

## VITA

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### Education:

- B.A. degree, 1985, Rutgers College, Rutgers, The State University of New Jersey. Major: Psychology; Minor: Biology (Dean's List; Psi Chi)
- M.A. degree, 1987, State University of New York at Binghamton. Major: Neuroscience; Minor: Developmental Psychobiology
- Ph.D. degree, 1989, State University of New York at Binghamton. Major: Neuroscience; Minor: Developmental Psychobiology

### Professional Appointments:

- Postdoctoral Researcher, 1989-1992, Department of Psychobiology, University of California Irvine
- Assistant Research Professor, 1992-1993, Department of Psychobiology, University of California Irvine
- Assistant Professor, 1993-1999, Psychology Department, University of South Florida, Tampa
- Associate Professor, 1999, Pharmacology Department, University of South Florida, College of Medicine, Tampa
- Associate Professor, 1999, Psychology Department, University of South Florida, Tampa  
Joint Appt. 1995-present, Department of Pharmacology and Therapeutics, University of South Florida, College of Medicine, Tampa
- Joint Appt. 1997-present, Neuroscience Program, University of South Florida, College of Medicine, Tampa
- Director, 2003-2005, Cognitive and Neural Sciences, University of South Florida, Tampa
- Associate Dean of Research and Scholarship, 2006-2012, College of Arts & Sciences, University of South Florida, Tampa
- Professor, 2006-present, Psychology Department, University of South Florida, Tampa

### Professional Affiliations:

- Society for Neuroscience
- International Brain Research Organization
- Association for Chemoreception Sciences
- International Society for Developmental Psychobiology
- Research Society on Alcoholism

- Signature Interdisciplinary Program in Neuroscience
- Frontiers in Neuroscience-Associate Editor

AdHoc Grant Reviewer/Federal Advisory Committees:

- NIDAK: The training and career development Review Group
- National Science Foundation
- Tourette's Syndrome Association Permanent Research Fund Grant Proposal
- Women in Neurosciences
- Biobehavioral Regulation Learning and Ethology Review Group
- NIDA Special Emphasis Review Panel
- NIAAA Special Emphasis Review Panel
- BRLE NIH Study Section 2011
- Brain Disorders and Clinical Neuroscience Integrated Review Group (IRG)
- BRLE NIH Study Section June 2014

AdHoc Reviewer:

- Brain Research
- Pharmacology, Biochemistry & Behavior
- Physiology and Behavior
- Developmental Psychobiology
- Neuroscience and Biobehavioral Reviews
- Frontiers in Bioscience
- Journal of Chemical Ecology
- Psychobiology
- Alcoholism: Clinical and Experimental Research
- Developmental Neuroscience
- Behavioral Brain Research
- Developmental Brain Research
- Trends in Chemical Sciences
- International Journal of Neuroscience
- Journal of Neuroscience Research
- Synapse
- European Journal of Pharmacology
- Behavioral Pharmacology
- Neuroscience Letters
- Brain Research Bulletin
- Neurotoxicology and Teratology
- Psychopharmacology
- European Neuropsychopharmacology
- Brain and Behavior Neurotoxicity Research

Intramural Grants

- Research and Creative Scholarship Grant (1993) \$7,500
- Research and Creative Scholarship Grant (1998) \$7,500
- USF College of Medicine Signature Program in Neuroscience (2007) \$8,000
- USF Division of Sponsored Research Grant Writing Course (2007) \$10,000

### Extramural Grants

#### Foundation Grants

Principal Investigator  
 Robert Wood Johnson Foundation Tobacco Etiology Research Network Faculty Scholars  
 Program. (2001-2002)  
 Direct costs: \$22,000.

