vulnerability-focus-top-nih-addiction>.

Ad Hoc Peer Reviewer

Drug and Alcohol Dependence, Biological Psychiatry, Addiction Biology, Neuropsychopharmacology, Journal of Neuroscience, Psychopharmacology, Behavioral Pharmacology, PLoS ONE, Behavioural Brain Research, Current Biology, Brain Structure and Function, Brain Research, Physiology & Behavior, European Journal of Neuroscience.

Oral Presentations

1. **Gipson, C.D.** A translational model of mood-based drug abuse. Invited talk for the Outstanding Dissertation Award, American Psychological Association Division 28 (August 2011), Washington, DC.
2. **Gipson, C.D., Kupchik, Y., Reissner, K.J., & Kalivas, P.W.** (oral presentation). Nicotine relapse is associated with rapid synaptic potentiation: Role of GluR1 and NMDA2B-containing receptors. Society for Research on Nicotine and Tobacco (March 2013), Boston MA.
3. **Gipson, C.D., & Kalivas, P.W.** (invited talk). Preclinical approaches to preventing cigarette use: Understanding the neurobiology of addiction to discover new pharmacotherapeutic targets. Tobacco Research Interest Group, Medical University of South Carolina, Charleston, S.C.
4. **Gipson, C.D., Shen, H., Kupchik, Y.M., & Kalivas, P.W.** (invited oral presentation). Prelimbic cortex and ventral tegmental area modulate nucleus accumbens core synaptic plasticity during cue- and cocaine-reinstated drug seeking. Dopamine (May 2013), Alghero, Sardinia.
5. **Gipson, C.D.** (Chair and oral presenter in a minisymposium). Rapid synaptic potentiation and alterations in glutamatergic signaling: New pharmacotherapeutic targets in reversing nicotine addiction. *College on Problems of Drug Dependence, San Diego.*
6. **Gipson, C.D.** (invited oral presentation). Contributions of glial glutamate transport and NMDA receptors in nicotine relapse. Invited talk for Young Psychopharmacologist Award, American Psychological Association Division 28, Washington DC.
7. **Gipson, C.D.** Rapid synaptic plasticity in nicotine and cocaine relapse. Yale, Department of Psychiatry, Invited Speaker. August 2014.
8. **Gipson, C.D.** Rapid synaptic plasticity in nicotine and cocaine relapse. Rockefeller University, September 2014.
9. **Gipson, C.D.** N-Acetylcysteine Prevents Nicotine Relapse-Associated Synaptic Plasticity. Scientific Retreat on Tobacco Related Research: "Making Tobacco History: Accelerating Efforts to Reduce Harm Caused by Tobacco". October 2014, MUSC.
10. **Gipson, C.D.** Rapid, transient plasticity in cocaine and nicotine relapse: new pharmacotherapeutic avenues. University of Mississippi Medical Center, October 2014.
11. **Gipson, C.D.** Rapid plasticity in cocaine and nicotine relapse: new pharmacotherapeutic treatment strategies to reduce relapse vulnerability. Johns Hopkins Departmental Research Conference, Department of Psychiatry and Behavioral Sciences, November 2014.
12. **Gipson, C.D.** The potentiated synapse in addiction: Identifying novel targets to inhibit relapse vulnerability. Arizona State University, Department of Psychology Colloquium Series, February 2015.
13. **Gipson, C.D.** Synaptic plasticity in nicotine addiction. Barrow Neurological Institute, Phoenix, Arizona, November 2015.
14. **Gipson, C.D.** "Relapse triggered by memory cues elicits different neurobiological changes depending on the cue type. Neuroscience 6th Research Symposium, Barrow Neurological Institute, Phoenix, Arizona, January 2016.

Scholarly Presentations

2005

15. **Gipson, C. D., & Wixted, J. T.** Retention-test ambiguity versus single sample detection as an explanation for retention biases. Poster for the Association for Behavioral Analysis Annual Convention. Poster Presentation, Chicago, IL May 27-31, 2005.

