

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 2016

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

Editor

- MDPI, Brain Sciences

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

Grants to be submitted

To be submitted

Function of Serum amyloid P component in the pathogenesis of amyloid diseases (NIH)

Brain oxidation in the pathogenesis of Alzheimer's disease (NIH)

Role of Fibulin-1 in the processing of amyloid precursor protein (APP) in Alzheimer's disease (NIH)

Statistical combination of cerebrovascular data for classification of dementia with mixed pathology (NIH)

Botanical Medicine Research and Education Consortium (Federal and State funding)

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)
- School of Natural Sciences and Mathematics tenure and promotion committee (2020-present)
- College of Arts and Sciences-Academic integrity and grievance committee (2020-present)
- Psychology Department Mid-tenure committee review committee (2020-present)

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. Assistant Professor, 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. , Senior Scientist at InVitro Cell Research
- Kim Bjudstad, Ph.D. Associate Professor, University of Colorado
- Kim Badanich, Ph.D., Instructor level 3, USF Sarasota-Manatee
- Briony Catlow, Ph.D., Associate Director, Knoebel Institute for Healthy Aging
- Antoinette Maldonado-Devincci -Assistant Professor, North Carolina A&T State University
- Jessica Hoffman-Postdoctoral Fellow, University of North Carolina at 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

Susan Tenzer *	Gayle Freedman*	Alba Rodriguez *
Marty Factor*	Tammy Nygren*	Blane Crandall (Biology)*
Kim Bjugstad*	Mike Brazas	Brent Koltz*
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 Goodman*	Mary Newman**	Ashlee Carter *
Jennifer Irvin **	Kirstie Stansfield **	Kim Badanich *
Briony Catlow**	Nicole Bekman *	Adriana Novoa *
Antoinette Maldonado-Devincci **		

Masters: * denotes completion, ** denotes my student: completed

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 **
Joshua Halonen**
Laura Bullard **

Leilani Kellog**
Ashlee Carter**

Antoniette Maldonado**
Jessica Hoffman**

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

Jill Cameron **
Justin Argentero **
Patrick D Combs *
Susan McQuown**
Kris Adler **
Glen Cognac**
Courtney Chapman
Katherine Robbins
Nikhil Patel**

Karl Hoffman *
Mary Newman*
Darien Peckham**
Kim Canals*
Ashley Sponaugle**
Kent Alipour **
Sameera Eligeti
Brian Cornwall**
Lauren Kvedris*(2020)

Ben Hagendorf **
Megan Dailey *
Brian Cornwall*
Nancy Raphael**
Andres Medina**
Lauren Finkbeiner **
Alyssa MacAlister
Katherine Levie**

* 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 Ikpeke-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_{1A}, 5HT_{1B} and 5HT₂ 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_{1A}, 5HT_{1B} and 5HT₂ 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_{1A}, 5HT_{1B} and 5HT₂ 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) CPII189 prevents apoptosis and reduces glial fibrillary acidic protein immunostaining in a TNF α 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., Wecker, L., & Kirstein, C.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., 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
- 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., 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
- Catlow, B.J., Song, S., Paredes, D.A., Kirstein, C.L. and Sanchez-Ramos, J. (2013) Effects of psilocybin on hippocampal neurogenesis and extinction of trace fear conditioning. Experimental brain research, 229 (4), 481-491.
- Catlow, B.J., Badanich, K.A., Sponaugle, A.E., Rowe, A.R., Song, S., Rafalovich, I., Sava, V., Kirstein, C.L. and Sanchez-Ramos, J. (2010) Effects of MDMA (‘ecstasy’) during adolescence on place conditioning and hippocampal neurogenesis. European Journal of Pharmacology, 628 (1-2), 96-103.
- Badanich, K.A. & Kirstein, CL. (2012) Cocaine-induced reinstatement of a conditioned place preference in developing rats: involvement of the d2 receptor. Brain Sciences, 2(4), 573-588.
- Maldonado-Devincci, A.M., Stevens, S. & Kirstein, CL. (2012) Investigation of age-specific behavioral and proteomic changes in an animal model of chronic ethanol exposure. Psychiatric

Disorders, 471-485.