#### Federal Grants

James B. Shannon NIH Director's Award (1995-1997)  
 \$100,000

Effects of Alcohol on Mesoaccumbal Dopamine Levels (R21)  
 Principal Investigator (2000-2002)  
 National Institute on Alcohol Abuse and Alcoholism/NIH/DHHS  
 To determine the effects of alcohol on reward pathways in adolescent vs. adults.  
 Graduate students were trained.  
 \$199,293

Effects of Cocaine on Developing Nucleus Accumbens (R01)  
 Principal Investigator (2001-2006)  
 National Institute on Drug Abuse/NIH/DHHS  
 To determine the effects of cocaine on reward pathways in adolescent vs.  
 adults.  
 Graduate students were trained.  
 \$1,004,125

Effects of Cocaine on Developing Nucleus Accumbens (R01)  
 Principal Investigator (2007-2008)  
 National Institute on Drug Abuse/NIH/DHHS  
 To determine the effects of cocaine on reward pathways in adolescent vs.  
 adults.  
 Graduate students were trained.  
 \$45,000

Effects of chronic ethanol exposure in male and female adolescents on behavior and  
 dopamine (R21)  
 Principal Investigator (2009-2011)  
 National Institutes of Health/NIAAA  
 To examine the effects of repeated ethanol exposure during adolescence

on brain and behavior in adults.  
Graduate students were trained.  
\$358,194

Project: Elucidating the role of accumbal dopamine and glutamate in an adolescent model of polysubstance abuse (PA-13-339: Mechanisms of Alcohol and Stimulant Co-Addiction (R01). To be submitted February 5, 2015.

\$2.0 M graduate students will be trained

Service:                      University                      and                      Departmental                      Committees

- Student Grievance (1993-1994)
- Institute on Animal Care and Use Committee (IACUC) (1994-2006)
- Human Subjects (1997-1998)
- United Way (1996, 1997)
- Neuroscience Seminar Committee (1997-present)
- Graduate Program Committee (1998-2006)
- University Honors Committee (1999-present)
- Faculty Lecture Program (2001-present)
- University Machine Shop (1994-1995)
- Affirmative Action (1995-2000)
- CNS Area Faculty Search (1996-1997)
- Graduate Core (1998-1999)
- Space (1997-2006)
- Neuropsychopharmacology (1997-present)
- Stephanie Gilbert Award (1998-2006)
- University Scientific Misconduct Committee(1999-present)
- University Grievance Committee (2002-2006)
- Signature Interdisciplinary Program in Neuroscience (2006-present)
- Associate Deans of Research (2006-2012)
- Arts and Sciences (A&S) Senior Staff (2006-2012)
- USF Budget Advisory Task Force (2007-present)
- CAS Advisory Council (2006-present)
- IISC Steering Committee (2007-present)
- Initial Inquiry of Research Misconduct (2007-present)
- Judge Undergraduate Research Symposium (2008-present)
- A&S Chairs Steering Committee (2006-present)
- Academic Affairs Planning Group (2007-2012)
- AIST Steering Committee (2007-present)
- Psychology Tenure and Promotion Committee (2007-2010)
- Director of Division of Research and Innovation Search Committee (2008)
- Integrated Interdisciplinary Inquiry Task Force (2008)
- Chair- Integrated Interdisciplinary Inquiry Subcommittee for Research and Scholarship (2008)
- Associate Dean for Research-College of Behavioral and Community Sciences

Search Committee-(2008)

- Associate Vice President for Research and Innovation Search Committee (2008)
- Office of Research and Innovation-Innovation Award Selection Committee (2008)
- Behavioral and Community Sciences Associate Dean for Research Search Committee (2008)
- Research Proposal Development Task Force (2009-2012)
- Neuroscience Collaborative Grant Team (2009-present)
- Global Academic Partners Project Review Committee (2009-2012)
- P30 Hire Committee (2009-2012)
- Postdoctoral Scholar Advisory Group (2009-2012)
- Undergraduate Research Discovery Class (2009-present)
- Oil Spill Conference Planning Committee (2010)
- Center for Drug Discovery and Innovation Advisory Council (2011)

#### Public service

- Association of Women in Science
- International Brain Research Organization
- Association for Chemoreception Sciences
- International Society for Developmental Psychobiology
- Research Society on Alcoholism
- Council on Undergraduate Research
- “Effect of drugs of abuse on Neurotransmitters” Jensen Learning Corporation, 2005-2007
- Biobehavioral Regulation Learning and Ethology Study Section
- “Effects of Drugs on the Brain-Dunedin Middle School (2008, 2009)

#### Courses taught (UG=undergraduate level; G=graduate level)

- Physiological Psychology (UG/G)
- Drugs and Behavior (UG)
- Basic Neurochemistry (G)
- Topics in Neuroscience Seminar (G/UG)