2007

16. **Gipson**, C.D., DiGian, K.A., & Zentall, T.R. Evidence for coding strategies in pigeons may result from faulty assumptions. Oral Presentation, Conference of Comparative Cognition, Melbourne, FL, March 14-18, 2007.
17. **Gipson**, C.D., & Zentall, T.R. Pigeons May Use Neither Retrospective Nor Prospective Spatial Coding When Performing on the Radial Maze with Delays. Oral Presentation, Tri-State Conference, Purdue University, April 27-28, 2007.
18. **Gipson**, C.D., & Zentall, T.R. Pigeons' Coding Strategies in a Radial-Arm Maze. Oral Presentation, The University of Kentucky Center for Ecology, Evolution, and Behavior Spring Research Symposium, Lexington, KY, May 10-11, 2007.
19. **Gipson**, C.D., & Zentall, T.R. Coding strategies in pigeons: Planning ahead or remembering the past? Poster Presentation for the Association of Behavioral Analysis Annual Convention, San Diego, CA, May 23-27, 2007.
20. **Gipson**, C.D., & Zentall, T.R. Coding strategies in pigeons: Planning ahead or remembering the past? Poster for the Society for the Quantitative Analysis of Behavior Annual Convention, San Diego, CA, May 25-26, 2007.

2008

21. **Gipson**, C.D., DiGian, K.A., & Zentall, T.R. Dual Coding in Pigeons. Oral Presentation, Cognitive Science Day, University of Kentucky, Lexington, KY, February 2008.
22. **Gipson**, C.D., Alessandri, J., & Zentall, T.R. Preference for Intermittent Reinforcement in Pigeons. Oral Presentation, Conference of Comparative Cognition, Melbourne, FL, March 19-23, 2008.
23. **Gipson**, C.D., Alessandri, J., & Zentall, T.R. Preference for Intermittent Reinforcement in Pigeons. Oral Presentation, Tri-State Conference, University of Kentucky, Lexington, KY, March 28-29, 2008.
24. Stagner, J.P., **Gipson**, C.D., Alessandri, J., Miller, H.C., & Zentall, T.R. Oral Presentation, Preference for 50% Reinforcement Over 75% Reinforcement by Pigeons. Comparative Cognition and Learning, Chicago, IL, November 2008.

2009

25. Stagner, J.P., **Gipson**, C.D., Miller, H., Alessandri, J., & Zentall, T.R. (2009). A gambling analogy: Pigeons prefer 50% reinforcement over 75% reinforcement. Midwestern Psychological Association, Chicago, IL, April 37-May 3, 2009.
26. **Gipson**, C.D., & Bardo, M.T. The effect of short versus long access to d-amphetamine self-administration on a delay discounting task in rats. Oral Presentation, NIDA Training Grant Symposium, University of Kentucky, Lexington, KY, October 16, 2008.
27. **Gipson**, C.D., & Bardo, M.T. Effects of varied access to d-amphetamine self-administration on a delay discounting task in rats. Poster Presentation, Bluegrass Society for Neuroscience Spring Neuroscience Day, University of Kentucky, Lexington, KY, March 18, 2009.
28. **Gipson**, C.D., & Bardo, M.T. Effect of varied access to d-amphetamine self-administration on impulsive choice in a delay discounting task in rats. Poster for the Society for the Quantitative Analysis of Behavior, Phoenix, AZ, May 21-25, 2009.
29. **Gipson**, C.D., & Bardo, M.T. The effect of long and short access to d-amphetamine self-administration on a delay discounting task in rats. Poster for the College on Problems of Drug Dependence, Reno, NV, June 19-26, 2009.
30. **Gipson**, C.D., Beckmann, J., & Bardo, M.T. Effect of environmental enrichment on escalation of cocaine self-administration in rats. Poster Presentation, European Behavioural Pharmacology Society, Rome, Italy, September 4-7, 2009.
31. **Gipson**, C.D., & Bardo, M.T. The role of dopamine and serotonin receptors in the orbitofrontal cortex on impulsive choice in rats. NIDA Oral Presentation, Training Grant Symposium, University of Kentucky, November 13, 2009.

