Curriculum Vita

Susan Barron

**Current Address:**

Department of Psychology

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**Education:**

State University of New York at Albany Ph.D. 1987

Experimental Psychology

State University of New York at Albany B.S. 1981

Biology/Chemistry

**Employment:**

University of Kentucky Director, Psychology Scholars 2011-

Department of Psychology

University of Kentucky Professor 2011 -

Department of Psychology

University of Kentucky Associate Professor 1997-2011

Department of Psychology Behavioral Neuroscience and Psychopharmacology

Coordinator

University of Kentucky Assistant Professor 1991-1997

Department of Psychology

San Diego State University Adjunct Assistant Professor 1989-1991

Psychology Department

San Diego State University Postdoctoral Research Fellow 1988-1989

Psychology Department

State University of New York Postdoctoral Research Fellow 1987-1988

at Albany- Psychology Department

**Additional University Affiliations**

Center for Drug and Alcohol Research

Center for the Advancement of Women’s Health

**Teaching Experience:**

*Undergraduate Level Courses Taught*

Evolutionary Psychology

Introductory Psychology

Behavioral Neuroscience, Brain and Behavior

Drugs and Behavior

Behavioral Endocrinology

Developmental Psychobiology

Clinical Psychopharmacology

*Graduate Level Courses Taught*

Clinical Psychopharmacology

Proseminar in Physiological Psychology

Topical Seminar in Neurotoxicology

Hormones and Behavior

Directed Readings in Neuroscience

**Federal or State Government Appointed Committees and Grant Reviews**

Ad hoc reviewer, NIH, Biomedical Research Review Subcommittee (AA1), 2018

Ad hoc reviewer, NIH ZAA1 JJ.AA-1 AND AA-4 Study Section Conflict Grant Applications,

2016, 2017, 2018

Ad hoc reviewer, NIH NIAAA Member Conflict Applications – Neurosciences, ZAA1 DD (04),

2015

NIH Special Emphasis Panel Scientific Review Group: Emerging Technologies in

Neuroscience [ZRG1 ETTN-D (02)]. Chair, 2014

Fetal Alcohol Spectrum Disorders Advisory Council- State of KY- 2011 - 2014

Ad hoc reviewer, NIH, AA-1, 2011

KY Substance Exposed Infants Work Group, 2009 – 2013

Ad hoc reviewer, NIH, AA-1, 2007

Ad hoc reviewer, NIH, Neurogenesis and Cell Fate Study (NCF) Subcommittee, 2006

Ad hoc reviewer, NIH, Developmental Brain Disorders Subcommittee (DBD), 2004.

2005

Substance Abuse and Pregnancy Work Group - Governor-appointed work group

through the Cabinet for Human Resources, Commonwealth of Kentucky, 1992- 1998**.**

**Elected Offices Held and Research Related Committee Work (outside University)**

Advisory Board, Fetal Alcohol Spectrum Disorders Study Group, 2016-2018

Co-Chair, Government Affairs and Advocacy Committee, Research Society on Alcoholism, 2009-present

National Advocacy and Publication Education Committee, Research Society on Alcoholism,

2005-present

Chair, Henry Rosett Award Selection Committee, Fetal Alcohol Spectrum Disorders Study Group, 2010

Membership Committee, International Society for Biomedical Research on Alcoholism, appointed 2012- 2015

Henry Rosett Award Selection Committee, Fetal Alcohol Spectrum Disorders Study Group, 2008

Board of Directors, Research Society on Alcoholism, 2007-2011.

Public Awareness and Website Development Committee, Fetal Alcohol Spectrum Disorders Study Group, 2008

Government Affairs and Advocacy Committee, Research Society on Alcoholism, 2008- 2009

Co-Chair Research Society on Alcoholism Educational Lecture Series, 2008, 2009

Education Committee, Research Society on Alcoholism, 2005-2008

Secretary, Research Society on Alcoholism, 2003 – 2005

Executive Committee, Research Society on Alcoholism, 2003-2005

President, Fetal Alcohol Syndrome Study Group, 2002-2003

Vice President, Fetal Alcohol Syndrome Study Group, 2001-2002

Secretary/Treasurer, Fetal Alcohol Syndrome Study Group, 2000-2001

ILSI Risk Science Institute: Direct Dosing of Neonatal Animals in Toxicity Studies Workgroup, 2000-2003

Chairperson, Research Society on Alcoholism Membership Committee, 1997-2001.

Chairperson, Student Travel Award Committee, Women in Neuroscience, 1999.

"Tobacco Team" - member of committee implementing grass roots efforts related to addressing local issues related to smoking and health under auspice of

American Cancer Society, Lexington, KY, 1995 - 1997

Organizing Member for San Diego Toxicology Society, 1990

**Advisory Boards**

External Scientific Advisory Board Member for the Developmental Effects Alcohol

Research Center, appointed April, 2011 - present.

**Elected Offices held - University of KY:**

University Senate, 2019-2022

UK Society for Neuroscience - Activities Coordinator, 1995-1997,

President-elect, 2000

President, 2001

**UK Committee Assignments:**

Senate's Academic Organization and Structure Committee (SAOSC), 2019-2020

Search Committee for Endowed Lecturer – Free Enterprise, Lewis Honors College, 2019

Appointment and Promotion Committee, Lewis Honors College, 2018

Lewis Honors College Council, 2018-2021

Curriculum Committee, Lewis Honors College, 2017-2018

Graduate School Committee on Fellowships and Traineeships, 2018-2021

Search Committee for Honors College Community Engagement Lecturer, 2018

Search Committee for Honors College Social Sciences Lecturers, 2018

Lewis Honors College, Faculty Advisory Council, 2017-2018

Lexmark Fellowship Selection Committee, 2017-2019

Graduate Council Committee on Fellowships and Traineeships – Life Sciences Panel 2017

Academic Area Advisory Committee for Extension Title Series, 2015-2017

University Joint Committee on Honorary Degrees, 2014-2017

University of Kentucky Honors Advisory Board, 2013 to 2016

University Honors Faculty of Record, 2012 to 2018

Institutional Animal Care and Use Committee, 2011- present

IACUC Investigative Subcommittee, appointed 2015 - present

Committee for Postdoctoral Fellowship for Women in Under-Represented Areas-

2003-present

Quality Enhancement Plan - Multimodal Communication Across the Curriculum

Committee, 2011

University Committee on Academic Planning and Priorities, Chancellors Office,

2010- 2012

Ad hoc Committee for Evaluation of Esirius, VP Research Office, 2008-2009

Rhodes and Marshall Selection Committee, 2008-2011

Advisory Committee for Girls in Science and Girls in Research Programs, 2003-2004

Medical Center Animal Costs Task Force Committee, 2000

Selection Committee - Young Women in Science Program - 1999, 2000

Reviewer - Research Committee Grants - 1999

Institution Animal Care and Use Committee - 1998, 1999, 2001-2004

New Horizons Scholarship Committee - 1995-1997

Major Equipment Award Committee - 1994

Study Abroad Advisory Committee - 1992-1999

**College of Arts and Sciences Committees:**

Tenure and Promotion Committee, 2013 to 2015, Chair (2015)

Arts and Sciences Election Committee, 2011 to present

Committee on the Future of Undergraduate Education, 2012

Envision 2020 Committee, 2011

Committee of Women Faculty, 2009

Election Committee, 2008- present

**Psychology Department Committees:**

Chair Review Committee, 2014

Director, Psychology Scholars Program, 2011- present

Evaluation Issues in Undergraduate Education – Fall 2012 – 2013

Graduate Student Advisory Committee, Chair, 2010

Faculty Search Committee Endowed Chair w/ Women’s Center on Violence, 2006

Departmental Newsletter Coordinator, 2005, 2006

Behavioral Neuroscience and Psychopharmacology Area Coordinator, 1999-2008

Admissions and Awards Committee, 2002-2006

Faculty Search Committee, 2002, 2003

Faculty Search Committee, 2000

Ad Hoc Space Committee, 1998

Research Challenge Initiative RA Award Committee, 1998

Biological Bases of Behavior Course Proposal Committee, Chair

1995-1996

Computing Advisory Committee, 1995-1997

Speaker Series, 1995-1996

UK Department of Psychology- Colloquium Committee, 1992-1993; 1994-1996

Special Awards and Teaching Committee, 1993-1994

Diversity Initiatives, 1994

**College and Psychology Department Awards:**

2016 College of Arts and Sciences Distinguished Service Award

2013 Psychology Department Award for Contribution to Undergraduate Education

**Other University Service**

Mentor, IAmAWomanInSTEM, three UG mentees, 2015

“Whats New in Science” – a yearlong roundtable discussion for local middle/high schools

(through the College of Arts and Sciences) , 2011

Dean’s List Reception, Faculty Poster Presentation, 2010.

Panel for Undergraduate Research Opportunities – a roundtable discussion, 2010.

Faculty/staff participant, UK Fusion, 2000-2015

**KY Regional Service**

Judge, Social and Behavioral Sciences Area, KY INTEL ISEF Fair, University of Kentucky, 2005, 2012, 2015

Presentation at Yates Family Science Night, 2013, 2014.

Providence Montessori, presentation to 1st- 6th graders on CNS and brain function,

2005, 2008, 2010

Kentucky Young Scientist Summer Research Program (KYSS) Departmental

Coordinator, 2000-2003.