- Badanich, K.A., Fakih, M.E., Gurina, T.S., Roy, E.K., Hoffman, J.L., Uruena-Agnes, A.R., Kirstein, C.L. (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.
- Hoffman, J.L., Hess, A.B., Sannardo, A.N., Layman, A.N., Badanich, K.A., Kirstein, C.L. & Kindy, M.S. (2019). Voluntary Alcohol Consumption in Mice Following Mild Repetitive Traumatic Brain Injury and the Combined Impact on Cognitive Function. Alcoholism: Clinical and Experimental Research 42, 32.
- Gamble, D.N., Josefson, C., Hennessey, M., Davis, A.M, Waters, R.C, Jones, B.N., Belton, D.M, Hall, N.I., Costen, T.J., Kirstein, C.L. & Maldonado-Devincci, A.M. (2016) Social Interaction With an Alcohol-Intoxicated or Cocaine-Injected Peer Selectively Alters Social Behaviors and Drinking in Adolescent Male and Female Rats. Alcoholism: Clinical and Experimental Research, 43(12), 2525-2535.
- Yu, J., Hong, Z., Taheri, S., Mondy, W., Kirstein, C.L. Swindell, D. & Kindy, M.S. (2019). GM6 Attenuates Alzheimer's Disease Pathology in APP Mice. Molecular Biology, 56(9), 6386-6396.
- Kindy, M.S., Yu, J., Hong, Z., Taheri, S., Mondy, W., Kirstein, C.L. & Ko, D. (2019). GM604 Attenuates Alzheimer's Disease Pathology in APP Mice. Neurotherapeutics, 16(3), 917.
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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*.

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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).

Yu J, Zhu H, Taheri S, Mondy W, Perry S, Kirstein CL, Kindy MS. Plant-based nutritional supplementation prevents excessive immune system activation. *International J Molecular Sciences*. 2021;22:573.

Yu J, Zhu H, Taheri S, Kirstein CL, Kindy MS. Serum amyloid A-dependent inflammasome activation and acute injury in experimental stroke. Accepted to *Communications Biology* (Nature Research), 2021.

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Yu J, Zhu H, Taheri S, Kirstein CL, Kindy MS. Therapeutic approaches to treat Alzheimer's disease (AD) by reduction in serum amyloid P component (SAP). in preparation (*J Alz Dis*).

Yu J, Zhu H, Taheri S, Kirstein CL, Kindy MS. Serum amyloid P component (SAP) in the pathogenesis of neurodegenerative disorders. in preparation (*ACS Chemical Neurosci*)

Yu J, Zhu H, Taheri S, Kirstein CL, Kindy MS. Serum amyloid A (SAA) in the pathogenesis of systemic amyloidosis. in preparation (*Amyloid*)

Yu J, Zhu H, Taheri S, Kirstein CL, Kindy MS. Semiallogeneic vaccines in the treatment of Alzheimer's disease (AD). in preparation (*J Neurosci*)

Yu J, Zhu H, Taheri S, Kirstein CL, Kindy MS. Serum amyloid P component (SAP) in the pathogenesis of neurodegenerative disorders. in preparation (*ACS Chemical Neurosci*)

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. 36th 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.

Urueña, 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.

Undergraduate Research Assistant Trainees

Denotes student undergoing honors thesis

- Shabaaz Sandhu, Biomedical sciences, University of South Florida (2011 – 2014)
- Saiteja Mallipeddi, Biomedical sciences, University of South Florida (2011 –2014)
- Kathryn Shelby Wells, Biomedical Sciences, University of South Florida (2013-2015)
- Bethany Jones, Biomedical sciences, University of South Florida (2019 – current)*

Papers presented

Kirstein, C.L., Spear, N.E., Riley, E.P. & Spear, L.P. Effects of prenatal ethanol exposure on forebrain and hindbrain dopamine, serotonin and 5hydroxyindoleacetic acid levels in 21 day old rat pups. International Society for Developmental Psychobiology. Annapolis, MD, 1986.