#### Student Trainees/Committees:

##### PhD students (graduated):

- Rex Montgomery Philpot, Ph.D. Postdoctoral Fellow, USF College of Medicine
- Alba Rodriguez, Ph.D. Research Associate, Henry Ford Hospital
- Mary Newman, Ph.D. Postdoctoral Fellow, Pharmacology, Rush University Medical Center
- Kirstie Stansfield, Ph.D. Postdoctoral Fellow, Johns Hopkins University
- Kim Bjudstad, Ph.D. Associate Professor, University of Colorado
- Kim Badanich, Ph.D., Assistant Professor, USF Sarasota-Manatee
- Briony Catlow, Ph.D., Postdoctoral Fellow, National Institutes of Health
- Antoinette Maldonado-Devincci -Ph.D., Postdoctoral Fellow, University of North Carolina, Chapel Hill

MA students (graduated):

- Tyra Dark, M.A. Postdoctoral Fellow, USF College of Public Health
- Leila Amiri, M.A Director of Advising, USF College of Arts and Sciences
- Emily Guion, M.A. Biology Professor

Dissertations: \* denotes completion \*\* denotes my students: completed, (\*\*) in progress

Susan Tenzer *	Gayle Freedman*	Alba Rodriguez *
Marty Factor*	Tammy Nygren*	Blane Crandall (Biology)*
Kim Bjugstad*	Mike Brazas	Brent Kolitz*
Tim Carey*	Felicia Sheffield*	Denny Kramer*
Laura Lilliquist *	Kevin Stein *	Jill Catarin *
Amie Haas *	Michael Puls*	Doug Stimac*
Rex Philpot *	Adam Campbell*	Vani Nath*
Mark Steinberg*	Scott Husband*	Chris Leonardo **
Leilani Goodmon*	Mary Newman**	Ashlee Carter *
Jennifer Irvin **	Kirstie Stansfield **	Kim Badanich *
Briony Catlow**	Nicole Bekman *	Adriana Novoa *
Antoniette Maldonado- Devinicci **		

Masters: \* denotes completion, \*\* denotes my student: completed, (\*\*)in progress

Tim Carey *	Alexia Bowers*	Lorie Dryden -Biology
Tamra Williams*	Denny Kramer *	Pat Draves*
Rex Philpot **	Leila Amiri **	Tyra Dark **
Emily Guion **	Kim Badanich **	Kirstie Stansfield **
Briony Catlow **	Leilani Kellog**	Antoniette Maldonado**
Joshua Halonen**	Ashlee Carter**	Robin Tan(**)
Laura Bullard (**)		

Undergraduate Honors: \* denotes completion, \*\* denotes my student completed

Jill Cameron **	Karl Hoffman *	Ben Hagendorf **
Justin Argentero **	Mary Newman*	Megan Dailey *
Patrick D Combs *	Darien Peckham**	Brian Cornwall*
Susan McQuown**	Kim Canals*	Nancy Raphael**
Kris Adler **	Ashley Sponaugle**	Andres Medina**
Glen Cognac**	Kent Alipour **	Lauren Finkbeiner **
Courtney Chapman	Sameera Eligeti	Alyssa MacAlister
Katherine Robbins	Brian Cornwall**	Katherine Levie**
Nikhil Patel**		

\* Denotes students who have completed undergraduate requirements

\*\* Denotes students who have satisfied requirements for honors distinction

- Sarah Burgan, Biomedical sciences, University of South Florida (2010 – 2013)\*\*
- Allison Mercer, Biomedical sciences, University of South Florida (2010 – 2013)
- Oke Ikpekpe-Magege, Biomedical sciences, University of South Florida (2011 – 2013)\*
- Matthew Musto, Premedical sciences, University of South Florida (2012)
- Kelsey Andersson, Cellular biology, University of South Florida (2012 – 2013)
- Gabrielle Tufano, Biomedical Sciences, University of South Florida (2013)
- Matthew Musto B.S., Premedical sciences, University of South Florida (2012)\*\*