Chair of Judges, Social and Behavioral Sciences Area, KY INTEL ISEF Fair, Richmond,

2003

Co-Chair of Judges, Social and Behavioral Sciences Area, International INTEL ISEF

Fair, Louisville, 2002

Mentor, Girls in Science, NSF funded grant operated through Women’s Institute on

Alcohol and Drug Studies, 2003.

Maxwell Elementary School, presentation to 2nd graders on CNS and brain function,

2000 – 2003

Moderator, National Conference on Undergraduate Research, 2001, University of

Kentucky.

Mentor, Young Women in Science, NIDA funded grant operated through Women’s Institute on Alcohol and Drug Studies, 2000-2002.

**Regional Service via Presentations:**

FAS and FASD – Clinical and Preclinical Findings. Presented to University of Kentucky Psychiatry Fellows, 2017.

Workshop KY School for Alcohol and Drug Studies 2014, Psychoactive Medications: Risks, Benefits and Relationship to Substance Abuse

Drugs, Pregnancy and Parenting: Medical and Treatment Experts Address the Issues

Webinar (served as moderator), 2009.

Barron, S. Alcoholism and the Brain. Webinar presentation for Kentucky Psychological

Association. (CEU credits), 2009.

Barron, S.Fetal Alcohol Syndrome - Presented at the 14th Annual Conference of

Nurse Practioners and Midwives. Lexington, KY. 2001.

Barron, S. Prenatal Effects on Early Brain Development. Presented at the 1999 42nd

Annual Maternal and Child Health Conference, 1999.

Barron, S. What Do We Know About the Effects of Prenatal Drug Exposure Presented

at the 7th Annual Kentucky Infant/Toddler Conference, 1999.

Barron, S. Women and Substance Abuse, What’s in the Research? Kentucky School

for Alcohol and Drug Studies, Northern Kentucky University, Summer 1993, Co-

organizer and Speaker.

**Other Service:**

Research Society on Alcoholism Representative to give Public Comment to the

Scientific Management Review Board at the National Institutes of Health, November, 2009.

**Current Memberships and Affliliations**

Fetal Alcohol Spectrum Disorders Study Group

International Society for Biomedical Research on Alcoholism

Research Society on Alcoholism

**Editorial Advisory Boards:**

Neurotoxicology and Teratology - appointed 1998- 2004

Pharmacology, Biochemistry and Behavior- 2004 - 2014

**Ad Hoc Journal Reviewer**

Alcohol, Alcoholism: Clinical Experimental Research, Animal Learning and Behavior, Behavioural Brain Research, Behavioral Neuroscience, Biological Psychiatry, Birth Defects,

Brain Research, Developmental Psychobiology, Experimental Gerontology, Frontiers in Child and Neurodevelopmental Psychiatry, Hippocampus, Infant Behavior and Development, International Journal of Developmental Neurosciences, Journal of Neuroscience Methods, Life Sciences, Journal of Applied Physiology, Molecular Neurobiology , Neurobehavioral Toxicology and Teratology, Neuropharmacology

Pediatric Research , Physiology and Behavior, Psychopharmacology, Psychoneuroendocrinology

**Extramural Grants**

**Currently Funded:**

**AA015407 (J. Luo, PI) 03/10/2011 – 04/30/2021 (competing renewal funded 8/2016)**

NIH/NIAAA 1.8 academic months/.6 summer

*GSK3beta, A Mediator of Ethanol Neurotoxicity.*

This project looks at the role of GSK3beta in the effects of prenatal alcohol exposure.

**R01 CA217934-01 (Butterfield, St. Clair, Bondada, PIs) 09/15/17-08/31/22**

NIH/NCI

*A redox-mediated mechanism of chemotherapy-induced cognitive impairment.*

The major goal of this multiple PI grant is to determine if our proposed mechanism for CICI is correct. Co-investigator

**Recently Submitted:**

**R21 AA026946 (S. Barron PI)**

NIH/NIAAA

*Redox proteomics and functional analysis following prenatal ethanol exposure.*

This project is to look at the impact of low dose ETOH exposure on the developing

brain as measured by complex behaviors and ROS and modified proteins. A. Butterfield (CoI). Submitted October 2017

**Recently Reviewed;**

**R21AA025589 (S. Barron, PI)**

NIH/NIAAA

*Low dose alcohol effects in the developing brain: Functional and redox proteomics analysis*

This project is to look at the impact of low dose ETOH exposure on the developing

brain as measured by complex behaviors and ROS and modified proteins.

Impact score 30 but not funded.

**Under Revision:**

**R21AA022738**

NIH/NIAAA

*Can lobeline reduce cognitive and neurochemical effects of fetal ethanol exposure?*

This project is to look at whether lobeline can reduce some of the damaging effects of prenatal ETOH exposure.

**Recently funded projects**

**R21NS094891 (R.A. Butterfield, PI) 09/01/15-08/31/17**

NIH/NINDS

*Characterization of the fidelity to PD of a unique rat model*

The aim of this grant is to study a new rat knockout model for Parkinson’s Disease.

**AA020051** **(G. Chen PI** ) **09/01/12 - 05/31/17**

NIH/NIAAA 1.35 academic months/.45 summer

*RAX, PKR and ethanol neurotoxicity.*

This grant looks at the role of RAX and PKR in developmental ethanol neurotoxicity.

**NIAAA fast-track SBIR contract (Littleton, J.M. PI) 9/30/12 -8/31/15**

NIH/NIAAA

*Novel Pharmacotherapies for Alcoholism*

The aim is to complete early stage development of two synthetic and two natural product leads for treatment of alcoholism. Role: Co-investigator

**R43 AA021038 (J. Littleton, PI) 09/05/14 – 08/31/15**

NIH/NIAAA

*Novel flavonoids as anti-inflammatory agents in alcoholism*

The aim is to evaluate flavonoids from a native goldenrod which have unusual anti-inflammatory activity as potential protective agents in alcohol-induced multi-organ inflammation.

**Completed:**

**AA020188 (J. Littleton, PI) 9/20/2011-8/13/2013**

2.05 academic months

Alcohol, the vagus nerve and multi-organ inflammation

**AA017956 (R21) 9/5/2009-8/31/2011.**

*In vitro and In vivo models for ethanol withdrawal and antepartum hypoxia.*

Role: Principal Investigator**.**

**DA019526** (R21)04/01/07 – 3/31/09.

*Prenatal Cocaine Effects on Sexual Motivation.* National Institute on Drug Abuse. **Total Direct Cost:** $300,000.Role: Co-Investigator. (Chana Akins).

**DA 07304 (T32)** 8/1/98-7/30/08

*Research training in drug abuse behavior*. National Institute on Drug Abuse.

**Total Direct Cost**: $789,866. **Role:** Training Faculty (T. Garrity)

**# 1235412320** *–* 01/01/07-12/30/09.

*Preclinical studies to support the use of lobeline as a treatment for attention deficit hyperactivity disorder in children with Fetal Alcohol Syndrome.* Kentucky Tobacco Research and Development Center. **Total Direct Cost:** $120,000. Role: Co-investigator. (Linda Dwoskin).

**AA 013561 (RO1).** 2/10/04 - 1/31/09.

*Ethanol withdrawal and HIV-1 neurotoxicity*.National Institute on Alcohol Abuse and Alcoholism. Total Direct Cost: $875,000. Role: Co-Investigator. (Mark Prendergast)

**DA 021199 (R21)** 9/25/06-9/24/08

*Prenatal nicotine, behavioral teratogenicity and dopamine.* **Total Direct Costs: $300,000. Role: Co-investigator (2%). (Jim Pauly)**

Center for Drug Abuse Research Translation Mini-Pilot Project Program 9/30/07 – 12/1/08. *Neonatal Drug Insult and Environmental Enrichment: Effects on Adolescent Drinking.* **Total Direct Costs: $20,000. Role:** Principal Investigator

**AA 12600 (RO1)** 8/01/00 – 07/30/08

*Development of screens for drugs in alcohol dependence.* National Institute on Alcohol Abuse and Alcoholism. **Total Direct Cost:** $1,900,374. **Role:** Co-Investigator.(John Littleton)

**R25AA017602** October 2007;

*Research Society on Alcoholism Lecture Series.* Role: Co-Investigator.

**AA 014032** (R21) 6/01/03 – 5/31/07.

*Polyamines in neonatal alcohol neurotoxicity.* National Institute on Alcohol

Abuse and Alcoholism. **Total Direct Cost:** 300,000. **Role:** Prinicipal Investigator.

**Previous Funding:**

**AA 09723** 5/1/96 - 4/30/99

*Neonatal ethanol exposure and drug interactions.* National Institute of Alcohol Abuse and Alcoholism. **Total Direct Cost:** $262,437. **Role:** Principal Investigator.

**AA 05521 (T32)** 1999-2000

*The Effects of Neonatal Exposure to Alcohol and/or cocaine on cognitive functioning in rodents.* National Institute of Alcohol Abuse and Alcoholism. **Role:** Supervisor/Mentor (J. Willford).

**DA** **06049** **(R29)** 3/1/90 - 2/28/95.

*Third Trimester Model of Prenatal Cocaine Exposure.*  National Institute of Drug Abuse. **Total Direct Costs:** $349,972. **Role:** Principal Investigator.