Spear, L.P., Kirstein, C.L., Bell, J., Greenbaum, R., O'Shea, J., Yoottanasumpun, V., Hoffmann, H. & Spear, N.E. Effects of prenatal cocaine on behavior during the early postnatal period in rats. Behavioral Teratology Society, Palm Springs CA, 1987.

Kirstein, C.L. & Spear, L.P. Pharmacological manipulations of 5HT_{1A}, 5HT_{1B} and 5HT₂ receptors differentially affect mouthing as well as other behaviors in neonatal rat pups. International Society for Developmental Psychobiology, New Orleans, LA, 1987.

Spear, L.P., Bell, J., O'Shea, J., Yoottanasumpun, V., Hoffmann, H., Spear, N.E. & Kirstein, C.L. Effects of prenatal cocaine exposure: II: Behavior, learning and retention of appetitive and aversive odor conditioning in infancy. Society for Neuroscience, New Orleans, LA, 1987.

Spear, L.P., Frambes, N., Kirstein, C.L., Miller, J., Moody, C. A., Smoller, D., Specht, S.M. & Spear, N.E. Behavioral, psychopharmacological and neurochemical consequences of gestational cocaine exposure. Midwestern Psychological Association, Chicago, IL, 1988.

- Kirstein, C.L., Leder, R., Schwalb, R.L., Heydayat, B. & Spear, L.P. Psychopharmacological manipulations of 5HT_{1A}, 5HT_{1B} and 5HT₂ receptor subtypes induce specific behaviors in neonatal rat pups. Eastern Psychological Association, Buffalo, NY, 1988.
- Spear, L.P., Specht, S.M., Frambes, N.R. & Kirstein, C.L. Early functional roles of nascent neurotransmitter systems during development: Serotonin and ingestion related behaviors. NIMH Conference on Molecular Neurobiology, Santa Barbara, CA, 1988.
- Spear, L.P., Kirstein, C.L., Frambes, N., Bell, J., Rogers, L., Yoottanasumpun, V. & Spear, N.E. Neurobehavioral teratogenic effects of prenatal exposure to cocaine. Behavioral Teratology Society, Palm Springs, FL, 1988.
- Spear, L.P., Frambes, N., Kirstein, C.L., Bell, J., Rogers, L., Yoottanasumpun, V. & Spear, N.E. Chronic cocaine exposure during gestation results in neurobehavioral deficits evident early in ontogeny. Committee on Problems of Drug Dependence, North Falmouth, MA, 1988.
- Spear, L.P., Kirstein, C.L. & Frambes, N.A. Cocaine effects on the developing CNS: Behavioral, psychopharmacological and neurochemical studies. New York Academy of Science, Washington, D.C., 1988.
- Kirstein, C.L., Specht, S.M., Kuhn, C.M. & Spear, L.P. Anterior and posterior, but not cheek, intraoral cannulation procedures elevate serum corticosterone levels in neonatal rat pups. International Society for Developmental Psychobiology, Toronto, Canada, 1988.
- Frambes, N.A., Kirstein, C.L. & Spear, L.P. Fetal and maternal levels of cocaine and benzoylecgonine in brain and plasma following chronic gestational cocaine administration. International Society for Developmental Psychobiology, Toronto, Canada, 1988.
- Specht, S.M., Kirstein, C.L., Kuhn, C.M. & Spear, L.P. Corticosterone and growth hormone responses to various experimental procedures in neonatal rat pups. Society for Neuroscience, Toronto, Canada, 1988.
- Frambes, N.A., Kirstein, C.L. & Spear, L.P. 5HT_{1A}, 5HT_{1B} and 5HT₂ agonists produce varying behavioral responses in 1718 day old rat pups. Society for Neuroscience, Toronto, Canada, 1988.
- Spear, L.P., Kirstein, C.L., Frambes, N.A. & Moody, C.A. Effects of exposure to dopamine agonists: Cocaine as a model agonist. Behavioral Teratology Society Meeting, Richmond, VA, 1989.
- Spear, L.P., Kirstein, C.L., Frambes, N.A., Moody, C.A., Miller, J. & Spear, N.E. Neurobehavioral teratogenic effects of gestational cocaine exposure. American Psychological Society Convention, Arlington, VA, 1989.
- Kirstein, C.L., Schrama, L., Glaser, T., Traber, J., Gispén, W.H. & Spear, L.P. Effects of 5HT_{1A}, 5HT_{1B} and 5HT₂ agonists on inositol phosphate and cyclicAMP production during ontogeny.