### Invited Lectures

- Addictions Research Centre, Toronto Canada June 2000
- Molecular Pharmacology and Physiology Lecture March 2004
- Brain Repair July 2004
- “Drugs of Abuse” Gordon, H.S. January 2005
- “Drugs of Abuse” Wharton, H.S. 2005
- Stress, Drugs, Memory February 2005
- Neurology Group Undergrads November 2005
- Addicted to the Brain: Effects of Drugs on the Brain, Seminole High School October 2006
- “Drugs of Abuse” Blake, High School 2006
- Drugs and Behavior (UG) Behavioral Pharmacology (G) Neurochemistry Methods (G)
- Effect of Drugs of Abuse on Neurotransmitters, Jensen Learning Corporation (7585 educators) February 2007
- Invited lecture at Utrecht University, Netherlands June 2007
- Strengthening Oral and Poster Presentations, Graduate Student Workshop, USF 2010
- “Effects of Drugs on the Brain-Dunedin Middle School (2011)
- USF Honors College-Undergraduate Research Discovery Class ( 2010, 2011, 2012, 2013)

### Invited Symposia

- NIAAA sponsored symposium: Research Society on Alcoholism, San Francisco California , July, 2002
- New York Academy of Sciences, New York, November 2003
- Twenty-eighth annual Research Society on Alcoholism Meeting, Santa Barbara, California, 2005
- Society for Neuroscience Conference, Atlanta, GA, October 2006
- Samuel B. Guze symposium on Alcoholism, St. Louis, Missouri, February, 2007.
- Dopamine 50 years Symposium in Goteborg, Sweden June 2007
- Motivational Neuronal Network Conference 2007 in Porquerolles, France May 2007
- Research Society on Alcoholism, Washington, DC June 2008

- International Society on Biomedical Research on Alcoholism, Washington, DC, June 2008
- Society for Neuroscience, Washington, D.C., November 2008
- Clinical Ligand Assay Society, International Meeting, Coral Springs, FL 2008
- Behavior, Biology and Chemistry: Translational Research in Addiction, San Antonio, Texas, March, 2009.
- Research Society for Alcoholism, San Diego, CA June 2009
- Society for Neuroscience Meeting, Chicago, IL October, 2009
- Society for Neuroscience, San Antonio, TX, June 2010
- Research Society for Alcoholism, San Diego, CA, November 2010
- USF Honors College-Discovery Class (2011, 2012, 2013)

### Honors

- USF Presidential Excellence in Research Achievement Award 2004
- Behavioral response to novelty foreshadows neurological response to cocaine (K.H. Stansfield & C.L. Kirstein; 2007) NIDA Notes, 21 (2), 1.

### Publications:

- Kirstein, C.L. & Spear, L.P. (1988) 5HT<sub>1A</sub>, 5HT<sub>1B</sub> and 5HT<sub>2</sub> receptor agonists induce differential behavioral responses in neonatal rat pups. European Journal of Pharmacology, 150, 339-345.
- Spear, L.P., Frambes, N.A., Kirstein, C.L., Bell, J., Rogers, L, Yoottanasumpun, V. & Spear, N.E. (1988) Neurobehavioral teratogenic effects of prenatal exposure to cocaine. Teratology, 37: (5), 517-518.
- Spear, L.P., Kirstein, C.L. & Frambes, N.A. (1989) Cocaine effects on the developing CNS: Behavioral, psychopharmacological and neurochemical studies. Annals of the New York Academy of Sciences, 562, 290-307.
- Spear, L.P., Kirstein, C.L., Frambes, N.A. & Moody, C.A. (1989) Neurobehavioral teratogenicity of gestational cocaine exposure. NIDA Research Monographs, 95, 232-238.
- Spear, L.P., Kirstein, C.L., Bell, J., Yoottanasumpun, V., Greenbaum, R., O'Shea, J., Hoffmann, H. & Spear, N.E. (1989) Effects of prenatal cocaine exposure on behavior during the early postnatal period. Neurotoxicology and Teratology, 11 (1), 57-63.
- Spear, L.P., Specht, S.M., Kirstein, C.L. & Kuhn, C.M. (1989) Anterior and posterior, but not cheek, intraoral cannulation procedures elevate serum corticosterone levels in neonatal rat pups. Developmental Psychobiology, 22(4), 401-411.
- Spear, L.P., Frambes, N.A. & Kirstein, C.L. (1989) Fetal and maternal brain and plasma levels of cocaine and benzoylecgonine following chronic subcutaneous administration of cocaine