Kentucky Spinal Cord and Head Injury Trust - *Chronic ethanol in traumatic brain injury* - **Total Direct Costs:** $295,059. **Role:** Co-Investigator. (Renuka Prasad)

**BRSG S07 RR07114-23** 1992

*The Effects of Third Trimester Cocaine Exposure on the Central Nervous System* National Institute of Drug Abuse **Total Direct Costs:** $4300 **Role:** Principal Investigator.

**AA 6902** 1989-1991

*Behavioral Effects of Neonatal Alcohol Exposure* National Institute of Alcohol Abuse and Alcoholism. **Total Direct Costs: Role:** Co-Investigator. (Edward Riley)

**AA Postdoctoral Training Grant**  1987-1989

*Neonatal Alcohol Exposure - Sexually Dimorphic Effects* Neonatal Alcohol Exposure - Sexually Dimorphic Effects. National Institute of Alcohol Abuse and Alcoholism. **Role: Postdoctoral Fellow.** (Edward Riley, Sponsor).

**Publications**

1. Riley, E.P., Barron, S., Driscoll, C.D., and Chen, J.S. (1984) Taste aversion learning in preweanling rats exposed to alcohol prenatally. Teratology, 29:325‑332. PMID: 6087485

2. Barron, S., and Riley, E.P. (1985) Pup‑induced maternal behavior in adult and juvenile rats exposed to alcohol prenatally. Alcoholism: Clinical and Experimental Research, 9:360‑365. PMID: 3901808

3. Riley, E.P., Barron, S., Driscoll, C.D., Hamlin, R.T. (1986) The effects of physostigmine on open‑field behavior in rats exposed to alcohol prenatally. Alcoholism: Clinical and Experimental Research, 10:50‑53. PMID: 3515992

4. Barron, S., Riley, E.P., and Smotherman, W.P. (1986) The effects of prenatal alcohol exposure on umbilical cord length in fetal rats. Alcoholism: Clinical and Experimental Research, 10:493‑495. PMID: 3541671

5. Smotherman, W.P., Woodruff, K.S., Robinson, S.R., del Real, C., Barron, S., and Riley, E.P. (1986) Spontaneous fetal behavior after maternal exposure to ethanol. Pharmacology, Biochemistry, and Behavior, 24:165‑170. PMID: 3952106

6. Barron, S., Jaccard, J., and Riley, E.P. (1986) Methods for testing hypotheses across studies: Applications for teratologists and toxicologists. Teratology, 34:113‑118.

7. Riley, E.P., Barron, S., and Hannigan, J.H. (1986) Response inhibition deficits following prenatal alcohol exposure: A comparison to the effects of hippocampal lesions in rats. In: Alcohol and Brain Development, J. West (ed). pp. 71‑104.

8. Barron, S., Zimmerberg, B., Rockwood, G.A., and Riley, E.P. (1987) Prenatal alcohol exposure: Recent work on behavioral dysfunctions in preweanling rats. Advances in Alcohol and Substance Abuse, 6:59‑72. PMID: 3425479

9. Barron, S., Tieman, S.B., and Riley, E.P. (1988) The effects of prenatal alcohol exposure on the sexually dimorphic nucleus of the preoptic area of the hypothalamus in male and female rats. Alcoholism: Clinical and Experimental Research, 12:59‑64.

10. Barron, S., Gagnon, W., Mattson, S.M., Kotch, L.E., Meyer, L.S. and Riley, E.P. (1988) The effects of prenatal alcohol exposure on odor associative learning in rats. Neurotoxicology and Teratology, 10:333-339. PMID: 3226376

11. Riley, E.P. and Barron, S. (1989) The behavioral and neuroanatomical effects of prenatal alcohol exposure in animals. Prenatal Abuse of Licit and Illicit Drugs. Annals of New York Academy of Sciences, 562:173-177. PMID: 2742274

12. Barron, S. and Riley, E.P. (1990) Passive avoidance performance following neonatal alcohol exposure. Neurotoxicology and Teratology, 12:135-138. PMID: 2333065

13. McGivern, R.F., Barron, S. (1991) Influence of prenatal alcohol exposure on the process of neurobehavioral sexual differentiation. Alcohol Health and Research World 15:115-125.

14. Barron, S., Kelly, S.J. and Riley, E.P. (1991) Neonatal alcohol exposure alters suckling performance in rat pups. Pharmacology, Biochemistry and Behavior 39: 423-427. PMID: 1946583

15. Barron, S., Foss, J.A. and Riley, E.P. (1991) The effect of prenatal cocaine exposure on umbilical cord length in fetal rats. Neurotoxicology and Teratology, 13:503-506.

16. Barron, S., and Riley, E.P. (1992) The effects of prenatal alcohol exposure on behavioral and neuroanatomical components of olfaction. Neurotoxicology and Teratology, 14:291-297. PMID: 1522834

17. Riley, E.P., Barron, S., Melcer, T., Gonzalez, D., Li, T.K. (1993) Alterations in activity following alcohol administration during the third trimester equivalent in P and NP rats. Alcoholism: Clinical and Experimental Research, 17:1240-1246. PMID: 8116838

18. Melcer, T., Gonzalez, D., Barron, S., Riley, E.P. (1993) Hyperactivity in preweanling rats following postnatal alcohol exposure. Alcohol 11:41-45. PMID: 8142067

19. Barron, S., and Irvine, J. (1994) The effects of neonatal cocaine exposure on two measures of balance and coordination. Neurotoxicology and Teratology 16:89-94. PMID: 7700945.

20. Barron, S., Kaiser, D.H., Hansen, L.S. (1994) Neonatal cocaine exposure, activity and responsivity to cocaine in a rodent model. Neurotoxicology and Teratology 16:401-409.

21. Barron, S., Irvine, J. (1995) Behavioral effects of neonatal cocaine exposure using a rodent model. Pharmacology, Biochemistry and Behavior 50:107-114.

22. Barron, S., Razani, L.J., Gallegos, R.A., Riley, E.P. (1995) The effects of neonatal alcohol exposure on saccharin consumption. Alcoholism: Clinical and Experimental Research 19:257-261. PMID: 7771658

23. Belcheva, M.M., Barron, S., Ho, M.T., Barg, J., Coscia, C.J. (1995) Cross-linking studies on buprenorphine-exposed neonatal rat brain. Analgesia 1:290-293.

24. Barron, S., Hansen, L.S., Kaiser, D.H. (1996) Neonatal cocaine exposure and activity rhythms in rats. Behavioural Brain Research 74:167-174.

25. Barron, S., Hansen-Trench, L.S., Kaiser, D.H. Segar, T. (1996) Problem solving following neonatal exposure to cocaine, ethanol or cocaine/ethanol in combination in rats. Pharmacology, Biochemistry and Behavior 53:197-203. PMID: 8848451

26. Hansen-Trench, L.S., Segar, T.M., and Barron, S. (1996) Neonatal cocaine and/or ethanol exposure: Effects on a runway task with suckling reward. Neurotoxicology and Teratology 18: 651-657. PMID: 8947942

27. Barron, S. and Chung, V.M. (1997) The effects of prenatal buprenorphine exposure on sexual differentiation in rats. Pharmacology, Biochemistry and Behavior. Pharmacology, Biochemistry and Behavior, 58:337-343.

28. Prasad R.M., Laabich A., Dhillon, H.S., Zhang L., Maki A., Clerici W.J., Hicks R., Butcher J. and Barron, S. (1997) Effects of six weeks of chronic ethanol administration on lactic acid accumulation and high energy phosphate levels after experimental brain injury in rats. Journal of Neurotrauma 14:919‑930. PMID: 947537

29. Barron, S., Staton, C.M., and Trench, L.H. (1998) The effects of clonidine on rat pups neonatally exposed to cocaine. Neurotoxicology and Teratology 20:401-409.

30. Belcheva, M.M., Bohn, L.M., Ho, M.T., Johnson, F.E., Yanai, J., Barron, S., Coscia, C.J. (1998) Brain opioid receptor adaptation and expression after prenatal exposure to buprenorphine. Developmental Brain Research 111:35-42.

31. Willford, J.A., Segar, T.M., Hansen-Trench, L.S., Barron, S. (1999) The effects of neonatal cocaine exposure on a play-rewarded spatial discrimination task in juvenile rats. Pharmacology, Biochemistry and Behavior 62:137-143.

32. Segar, T.M., Klebauer, J.E., Bardo, M.T. and Barron, S. (1999) Acquisition of a fixed ratio schedule in adult male rats neonatally exposed to ethanol and/or cocaine. Alcoholism: Clinical and Experimental Research 23:7-11. PMID: 10029197

33. Zhang, L., Maki, A., Dhillon, H.S., Barron, S., Clerici, W.J., Hicks, R., Kraemer, P.J., Butcher, J., Prasad, R.M. (1999) Effects of six weeks of chronic ethanol administration on the behavioral outcome of rats after lateral fluid percussion brain injury. Journal of Neurotrauma. 16:243‑254. PMID: 10195472

34. Willford, J.A., Segar, T.M., and Barron, S. (1999) The behavioral response to novelty is altered in rats neonatally exposed to cocaine. Developmental Psychobiology 35:343‑351. PMID: 10573573.

