

CURRICULUM VITAE

SONYA KRISHNA SOBRIAN

1. GENERAL INFORMATION

Present Address: Department of Pharmacology
Howard University
College of Medicine
520 W Street, NW
Washington, DC 20059

Telephone: (202) 806-7901
FAX: (202) 806-4453
e-mail: ssobrian@howard.edu

Citizenship: United States of America

2. EDUCATIONAL BACKGROUND

1963-1967 **B.A.**, Psychology
St. John's University,
Jamaica, New York

1967-1970 **M.A.**, Experimental Psychology
St. John's University,
Jamaica, New York

1971-1973 **M.A. Equivalent**, Pharmacology
Ottawa University,
Ottawa, Ontario, Canada

1971-1975 **Ph.D.**, Physiological Psychology
Carleton University,
Ottawa, Ontario, Canada

1975-1977 **Postdoctoral Fellow**,
Developmental Neurobiology
Princeton University,
Princeton, New Jersey

3. RESEARCH AND ACADEMIC EXPERIENCE

Research

1967-1968 **Research Assistant**

Department of Pharmacology
St. John's University,
Jamaica, New York

1969-1971

Research Assistant
Psychophysiology Division
The Rockefeller University,
New York, New York

1971-1973

Research Assistant
Department of Psychology
Carleton University, Ottawa,
Ontario, Canada

1972-1975

Research Consultant
Department of Pharmacology
University of Ottawa,
Ontario, Canada

1975-1976

Research Fellow
Department of Psychology
Princeton University,
Princeton, New Jersey

1976-1977

Research Associate
Department of Psychology
Princeton University,
Princeton, New Jersey

1987 Jan.-Sept.

Visiting Fulbright Research Fellow
Immunology Research Center
Laboratory of Neuroimmunology
Belgrade, Yugoslavia

1992 June-Sept.

Visiting Research Scientist
National Center for Toxicological Research
Divisions of Reproductive and Developmental Toxicology
and Neurotoxicology
Jefferson, Arkansas

1994 August

ORISE Faculty Research Fellow
National Center for Toxicological Research
Division of Reproductive and Developmental Toxicology
Jefferson, Arkansas

1996 May-August

MIRT Visiting Research Scientist
Reproductive Biology Research Project
University of Sienna, Institute of General Biology
Sienna, Italy

Academic

1967-1969	Statistical Consultant Departments of Biology, Pharmacy and Psychology St. John's University, Jamaica, New York
1968-1969	Instructor St. John's Hospital School of Nursing Long Island, New York
1971-1974	Teaching Assistant Department of Psychology Carleton University, Ottawa, Ontario, Canada
1975-1977	Visiting Lecturer Department of Psychology Princeton University, Princeton, New Jersey
1977-1985	Assistant Professor Department of Pharmacology Howard University College of Medicine Washington, DC
1978-1985	Graduate Assistant Professor Department of Pharmacology Howard University Graduate School of Arts & Sciences Washington, DC
1985-present	Associate Professor Department of Pharmacology Howard University College of Medicine Washington, DC
1986-present	Graduate Associate Professor Department of Pharmacology Howard University Graduate School of Arts & Sciences Washington, DC
1987 Jan.-Sept.	Visiting Fulbright Lecturer

Immunology Research Center
Laboratory of Neuroimmunology
Belgrade, Yugoslavia

1989-present

Associate Professor
Department of Physician Assistants
Howard University
College of Allied Health Science
Washington, DC

4. **ADMINISTRATIVE EXPERIENCE**

1978-1979

Program Associate
Neurobiology Program and Psychobiology
Program, National Science Foundation,
Washington, D.C.

Description:

An Intergovernmental Personnel Act assignment involving the scientific review and administration of research proposals in developmental psychobiology, human and animal psychophysiology, animal social behavior and communication, the behavioral and pharmacological aspects of neurobiology.

1989-1991

Director
Medical Neuroscience Program
Howard University College of Medicine
Washington, DC

Description:

Directed and managed the medical Neuroscience course which involved responsibility for course content and the course syllabus, scheduling and testing, post-course evaluation reporting, and planning the course for future years.

1994-1995

Congressional Science and Technology Fellow
American Association for the Advancement of Science (AAAS)
U.S. House of Representatives
Washington, DC

Description:

Special legislative assistant and public policy analyst. Researched, developed and drafted legislation, speeches and press releases for The Honorable Joseph P. Kennedy II regarding a variety of alcohol-related issues, child welfare reform and adoption incentives, and elder health care

policy.

1998- Summer **Administrative Academy for Faculty Program**
Rust College
Holly Springs, MS

Description:

One of 14 participants in a two-week program of intensive lectures and workshops designed to prepare minorities for leadership positions in academic medicine by expanding, honing and utilizing skills and expertise in decision-making, program development, policy-setting and personnel and fiscal management.

1999-2000 **Director**
Behavioral Neuroscience Program
National Science Foundation

Description:

Direct and manage a \$5 million program which funds research on the neural mechanisms underlying behavior and learning. Develop new funding initiatives and represent the NSF on various interagency policy committees.

5. GRANT AND CONTRACT SUPPORT

Grants: (Funded)

Neurochemical Substrates of the Hyperactive Child Syndrome
National Science Foundation, #BRS-78-16520
1978-1981 (\$73,512)
Principal Investigator

Prenatal Anticonvulsant Exposure and Seizure Susceptibility
General Research Support Grant, Howard University,
#5SO7-RRO5361
1982-1983 (\$4,800)
Principal Investigator

Prenatal Anticonvulsant Epileptic Drug Exposure: A Genetic Model
Howard University Research and Development Grant
1983-1984 (\$10,095)
Principal Investigator

Prenatal AED Exposure and Seizure Susceptibility in Offspring
National Institutes of Health: NINCDS
#1-R01-NS20725-NEUA
1984-1989 (\$193,388)

Principal Investigator

Evaluation of the Interactive Effects of Prenatal Cocaine and Nicotine Exposure on Postnatal Development and Behavior in the Rat

National Center for Toxicological Research

#6842

May-Sept. 1993 (\$50,000)

Principal Investigator

Prenatal Maternal Stress as a Model of Depression

National Alliance for Research on Schizophrenia and Depression (NARSAD)

Independent Investigator Award

September 15, 1997-June 30, 2000 (\$99,604)

Principal Investigator

Prenatal Maternal Stress as a Model of Depression

National Alliance for Research on Schizophrenia and Depression

Research Partners Program

1997-1998 *L. Vernon Maddox Investigator*

Prenatal Alcohol: Effects on Central Dopamine Receptors

National Institutes of Health: NIAAA

U24 AA11898-01: Pilot Project #3

September 1, 1997-August 31, 2000 (\$110,543)

Principal Investigator

Neurobehavioral Effects of Prenatal Cocaine and Nicotine Exposure

National Institutes of Health: NIGMS

5 S06 GM08016-28: SubProject #3

August 1, 1998- July 31, 2003 (\$238,679:Yr 01)

Principal Investigator

Spontaneous Alternation as a Behavioral Screen for Mutant Mice

Functional Mouse Genomics Project at Oak Ridge National Laboratories

Tennessee Initiative on Mouse Studies

Sept. 1998- August, 2001 (\$40,000)