- during gestation in rats. Psychopharmacology, 97 (4), 427-431.
- Spear, L.P., Kirstein, C.L., Frambes, N.A. & Moody, C.M. (1989) Neurobehavioral teratogenicity of gestational cocaine exposure. NIDA Res. Monographs.
- Kirstein, C.L., Schrama, L., Glaser, T., Traber, J., Gispen, W.H. & Spear, L.P. (1989) Effects of 5HT<sub>1A</sub>, 5HT<sub>1B</sub> and 5HT<sub>2</sub> agonists on inositol phosphate and cyclicAMP production during ontogeny. Annals of the New York Academy of Sciences.
- Kirstein, C.L., Traber, J., Gispen, W.H. & Spear, L.P. (1990) ACTH induced behaviors and their modulation by serotonergic agonists differ in neonatal and weanling rat pups. Psychopharmacology, 100 (2), 151-158.
- Frambes, N.A., Kirstein, C.L., Moody, C.A. & Spear, L.P. (1990) 5HT<sub>1A</sub>, 5HT<sub>1B</sub> and 5HT<sub>2</sub> receptor agonists induce differential behavioral responses in preweanling rat pups. European Journal of Pharmacology, 182 (1), 917.
- Clow, D.W., Hammer, R.P., Kirstein, C.L. & Spear, L.P. (1991) Gestational cocaine exposure increases opiate receptor binding in weanling offspring. Developmental Brain Research, 59 (2), 179-185.
- Kirstein, C.L., Coopersmith, R., Bridges, R.J. & Leon, M. (1991) Glutathione levels in olfactory and nonolfactory neural structures of rats. Brain Research, 543 (2), 341-346.
- Coopersmith, R., Weihmuller, F.B., Kirstein, C.L., Marshall, J.F. & Leon, M. (1991) Extracellular dopamine increases in the neonatal olfactory bulb during odor preference training. Brain Research, 564, 149-153.
- Kirstein, C. L. (1994) Genetics and substance abuse. Contemporary Psychology, 39 (10), 982.
- Kirstein, C.L., Philpot, R.M. & Dark, T. (1997) Fetal Alcohol Syndrome: Early Olfactory Learning as a Model System to study Neurobehavioral Deficits. International Journal of Neuroscience, 89, 119-132.
- Philpot, R.M. & Kirstein, C.L. (1998) The effects of repeated alcohol exposure on the neurochemistry of the periadolescent nucleus accumbens septi. NeuroReport, 9 (7), 1359--1363.
- Amiri, L., Dark, T., Noce, K.N., & Kirstein, C. L. (1998) Odor preferences in neonatal and weanling rats. Developmental Psychobiology, 33, 157-162.
- Philpot, R.M. & Kirstein, C.L. (1999) Repeated cocaine exposure: Effects on catecholamines in the nucleus accumbens septi of periadolescent animals. Pharmacology, Biochemistry and Behavior, 62(3), 465-472.