35. Zhang L., Dhillon, H.S., Barron, S., Hicks, R.R., Prasad, R.M., Seroogy, K.B. (2000) Effects of chronic ethanol administration on expression of BDNF and trkB mRNAs in rat hippocampus after experimental brain injury. Molecular Brain Research. 79:174‑179. PMID: 10925157.

36. Barron S., Segar T.M., Yahr J.S., Baseheart B.J., Willford J.A.(2000). The effects of neonatal ethanol and/or cocaine exposure on isolation-induced ultrasonic vocalizations. Pharmacology, Biochemistry and Behavior, 67:1‑9. PMID: 1111347

37. Barron S., Baseheart B.J., Segar T.M., Deveraux T., Willford J.A. (2000) The behavioral teratogenic potential of fenbendazole. Neurotoxicology and Teratology, 22:871‑877. PMID: 11120393.

38. Masse J., Billings, B., Dhillon, H.S., Mace, D., Hicks, R., Barron, S., Kraemer, P.J., Dendle, P., Prasad RM (2000) Three months of chronic ethanol administration and the behavioral outcome of rats after lateral fluid percussion brain injury. Journal of Neurotrauma. 17:421‑430. PMID: 10833061

39. Steingart, R.A., Silverman, W.F., Barron, S., Slotkin, T.A., Award, Y., Yanai, J. (2000) Neural grafting reverses prenatal drug-induced alterations in hippocampal PKC and related behavioral deficits. Developmental Brain Research 125:9‑19. PMID 11154756.

40. Littleton J.M., Lovinger D., Liljequist S., Ticku R., Matsumoto I., Barron S. (2001) Role of polyamines and NMDA receptors in ethanol dependence and withdrawal. Alcoholism: Clinical and Experimental Research 25(Suppl):132S‑136S. PMID: 11391062

41. Prendergast, M.A., Rogers, D.T., Barron, S., Bardo, M.T., Littleton, J.M. (2002) Ethanol and nicotine: A pharmacologic balancing act? Alcoholism: Clinical and Experimental Research 26:1917-1918. PMID: 12500119

42. Rogers, D.T., Barron, S., Littleton, J.M. (2004) Neonatal ethanol exposure produces a hyperalgesia that extends into adolescence, and is associated with increased analgesic and rewarding properties of nicotine in rats. Psychopharmacology 171:204-211. PMID: 13680078.

43. Barron S., Gilbertson R. (2005) Neonatal ethanol exposure but not neonatal cocaine selectively reduces specific isolation-induced vocalization waveforms in rats. Behavior Genetics 35:93-102. PMID: 15674536.

44. Hansen-Trench L.S., Barron S. (2005) Effects of neonatal alcohol and/or cocaine exposure on stress in juvenile and adult female rats. Neurotoxicology and Teratology 27:55-63. PMID: 15681121.

45. Gilbertson R.J., Barron S. (2005) Neonatal ethanol and nicotine exposure causes locomotor activity changes in preweanling animals. Pharmacology, Biochemistry and Behavior. 81:54-64. PMID: 15894064.

46. Barron, S., White, A., Swartzwelder, A., Bell, R.L., Rodd, Z.A., Slawecki, C.J., Ehlers, C.L., Levin, E.D., Rezvani, A.H., Spear, L.P. (2005) Adolescent vulnerabilities to chronic alcohol or nicotine exposure: Findings from rodent models. Alcoholism: Clinical and Experimental Research 29:1720-1725. PMID: 16205372.

47. Mello, C.F., Rubin, M.A., Sultana, R., Barron, S., Littleton, J.M., Butterfield, D.A. (2007) Difluoromethylornithine (DFMO) prevents protein oxidation induced by neonatal ethanol exposure in the hippocampus of young rats. Alcoholism: Clinical and Experimental Research 31:887-894. PMID: 17386069.

48.Littleton, J.M., Barron, S., Nixon, S.J., and Prendergast, M. (2007) Smoking kills alcoholics! Shouldn’t we do something about it? Alcohol and Alcoholism 42(3):167-73. PMID: 17526626.

49. Farook, J.M., Morrell, D.J, Lewis, B., Littleton, J.M., Barron, S.(2007) Topiramate (Topamax®) reduces conditioned abstinence behaviors and handing induced convulsions (HIC) after chronic administration of ethanol in Swiss-Webster mice. Alcohol and Alcoholism 42:296-300. PMID: 17548369.

50. Lewis, B., Wellmann, K., Barron, S. (2007) Agmatine reduces balance deficits in a rat model of third trimester binge-like alcohol exposure. Pharmacology, Biochemistry and Behavior 88:114-21. PMID: 17714770.

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55. Rubin, M.A., Overgaauw, B.O., Wellmann, K.A. Lewis, J.B., Littleton, J.M., Barron, S. (2009) Difluoromethylornithine (DFMO) reduces deficits in isolation-induced ultrasonic vocalizations and balance following neonatal ethanol exposure in rats. Pharmacology, Biochemistry and Behavior, 92:44-50. PMID: 1899227

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66. Barron, S., Hawkey, A., Fields, L., Littleton, J. (2016) Animal models for medication development and application to treat fetal alcohol effects. International Reviews Neurobiology. 126:423-40. PMID: 27055621.

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**In preparation:**

Carter, M., Lewis, B., Wellmann, K., Fields, L., Hawkey, A., Littleton, J.M., Barron, S. Pre-exposure to ethanol sensitizes the developing brain to a mild hypoxic challenge Revision in progress.

Wellmann, K.A., Lewis, B., Carter, M. L. and Barron, S. Neonatal ethanol exposure alters ultrasonic vocalizations in neonatal and periadolescent rats; Agmatine reduces these deficits. Revision in progress.

**INVITED PRESENTATIONS AND POSTERS**

Barron, S., and Riley, E.P. Effect of prenatal alcohol exposure on spontaneous maternal behavior in adult male and juvenile female rats. Presented at Behavioral Teratology, 1984. Abstract published in Teratology, 29:3B‑4B.

Barron, S., and Riley, E.P. The effects of deanol on activity levels of rats prenatally exposed to alcohol. Presented at Eastern Psychological Association, 1984.

Smotherman W.P., Woodruff, K.S., Robinson, S.R., del Real, C., Barron, S., and Riley, E.P. In utero exposure to alcohol induces changes in fetal behavior. Presented at Society for Neuroscience, 1984.

Barron, S., Mattson, S., and Riley, E.P. The effects of prenatal alcohol exposure on long‑term retention of odor aversion learning in preweanling rats. Presented at Eastern Psychological Association, 1985.

Barron, S., and Riley, E.P. The effects of prenatal alcohol exposure on odor aversion learning in preweanling rats. Presented at Research Society on Alcoholism, 1985. Abstract published in Alcoholism: Clinical and Experimental Research, 9:193.

Barron, S., Riley, E.P., Smotherman, W.P., and Kotch, L.E. Umbilical cord length in rats is altered by prenatal alcohol exposure. Presented at Teratology, 1985. Abstract published in Teratology, 31:2B.

Smotherman, W.P., Woodruff, K.S., Robinson, S.R., del Real, C., Barron, S., and Riley, E.P. In utero alcohol exposure suppresses spontaneous behavior of rat fetuses in utero. Presented at Research Society on Alcoholism, 1985. Abstract published in Alcoholism: Clinical and Experimental Research, 9:212.

Barron, S., Gagnon, W., Tieman, S.B., and Riley, E.P. The effects of prenatal alcohol exposure on the volume of the sexually dimorphic nucleus of the hypothalamus in male and female rats. Presented at the 3rd Congress of the International Society for Biomedical Research on Alcoholism, 1986. Abstract published in Alcohol and Alcoholism 21:A46.

Barron, S., Gagnon, W., and Riley, E.P. The effects of prenatal alcohol exposure on respiration rate and habituation to a novel odor in neonatal rats. Presented at Society for Neuroscience, 1986.

Barron, S. The Effects of Prenatal Alcohol Exposure on the CNS: A Round‑table Discussion. Invited address at the Hudson‑Berkshire Chapter Meeting of the Society for Neuroscience, February, 1987.

Barron, S., Zimmerberg, B., Gagnon, W., and Riley, E.P. Respiration and thermoregulation in neonatal pups exposed to alcohol in utero. Presented at Research Society on Alcoholism, 1987. Abstract published in Alcoholism: Clinical and Experimental Research.

Barron, S., Tieman, S.B. and Riley, E.P. A further examination of the effects of prenatal alcohol exposure on the sexually dimorphic nucleus of the hypothalamus in male and female rats. Presented at Society for Neuroscience, 1987.

Barron, S., Gagnon, W. and Riley, E.P. The effects of prenatal alcohol exposure on the main olfactory bulb and vomeronasal organ in 3‑day‑old rats. Presented at the 4th Congress of the International Society for Biomedical Research on Alcoholism, 1988.

Barron, S. and Riley, E.P. The effects of prenatal alcohol exposure on the leg extension response in neonatal rat pups. Presented at Research Society on Alcoholism, 1988. Alcoholism: Clinical and Experimental Research, 12:342.

Barron, S., Foss, J.A., and Riley, E.P. Habituation and sensitization to a startle response in rats following neonatal alcohol exposure. Presented at Research Society on Alcoholism, 1988. Alcoholism: Clinical and Experimental Research, 12:344.