Behavioral Consultant

Prenatal Cocaine and/or Nicotine Exposure and Schizophrenia in Aging Rats

Eli Lilly & Company

January-December 2002 (\$12,500)

Principal Investigator

Longitudinal Neurochemical Effects of Prenatal Exposure to Cocaine and/or Nicotine

National Institutes of Health: NIGMS

5 S06 GM08016-28: Sub Project #5

August 1, 2003 - July 31, 2008 (\$155,978 Yr 01)

Principal Investigator

**Serotonergic Modulation of Hypercapnic Chemoresponsiveness of Locus Coeruleus
Respiratory Chemoreceptors in Prp57 Mice**

Howard University Health Sciences Seed Grant Program

July 1, 2010 - June 30, 2012 (\$25,000)

Co-Investigator

Postnatal Serotonergic Innervation of Cortex in the VPA Rodent Model of Autism

Howard University Health Sciences Seed Grant Program

July 1, 2010 - June 30, 2012 (\$25,000)

Co-Investigator

**The Role of Prenatal Environmental Stress (PENS) in the Etiology of Autism: An
Animal Model**

HUCM Bridge Funds and Pilot Study Awards Program

January 1, 2014 –December 31, 2014 (\$29,262)

Principal Investigator

**Multi- and Trans-Generational Inheritance of Addiction-like Behaviors Following
Prenatal Exposure to Synthetic Cannabinoids**

HUCM Bridge Funds and Pilot Study Awards Program

December 1, 2021 – November 30, 2023 (\$24,930)

Principal Investigator

Non-Academic

**Fulbright Association-National Capital Area Chapter Outreach, Mentoring and
Enrichment Grant: “The Global Fulbright Village: Role of a Local Chapter in the
Fulbright Community”**

U.S. Department of State

September 1, 2009-August 31, 2010 (\$6,500)

Principal Investigator

**Fulbright Association-National Capital Area Chapter Outreach, Mentoring and
Enrichment Grant: “Re-connect, Re-vitalize and Re-live Your Fulbright Experience”**

U.S. Department of State

September 1, 2010-August 31, 2011 (\$6,850)

Principal Investigator

Contracts: (Funded)

Phase I/II Clinical Evaluation of Antiepileptic Drugs

National Institutes of Health: NINDS

Master Agreement - 7/86-6/87

Co-investigator

Phase I/II Clinical Evaluation of Antiepileptic Drugs

National Institutes of Health: NINDS

Master Agreement - 7/87-6/91

Co-investigator

Granisetron and Ondansetron: Scientific Data Extraction

Science Applications International Corporation

10/90-9/92

Co-Investigator

Fellowships: (Funded)

Fulbright Research Fellowship

"Prenatal Stress and Immune Function in Offspring"

1/87-9/87

Immunology Research Center

Belgrade, Yugoslavia

Fulbright Travel Fellowship

Summer, 1990

Immunology Research Center

Belgrade, Yugoslavia

ORISE Faculty Research Participation Fellowship

August, 1994

National Center for Toxicological Research

Jefferson, AR

American Association for the Advancement of Science (AAAS) Congressional Science Fellowship

9/94 - 8/95

U.S. House of Representatives [Joseph P. Kennedy II (D-MA)]

Washington, DC

Fogarty International Faculty Exchange Research Fellowship

5/96 -8/96

Center for Germinal Cell Research

Siena, Italy

6. ACADEMIC AND RESEARCH AWARDS

National Science Foundation Traineeship

Epstein Scholarship

Carleton University Fellowship

Non-Medical Use of Drugs Directorate Research

Ontario Mental Health Research Studentship

Ontario Mental Health Postdoctoral Fellowship

Spencer Foundation Fellowship
Fulbright Scholar
Fulbright Travel Fellow
AAAS Congressional Science and Engineering Fellow

7. **PROFESSIONAL SOCIETIES AND POSITIONS**

Psi Chi
Sigma Xi
International Society for Developmental Psychobiology
Society for Neuroscience
The New York Academy of Sciences
American Psychological Association
Eastern Psychological Association
Neurobehavioral Teratology Society
International Society for Developmental Neuroscience
International Brain Research Organization
International Society for Immunopharmacology
International Society for Neuroimmunomodulation
International Society for the Investigation of Stress
Behavioral Toxicology Society
Society for Research on Nicotine and Tobacco
International Behavioral Neuroscience Society
International Drug Abuse Research Society
World Women in Neuroscience

Society for Neuroscience - Public Information Committee 1979-1982

Provided advisory services to the media concerning recent developments in the field of neuroscience. This included: (1) developing and implementing a system whereby media representatives in the field of biomedical science are directed to neuroscientists for assistance in the investigation of certain topics, (2) increasing opportunities for communication between clinical practitioners and neuroscientists by supplying relevant articles to appropriate journals, (3) scheduling press conferences at the annual Society for Neuroscience meeting, and (4) planning and conducting a Science Writers Seminar in an effort to provide state of the art knowledge of selected topics in neuroscience to journalists involved in reporting science.

Society for Neuroscience - Social Issues Committee 1983-1987

Recommended activities aimed at discussing and informing the membership as well as the public about social implications of neuroscience and the process and progress of research.

Neurobehavioral Teratology Society - Constitution and Bylaws Committee 1990-1993: Chairman 1992-1993

Suggested and formulated changes and/or revisions to the Constitution and Bylaws

of the Society.

**Neurobehavioral Teratology Society - Publication Committee
1993-1996**

Served on the Editorial Board of the Society's scientific journal, *Neurotoxicology and Teratology*.

**Neurobehavioral Teratology Society - Nominations Committee
1995-1998: Chairman 1998-1998
2001-2004**

Prepare slate of candidates for elective positions within the Society.

**Neurobehavioral Teratology Society - Social Issues Committee
1998-2000**

Determine the impact of science on the issues that impact the community.

**Neurobehavioral Teratology Society - President-Elect
1999-2000**

Publicize and arrange annual scientific meeting.

**Neurobehavioral Teratology Society - President
2000-2001**

Responsible for conduct of the Society's business, especially the annual scientific meeting.

**Neurobehavioral Teratology Society - Council
2005 -2008**

**Neurobehavioral Teratology Society - Editorial Broad- *Neurotoxicology and Teratology*
2004 -Present**

**American Psychological Association - Board of Scientific Affairs
1994-1998**

The Board is concerned with all aspects of psychology as a science, scientific aspects of the program at the Annual Convention, and psychology's relations with other scientific bodies. It has particular responsibility for liaison with agencies giving financial support to scientific projects, for awards and honors in recognition of scientific achievement, and for seeking new ways in which the Association can assist scientific activities.

**Association for the Assessment and Accreditation of Laboratory Animal Care International - Board of Trustees
1995-Present**

Promote high standards of animal care, use and well-being and enhance life sciences research and education through the accreditation process.

**Association for the Assessment and Accreditation of Laboratory Animal Care
International - Nominations Committee
1999-2002**

Prepared slate of candidates for elected positions within to the Board of Trustees.