New York Academy of Sciences, New York City, NY, 1989.

- Kirstein, C.L., Bridges, R.J., Coopersmith, R. & Leon, M. Glutathione in the olfactory epithelium. Association for Chemoreception Sciences, Sarasota, FL, 1990.
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- Kirstein, C.L., Weihmuller, F.B., Brandt, J.F., Marshall, J.F. & Leon, M. Conditioned dopamine response in the olfactory bulb of young rats. Association for Chemoreception Sciences, Sarasota, FL, 1991.
- Maldonado, A.M. & Kirstein, C.L. Handling uniquely affects cocaine induced locomotor activity in adolescent but not adult female rats. Motivational Neuronal Network., Clearwater, FL, 2005.
- Maldonado, A.M. & Kirstein, C.L. The effect of repeated high and moderate dose adolescent ethanol administration on ethanolinduced locomotor activity in female rats. Twenty-eighth annual Research Society on Alcoholism, Santa Barbara, CA, 2005.
- Maldonado, A.M. & Kirstein, C.L. Voluntary alcohol consumption is higher in adolescent versus adult rats using a limited access paradigm. Thirty-fifth annual Society for Neuroscience, Washington, D.C., 2005.
- Maldonado, A.M. & Kirstein, C.L. Adolescent ethanol administration has lasting effects on locomotor activity in adult female rats. Thirty-eighth annual International Society of Developmental Psychobiology, Washington, D.C., 2005.
- Maldonado, A.M., Huneke, N.E. & Kirstein, C.L. Responsivity to nicotine and a social stressor in adolescent and adult rats. Poster presented at the Twelfth annual Society for Research on Nicotine and Tobacco, Orlando, FL, 2006.
- Maldonado, A.M., Huneke, N.E., Wood, R.K. & Kirstein, C.L. Characterizing voluntary alcohol intake in adolescent and adult rats in a limited access paradigm using sweetened alcohol solutions. Twenty-ninth Annual Research Society on Alcoholism, Baltimore, MD, June 2006.
- Maldonado, A.M., Huneke, N.E., Finkbeiner, L.M. & Kirstein, C.L. Adolescent and adult male and female rats differ in voluntary alcohol intake in a limited access paradigm using sweetened alcohol solutions. New Investigators in Hispanic Drug Abuse Research panel at the National Hispanic Science Network on Drug Abuse, Scottsdale, AZ, September, 2006.
- Catlow, B. J., Sponaugle, A. E., Badanich, K. A., Kirstein, C. L. & Sanchez Ramos J. Effects of 3,4-methylenedioxymethamphetamine (ecstasy) administration during adolescence on hippocampal neurogenesis. Clinical Ligand Assay Society, 34th International Meeting, Coral Springs, FL, 2008