Barron, S. and Riley, E.P. Neonatal alcohol exposure alters passive avoidance performance in female but not male rats. Presented at the Second National Conference on Alcohol Abuse and Alcoholism, 1988.

Barron, S., Kelly, S.J. and Riley, E.P. The effects of neonatal alcohol exposure on suckling performance in rat pups. Poster presented at Research Society on Alcoholism, 1989. Abstract published in Alcoholism: Clinical and Experimental Research, 13:319.

Barron, S.Sex Differences in Alcohol Effects on Non-reproductive Behaviors. Invited address at Research Society on Alcoholism, 1989.

Barron, S. Prenatal Exposure to Alcohol. Fall 1989 Speaker Series, Psychology Department, San Diego State University.

Barron, S., Henderson, S. and Riley, E.P. The effects of prenatal alcohol exposure on fetal movements in rats. Presented at Research Society on Alcoholism, June 1991. Abstract published in Alcoholism: Clinical and Experimental Research.

Barron, S., and Pargeon, J. Third trimester cocaine exposure in rats and motor performance. Presented at the Committee on Problems of Drug Dependence, June 1991.

Barron, S. Rodent models of prenatal drug effects. Presented at Oregon Health Science University, Department of Medical Psychology, Portland Oregon, June 1992.

Barron, S., Nowakowski, A.M., and Riley, E.P. Activity following third trimester alcohol exposure in P and NP rats. Presented at the International Society for Biomedical Research on Alcoholism, 1992. Abstract published in Alcoholism: Clinical and Experimental Research 16:611.

Barron, S., Kaiser, D.H., Spalmacin, K., and Hansen, L.S. Activity and responsivity to cocaine following third trimester cocaine exposure in rats. Presented at Neuroscience meeting, 1992. Abstract published in Society for Neuroscience Abstracts 18:366.

Barron, S., Hansen, L.H., Kaiser, D.H., Massey, K., and Stone, M. Motor performance following neonatal exposure to ethanol, cocaine, or ethanol/cocaine in rats. Presented as a poster at Research Society on Alcoholism, Summer, 1993.

Barron, S. Rodent models of prenatal alcohol and cocaine effects. Department of Pharmacology Seminar Series, Summer 1993.

Barron. S., and Pargeon, J. A rodent model to look at the effects of third trimester cocaine exposure. Presented at the 11th International Neurotoxicology Conference, September 1993.

Barron, S., Hansen, L.S. and Kaiser, D.H. Developmental measures following neonatal exposure to ethanol, cocaine or ethanol/cocaine in rats. Presented at Research Society on Alcoholism, Summer 1994.

Barron, S., Kaiser, D.H., Harrod, S.B. and Hansen, L.S. Problem solving following neonatal exposure to ethanol, cocaine, or ethanol/cocaine in rats. Presented at the International Society for Biomedical Research on Alcoholism, Summer 1994.

Kaiser, D.H., Robinet, P., Bardo, M.T., and Barron, S. The effect of neonatal cocaine exposure on dopamine receptor binding and D2 mediated behavior. Presented at Society for Neuroscience, 1994

Hansen, L.S., Segar, T. and Barron, S. Neonatal alcohol, cocaine or alcohol/cocaine effects on a runway task in young rats. Presented at Society for Neuroscience, 1994.

Barron, S. The effects of neonatal cocaine exposure. Graduate Center for Toxicology Seminar Series, Spring, 1995.

Belcheva, M.M., Ho, M.T., Ignatova, E., Jefcoat, L.B., Barg, J., Vogel, Z., Johnson, F.E., Barron, S., Coscia, C. Buprenorphine induced opioid receptor adaptation: Evidence from cross-linking and binding assays.

Trench, L.S. , Segar, T.M. , Swope, J.A. , and Barron, S. Effects of prenatal buprenorphine on maternal and offspring measures in rats. Presented at Society for Neuroscience, 1995.

Swope, J.A. , Segar, T.M. , Trench, L.S., and Barron, S. The effects of neonatal cocaine exposure on acquisition of a runway task in a modified T-maze. Presented at Society for Neuroscience, 1995.

Barron, S. and Chung, V.M.The effects of prenatal buprenorphine exposure on sexual differentiation in the rat. Presented at the International Society for Developmental Psychobiology, 1995.

Trench, L.S., Segar, T.M., Barron, S. Effects of postnatal cocaine exposure on activity in a running wheel. Presented at MPA, 1996

Willford, J.A., Trench, L.S., Segar, T.M., Bonta, T.N. and Barron, S. Effects of neonatal cocaine exposure on a play rewarded spatial discrimination in rats. Presented at MPA, 1996.

Segar, T.M.and Barron, S. Effects of neonatal cocaine exposure on saccharin consumption in rats. Presented at MPA, 1996.

Willford, J.A., Withers, A., and Barron, S. Effects of neonatal cocaine exposure on behavioral respons to a novel odor in an open field. Presented at Neuroscience, 1996.

Trench, L.S., Staton, C.M., and Barron, S. Effects of neonatal cocaine exposure on behavioral response to clonidine in rats. Presented at Neuroscience, 1996.

Segar, T.M., Hauser, K.F., and Barron, S. Neonatal cocaine exposure effects on the volume of the sexually dimorphic nucleus of the preoptic area. Presented at Neuroscience, 1996.

Barron, S., Shepherd, A.B., Segar, T.M., Trench, L.S.and Willford, J.A. Isolation-induced ultrasonic vocalizations following neonatal exposure to ethanol, cocaine or ethanol and cocaine in combination in young rat pups. Presented at the International Behavioral Neuroscience Society Meeting, 1997.

Trench, L.S., Witte, S. and Barron, S. Neonatal exposure to alcohol, cocaine or the combination: Effects on response to behavioral stress in rats. Presented at the Neurobehavioral Teratology Society Meeting, 1997.

Segar, T.M., Bardo, M.T., Klebaur, J. and Barron, S. Deficits in the acquisition of a fixed ratio schedule in rats neonatally exposed to ethanol and cocaine. Presented at the Research Society on Alcoholism, 1997.

Willford, J.A., Barron, S., Hauser, K.F. The effects of neonatal cocaine, alcohol or the combination on dendritic spine density in the cerebellum. Presented at the Research Society on Alcoholism, 1997.

Segar, T.M., Bardo, M.T., Klebaur, J., Barron, S. Response to acute cocaine exposure in adult male rats neonatally exposed to ethanol and/or cocaine. Presented at the Research Society on Alcoholism Meeting, 1998.

Willford, J.A., Webb, C., Deveraux, A., Kraemer, P. and Barron, S. Effects of alcohol, cocaine or alcohol/cocaine in combination on performance of a cognitive timing task - a pilot study. Presented at Research Society on Alcoholism Meeting, 1998.

Barron, S., Segar, T.M.and Massey, J. Neonatal ethanol or ethanol/cocaine exposure reduces isolation-induced ultrasonic vocalizations in young rat pups. Presented at International Society for Biomedical Research on Alcoholism, 1998.

Willford, J.A. and Barron, S. The effects of neonatal exposure to alcohol, cocaine or alcohol/cocaine in combnation on dominance behavior. Presented at International Society for Biomedical Research on Alcoholism, 1998.

Segar, T.M., Bardo, M.T., Klebaur, J., and Barron, S. Cocaine-self administration in adult male rats neonatally exposed to ethanol and/or cocaine. Presented at Society of Neuroscience, 1998.

Willford, J.A., Segar, T.M., Basehart, B.J., Dickey, K.M. and Barron, S. Effects of perinatal fembendazole exposure on growth and behavior parameters in rats. Presented at Society of Neuroscience, 1998.

Using a rodent model to study the behavioral effects of ethanol and cocaine during development. Invited address at Indiana University/Purdue University at Indianapolis, 1998.

Barron, S. New Research and Issues related to Alcohol, Polydrug Exposure and Development. Organizer and chair of symposium at the Research Society on Alcoholism Meeting, 1998.

Barron, S. Ethanol and cocaine interactions during development in a rodent model. Oral presentation at the Research Society on Alcoholism Meeting, 1998.

Yanai, J., Barron, S., and Steingart, R.A. Prenatal heroin-induced hippocampal behavioral deficits and cholinergic alterations: reversal by neural grafting and correlation within individuals. Presented at the Neurobehavioral Teratology Society Meeting, 1999.

Segar, T.M., Willford, J.A. and Barron, S. Manipulations of an environmental cue does not increase ultrasonic vocalizations in young rat pups neonatally exposed to ethanol. Presented at the Research Society on Alcoholism Meeting, 1999.

Willford, J.A., Victor, T.L., Segar, T.M., Baseheart, B.J. and Barron, S. Effects of neonatal alcohol and/or cocaine exposure on Morris Water Maze performance in young adult rats. Presented at the Research Society on Alcoholism Meeting, 1999.

Willford, J.A., Segar, T.M., Basehart, B.J. and Barron, S. Effects of neonatal alcohol and/or cocaine exposure on learning and play behavior in a spatial discrimination task in rats. Presented at Society for Neuroscience, 1999.

Barron, S. Cocaine and Alcohol Interactions During Development in Rats: A Behavioral Analysis. Seminar in Department of Pharmacology, University of Kentucky, 1999.