**Association for the Assessment and Accreditation of Laboratory Animal Care
International - Board of Trustees, Executive Committee, Member-At-Large
1999-2000**

**Association for the Assessment and Accreditation of Laboratory Animal Care
International – Secretary, Board of Trustees
2000-2006**

**Association for the Assessment and Accreditation of Laboratory Animal Care
International - Vice-Chair, Board of Trustees
2006 -2009**

**Association for the Assessment and Accreditation of Laboratory Animal Care
International - Chair- Board of Trustees
2009-2011**

8. **SCIENTIFIC CONSULTANT**

a) **NIH Epilepsy Advisory Committee,
1980-1984**

The Committee provides assistance to the Director, NIH and to the NINDS in evaluating the overall existing research program relative to the epilepsies, in recommending means by which the deficiencies in this program can be obviated and in mounting of new clinical and basic research efforts.

b) **NIH Antiepileptic Drug Development Subcommittee,
1980 - 1990**

The subcommittee reviews and evaluates pre-clinical efficacy and toxicity data on new compounds from academic and commercial suppliers, recommends candidate substances for Phase I and Phase II clinical trials and evaluates these data with respect to the anti-convulsant activity.

c) **NIH Alcohol Biomedical Research Review Committee,
1980 - 1984**

The Committee is responsible for the scientific and technical merit and review of applications for research project grants and cooperative agreements, research center grants, Research Scientist Awards, fellowships, institutional research training grants, and research contract projects. The scientific areas covered in these applications are internal medicine, physiology, pharmacology, neuroscience,

biochemistry, genetics, endocrinology, behavior, and other related areas as they pertain to biomedical alcohol research. The Committee makes recommendations on applications which are given a final review and recommendation by the National Advisory Council on Alcohol Abuse and Alcoholism.

d) Environmental Protection Agency - Toxic Substance Control Act Advisory Committee, 1980 - 1981

The Committee evaluates Agency policy regarding implementation of the Toxic Substances Control Act and makes recommendations to the Assistant Administrator for Toxic Substances as it involves all aspects of the law, particularly in reference to testing, enforcement, pre-manufacturing of new chemicals, significant new uses for existing chemicals.

e) The United States Pharmacopeia - Convention Delegate, 1990 - 1995

Set a five-year agenda for drug formulation, dispensing, regulation and development. Devise a scheme for implementation of this plan.

f) ADAMHA - NIMH Mental Health Acquired Immunodeficiency Syndrome Review Committee: Psychological, Biological and Neuroscience Subcommittee 1990 -1994

This subcommittee evaluates applications that focus on basic research in psychoneuroimmunology, neuroimmunology, and neurology of AIDS development; clinical investigations of physiological, psychopharmacological, neurological, and basic behavioral effects of AIDS pharmacological agents; animal studies; and biologically oriented AIDS training programs.

g) ES, INC. 1990 - 1995

Provided training to health professionals on the prenatal and perinatal pharmacology of substances of abuse; developed and provided technical assistance for research grant applications involving *in utero* drug exposure and the consequences to the fetus and neonate.

h) National Institute of Mental Health Minority Neuroscience Fellowship Program Advisory Committee, 1991 - 1997; 1998-2000

Evaluates applications from graduate and medical students with respect to their potential for graduate study and a research career in neuroscience and selects

recipients of the fellowships.

- i) Association of American Medical Colleges
Group on Graduate Research, Education and Training (GREAT)
Member
1998-2001**

Provide a national forum for professional development and the exchange of information and ideas related to biomedical graduate education and training at academic medical centers.

- j) National Science Foundation
Science and Technology Centers Review Committee
2000**

Evaluate applications that combine basic research and educational activities to encourage technology transfer and innovative approaches to interdisciplinary activities.

- k) Environmental Protection Agency
Neurotoxicology Division Director Search Committee
2000-2001**

Suggest potential candidates, review credentials of applicants and make recommendations to the head of EPA regarding a new division director.

- l) American Association for the Advancement of Science (AAAS)
AAAS Congressional Science and Engineering Fellowship Program
Ad Hoc Fellowship Selection Committee
2000-2004 [Chair: 2004]**

Review documents, interview candidates and select the AAAS Science and Technology Congressional Fellows.

- m) National Institutes of Health
Biobehavioral Regulation, Learning and Ethology Initial Review Group
2001-2006**

Review research proposals for scientific merit.

- n) ILSI Risk Science Institute
Expert Panel: An Evaluation and Interpretation of Neurodevelopmental
Endpoints for Human Risk
2004**

Assess the lessons learned to-date from the implementation of standardized tests for developmental neurotoxicity in experimental animals, such as the U.S. EPA OPPTS Health Effects Test Guideline 870.6300 (Developmental Neurotoxicity Study) and similar protocols, and the subsequent application of test results to human

health risk assessment.

- o) **NIH: Minority/Disability Pre- and Post-doctoral Fellowships
Chair/Member of Review Panel
2003-Present**
Review the scientific merit of pre- and post-fellowships from a variety of neuroscience topics.
- p) **American Association for the Advancement of Science (AAAS)
AAAS Congressional Advisory Committee
2004 - 2014**
Establish policy and guidelines for the admission of scientific societies as sponsors of AAAS Congressional Fellows.
- q) **NIH: Center for Scientific Review
Panelist: CRS Peer Review Workshop
April, 2008**
Explore the process of how Scientific Review Officers train reviewers.
- r) **US EPA/OSCP
FIFRA Scientific Advisory Panel
Panelist: Evaluation of Common Mechanisms of Pyrethroid Insecticides
June, 2009**
- s) **US EPA/OSCP
FIFRA Scientific Advisory Panel
Panelist: Comparative Toxicity of Adults and Juveniles to Pyrethroids
July, 2010**
- t) **National Toxicology Program Board of Scientific Counselors
Department of Health and Human Services
Member: Advise the NPT Executive Committee on matters of scientific program
content
2011-2015**
- u) ***Neurotoxicology and Teratology*
Editorial Advisory Board
2014-2018
Guest Special Issue Editor: 2015-2016**
- v) ***Neurotoxicology and Teratology*
Section Editor: Neurotoxicology of Drugs
2018 - Present**
- w) **US EPA/OSCP
FIFRA Scientific Advisory Panel
2016 - Present**

- x) **Delaware State University/University of Delaware COBRE Grant**
External Advisory Committee
2012 - 2022
- y) **Toxicology Mentoring and Skills Development Training Program (ToxMSDT)**
External Advisory Committee
2020 - 2025
- z) **Health and Environmental Sciences Institute**
DART Committee Member
2020 - Current
- i) **National Fragile X Foundation**
Board of Directors: Member
2021 - Present

9. INVITED REVIEWER FOR:

Pharmacology, Biochemistry and Behavior
Physiology and Behavior
Aggressive Behavior
Neurotoxicology and Teratology
Developmental Psychobiology
Psychopharmacology
Brain Research
Brain Research Bulletin
Alcoholism Clinical and Experimental Research
Pharmacological Research
Behavioral Neuroscience
Biological Psychiatry
Therapeutic Advances in Cardiovascular Disease
Advances in Drug and Alcohol Research

Special Review Committees for:

National Institutes of Health
 National Institute of Mental Health
 Alcohol, Drug Abuse and Mental Health Administration
 National Science Foundation
 Environmental Protection Agency

10. EDITOR

Special Issue: “Developmental Marijuana”
Neurotoxicology and Teratology, vol. 58, Nov-Dec, 2016

Section Editor: Developmental Neurotoxicology:
Neurotoxicology and Teratology, 2018 – Present

Special Issue Guest Co-Editor: “Effects of Stress During Development on Neurobehavioral and Neuroendocrine Function”
Neurotoxicology and Teratology, July 1, 2023 – January 31, 2024

PUBLICATIONS

Zenhausern, R., Hansen, K. and **Sobrian, S. K.**: Order effects in the perception of two trapezoid illusions. *Perceptual and Motor Skills*, 1970, **31** : 355-366.