- Donovan, D.M., Miner, L.L., Perry, M., Revay, R., Sharpe, L.G., Prezedborski, S., Philpot, R.M., Kirstein, C.L., Isenwasser, S., Rothman, R.R., Schindler, C., & Uhl, G.R. (1999) Cocaine reward and MPTP Toxicity: Alteration by regional variant dopamine transporter overexpression. Molecular Brain Research, 73 (12), 37-49.
- Bjudstad, K. B., Flitter, W. D., Garland, W. A., Philpot, R. M., Kirstein, C. L. & Arendash, G. W. (2000) CPI1189 prevents apoptosis and reduces glial fibrillary acidic protein immunostaining in a TNF $\alpha$  infusion model for AIDS dementia complex. Journal of NeuroVirology, 6, 478-491.
- Guion, E.D. & Kirstein, C.L. (2001) The effects of water odor preference conditioning in the preadolescent nucleus accumbens septi. Developmental Psychobiology, 38, 46-55.
- Philpot, R.M., McQuown, S.C. & Kirstein, C.L. (2001) The developing nucleus accumbens: Methodological and theoretical discussion. Developmental Brain Research, 130, 149-153.
- Philpot, R.M. & Kirstein, C.L. (2001) The role of the nucleus accumbens septi in the establishment of addiction: An attentional perspective. FASEB Journal, 15 (4), A67A67, Part 1.
- Philpot, R.M., Badanich, K.A. & Kirstein, C.L. (2003) Place Conditioning: Agerelated changes in the rewarding and aversive effects of alcohol. Alcoholism: Clinical and Experimental Research, 27(4), 593-599.
- Philpot, R.M. & Kirstein, C.L. (2004) Developmental differences in the accumbal dopaminergic response to repeated ethanol exposure. Annals of the New York Academy of Sciences, 1021, 422-426.
- Stansfield, K.H., Philpot, R.M. & Kirstein, C.L. (2004) An animal model of sensation seeking: The adolescent rat. Annals of the New York Academy of Sciences, 1021, 453-458.
- Vila, J.L., Philpot, R.M. & Kirstein, C.L. (2004) Grid crossings: Inability to predict activity levels between adolescent and adult rats. Annals of the New York Academy of Sciences, 1021, 418-421.
- Badanich, K.A. & Kirstein, C.L. (2004) Nicotine administration significantly alters accumbal dopamine in the adult but not the adolescent rat. Annals of the New York Academy of Sciences, 1021, 410-417.
- Torrella, T.A., Badanich, K.A., Philpot, R.M., Kirstein, C.L. & Wecker, L. (2004) Developmental differences in nicotine place conditioning. Annals of the New York Academy of Sciences, 1021, 399-403.
- Kirstein, C.L., White, A. & Frantz, K. (2004) Introduction to short papers. Annals of the New York Academy of Sciences, 1021, 323.

- Maldonado, A.M. & Kirstein, C.L. (2005). Handling alters cocaine induced activity in adolescent but not adult male rats. Physiology and Behavior, 84(2), 321-326.
- Catlow, B.J. & Kirstein, C.L. (2005) Heightened cocaine induced locomotor activity in adolescent compared to adult female rats. Journal of Psychopharmacology, 19 (5), 443-447.
- Stansfield, K.H. & Kirstein, C.L. (2005) Neurochemical effects of cocaine in adolescence compared to adulthood. Developmental Brain Research, 159, 119-125.
- Maldonado, A.M. & Kirstein, C.L. (2005) Cocaine induced locomotor activity is increased by prior handling in adolescent but not adult female rats. Physiology & Behavior, 86, 568-572.
- Stansfield, K.H. & Kirstein, C.L. (2006) The effects of novelty on behavior in adolescent versus adult rats. Developmental Psychobiology, 48(1), 10-15.
- Badanich, K.A., Adler, K.J., & Kirstein, C.L. (2006). Adolescents differ from adults in cocaine conditioned place preference and cocaine induced dopamine in the nucleus accumbens septi. Eur. J. Pharmacology, 550, 95-106.
- Catlow, B.J. & Kirstein, C.L. (2007) Cocaine during adolescence enhances dopamine in response to a natural reinforcer. Neurotoxicology and Teratology, 29, 57-65.
- Badanich, K.A., Maldonado, A.M., & Kirstein, C.L. (2007) Chronic ethanol exposure during adolescence increases dopamine in the nucleus accumbens septi during adulthood. Alcoholism: Clinical and Experimental Research, 31(5), 895-900.
- Stansfield, K.H. & Kirstein, C.L. (2007) Chronic cocaine or ethanol exposure during adolescence alters novelty related behaviors in adulthood. Pharmacology, Biochemistry and Behavior, 86, 637-642.
- Badanich, K.A., Maldonado, A.M. & Kirstein, C.L. (2008) Early adolescents show enhanced acute cocaine induced locomotor activity in comparison to late adolescent and adult rats. Developmental Psychobiology, 50, 127-133.
- Maldonado, A.M., Finkbeiner, L.M., Alipour, K.A. & Kirstein, C.L. (2008) Voluntary ethanol consumption differs in adolescent and adult male rats using a modified sucrose fading paradigm. Alcoholism: Clinical and Experimental Research 32 (9), 1574-1582.
- Maldonado, A.M., Finkbeiner, L.M., & Kirstein, C.L. (2008) Social interaction differentially alters voluntary alcohol intake in adolescent male rats. Alcohol 42 (8), 641-648.
- Sponaugle, A.E., Badanich, K.A. & Kirstein, C.L. (2008) Localization of stereotaxic coordinates for the ventral tegmental area in early adolescent, midadolescent and adult rats. Brain Research, 1218, p 215-223.