Rogers, D.T.R., Barron, S., Prendergast, M. and Littleton, J. Nicotine effectively reverses hyperalgesia associated with intermittent ethanol treatment of neonatal rats by intragastric intubation. Presented at the Research Society on Alcoholism Meeting, 2000.

Segar, T.M., Bardo, M.T. and Barron, S. Neonatal ethanol exposure increases responding for sucrose pellets on a progressive ratio schedule in adult rats. Presented at the Research Society on Alcoholism Meeting, 2000

Segar, T.M., Bardo, M.T., and Barron, S. Neonatal cocaine exposure increases the reinforcing effects of cocaine in adult male rats as measured by progressive ratio. Presented at Society of Neuroscience, 2000.

Yahr, J.S., Baseheart, B.J., Land, C.L., Akamatsu, T., Yan, H.Y., and Barron, S. An examination of the types of ultrasonic vocalizations displayed by neonatal rats. Presented at Society of Neuroscience, 2000.

Barron, S. Baseheart,  B., Yahr, J. and Littleton, J.M. Does Agmatine play a protective role in the effects of neonatal alcohol exposure? Presented at Society of Neuroscience, 2001.

Willford, J., Baseheart, B., Sachs, B., Christianson, S. Deveraux, A. & Barron, S. Effects of neonatal alcohol, cocaine or alcohol/cocaine on cognitive function as measured by timing behavior in adult rats. Presented at Research Society on Alcoholism, 2001.

Direct Dosing of Preweaning Rodents. Part of International Life Sciences Institute Symposium. Presented at Teratology meeting, June, 2002.

Developmental Alterations in NMDA Receptor-Mediated Neurotoxicity: Implications for Perinatal Alcohol Exposure and Therapy. Invited Presentation for RSA Satellite Symposium: Experimental Therapeutics for Fetal Alcohol Syndrome, June, 2002.

Littleton, J.M., Barron, S., Crooks, P. Drug screening for potential value in alcohol dependence. Presented at the Research Society on Alcoholism Meeting, June, 2002.

Gilbertson, R.J., Barron, S., Baseheart, B.J., Bryant, S.A., and Littleton, J.M. The effects of neonatal ethanol and ifenprodil exposure on a spatial memory task. Presented at the Research Society on Alcoholism Meeting, June, 2002.

Morrell, D.J., Stilz, C.M., Stevens, C.L., Gilbertson, R.J., Littleton, J.M., and Barron, S. Acamprosate reduces ethanol consumption using an accelerated sucrose-fading schedule. Presented at the Research Society on Alcoholism Meeting, 2003. Alcoholism: Clinical and Experimental Research 27: 62A.

Gilbertson, R.J., Rogers, D.T., Barron, S., and Littleton, J.M. Nicotine levels in neonatal rat brain following oral administration alone or in combination with ethanol. Presented at the Research Society on Alcoholism Meeting, 2003. Alcoholism: Clinical and Experimental Research 27: 45A.

Invited Presentation: Oregon Health Science University, Department of Biomedical Psychology, Spring 2003.

Gibson, D.A., Morrell, D.J., Littleton, J.M., and Barron, S. Validation and use of a simple screen for testing novel compounds on ethanol withdrawal-induced seizures. Presented at the Research Society on Alcoholism Meeting, 2003. Alcoholism: Clinical and Experimental Research 27: 99A.

Gilbertson, R.J., Barron, S., and Stilz, C.M. The effects of neonatal ethanol and nicotine exposure on spatial learning and memory. Presented at the Neuroscience Society Meeting, 2003.

Stepanyan, T., Harris, B., Barron, S., Blanchard, J., Holley, R., Hadley, R., Littleton, J.M. Potential interactions between prior ethanol exposure and hypoxia/hypoglycemia-induced neurotoxicity In organotypic hippocampal slice cultures. Presented at the Research Society on Alcoholism Meeting, June, 2004.

Gilbertson, R.J., Barron, S. The effects of neonatal ethanol and nicotine exposure on radial arm maze performance in rats. Presented at the Midwestern Psychological Association Meeting, 2004.

Gilbertson, R.J., Barron, S., Stilz, C., Schulman, D., Stevens, C., Lewis, K. Littleton, J.M., Gender differences in alcohol consumption during adolescence as assessed by a sucrose fading/ alcohol deprivation effect paradigm. Presented at Research Society on Alcoholism Meeting, June, 2004.

Is adolescence special? Possible age-related vulnerabilities to chronic alcohol or nicotine exposure. A Joint Symposium for the Fetal Alcohol Syndrome Study Group and the Neurobehavioral Teratology Society. Co-organizer of Symposium presented at the Research Society on Alcoholism, 2004.

Barron, S., Prendergast, M.A., Mulholland, P.J., Littleton, J.M. Further evidence that polyamines contribute to ethanol withdrawal neurotoxicity in the neonatal rat organotypic hippocampal slice preparation. Oral presentation, Society for Neuroscience, 2004.

Stepanyan, T., Harris, B., Barron, S., Blanchard, J., Holley, R., Hadley, R., Littleton, J. Pharmacological modification of neuronal damage in a model of perinatal alcohol exposure. Presented at RSA, 2005.

Stewart, W.A., Mulholland, P.J., Prendergast, M.A. ,Littleton, J.M., and Barron, S. Possible developmental differences in sensitivity to ethanol withdrawal induced neurotoxicity using an organotypic hippocampal culture model.  Presented at the Research Society on Alcoholism Meeting, 2005.

Wellmann, K.A., Stewart, W.A., Littleton, J.M., and Barron, S. Critical windows for neonatal ethanol’s effects on isolation-induced ultrasonic vocalizations in rat pups. Presented at the Research Society on Alcoholism Meeting, 2005.

Wellmann, K.A., Morrell, D.J., Overgaauw, B.O. Alexander, J.L., and Barron, S.

Critical timing for neonatal ethanol’s effects on balance and the role of agmatine as a neuroprotective agent in juvenile rats. Presented at the International Society for Developmental Psychobiology, 2005.

Rubin M.A., Overgaauw B.O., Lewis J.B., Littleton, J.M. and Barron S. Difluoromethylornithine (DFMO) prevents the inhibitory effect of ethanol on isolation-induced ultrasonic vocalization. Presented at the Research Society on Alcoholism Meeting, 2006.

Wellmann, K.A. Lewis, J.B. Alexander, J.L. Overgaauw, B.O. and S. Barron,

Agmatine attenuates the effects of early neonatal ethanol exposure on 50 khz ultrasonic vocalizations in juvenile rats anticipating play. Presented at the Research Society on Alcoholism Meeting, 2006.

Farook, J.M. Bowling, E. Morrell, D.J. Estes, A. Littleton, J.M., Barron S. Topiramate, a novel anticonvulsant drug reduces handling induced convulsions (HIC), ethanol withdrawal signs and anxiety-related behaviors during ethanol withdrawal in Swiss-Webster mice. Presented at the Research Society on Alcoholism Meeting, 2006.

Lewis, B., Farook, J.M., Morell, D.J., Krazem, A., Littleton, J.M., Barron, S. A simple behavioral screen for anticonvulsant compounds using an ethanol withdrawal induced seizure model. Presented at the Research Society on Alcoholism Meeting, 2006.

Lewis, B., Wellmann, K.A., Rubin, M.A., and Barron, S. Balance deficits associated with neonatal ethanol exposure are attenuated by compounds known to modulate polyamine activity. Poster and talk presented at The International Society for Developmental Psychobiology, November, 2006. Abstract published in *Developmental Psychobiology 48,* 617.

Wellmann, K.A., Lewis, J.B., Estes, P.A., Carter, L., and Barron, S., Agmatine preferentially ameliorates activity deficits in juvenile female rats exposed to ethanol during the early postnatal period. Presented at The Research Society on Alcoholism Meeting, July 2007. Abstract published in Alcoholism: Clinical and Experimental Research 31:187A.

Hutton Kehrberg, A., Lewis, J.B., Farook, J.M., Wellmann, K.A., Littleton, J.M., and Barron, S. A novel compound, JR-220, reduces alcohol deprivation effects in rats. Presented at the Research Society on Alcoholism Meeting, July 2007. Abstract published in Alcoholism: Clinical and Experimental Research 31:140A.

Lewis, B., Wellmann, K.A., Barron, S. Balance deficits associated with neonatal ethanol exposure are attenuated by the NMDA antagonist CP-101,606. Presented at the Research Society on Alcoholism Meeting, July 2007. Abstract published in Alcoholism: Clinical and Experimental Research 31:149A.

Stepanyan, T.D., Kowalski, A., Overgauuw, B., Lewis, B., Wellman, K., Barron, S., Littleton, J.M. Development of a model for effects of neonatal alcohol exposure and anoxia on rat behavior. Presented at the Research Society on Alcoholism Meeting, July 2007. Abstract published in Alcoholism: Clinical and Experimental Research 31:153A.

Farook J.M., Littleton, J.M. and Barron, S. Topiramate attenuates the increased consumption of alcohol in C57BL/6J mice following restraint. Presented at the Research Society on Alcoholism Meeting, July 2007. Abstract published in Alcoholism: Clinical and Experimental Research 31:207A.

Prendergast, M.A., Littleton, J.M., Barron, S. Sex differences and similarities in response to NMDA receptor modulators during alcohol withdrawal in vitro. Presented at the Research Society on Alcoholism Meeting, July 2007. Abstract published in Alcoholism: Clinical and Experimental Research 31:266A.