Brosigole, L., **Sobrian, S.K.**, and Contino, A.F.: Out of the frying pan into the goal box. *Behavioral Research Methods*, 1972, **4**: 147-148.

Pappas, B.S. and **Sobrian, S.K.**: Neonatal sympathectomy by 6-hydroxydopamine in the rat: No effect on behavior but changes in endogenous brain norepinephrine. *Life Science*, 1972, **11**: Part I, 653-659.

Sobrian, S.K., Weltman, M. and Pappas, B.A.: Neonatal locomotor and long-term behavioral effects of d-amphetamine in the rat: *Developmental Psychobiology*, 1975, **8**: 241-250.

Sobrian, S.K.: Prenatal and neonatal morphine in the rat: Behavioral and neurochemical effects. *RODA Summer Scholarships Proceedings*, 1974, **133**: 6-8.

Pappas, B.A., Peters, D.A.V., **Sobrian, S.K.**, Blouin, A. and Drew, D.: Early behavioral and catecholaminergic effects of 6-hydroxydopamine and guanethidine in the neonatal rat. *Pharmacology, Biochemistry and Behavior*, 1975, **3**: 681-685.

Sobrian, S.K., Pappas, B.A., Edson, N., Rastogi, R. and Singhal, R.L.: Alterations in behavioral ontogeny following neonatal radiothyroidectomy in the rat. *Research Communications in Psychology, Psychiatry and Behavior*, 1976, **1**: 419-434.

Sobrian, S.K.: Prenatal stress: Effects on behavioral, biochemical and somatic ontogeny. *Developmental Psychobiology*, 1977, **10**: 41-51.

Cornwell-Jones, C. and **Sobrian, S.K.**: Development of odor guided behavior in Wistar and Sprague-Dawley rat pups. *Physiology and Behavior*, 1977, **19**: 685-688.

Sobrian, S.K.: Prenatal morphine administration alters behavioral development in the rat. *Pharmacology, Biochemistry and Behavior*, 1977, **7**: 285-288.

Sobrian, S.K. and Cornwell-Jones, C.: Neonatal 6-hydroxydopamine alters olfactory development. *Behavioral Biology*, 1977, **21**: 329-340.

Kostrzewa, R.N., Kastin, A.J. and Sobrian, S.K.: Potentiation of apomorphine action in rats by L-prolyl-L-leucyl-glycine amide. *Pharmacology, Biochemistry and Behavior*, 1978, **9**: 375-378.

Marasco, E., Cornwell-Jones, C. and **Sobrian, S.K.**: 6-hydroxydopamine reduces preferences for nonspecific but not other familiar odors in rat pups. *Pharmacology, Biochemistry and Behavior*, 1979, **10**: 319-323.

Sobrian, S.K. and Nandedkar, A.K.N.: Prenatal antiepileptic drug exposure alters seizure susceptibility in rats. *Pharmacology, Biochemistry and Behavior*, 1986, **24**: 1383-1391.

Sobrian, S.K., D.L. Tuck and C.L. Brown: Convulsant action of clonazepam in developing rats. *The Pharmacologist*, 1986, **28**: 126.

Sobrian, S.K., B.M. Markovic, M. Lazarevic, V.T. Djuric, and B.D. Jankovic: Neonatal stress and immune function: Protective effect of the maternal presence. *Neuroendocrinology Letters*, 1987, **9**: 195.

Sobrian, S.K., B.M. Markovic, M. Lazarevic, V.T. Djuric, and B.D. Jankovic: Parameters influencing the effects of sound stress on immune function. *Journal of Neuroimmunology*, 1987, **16** (1): 164.

Djuric, V.J., B.M. Markovic, M. Lazarevic, **S.K. Sobrian** and B.D. Jankovic: Manifestations of repeated anaphylactic shock are context-specific. *Neuroendocrinology Letters*, 1987, **9**: 215.

Sobrian, S.K., N.L. Robinson, L.E. Burton, H. James, L.M. Turner and D.L. Stokes: Neurobehavioral effect of prenatal cocaine exposure. *Annals of New York Academy of Science*, 1989, **52**: 383-386.

Sobrian, S.K., L.E. Burton, N.L. Robinson, W.K. Ashe, H. James, D.L. Stokes and L.M. Turner: Neurobehavioral and immunological effects of prenatal cocaine exposure in rat. *Pharmacology, Biochemistry and Behavior*, 1990, **35**: 617-629.

Sobrian, S.K. and Pappas, B.A.: Advantages and disadvantages of longitudinal assessment of offspring. *Congenital Anomalies*, 1992, **31**: 41-50.

Sobrian, S.K., Vaughn, V.T., Bloch, E.F. and Burton, L.E.: Influence of prenatal maternal stress on the immunocompetence of the offspring. *Pharmacology, Biochemistry and Behavior*, 1992, **43**: 537-547.

Sobrian, S.K., Ali, S.F., Slikker Jr., W. and Holson, R.R.: Interactive effects of prenatal cocaine and nicotine exposure on maternal toxicity, postnatal development and behavior in the rat. *Molecular Neurobiology*, 1995, **16**: 121-143.

Sobrian, S.K., Vaughn, V.T., Ashe, W.K., Markovic, B., Djuric, V., and Jankovic, B.D.: Gestational exposure to loud noise alters the development and postnatal responsiveness of humoral and cellular components of the immune system in the offspring. *Environmental Research*, 1997, **3**: 227-241.

Sobrian, S.K., Jones B.L., Varghese, S. and Holson, R.R.: Behavioral response profiles following drug challenge with dopamine receptor subtype agonists and antagonists in developing rats. *Neurotoxicology and Teratology*, 2003, **25**: 311-328.

Sobrian, S.K., Marr, L. and Ressler, K.: Prenatal cocaine and/or nicotine exposure produces depression and anxiety in aging rats. *Progress in Neuro-Psychopharmacology & Biological Psychiatry*, 2003, **27**: 501-518.

Sobrian, S.K., Jones B.L., James, H., Kamara, F.N, and Holson, R.R.: Prenatal Ethanol Preferentially Enhances Reactivity of the Dopamine D₁ but not D₂ or D₃ Receptors in Offspring. *Neurotoxicology and Teratology*, 2005, **27**: 73-93.

Haddad, G. E., Scheer, A., Clarke, E. Jr, Arguinzoni, J,K,, **Sobrian, S.K.**: Prenatal cocaine alone and combined with nicotine alters ANG II and IGF-1 induced left atrial contractions in aging male offspring. *Can J Physiol Pharmacol.* 2005, **83**:957-65.