- Philpot, R. M., Kirstein, C.L. & Wecker, L. (2009) Repeated ethanol exposure during adolescence alters the developmental trajectory of dopaminergic output from the nucleus accumbens septi International Journal of Developmental Neuroscience 27, p 805-815.
- Catlow, B.J., Badanich, K.A., Sponaugle, A.E., Rowe, A.R., Song, S., Rafalovich, I., Sava, V., Kirstein, C.L., & Sanchez-Ramos, J. (2010) Effects of MDMA (“ecstasy”) during adolescence on place conditioning and hippocampal neurogenesis. European Journal of Pharmacology 628, p. 96-103.
- Maldonado-Devincci, A.M., Badanich, K.A. & Kirstein, C. L. (2010) Alcohol during adolescence alters immediate and long-term behavior and neurochemistry. Alcohol 44, p.57-66.
- Maldonado-Devincci, A. M., Alipour, K. K., Michael, L. A., & Kirstein, C. L. (2010) Repeated Binge Ethanol Administration During Adolescence Enhances Voluntary Sweetened Ethanol Intake in Young Adulthood in Male and Female Rats. Pharmacology, Biochemistry and Behavior, 90, p. 476-487.
- Badanich, K. A. & Kirstein, C. L. (2012) Cocaine-induced Reinstatement of a Conditioned Place Preference in Developing Rats: Involvement of the D2 Receptor. Brain Sci. 2012, 2(4), 573-588.
- Maldonado-Devincci, A.M., Badanich, K.A., and Kirstein, C.L. 2010. Alcohol during adolescence selectively alters immediate and long-term behavior and neurochemistry. Alcohol, 44(1), 57-66. PMC4199380
- Maldonado-Devincci, A.M., Alipour, K.K., Michael, L.A., and Kirstein, C.L. 2010. Repeated binge ethanol exposure during adolescence enhances voluntary ethanol intake in adulthood in male and female rats. Pharmacology, Biochemistry and Behavior, 96(4), 476-487. PMC4197847
- Maldonado-Devincci, A.M., Stevens Jr., S.M., and Kirstein, C.L. 2012. Investigation of age-specific behavioral and proteomic changes in an animal model of chronic ethanol exposure. In Kobeissy, F.H.(Ed.), Psychiatric Disorders: Methods and Protocols. Methods in Molecular Biology vol 829 (pp. 471-485). Totowa, NJ: Humana Press Inc. NIHMSID634288
- Badanich, K.A., \*Fakih, M.E., \*Gurina, T.S., \*Roy, E.K., \*Hoffman, J.L., \*Uruena-Agnes, A.R., Kirstein, CL. (2016) Reversal learning and experimenter-administered chronic intermittent ethanol exposure in male rats. Psychopharmacology, 233(19), 3615-3626. doi:10.1007/s00213-016-4395-6

#### Book Chapters:

- Stansfield K.H., Kirstein, C.L. (2007) The Potential Role of Dopaminergic Neuromodulation in Adolescence. In E. B. Darlon (Ed.), Adolescent Behavior Research Frontiers. (pp. 1-25). NY: Nova Biomedical Books.

Stansfield, K.H. & Kirstein, C.L. (2009) Enduring changes in reward mechanisms after developmental exposure to cocaine: the role of the D2 receptor. In B.C.Glenyn & R.P.Zini (Eds.). *New Directions in Developmental Psychobiology*. (pp. 41-56). NY: Nova Biomedical Books.

Maldonado-Devincci, A.M., Stevens Jr., S., & Kirstein, C.L. (2011) Psychiatric Disorders: Methods and Protocols- Investigation of age-specific behavioral and proteomic changes in an animal model of chronic ethanol exposure. In J. M. Walker (series Ed.). *Methods in Molecular Biology*. NJ: Humana Press.

Maldonado-Devincci, A.M., Amante, R.A., Raudales Jr, R., Michael, L.A., and Kirstein, C.L. (under review) Developmental differences in novelty phenotype and long-term changes after cocaine exposure during adolescence and adulthood. under review *J Psychopharmacol*

### Book Review

Kirstein, C.L. (1994) Behavioral and biochemical issues in substance abuse. *Contemporary Psychology*, 39(10); 982.