2010

32. **Gipson**, C.D., Beckmann, J.S. & Bardo, M.T. Environmental Enrichment Protects against Acquisition but not Escalation of Cocaine Self-Administration in Rats. Poster Presentation, Center for Clinical and Translational Science, University of Kentucky, Lexington, KY, March 2010.
33. **Gipson**, C.D., Beckmann, J.S., & Bardo, M.T. Social Facilitation as a Preclinical Model of Drug Abuse. Oral Presentation, Midwestern Psychological Association, Chicago, IL, April 29, 2010.
34. **Gipson**, C.D., El-Maraghi, S., Beckmann, J.S., & Bardo, M.T. Environmental Enrichment Protects against Acquisition but not Escalation of Cocaine Self-Administration in Rats. Poster Presentation, Midwestern Psychological Association, Chicago, IL, April 29, 2010.
35. **Gipson**, C.D., Kelly, T.H., & Bardo, M.T. The reinforcement omission effect as a translational model of negative urgency. Society for the Quantitative Analysis of Behavior, San Antonio, TX, May 2010.
36. **Gipson**, C.D., & Bardo, M.T. An animal model of negative urgency and the effect of reward omission on d-amphetamine self-administration. Oral Presentation, College on the Problems of Drug Dependence, Scottsdale, AZ, June 2010.
37. **Gipson**, C.D., Beckmann, J.S., & Bardo, M.T. Environmental enrichment and escalation of cocaine self-administration in rats. Poster Presentation, American Psychological Association, Division 28, San Diego, CA, August 2010.
38. **Gipson**, C.D., Perry, J.L., Yates, J., Meyer, A.C., Beckmann, J.S., & Bardo, M.T. Role of dopamine and serotonin receptors in medial prefrontal and orbitofrontal cortex on impulsive choice in rats. Poster Presentation, Society for Neuroscience, San Diego, CA.

2011

39. El-Maraghi, S., Beckmann, J.S., **Gipson**, C.D., & Bardo, M.T. Stimulus control of escalated cocaine intake and short access sessions. Poster Presentation, Midwestern Psychological Association, Chicago, IL.
40. **Gipson**, C.D., Shen, H., & Kalivas, P.W. The role of dendritic spine morphology in cue-induced reinstatement of cocaine-seeking behavior in rats. *Frontiers in Neuroscience*, Seabrook Island, SC.
41. **Gipson**, C.D., Marusich, J.A., Alvers, K.A., & Bardo, M.T. Differences in environmental enrichment predict self-administration of a low unit dose of methylphenidate in rats. College on Problems of Drug Dependence, Hollywood, FL.
42. Beckmann, J.S., **Gipson**, C.D., & Bardo, M.T. Stimulus control of cocaine escalation and short access sessions. College on Problems of Drug Dependence, Hollywood, FL.
43. **Gipson**, C.D. (invited talk) A translational model of mood-based drug abuse. American Psychological Association Division 28, Washington, DC.
44. **Gipson**, C.D., Shen, H., & Kalivas, P.W. Opposite changes in spine morphology are produced by cue- and context-induced versus cocaine-induced drug seeking. Society for Neuroscience, Washington, D.C.

2012

45. **Gipson**, C.D., Kupchik, Y., Shen, H., Reissner, K.J., Thomas, C.A., & Kalivas, P.W. Rapid synaptic and morphological changes in nucleus accumbens core during cocaine relapse. *Frontiers in Neuroscience*, Seabrook Island, SC.
46. **Gipson**, C.D., & Kalivas, P.W. (invited talk). Preclinical approaches to preventing cigarette use: Understanding the neurobiology of addiction to discover new pharmacotherapeutic targets. Tobacco Research Interest Group, Medical University of South Carolina, Charleston, S.C.
47. **Gipson**, C.D., & Kalivas, P.W. (talk). Individual differences in cue-induced cocaine relapse are associated with rapid synaptic potentiation. Society for Neuroscience nanosymposium: Vulnerability to Drug Self-Administration and Addiction. New Orleans, L.A.