Raffaele, KC., Fisher, E. Hancock, S., Hazelden, K.P., and **Sobrian, S.K.** Determining normal variability in a developmental neurotoxicity test: a report from the ILSI Research Foundation/Risk Science Institute expert working group on neurodevelopmental endpoints. *Neurotoxicology and Teratology*, 2008, **30**:288-325. Epub 2008 Jan 7. (Review)

Sobrian, S.K., Johnston, M., Wright, J., Kuhn, D., and Ameis, K. Prenatal nicotine and or cocaine differentially alters nicotine-induced sensitization in aging offspring. *Ann. NY Acad. Sci.*, 2008, **1139**: 466-477.

Ameis, K., Kanaanm Y.M., Das, J.R., George, M. Jr., and **Sobrian, S.K.** Effects of manual acupuncture-induced injury on rat skeletal muscle. *Med. Acupunct.*, 2008, **4**: 225-230.

Sobrian SK, Johnston M, Wright J, Kuhn D, Ameis K. Prenatal nicotine and/or cocaine differentially alters nicotine-induced sensitization in aging offspring. *Ann N Y Acad Sci.* 2008,**1139**:466-77.

Sobrian SK, Holson RR. Social behavior of offspring following prenatal cocaine exposure in rodents: a comparison with prenatal alcohol. *Front Psychiatry.* 2011,**2**:1-17. Epub 2011 Nov 30 (Invited Review)

Sobrian, S.K., Holson, R.R. Effects of pre-and neonatal nicotine exposure in rodents: inconsistent evidence. *ILAR Journal*, 2011, **52**: 251-294. (Invited Review)

Sobrian, S.K. and Walters, E. Enhanced satellite cell activity in aging skeletal muscle after manual acupuncture-induced injury. *Chin Med.*, 2014, **5**:

Sandberg, K., Umans, J.G., and Georgetown Consensus Conference Working Group (**Sobrian, S.K.**). Recommendations concerning the new U.S. National Institutes of Health initiative to balance sex of cells and animals in preclinical research. *FASEB J.*, Feb. 20, 2015. Doi:10.1096/fj.14-269548.

Sobrian, S. K. Developmental cannabinoid exposure: New perspectives on outcomes and mechanisms. *Neurotoxicol Teratol.* 2016 Nov - Dec; 58:1-4. doi: 10.1016/j.ntt.2016.10.010. Epub 2016 Oct 27.

David Hessel, Hilary Rosselot, Robert Miller, Glenda Espinal, Jessica Famula, Stephanie L Sherman, Peter K Todd, Ana Maria Cabal Herrera, Karen Lipworth, Jonathan Cohen, Deborah A Hall, Maureen Leehey, Jim Grigsby, Jayne Dixon Weber, Sundus Alusi, Anne Wheeler, Melissa Raspa, Tamaro Hudson, **Sonya K Sobrian**. The International Fragile X Premutation Registry: building a resource for research and clinical trial readiness. *J. Med. Genetic.*, 2022. ;0:1–6. doi:10.1136/jmedgenet-2022-108568

Barbara L. F. Kaplan, Alan M. Hoberman, William Slikker Jr, Mary Alice Smith, Emanuela Corsini, Thomas B. Knudsen, M. Sue Marty, **Sonya K. Sobrian**, Suzanne C. Fitzpatrick, Marcia H. Ratner, and Donna L Mendrick. The Road to NAMs: From Animal Models to New Approach Methods for Protecting Human and Animal Health. In Review, *Pharmacological Reviews*, July, 2023.

Sobrian, Sonya K., Nailah S. Adams. Chronic Cocaine and/or Stress Exposure in Adolescents and Adults Differentially Alters the Long-term Consequences of Cocaine-induced Reward and Psychomotor Stimulation. In preparation, 2023.

Sobrian, Sonya K., Shannan White, Lalla M. Mahama and Sheree M. Johnson. Cocaine-induced Sensitization in Aging Female Mice: Relationship Between Dissociated Behavioral Augmentation and Increased Atypical *c-Fos* Expression. In preparation, 2023.

Abstracts:

Sobrian, S.K. and Pappas, B.A.: Neonatal locomotor and long term behavioral and biochemical effects of neonatal administration of d-amphetamine in the rat. Canadian Psychological Association, B.C., 1973.

Pappas, B.A., Peters, D.A.V., Saari, M. and **Sobrian, S.K.**: Neonatal 6-hydroxydopamine sympathectomy in normotensive and spontaneously hypertensive rats. Canadian Federation of Biological Societies, Saskatoon, Sask., 1973.

Pappas, B.A., Blouin, A. and **Sobrian, S.K.**: Neonatal 6-hydroxydopamine and guanethidine sympathectomy: Neurochemical and behavioral effects in the rat. Eastern Psychological Association, Philadelphia, PA, 1974.

Sobrian, S.K., Edson, N., Singhal, R.L. and Pappas, B.A.: Alterations in behavioral

ontogeny following neonatal radiothyroidectomy in the rat. The Society for Neuroscience, New York, NY, 1975.

Sobrian, S.K. and Cornwell-Jones, C.: Specificity in olfactory development: Pharmacological evidence. The Society for Neuroscience, Toronto, Ontario, 1976.

Cornwell-Jones, C. and **Sobrian, S.K.**: Specificity in olfactory development: Behavioral evidence. The Society for Neuroscience, Toronto, 1976.

Sobrian, S.K., Marasco, E. and Cornwell-Jones, C.: Neonatal 6-hydroxydopamine alters specific olfactory preferences and brain catecholamine content in rats. The Society for Neuroscience, Anaheim, California, 1977.

Kostrzewa, R.L., Kastin, A.J. and **Sobrian, S.K.**: Studies on the activity of a naturally-occurring tripeptide, L-prolyl-L-leucyl-glycine amide. Federation of the American Society for Experimental Biology, Atlantic City, NJ, 1978.

Kostrzewa, R.L., **Sobrian, S.K.**, Fukushima, H. and Kastin, A.J.: Actions of L-prolyl-L-leucyl-glycine amide on striatal enzyme activities. Huntington Disease Symposium, San Diego, California, 1978.

Sobrian, S.K., Rogers, M.A. and Campbell, B.A.: Monoamine involvement in the development of the post-decapitation reflex in rats. Society for Neuroscience, St. Louis, MO, 1978.

Sobrian, S.K.: Morphine-induced alterations in 6-hydroxydopamine changes in developing brain. Federation of the American Societies for Experimental Biology, Anaheim, CA, 1980.

Sobrian, S.K.: Intraventricular neonatal 6-OHDA: Effects on the ontogeny of spontaneous motor activity as a function of environmental cues. Society for Neuroscience, Los Angeles, CA, 1981.

Sobrian, S.K.: Involvement of alpha-adrenergic receptors in the post-decapitation reflex. Federation of American Societies for Experimental Biology, New Orleans, LA, 1982.

Sobrian, S.K. and Armstrong, K.E.: Prenatal stress effect revisited: Pituitary-adrenal mediation. Society for Neuroscience, Minneapolis, MN, 1982.

Sobrian, S.K.: Neonatal 6-hydroxydopamine: Effects on brain development and the ontogeny motor activity. International Society for Developmental Neuroscience, Patras, Greece, 1982.

Sobrian, S.K., Nandedkar, A.K.N. and Perry, L.: Prenatal antiepileptic exposure and seizure susceptibility in offspring. Federation of American Societies for Experimental Biology, Chicago, IL, 1983.