Ways to Reduce Alcohol's Effects on Brain and Behavior. Center for Drug Abuse Research Translation Research Forum, University of Kentucky, 2007.

Lewis, B., Wellmann, K.A., Cohen, M., Baldwin, T., S. Barron, S. Spatial navigation deficits associated with neonatal ethanol exposure are attenuated by the NMDA antagonist CP-101,606. Presented at the International Society for Developmental Psychobiology, 2007. Abstract published in Developmental Psychobiology 49:733.

Wellmann, K.A., Lewis, J.B., Hutton Kehrberg, A., Estes, P.A., Carter, L., Carter, M., and Barron, S. Acute agmatine administration during ethanol withdrawal ameliorates ultrasonic vocalization deficits in pups exposed to ethanol during the first neonatal week. Presented at the International Society for Developmental Psychobiology, 2007. Abstract published in Developmental Psychobiology 49:744.

Hutton Kehrberg, A., Wellmann, K.A., Lewis, B., Estes, A., ; Dwoskin, L.P., Barron, S. Lobeline reduces hyperactivity induced by neonatal alcohol exposure. Presented at the International Society for Develomental Psychobiology Meeting, 2007. Abstract published in Developmental Psychobiology 49: 729.

Littleton J., Barron S., Crooks P., Ring J., Sonar V., Holley R., Rogers D. T., Stepanyan T., Kaplan E., Kowalski A., Farook J., Lewis B., Hutton Kehrberg, A., Wellmann, K.A. The novel NMDA receptor modulator JR220 is positive in an entire anti-relapse screening hierarchy. Presented at the Joint International Society for Biomedical Research on Alcoholism and Research Society on Alcoholism Meeting, June, 2008. Published in Alcoholism: Clinical and Experimental Research 32:85A.

Wellmann, K.A., Lewis B., Kehrberg A.H., Carter M., Littleton J.M., and Barron, S.

JR-220, a novel polyamine antagonist, reduces ultrasonic vocalization deficits in infant rat pups following 3rd trimester ethanol exposure. Presented at the Joint International Society for Biomedical Research on Alcoholism and Research Society on Alcoholism Meeting, June, 2008. Published in Alcoholism: Clinical and Experimental Research 32:138A.

Farook, J.M., Lewis, B., Littleton, J.M., Barron, S. Lobeline attenuates alcohol consumption in C57BL/6J mice using a 2-choice test procedure. Presented at the Joint International Society for Biomedical Research on Alcoholism and Research Society on Alcoholism Meeting, June, 2008. Published in Alcoholism: Clinical and Experimental Research 32:217A.

Lewis B., Wellmann, K.A., Kehrberg, A.H., Carter L.G., Littleton J.M., Barron, S. Hippocampal damage associated with early ethanol exposure is attenuated by the NR2B subunit-specific NMDA receptor antagonist CP-101,606. Presented at the Joint International Society for Biomedical Research on Alcoholism and Research Society on Alcoholism Meeting, June, 2008. Published in Alcoholism: Clinical and Experimental Research 32:230A.

K.A. Wellmann, K.A., Lewis, B. Kehrberg, A.H. Carter, M. Carter, L. Littleton J.M. and S. Barron. JR-220, a novel polyamine blocker, reduces spatial memory deficits in juvenile rat pups following “3rd trimester” ethanol exposure. Presented at the Fetal Alcohol Spectrum Disorder Study Group Meeting, 2008 (and recipient of an FASDSG travel award).

Manipulation of polyamine and NMDAR activity can reduce alcohol's effects. UK Neuroscience Seminar Series, 2008.

Rubin, M.A., Gomes, G.M., DaRosa, M.M., Barron, S. and Mello, C.F. Polyaminergic agents modulate extinction of conditioned fear in rats. Presented at the Annual Neuroscience Meeting, 2008.

Wellmann, K.A., Lewis, B., Kehrberg, A.H., Carter, M., Carter, L., Littleton, J.M., Crooks, P. and Barron, S. JR-220, A novel compound, reduces spatial memory deficits in adolescent rats following “3rd trimester” ethanol exposure. Presented at the Annual Neuroscience Meeting, 2008.

Lewis, B., Farook, J.M., Wellmann, K, Crooks, P.A., Littleton, J.M., Barron, S. A novel compound, JR-220, reduces voluntary alcohol consumption in a limited-access "drinking in the dark" paradigm. Presented at the Annual Neuroscience Meeting, 2008.

Farook, J.M., Lewis, B., Littleton, J.M., Barron, S. Nicotinic agents attenuate initial alcohol consumption in C57BL/6J mice on a 2-choice drinking procedure. Presented at the Annual Neuroscience Meeting, 2008.

A. Hutton Kehrberg, A., Carter, L., Wellmann, K.A., Prendergast, M.A., Littleton, J.M., Barron, S. A novel compound, JR-220, reduces ethanol withdrawal-induced neurotoxicity in organotypic hippocampal slice cultures. Presented at the Annual Neuroscience Meeting, 2008.

Sithisarn, T., Barron, S., Wellmann, K., Legan, S., Bada , H.S., Charnigo, R., Randall, D.C. Effects of Prenatal oxycodone exposure on the cardiovascular response to acute stress and neurobehavioral outcome in the offspring. Southern Society of Pediatric Research Meeting, 2008.

Lewis, B., Wellmann, K.A., Song, Y.M. Barron, S. Environmental enrichment affects motor coordination and voluntary ethanol consumption in a rodent model of 3rd trimester ethanol exposure. Presented at the Research Society on Alcoholism Meeting, 2009.

Wellmann, K.A., Lewis, B., Kehrberg, A.H., Carter M., Carter., L., Littleton J.M, Crooks, P., and Barron S. JR220, a novel compound reduces social, locomotor, balance, and memory deficits in rats following “3rd trimester” ethanol exposure. Presented at the Research Society on Alcoholism Meeting, 2009.

Wellmann, K.A., Lewis, B., Carter, L., Carter, M., Dwoskin L., and Barron S. Lobeline dose-dependently attenuates hyperactivity in a rodent model of third trimester ethanol exposure. Presented at the International Developmental Psychobiology Society Conference, 2009.

Invited Presentation – 2010 Muskingham University Annual Psychology/ Neuroscience Lecture; What do we know about prenatal alcohol exposure:  Data from human studies and preclinical models.

Lewis, B., Wellmann, K.A., Carter, M. and Barron, S. Chronic neonatal ethanol exposure sensitizes the CA1 hippocampal region to hypoxia-induced cellular damage *in vitro.* Presented at Society for Neuroscience 2010.

Symposium Title: Treatments for Fetal Alcohol Spectrum Disorders: Novel pharmacological, nutritional, and environmental Interventions from basic science

Organizers: Susan Barron, Ph.D. and Jennifer Thomas, Ph.D. Presented at International Society for Developmental Psychobiology Meeting, Paris, France, 2010.

Barron, S., Wellmann, K.A., Lewis, B., Carter, L., Carter, M. Blockade or reduction of polyamines improves outcome following neonatal ethanol exposure in rats. Presented at International Society for Developmental Psychobiology Meeting, 2010.

Wellmann, K.A., Lewis, B., Carter, M., Kremer, N., Barron, S. Chronic administration of ethanol increases polyamine levels in the rat brain during ethanol withdrawal using a “3rd trimester” ethanol exposure model. Presented at RSA, 2011.

Carter, M., Lewis, B., Wellmann, K., Kremer, N., Barron, S. Adding insult to Injury: Hypoxia following ethanol exposure produces multiplicative damage *in vitro.*  Presented at RSA, 2011.

Carter M., Lewis B., Wellmann K., Prendergast, M., Barron, S. Understanding the effects of hypoxia in combination with ethanol withdrawal in vitro. Presented at RSA, 2012.

Fields, L. Carter, M. Hawkey, A. Kem, W.E.& Barron S. Dimextoxybenzylidene (DMXB) reduces balance deficits following “3rd trimester” ethanol exposure in female but not male rats. Presented at RSA, 2013.

Carter, M., Fields, L., Hawkey, A., Barron, S. The combination of ETOH and hypoxia produces behavioral deficits in a 3rd trimester rodent model. Presented at RSA, 2013.

Hawkey, A. Gupta, R. Carter, M. Fields, L. Barron, S. Exploring the effects of developmental alcohol exposure in the absence of sensory preexposure on adolescent drinking in rats. Presented at RSA, 2014.

Fields, L. Carter, M. Hawkey, A. Lutz, J.A. Kem W. R., Barron, S. DMXB-A reduces cell damage following developmental ETOH exposure in a rodent hippocampal slice model. Presented at RSA, 2014.

Carter, M. Fields, L. Hawkey, A. Littleton J. M., Barron, S. The effects of NMDA receptor modulation on cell damage following developmental ethanol and hypoxia exposure. Presented at RSA, 2014.

Hawkey, A., Gupta, R., Carter, M., Fields L., Barron, S. Sex differences in body weight and ethanol consumption in adolescent rats. Presented at Southeastern Association for Behavior Analysis Meeting, 2014.

Hawkey, A., Xu, W., Li, H., Fields, L., Carter, M., Luo, J., Chen, G., Barron, S. Consequences of prenatal drinking-in-the-dark (DID) and neonatal ethanol intubation on exploration in juvenile mice. Presented at RSA, 2015.