48. **Gipson**, C.D., Kupchik, Y.M., Reissner, K.J., Smith, A.W., & Kalivas, P.W. (invited poster through SRNT). Alterations in synaptic potentiation and glutamatergic signaling in nicotine abuse. NIDA presymposium, Society for Neuroscience. New Orleans, L.A.
49. **Gipson**, C.D., Kupchik, Y.M., Reissner, K.J., Smith, A.C., & Kalivas, P.W. (invited poster through the 6th Annual Julius Axelrod Symposium). Rapid Synaptic Potentiation in Nicotine Relapse: Role of GluR1 and NMDA2b-Containing Receptors. 6th Annual Julius Axelrod Symposium (NIDA), Society for Neuroscience, New Orleans, L.A.
50. Shen, H., **Gipson**, C.D., & Kalivas, P.W. (poster). Prelimbic prefrontal cortex and ventral tegmental area cooperatively modulate synaptic adaptation in nucleus accumbens during cocaine-reinstated drug seeking. Society for Neuroscience, New Orleans, LA.
51. Roberts-Wolfe, D.J., Kalivas, P.W., & **Gipson**, C.D. (poster) Differential rapid synaptic potentiation in nucleus accumbens core versus shell during cocaine cue-induced relapse and extinction. Neuropalooza, College of Charleston/Medical University of South Carolina, SC.
52. Stankeviciute, N., Kupchik, Y., Reissner, K., Kalivas, P.W., & **Gipson**, C.D. (poster) Rapid synaptic potentiation in nicotine relapse: Role of GluR1 and NR2B-containing NMDA receptors. Neuropalooza, College of Charleston/Medical University of South Carolina, SC.
53. Smith, A.W., **Gipson**, C.D., & Kalivas, P.W. (poster) Gelatinase inhibition prevents cue-induced reinstatement of cocaine seeking and associated morphological changes in dendritic spines. Neuropalooza, College of Charleston/Medical University of South Carolina, SC.
54. Stankeviciute, N., Kalivas, P.W., & **Gipson**, C.D. (poster) Changes in spine morphology produced by context-induced cocaine seeking. MUSC Research Day, Charleston, SC.
55. Smith, A.W., **Gipson**, C.D., & Kalivas, P.W. (poster) Inhibition of matrix metalloproteinases-2 and -9 attenuate cue-induced reinstatement of cocaine seeking and associated morphological plasticity. MUSC Research Day, Charleston, S.C.
56. Roberts-Wolfe, D.J., Kalivas, P.W., & **Gipson**, C.D. (poster) Differential rapid synaptic potentiation in nucleus accumbens core versus shell during cocaine cue-induced relapse and extinction. MUSC Research Day, Charleston, S.C.
57. **Gipson**, C.D., & Kalivas, P.W. (invited poster/travel award). Alterations in synaptic plasticity and glutamatergic signaling in nicotine addiction. American College of Neuropsychopharmacology, Hollywood, FL.

2013

58. **Gipson**, C.D., Shen, H., Kupchik, Y.M., & Kalivas, P.W. (invited oral presentation). Prelimbic cortex and ventral tegmental area modulate nucleus accumbens core synaptic plasticity during cue- and cocaine-reinstated drug seeking. Dopamine (May 2013), Alghero, Sardinia.
59. **Gipson**, C.D., Kupchik, Y., Reissner, K.J., Smith, A.C., & Kalivas, P.W. (oral presentation). Nicotine relapse is associated with rapid synaptic potentiation: Role of GluR1 and NMDA2B-containing receptors. SRNT, Boston MA (March 2013)
60. Kupchik, Y.M., **Gipson**, C.D., Kalivas, P.W. (poster). Rapid synaptic changes occur during cue-induced relapse to cocaine and nicotine. Abstract for the Israeli Society for Biological Psychiatry, Kibuts HaGoshrim, Israel.
61. **Gipson**, C.D. (Chair and oral presenter in a minisymposium). Rapid synaptic potentiation and alterations in glutamatergic signaling: New pharmacotherapeutic targets in reversing nicotine addiction. College on Problems of Drug Dependence, San Diego.
62. **Gipson**, C.D., Kupchik, Y., Reissner, K.J., Stankeviciute, N., Smith, A.C.W., & Kalivas, P.W. (poster). Reinstatement of nicotine seeking is mediated by glutamatergic plasticity. Frontiers in Neuroscience, Charleston, S.C.
63. **Gipson**, C.D., Kalivas, P.W. (poster). Contributions of Glial Glutamate Transport and NMDA Receptors in Nicotine Relapse. American College of Neuropsychopharmacology, Hollywood, FL.