- Yevstigneyeva, V.M., Maldonado-Devincci, A.M., Hennessey, M.K., & Kirstein, C.L. Social contact and social investigation with an alcohol-intoxicated peer mediate greater alcohol consumption in adolescent, but not male rats. University of South Florida Neuroscience Research Day, Tampa General Hospital, Tampa, Florida, March, 2009.
- Chapman, C.B., Maldonado-Devincci, A.M., & Kirstein, C.L. Motor response to acute ethanol exposure in adolescent rats. Behavior, Biology and Chemistry: Translational Research in Addiction conference, San Antonio, Texas, March, 2009.
- Maldonado-Devincci, A.M., Levie, K.E., Alipour, K.K. & Kirstein, C.L. Voluntary sweetened ethanol intake is increased in young adulthood following binge ethanol treatment during adolescence in male and female rats. Thirty-second annual Research Society on Alcoholism meeting, San Diego, California, June, 2009.
- Maldonado-Devincci, A.M., Hennessey, M.K., Yestigneyeva, V.M., Fogel, R.M. & Kirstein, C.L. Social interaction with an alcohol-intoxicated, but not a cocaine-injected, peer alters alcohol intake and social behaviors in adolescent female rats. Thirty-second annual Research Society on Alcoholism meeting, San Diego, California, June, 2009.
- Maldonado-Devincci, A.M., Patel, N.H., Martinez, N.C., & Kirstein, C.L. Chronic ethanol exposure increases voluntary sweetened ethanol intake more in adolescent-exposed relative to adult-exposed female rats. Poster to be presented at the Thirty-ninth annual Society for Neuroscience meeting, Chicago, Illinois, October, 2009.
- Patel, N.H., Maldonado-Devincci, A.M., & Kirstein, C.L. Chronic ethanol exposure decreases sleep time in a dose-dependent manner in adulthood in adolescent-exposed relative to adult-exposed female rats. Poster to be presented at the Thirty-ninth annual Society for Neuroscience meeting, Chicago, Illinois, October, 2009.
- Maldonado-Devincci, A.M., Donaldson, E., Martinez, N.C., Lopez, S., Patel, N.H., & Kirstein, C.L. Increased ethanol intake is observed in adulthood following chronic ethanol intake during adolescence in female rats. University of South Florida Neuroscience Research Day, Tampa General Hospital, Tampa, Florida, March, 2010.
- Michael, L.A., Maldonado-Devincci, A.M., & Kirstein, C.L. Early binge alcohol exposure and the effects of the estrous cycle on alcohol intake in adulthood. University of South Florida Neuroscience Research Day, Tampa General Hospital, Tampa, Florida, March, 2010.
- Maldonado-Devincci, A.M., Patel, N.H., Martinez, N.C., Raudales, Jr., R., & Kirstein, C.L. Ethanol intake is selectively increased in adulthood following chronic ethanol exposure during adolescence in male and female rats. Thirty-third annual Research Society on Alcoholism meeting, San Antonio, Texas, June, 2010.
- Michael, L.A., Maldonado-Devincci, A.M., & Kirstein, C.L. Influence of early binge alcohol exposure and estrous cycle on alcohol intake in adulthood. Thirty-third annual Research Society on Alcoholism meeting, San Antonio, Texas, June, 2010.

- Amante, R. A., Raudales, Jr., R., Maldonado-Devincci, A.M., Michael, L. A. & Kirstein, C. L. Age-related differences in novelty seeking and repeated cocaine during adolescence and adulthood in male rats. Fortieth Annual Society for Neuroscience Meeting, San Diego, CA, November, 2010.
- Micheal, L.A., Maldonado-Devincci, A.M. & Kirstein, C.L. Binge alcohol exposure during adolescence alters alcohol consumption in adulthood as a function of the estrous cycle. Fortieth Annual Society for Neuroscience Meeting, San Diego, CA, November, 2010.
- Santos, S.M., Maldonado-Devincci, A.M., Hennessy, M.K. & Kirstein, C.L. Social interaction with an alcohol intoxicated or cocaine-injected peer: Social behaviors and voluntary alcohol consumption in male and female adolescent rats. Fortieth Annual Society for Neuroscience Meeting, San Diego, CA, November, 2010.
- Maldonado-Devincci, A.M., Donaldson, E., Patel, N.H., Martinez, N.C., Mathew, J.K., Lopez, S., Michael, L.A., Raudales, Jr., R., Santos, S.M., Patel, Y.A., Amante, R.A., & Kirstein, C.L. Adolescent male and female rats are predisposed to greater alcohol intake in adulthood following chronic alcohol treatment during adolescence. Fortieth Annual Society for Neuroscience Meeting, San Diego, CA, November, 2010.
- Lopez, S., Maldonado-Devincci, A.M., Donaldson, E. & Kirstein, C.L. Prolonged ethanol exposure during adolescence relative to exposure during adulthood: ethanol pharmacokinetics in male and female rats. Fortieth Annual Society for Neuroscience Meeting, San Diego, CA, November, 2010.
- Michael, L.A., Maldonado-Devincci, A.M., & Kirstein, C.L. Binge alcohol exposure during adolescence alters alcohol consumption in adulthood as a function of the estrous cycle. Fortieth annual Society for Neuroscience meeting, San Diego, California, November, 2010.
- Santos, S.M., Maldonado-Devincci, A.M., Hennessey, M.K., & Kirstein, C.L. Social interaction with an alcohol-intoxicated or cocaine-injected peer: social behaviors and voluntary alcohol consumption in male and female adolescent rats. Fortieth annual Society for Neuroscience meeting, San Diego, California, November, 2010.
- Michael, L.A., Maldonado-Devincci, A.M., & Kirstein, C.L. The effects of binge drinking in adolescents and adults on later voluntary alcohol consumption. Fourteenth annual American Association of Behavioral and Social Sciences meeting, Las Vegas, Nevada, February, 2011.
- Michael, L.A. Maldonado-Devincci, A.M. & Kirstein, C.L.. Social stress alters adulthood deprivation-induced ethanol intake after adolescent ethanol treatment. To be presented at the 21st Annual USF Health Research Day, Tampa, FL, February 2011.