Sobrian, S.K. and King, W.: Serotonergic substrates of hyperactivity in rat. Society

for Neuroscience, Boston, MA, 1983.

Sobrian, S.K. : Vulnerable populations in human research: The elderly. The Mid-Atlantic Regional IRB Workshop, Washington, D.C., 1984.

Sobrian, S.K.: Statistical techniques for maintaining confidentiality of questionnaire data. The Mid-Atlantic Regional IRB Workshop, Washington, D.C., 1984.

Sobrian, S.K., Vaughn, V.T. and Bloch, E.F.: Influence of prenatal maternal stress on the maturation of components of the immune response in rats. Society for Neuroscience, Anaheim, CA, 1984.

Sobrian, S.K., Bloch, E.F. and Vaughn, V.T.: Effects of chemical sympathectomy on total and specific IgG production. American Society for Pharmacology and Experimental Therapeutics, Indianapolis, IN, 1984.

Sobrian, S.K.: Vulnerable populations in human research: The elderly. The Mid-Atlantic Regional IRB Workshop, Washington, D.C., 1984.

Sobrian, S.K.: Statistical techniques for maintaining confidentiality of questionnaire data. The Mid-Atlantic Regional IRB Workshop, Washington, D.C., 1984.

Sobrian, S.K., Vaughn, V.T., Willis, R., Heath, K.A. and Bloch, E.F.: Stress and the immune response in chemically sympathectomized rats. Federation of the American Societies for Experimental Biology, Anaheim, CA, 1985.

Sobrian, S.K., Vaughn, V.T., L. Crane, and Bloch, E.F.: The development of humoral and cellular immune components following exposure to prenatal maternal sound stress. Society for Neuroscience, Dallas, Texas, 1985.

Sobrian, S.K., Vaughn, V.T., Ashe, W.K.: The effects of prenatal maternal sound stress exposure on the humoral response to herpes simplex virus, type I. European Brain and Behavior Society, Oxford, England, 1985.

Sobrian, S.K., C.L. Brown, D.L. Tuck and H. James: Prenatal phenobarbital exposure and the development of PTZ-induced seizure in rats. Society for Neuroscience Abstracts, 1986, 12: 1558.

Sobrian, S.K., C.L. Brown, and D.L. Tuck: Convulsant action of benzodiazepines in developing rats: Receptor mechanisms. Second World Congress of Neuroscience, Budapest, Hungary, 1987.

Sobrian, S.K., B.M. Markovic, V.J. Djuric, M. Lazarevic, B.D. Jankovic: Parameters influencing the effects of sound stress on immune function. Second International Congress on Neuroimmunomodulation, Philadelphia, PA, 1987.

B.M. Markovic, V.J. Djuric, M. Lazarevic, **S.K. Sobrian**, and B.D. Jankovic: Two conditional paradigms to study CNS immune system interaction. Second International Congress on Neuroimmunomodulation, Philadelphia, PA, 1987.

Sobrian, S.K., B.M. Markovic, V.J. Djuric, M. Lazarevic and B.D. Jankovic: Effects of temporal ordering sound stress on inflammatory and immune responses. Eighth European Immunology Meeting, Zagreb, Yugoslavia, 1987.

M. Lazarevic, **S.K. Sobrian**, B.M. Markovic, V.J. Djuric, and B.D. Jankovic.: Immune responses in neonatally sound-stress rats: Modulation by presence of the mother. Eighth European Immunology Meeting, Zagreb, Yugoslavia, 1987.

V.J. Djuric, B.M. Markovic M. Lazarevic, **S.K. Sobrian** and B.D. Jankovic: Conditioned antigen-anticipatory response in rats subjected to anaphylactic shock. Eighth European Immunology Meeting, Zagreb, Yugoslavia, 1987.

Sobrian, S.K., B.M. Markovic M. Lazarevic, and B.D. Jankovic: Alterations in immune function following prenatal sound stress. Federation of the American Society for Experimental Biology, Las Vegas, NV, 1988.

Sobrian, S.K., B.M. Markovic, M. Lazarevic, V. Djuric and B.D. Jankovic: Stress-induced enhancement of experimental autoimmune encephalitis (EAE). FASEB Summer Research Conference: Neuroimmunomodulation, Copper Mountain, Colorado, 1988.

Sobrian, S.K., N.L. Robinson, L.E. Burton, H. James, L.M. Turner and D.L. Stokes: Neurobehavioral effects of prenatal cocaine exposure. New York Academy of Science Conference: Prenatal Abuse of Licit and Illicit Drugs, Bethesda, MD, 1988.

Sobrian, S.K., L.E. Burton, N.L. Robinson, H. James, L.M. Turner and W.K. Ashe: Neurobehavioral and immunological effects of prenatal cocaine exposure. Society for Neuroscience, Toronto, Canada, 1988.

Sobrian, S.K., N.L. Robinson, L.E. Burton, H. James, A.K.N. Nandedkar: Prenatal valproate (VPA) alters cocaine toxicity in rats. Federation of the American Societies for Experimental Biology, New Orleans, LA, 1989.

Sobrian, S.K., N.L. Robinson, L.E. Burton, H. James, A.K.N. Nandedkar: Pre- and post-natal valproic acid (VPA) alters cocaine-induced fatalities in rats. Fourth International World Conference on Clinical Pharmacology and Therapeutics, Mannheim, Germany, 1989.

M. Lazarevic, **S.K. Sobrian**, V.J. Djuric, B.M. Markovic and B.D. Jankovic: Mother-offspring interaction: Effect of stress on experimental allergic encephalomyelitis. Seventh International Congress of Immunology, West Berlin, Germany, 1989.

V.J. Djuric, **S.K. Sobrian**, M. Lazarevic: The effects of prenatal, early postnatal and adult round stress on immune response in the rat. Seventh International Congress of Immunology, West Berlin, Germany, 1989.

Sobrian, S.K., N.K. Robinson, L.E. Burton, H. James, and A.K.N. Nandedkar: Cocaine toxicity after pre- and post-natal valproic acid (VPA) exposure. Society for Neuroscience Abstracts, 1989, 15: 252.

Sobrian, S.K., N.L. Robinson, and L.E. Burton: Prenatal valproic acid (VPA): neurobehavioral and PTZ-induced seizure development. Neurobehavioral Teratology, Victoria, B.C., Canada, 1990.

Sobrian, S.K., L.E. Burton, N.L. Robinson and K.L. Hodge: Prenatal valproic acid exposure alters adult seizure and antidepressant susceptibility in rats. Federation of American Societies for Experimental Biology, Atlanta, GA, 1991.

Sobrian, S.K. Advantages and disadvantages in longitudinal assessment of offspring function. Teratology, Boca Raton, FL, 1991.

Sobrian, S.K., N.L. Robinson and L.E. Burton: Anticonvulsant efficacy of calcium antagonist against chemically-induced seizures in developing rats. Society for Neuroscience, New Orleans, LA, 1991.

Sobrian, S.K., Lazarevic, M., Markovic, B.M. and Jankovic, B.D.: Stress-induced alterations in the transfer of protection against experimental allergic encephalomyelitis (EAE) from mother to offspring. Neurobehavioral Teratology, Boca Raton, FL, 1992.