### Publications (submitted):

Maldonado, A.M., Finkbeiner, L.M., McFee, K.M. & Kirstein, C.L. (submitted) Adolescent male, but not female, rats show greater reward of social interaction with an alcohol intoxicated peer. *Developmental Psychobiology*.

Kirstein, C.L. (submitted) The effects of sucrose paired odor conditioning on the preadolescent nucleus accumbens septi. *Developmental Brain Research*.

Catlow, B., & Kirstein, C.L. (submitted) Effects of adolescent cocaine exposure on behavioral sensitization in adulthood. *Psychopharmacology*.

Badanich, K., & Kirstein, C.L. (submitted) Amphetamine induced place conditioning and nucleus accumbens dopamine in adolescent and adult rats. *Behavioral Brain Research*.

Stansfield, K. H. & Kirstein, C. L. (submitted) Does Novelty Preference Behavior Correlate with the Rewarding Efficacy of Cocaine in Adolescent and Adult Rats? *Developmental Psychobiology*.

Maldonado, A.M., Finkbeiner, L.M., McFee K.M. & Kirstein, C.L. (revise and resubmit) Adolescent male, but not female, rats show greater reward of social interaction with an alcohol intoxicated peer. *Developmental Psychobiology*.

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- Uruena, A. R. and Kirstein, C. L. Ethanol attenuation of cocaine place preference in adult but not adolescent rats: the role of NMDA receptor antagonist MK-801. *Journal of Alcoholism* (submitted on January, 2014).

#### Publications:

- Uruena, A. R. and Kirstein, C. L. Ethanol attenuation of cocaine place preference in adult but not adolescent rats: the role of NMDA receptor antagonist MK-801 (in prep).
- Uruena, A. R. and Kirstein, C. L. Modeling polysubstance abuse in adolescence: the role of dopamine and glutamate interactions in alcohol/cocaine reward (in prep).
- Badanich KA, Fakh ME, Gurina TS, Roy EA, Hoffman JL, Uruena-Agnes AR, Mulholland, PJ, Kirstein CL. (in prep). Impairments in odor discrimination and reversal learning following chronic intermittent ethanol exposure in rats are dependent on route of administration. *Psychopharmacology*. (in prep).

### Conferences:

- Uruena, A. R. and Kirstein, C. L. Ethanol-induced attenuation of cocaine conditioned place preference in adult but not adolescent rats. Poster. Graduate Student Research Symposium 2013, Tampa, FL, March 2013.
- Uruena, A. R. and Kirstein, C. L. Ethanol attenuates cocaine place preferences in adult but not adolescent male rats. Poster. Society for Neuroscience 2013, San Diego, CA, 2013
- Uruena, A. R., Seetharman, S., Badanich, K. A., Musto, C. L., Kirstein, C. L. The interaction between environmental enrichment and chronic binge ethanol on novelty seeking in adolescent and adult rats. Poster. 36<sup>th</sup> Annual Research Society on Alcoholism, Orlando, FL., June 2013.
- Hoffman, J.** Philpot, R., & Kirstein, C. (June 2014). Corticosterone response to the route of ethanol administration in adolescent and adult animals. Poster *to be* presented at Society for Neuroscience National Conference, Washington D.C.
- Hoffman, J.** Philpot, R., & Kirstein, C. (June 2014). Comparison of stress response to oral gavage and intraperitoneal injection. Poster presented at Research Society on Alcoholism National Conference, Bellevue, WA.
- Uruena, A. R. and Kirstein, C. L. Ethanol attenuation of cocaine place preference in adult but not adolescent rats: the role of NMDA receptor antagonist MK-801. Poster to be presented at the 37<sup>th</sup> Annual Research Society on Alcoholism, Seattle, June 2014.

### Undergraduate Research Assistant Trainees (current):

- \* Denotes student undergoing honors thesis
- Shabaaz Sandhu, Biomedical sciences, University of South Florida (2011 – present)\*
  - Saiteja Mallipeddi, Biomedical sciences, University of South Florida (2011 – present)\*
  - Kathryn Shelby Wells, Biomedical Sciences, University of South Florida (2013-present)

### Papers presented

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