- L.A. Michael, A.M. Maldonado-Devincci & C.L. Kirstein. Differences in the effects of social stress on voluntary ethanol consumption in adulthood in male rats. To be presented at the 9th Annual Undergraduate Research Symposium, Tampa, FL, April, 2011.
- Michael, L.A., Maldonado-Devincci, A.M., & Kirstein, C.L. Social stress and binge ethanol exposure during adolescence and alter voluntary ethanol consumption in adulthood in male Sprague-Dawley rats. Southeast Neuroscience Conference, St. Augustine, Florida, March, 2011.
- Maldonado-Devincci, A.M. & Kirstein, C.L. Binge ethanol during adolescence: long-term dose-dependent changes in ethanol intake in adulthood in male rats. Poster to be presented at the Thirty-fourth annual Research Society on Alcoholism meeting, Atlanta, Georgia, June, 2011.
- Donaldson, E., Maldonado-Devincci, A.M., & Kirstein, C.L. The long-term dose-dependent changes in ethanol intake of binge pattern ethanol exposed female rats. Poster to be presented at the Thirty-fourth annual Research Society on Alcoholism meeting, Atlanta, Georgia, June, 2011.
- Mathew, J.K., Maldonado-Devincci, A.M., & Kirstein, C.L. Sex differences in adolescent male and female rats influence changes in non-spatial learning and working memory following binge ethanol treatment. Poster to be presented at the Thirty-fourth annual Research Society on Alcoholism meeting, Atlanta, Georgia, June, 2011.
- Michael, L.A., Maldonado-Devincci, A.M., & Kirstein, C.L. Binge ethanol exposure during adolescence and the effects of social stress on voluntary ethanol consumption in adulthood in male rats. Poster to be presented at the Thirty-fourth annual Research Society on Alcoholism meeting, Atlanta, Georgia, June, 2011.
- Uruena, A.R., Maldonado-Devincci, A.M., Michael, L.A., Lopez, S., Patel, N.H., & Kirstein, C.L. Chronic ethanol exposure in adolescence increases voluntary ethanol consumption during adulthood. Poster to be presented at the Thirty-fourth annual Research Society on Alcoholism meeting, Atlanta, Georgia, June, 2011.
- Uruena, A. R. and Kirstein, C. L (2014). Ethanol attenuation of cocaine place preference in adult but not adolescent rats: the role of NMDA receptor antagonist MK-801. *Journal of Alcoholism*.
- Uruena, A. R and Kirstein, C. L (2013). The behavioral effects of chronic ethanol exposure in the expression of cocaine conditioned place preference in male and female rats. *Journal of Alcoholism*.
- Uruena, A. R., Maldonado-Devincci, A. M., and Kirstein, C. L (2012). Chronic ethanol exposure in adolescence increases voluntary ethanol consumption in adulthood. *Journal of Alcoholism*.
- Uruena, A. R., Maldonado-Devincci, A. M., Michael, L. A., Lopez, S., Patel, N. H., and Kirstein, C. L (2011). Chronic ethanol exposure in adolescence increases voluntary ethanol consumption during adulthood. *Journal of Alcoholism*.