Sobrian, S.K., M. Lazarevic, B.M. Markovic, V.J. Djuric and B.D. Jankovic: Modulation of immune response in neonatally stressed rats by the maternal presence. Society for Neuroscience, Anaheim, CA, 1992.

S.K. Sobrian, K. Hodge, J. LaBorde, H. Duhart, K. Atkins, P. Sullivan-Jones and R.R. Holson: Evaluation of the interactive effects of prenatal cocaine and nicotine exposure: Dose-finding study. Teratology, Tuscon, AZ, 1993.

S.K. Sobrian, K. Hodge, P. Webb, F. Racey, S. Ali, W. Slikker, Jr., and R.R. Holson: Evaluation of the interactive effects of prenatal cocaine and nicotine exposure: Offspring behavioral effects. Neurobehavioral Teratology Society, Tuscon, AZ, 1993.

S.K. Sobrian, S.F. Ali, W. Slikker, Jr., and R.R. Holson: Interactive effects of prenatal cocaine and nicotine exposure on maternal toxicity, postnatal development, and behavior in the rat. International Society for Neurochemistry Satellite Meeting: Cellular and Molecular Mechanisms of Drugs of Abuse: Cocaine and Methamphetamine, Nice, France, 1993.

S.K. Sobrian, K. Hodge, P. Webb, F. Racey, S. Ali, W. Slikker, Jr., and R.R. Holson: Interactive effects of prenatal cocaine and nicotine exposure on postnatal development and behavior in the offspring. Society for Neuroscience, Washington, DC, 1993.

Sobrian, S.K. Prenatal sound stress and the development of immune responses. Neurobehavioral Teratology Society, San Juan, PR, 1994.

Sobrian, S.K. Loud noise: A developmental immunotoxicant. Fifth International Symposium on Neurobehavioral Methods and Effects in Occupational and Environmental Health, Cairo, Egypt, 1994.

- Sobrian, S.K.** Impact of proposed federal budget cuts on research funding. Neurobehavioral Teratology Society, Newport Beach, CA, 1995.
- Sobrian, S.K.** Prenatal cocaine: Prelude to aggression. Violence and Aggression: The Neurochemical Basis?, Nashville, TN, 1995.
- Sobrian, S.K.** Lessons from behavioral teratology. Animal Models of Mental Retardation, Bethesda, MD, 1995.
- Sobrian, S.K.** The neurobehavioral consequences of prenatal exposure to cigarette smoke and nicotine. International Symposium on Nicotine and Human Performance, Washington, DC, 1996.
- Sobrian, S.K.** The neurobehavioral consequences of prenatal exposure to cigarette smoke and nicotine: comparison of clinical and experimental outcomes. Second International Conference on Drug Abuse: Bio-Psycho-Social Perspectives, Shatin, N.T., Hong Kong, 1997.
- Sobrian, S.K.,** Robinson, N.L., and Burton, L.E. Anticonvulsant efficacy of calcium channel antagonists against chemically-induced seizures in developing rat. Neuroscience Symposium and Research Centers in Minority Institutions National Program Directors Meeting. Tallahassee, FL, 1997.
- Sobrian, S.K.** Immunological consequences of prenatal exposure to loud noise. Central American Commission on the Environment. Panama City, Panama, 1997.
- Sobrian, S.K.,** B.L. Jones, S. Varghese and R.R. Holson. Alterations in dopamine D₁ and D₂ receptor sensitivity following prenatal ethanol exposure. Research Society on Alcoholism, Santa Barbara, CA, 1999.
- Sobrian, S.K.,** B.L. Jones, S. Varghese and R.R. Holson. Prenatal ethanol enhances sensitivity of dopamine D₃ receptors. Research Society on Alcoholism, Santa Barbara, CA, 1999.
- Sobrian, S.K.,** B.L. Jones and S. Varghese. Prenatal maternal stress as a model of depression: II. Porsolt swim test. Neurobehavioral Teratology Society, Keystone, CO, 1999.
- Sobrian, S.K.,** B.L. Jones and S. Varghese. Profile analyses of dopamine receptor subtypes following prenatal ethanol exposure. Gordon Conference on Catecholamines, Oxford, England, August, 1999.
- Sobrian, S.K.,** S. Varghese, B.L. Jones, W.K. Ashe and N. Morrell. Prenatal sound stress (PSS): Effects on somatic and immunological responses to stress. Society for Neuroscience, Miami, FL, 1999.
- Edwards, E.E., B.L. Jones, S. Varghese and **S.K. Sobrian**. Prenatal sound stress and depression in female offspring. Society for Neuroscience, Miami, FL, 1999.

Sobrian, S.K., N. Harris, E. Clark and N. Morrell. Prenatal stress: A factor in the etiology of depression. Society for Neuroscience, New Orleans, LA, 2000.

Sobrian, S. K., S. Varghese, and B.L. Jones. Prenatal stress: Influences on emotionality and immune function in offspring. International Behavioral Neuroscience Society, Cancun, Mexico, 2001.

Sobrian, S. K. Prenatal maternal sound stress as a model of depression in the offspring. Neurobehavioral Teratology Society, Montreal, Canada, 2001.

Sobrian, S.K., L. Marr, T.J. Jones, and K. Ressler. Combined prenatal cocaine and nicotine exposure produces depression and anxiety in elderly rats. Society for Neuroscience, San Diego, CA, 2001.

Holson, R.R., B. L. Jones, S. Varghese, and **S. K. Sobrian**. Behavioral effects of dopamine receptor agonists and antagonists in a drug challenge paradigm. Society for Neuroscience, San Diego, CA, 2001.

Sobrian, S.K., L. Marr, K. Ressler, and A. Moon. Prenatal cocaine and/or nicotine exposure and conditioned place preference in elderly rats. Neurobehavioral Teratology Society, Tucson, AR, 2002.

Sobrian, S. K., K. Ressler, L. Marr and C.C. Freeman. Effects of prenatal cocaine and/or nicotine on indices of mental illness in elderly rats. International Behavioral Neuroscience Society, Capri, Italy, 2002.

Sobrian, S.K., K. Ressler and L. Marr. Prenatal cocaine and/or nicotine exposure and conditioned avoidance response in aging rats. Society for Neuroscience, Orlando, FL, 2002.

Sobrian, S.K., L. Marr and K. Ressler. Effects of age and prenatal cocaine and/or nicotine exposure on cocaine-induced conditioned place preference. Neurobehavioral Teratology Society, Philadelphia, PA, 2003.

Sobrian, S.K., Clark, E. Jr., Arguinzi, J.K., and Norwood, T. Prenatal cocaine and/or nicotine exposure fails to disrupt non-spatial, short-term memory in senescent offspring. Neurobehavioral Teratology Society, Vancouver, BC, 2004.

Sobrian, S.K., Norwood, T., Clark, E. Jr., Arguinzi, J.K., and C.C. Freeman. Prenatal cocaine and/or nicotine disrupts cued reference but not spatial working memory in aged female offspring. Society for Neuroscience, San Diego, CA, 2004.

Gerald, S. T., E. Clark, Jr., K. Ressler, L. Marr and **S.K. Sobrian**. Prenatal cocaine and/or nicotine alters life span in laboratory rats in a sex-dependent manner: Uncensored data. National Student Research Forum, Miami, FL, 2005.