Fields, L., Carter, M., Hawkey, A., Littleton, J.M., Barron, S. Sex differences in the protective effects of DMXB-A following 3rd trimester ethanol exposure in a rodent model. Presented at RSA, 2015.

Fields, L., Hawkey, A., Mirsky, B., Gonzalez, E., Littleton, J.M., Barron, S. Lack of conditioned place preference by two natural products with potential value in alcohol use disorders. Presented at Research Society on Alcoholism Meeting, 2016.

Hawkey, A., Daniels, M., Xu, W. Li, H., Fields, L., Chen, G., and Barron, S. Hyperactivity and habituation in a novel mouse model of fetal alcohol spectrum disorders. Presented at Society on Quantitative Analysis of Behavior, 2016

Fields, L, Hawkey, A., Littleton, J.M., Barron, S. The protective effects of flavonoids from the goldenrod, *Solidago* Nemoralis, on male and female rodents following 3rd trimester ethanol exposure. Presented at the Research Society on Alcoholism Meeting, 2017.

Fields, L, Hawkey, A., Littleton, J.M., Barron, S. The protective effects of flavonoids from the golden rod, *Solidago nemoralis*, in 3rd trimester ethanol exposed rodents in the attentional set shifting task. Presented at the Research Society on Alcoholism Meeting, 2018.

**Previous Laboratory Members**

**Visiting Scientists**

Dr. Maribel A. Rubin- Department of Chemistry, Center of Exact and Natural Sciences,

Universidade Federal de Santa Maria, UFSM, Santa Maria, 97105-900 RS,

Brazil, visiting 2006-2007

**Postdoctoral Scientists**

Dr. Justin Farook –2005- 2009; moved to Florida State University with Dr. Mohamed

Kabbaj

Dr. Ana Kehrberg – 2006 – 2008; recipient of NIDA training postdoctoral funding from NIDA training grant through Behavioral Sciences; currently Assistant Professor at Muskingham College (tenure track)

Dr. Ali Krazem- 2005-2006

Dr. Maribel Rubin – visiting scientist 2005-2006; primary appointment, Federal

University of Santa Maria in Rio Grande do Sul, Brazil

**Previous Graduate Students**

Logan Fields, defended 2018, currently visiting professor, Arcadia University

Andrew Hawkey , defended Ph.D. 2017, currently postdoctoral fellow, Duke University

Megan Carter, defended 2015, currently in certification program for clinical psychology

Kristen Wellmann, defended 2012, currently postdoctoral fellow, University of Baltimore

Ben Lewis, defended 2012, Department of Psychiatry, Assistant Professor, University of Florida

Rebecca Gilbertson, Assistant Professor, Department of Psychology, University of

Minnesota, Duluth

Jennifer Willford, defended 2000, faculty, Associate Professor, Psychology Department,

Slippery Rock University

Lynne Trench, faculty, Professor, Department of Psychology, Birmingham Southern

**Graduate Student Awards (non-federal):**

Research Society on Alcoholism Graduate Student Travel Award, Logan Fields, 2014, 2015, 2016, 2017

American Psychological Association Division 28, Outstanding Research Society on Alcoholism 2010 Enoch Gordis finalist for outstanding research (winner to be determined at the RSA meeting in June), Ben Lewis.

Research Society on Alcoholism 2009 Enoch Gordis Award for outstanding research, Kristen Wellmann

Research Society on Alcoholism Graduate Student Travel Award, Kristen Wellmann, 2005, 2006, 2007, 2008, 2009

Fetal Alcohol Syndrome Study Group Outstanding Graduate Student Research/Travel Award, Kristen Wellmann, 2008

Research Society on Alcoholism Graduate Student Travel Award, Ben Lewis, 2006, 2007, 2008, 2009

International Society for Developmental Psychobiology, Graduate Student Travel

Award, Kristen Wellman, 2005, 2007

International Society for Developmental Psychobiology, Graduate Student Travel

Award, Ben Lewis, 2006, 2007

Research Society on Alcoholism Student Travel Award, Rebecca Gilbertson, 2003,

2004

Departmental Research Challenge Trust Fund Fellowship:Tracy Segar, 1998, Rebecca

Gilbertson, 2003.

Commonwealth Research Award, 1998, Jennifer Willford

Doctoral Dissertation Year Fellowship - Jennifer Willford, 1998-1999

Research Society on Alcoholism Student Travel Award, Tracy Segar, 1997, 1998

Research Society on Alcoholism Student Travel Award, Jennifer Willford, 1997, 1998

International Society for Biomedical Research on Alcoholism Student Travel Award,

Jennifer Willford, 1998

Doctoral Dissertation Year Fellowship - Lynne Hansen-Trench, 1996-1997

**Committees - Students:**

**Ph.D Committee Chair or Co-Chair**

Lynne Hansen – 1991- 1998

Jennifer Swope- 1994-2000

Tracy Segar

Kristen Wellmann – 2004-2011

Ben Lewis – 2005-2011

Megan Carter – 2010-2015

Andrew Hawkey- 2012-2017

Logan Fields – 2012-2018

**Ph.D. Committee Member**

James Rowlett- 1993, completed (Psychology)

Chris Randall- 1995, completed (Psychology)

Chantal Prewitt- 1996, completed (Anatomy and Neurobiology)

Patricia Robinet- 1998, completed (Psychology)

Daren Kaiser – 2000, completed (Psychology)

Russ Brown – 1998, completed (Psychology)

Jennifer Klebaur- 1999, completed (Psychology)

Janice Weaver, 2003, completed (Psychology)

Sherri Ballard – 1998 - external member –completed (Counseling and Educational

Psychology)

Yan Chen – 2005, completed (Anatomy and Neurobiology)

Maura Maple – 2003 - external member – completed - Biological Sciences

Patrick Mulholland – completed, 2005

Rachel Self – completed 2006

Swatee Dee – external member - completed, 2006

Xuan Nguyen – external member, Anatomy and Neurobiology- completed, 2007

Josh Eldridge – College of Pharmacy- defended April 2012

James Sonne- (Anatomy and Neurobiology) outside member- defended April 2013

Erin Abner (School of Public Health) – outside examiner- May 2013

Lauren Gilbert- quals completed, 2013

Karin Gill, 2014, committee member

Ginny Weiss, 2014, committee member

Jill Rogers, completed (School Psychology), outside examiner, 2016

Lu Dai, -Department of Toxicology, Ph.D. defense, 2017

Sarah Maggio, committee member, completed, summer, 2019

Abigail Love, outside examiner, summer 2019

Yongchao Wang, outside examiner

**Masters Thesis Advisor**

Daren Kaiser- 1994 -completed

Lynne Hansen- 1994- completed

Tracy Segar- 1996- completed

Jennifer Swope- 1997- completed

Becky Gilbertson- 2004- completed

Kristen Wellman- 2007-completed

Ben Lewis – 2008- completed

Megan Carter –2013- completed

Logan Fields- 2015- completed

**Masters Thesis Committee Member**

Joanne Valone- 1994 -completed

Isaac Caton- 1995 - completed

Patricia Robinet- 1994 - completed

Russell Brown- 1996- completed

Brenda Gehrke- 2001- completed

Patrick Mulholland – 2003 - completed

Emily Roach- 2003- completed

Rachel Self – 2003 - completed

Emily Harris – 2006- completed

Karin Shinker – 2010 - completed

Ginny Weiss - 2014

**395 Undergraduate Research Students – well over 150**

**PSY 495 Senior Honor Thesis Undergraduates**

Franki Chung - Fall '94, Spring '95 - recipient of Howard Hughes Undergraduate

Research Award

Michelle Staton- Fall '95, Spring '96 - recipient of Howard Hughes Undergraduate Research Award

Tara Victor - Fall ‘97, Spring ‘98 - recipient of Howard Hughes Undergraduate Research Award

Ben Fulton - 1999

Sarah Mills – 2003

Jaime Miller – 2011

Rekha Gupta – 2015

Alec Manual – 2015

Elaisy Gonzalez – 2016

Miranda Cruse – 2016

**Biology Honors Thesis**

Kari Beth Spencer

Suzanne Sizemore - 2004

Jennifer Glen – 2004

Keisha Simmons, 2006

**Funded UG student awards:**

STARS summer research funds

Kristi Kazimir, summer 2017

Natalie Malone, summer 2016

Miranda Cruse, summer 2016

Brittany Auvil, summer 2018

Research Creativity Award – summer stipend, Tori Votaw, Summer 2012.

Howard Hughes Undergraduate Research Award – “Possible effects of neonatal

cocaine and alcohol exposure on motor coordination and balance in rats”. Kelli

Massey, undergraduate, 1992-1993.

Howard Hughes Undergraduate Research Award – “The effects of prenatal

buprenorphine exposure on sexual differentiation in rats”. VuiMin Frankie

Chung, undergraduate, 1994-1995.

Howard Hughes Undergraduate Research Award – “Effects of clonidine on rat pups

exposed neonatally to cocaine”. Christa Michele Staton, undergraduate, 1995-

1996.

Howard Hughes Undergraduate Research Award – “The effects of neonatal cocaine

and alcohol exposure on the spatial memory of rats”. Tara Victor,

undergraduate, 1997-1998.