2014

64. **Gipson**, C.D., Stankeviciute, N., McClure, E.A., Gray, K., Froeliger, B., Kalivas, P.W. (oral presentation). Contributions of glial glutamate transport and NMDA receptors in nicotine relapse. College on Problems of Drug Dependence, San Juan, Puerto Rico.
65. **Gipson**, C.D. (invited oral presentation). Contributions of glial glutamate transport and NMDA receptors in nicotine relapse. American Psychological Association Division 28, Young Psychopharmacologist Award presentation, Washington DC
66. **Gipson**, C.D., Spencer, S., Stankeviciute, N., Allen, N., Smith, R.J., & Kalivas, P.W. (poster). Cue induced cocaine seeking involves nucleus accumbens core glutamate overflow mediated by mGluR2/3 and mGluR5. Society for Neuroscience, Washington DC
67. Kupchik, Y., Brown, R., **Gipson**, C.D., Stefanik, M.T., & Kalivas, P.W. (poster). When motivation becomes maladaptive – similarities between drug addiction and obesity. European Neuropsychopharmacology.
68. Heinsbroek, J., Kupchik, Y., Scofield, M.D., Kalivas, P.W., & **Gipson**, C.D. (poster). Rapid transient plasticity in dopamine D1 and D2 receptor expressing medium spiny neurons in the addiction circuitry mediate relapse to cocaine seeking. Society for Neuroscience, Washington DC.

2015

69. **Gipson**, C.D., Kalivas, P.W. (oral presentation and session co-chair). N-Acetylcysteine inhibits nicotine relapse-associated synaptic plasticity in nicotine-withdrawn animals. College on Problems of Drug Dependence, Phoenix, AZ.

2016

70. Powell, G., del Franco, A., Pagni, B., Goenaga, J., Scofield, M.D., **Gipson-Reichardt**, C.D. (poster). Role of accumbens nicotinic acetylcholine receptors in cue-induced nicotine seeking and synaptic plasticity. Barrow Neurological Institute Neuroscience Symposium, Jan 7 2016.
71. **Gipson**, C.D., Powell, G., del Franco, A., Pagni, B., Goenaga, J., Scofield, M.D. (poster). Nicotinic acetylcholine receptors modulate cue-induced nicotine seeking and synaptic plasticity. Society for Research on Nicotine and Tobacco, March 5, 2016.
72. Roberts-Wolfe, D., Shields, C., **Gipson**, C.D., Heinsbroek, J., Bobadilla, A.C., & Kalivas, P.W. (poster). Extinction training is required for transient synaptic potentiation in accumbens core and shell. Society for Neuroscience, November 2016.
73. Powell, G., del Franco, A., Garcia-Keller, C., Spencer, S., Stankeviciute, N., Schwartz, D., **Gipson**, C.D. (poster). N-Acetylcysteine inhibits cue-induced nicotine seeking and relapse-associated synaptic plasticity. Society for Neuroscience, November 2016.
74. Scofield, M.D., Heinsbroek, J.A, Garcia-Keller, C., Smith, A.W., **Gipson**, C.D., & Kalivas, P.W. (poster). Evaluating of the Role of Nucleus Accumbens Nitric Oxide and Somatostatin Release in Cocaine Seeking. Society for Neuroscience, November 2016.

Research Support

RECENT:

K99 DA036569-02 (Gipson, PI)

05/15/2014-07/31/2015

“Contributions of Glial Glutamate Transport and NMDA Receptors in Nicotine Relapse”

CURRENT:

R00 DA036569-03 (Gipson, PI)

01/15/2016-12/31/2018

“Contributions of Glial Glutamate Transport and NMDA Receptors in Nicotine Relapse”

This goal of this 5 year transition to independence grant is to investigate nicotine-induced changes in synaptic strength, with a focus on alterations in the glial glutamate transporter and the GluN2B subunit

of the glutamate NMDA receptor. This grant has the potential to reveal novel neurobiological mechanisms of nicotine addiction, and could contribute to the development of novel therapeutic options aimed at reversing nicotine-induced neurobiological alterations.