Sobrian, S.K., Clark, E. Jr., Ressler, K., Marr, L., and Gerald, S. Prenatal cocaine and/or nicotine alters life span in laboratory rats in a sex-dependent manner: Censored data. Neurobehavioral Teratology Society, St. Petersburg Beach, FL, 2005.

Raffaele, K.C., Fisher, E. Hancock, S., Hazelden, K.P., and **Sobrian, S.K.** Frame work for determining normal variation for endpoints measured in a developmental neurotoxicity test. Neurobehavioral Teratology Society, St. Petersburg Beach, FL, 2005.

Sobrian S.K., Adams, N., Wright, J., Kuhn, D., and Gerald, S. Chronic cocaine and stress differentially alter behavioral sensitization to cocaine in adolescent and adult rats. International Behavioral Neuroscience Society, Whistler, British Columbia, Canada, 2006.

Sobrian, S.K., Hugging, B.M., Gunn-White, S., Kuhn, D., and Wright, J. Prenatal cocaine and/or nicotine exposure disrupts non-spatial, short-term memory only in female offspring. Neurobehavioral Teratology Society, Tucson, AR, 2006.

Ramlochansingh, C., Wright, J., Kuhn, D., and **Sobrian S.K.** Prenatal cocaine and/or nicotine differentially alters cocaine-induced sensitization and psychomotor stimulation in aged offspring. Howard University Graduate Student Research Forum, Washington, DC, 2007.

Sobrian, S.K., Johnston, M., Wright, J., Kuhn, D., and K. Ameis. Prenatal nicotine and/or cocaine differentially alters nicotine-induced sensitization in aging offspring. International Drug Abuse Research Society, Merida, Mexico, 2007.

Sobrian, S.K., Wright, J., Kuhn, D., and Johnston, M. Prenatal cocaine and/or nicotine differentially alters cocaine-induced behavioral sensitization in aging offspring. Society for Neuroscience, San Diego, CA, 2007.

Sobrian, S.K. Prenatal drugs of abuse: life-long effects on behavioral development. International Society for Developmental Psychobiology, San Diego, CA, 2007.

Sobrian, S. K., Das, J, Wright, J., Adams, N., and Fryar, E. Prenatal Cocaine Differentially Alters Dopamine D1 and D2 Receptor Expression in Aged Rats. Neurobehavioral Teratology Society, Monterey, CA, 2008.

Sobrian, S.K., Wright, J., Gerald, S., Adams. N., and Das, J. Prenatal cocaine and/or cocaine increases dopamine D1 receptors in middle-aged offspring. Society for Neuroscience, Washington, DC, 2008.

Sobrian, S.K., K. Ressman, L. Marr, R.R. Holson and M.D. Gay. Prenatal cocaine and/or nicotine differentially alter the acquisition of active avoidance as a function of age in the offspring. Neurobehavioral Teratology Society, San Juan, Puerto Rico, 2009.

Sobrian, S.K. and N. Adams. Chronic cocaine and/or stress in adolescent rats differentially alter cocaine-induced reward. International drug Abuse Research Society. Seoul, South Korea, 2010.

Sobrian, S.K., White, S., Mahaman, L.M., and Johnson, S.M. Cocaine-induced sensitization and c-fos expression in the locus coeruleus of aging female Prp57 transgenic mice. Neurobehavioral Teratology Society, Louisville, KY, 2010.

Sobrian, S.K., Ressman, K. Marr, L. and Holson, R.R. Age-related changes in prenatal cocaine and/or nicotine induced depression and anxiety. Neurobehavioral Teratology Society, San Diego, CA, 2011.

Sobrian, S.K., Ressman, K. Marr, L. and Holson, R.R. Enduring changes in emotional responsiveness following prenatal cocaine and/or nicotine. International Drug Abuse Research Society. Istanbul, Turkey, 2011.

Sobrian, S. K. and Toungara, J.M. The Stained glass ceiling: Increasing diversity in educational exchanges. Fulbright Association 34th Annual Conference, Washington, DC, 2011.

Allen, A.R., Broome, C.K., Dwabi-Addo, B., Wang, S., **Sobrian, S.K.**, and Abrams, C.K. Analysis of Tshr^{hyt} mice through multigenerational pedigree sib-pair modeling: a potential epigenetic model to study Parkinsonism. Society for Neuroscience, Washington, DC, 2011.

Polston, E.K., Powell, N.L., Gharehdaghi, P., Manaye, K.F., **Sobrian, S.K.**, and Waters, E.M. Effects of prenatal exposure to valproic acid on serotonergic and noradrenergic projections to the amygdala in rats. Society for Neuroscience, Washington, DC 2011.

Mickens, M., Powell, E., Polston, E. and **Sobrian, S.K.** Altered play behavior and anxiety in a prenatal valproic acid model of autism. Society for Neuroscience, Washington, DC, 2011.

Sobrian, S.K., Ressman, K., Marr, L., Wagner, L., Freeman, C., Holson, R.R. Differential effects of prenatal cocaine and/or nicotine on indices of psychiatric disorders in elderly rats. Neurobehavioral Teratology Society, Baltimore, MD, 2012.

Polston, E.K., Powell, N.L., Gharehdaghi, P., Manaye, K.F., Mickens, M., and **Sobrian, S.K.** Prenatal exposure to valproic acid disrupts the sexually dimorphic development of monoaminergic neurotransmitter systems and perturbs behavioral profiles in rats. NYAS: Fetal Programming and Environmental Exposure, New York NY, 2012.

Meyer, J. and **Sobrian, S.K.** Neurobehavioral consequences of stress: prenatal development through adulthood. Neurobehavioral Teratology Society, Tucson, AR, 2013.

Sobrian, S.K., Mickens, M., Powell, N., and Polston, E. Sex-specific effects of prenatal exposure to VPA: Behavioral and anatomical evidence. Neurobehavioral Teratology Society, Montreal, Canada, 2015.

Clark, Elijah Jr. and **Sobrian, S. K.** Gender-specific Effects of Prenatal Cocaine Exposure on Emotional Behavior in Adolescent Rats: Implications for Antidepressant Efficacy. Developmental Neurotoxicology Society, San Antonio, TX, 2016.

Sobrian, S.K., Ramlochansingh, C., Wright, J. and Kuhn, D. Altered Cocaine-induced Sensitization in Middle-aged Rats Following Gestational Exposure to Cocaine and/or Nicotine. Developmental Neurotoxicology Society, Denver, CO, 2017.

Sobrian, S. K. Transgenerational effects of Abuse Substances on Behavior: The What, When and How. Developmental Neurotoxicology Society, Clearwater, FL, 2018.

Brown, C., Hudson, T., **Sobrian, S. K.** Potential Drug Therapy for Fragile X Tremor/Ataxia Syndrome. American Federation for Medical Research. American Federation for Medical Research. Virtual Meeting, April 2021.

Brown, C, Hudson, T., **Sobrian, S. K.** Potential Drug Therapy for FX/TAS. Association for Clinical and Translation Science. Virtual Conference, March 2022.

Collis A. Brown, **Sonya K. Sobrian**, Oladapo Bakare and Tamaro S. Hudson. Establishing the efficacy of naturally occurring endocannabinoid-like substance in an *in vitro* model of Fragile X Tremor/Ataxia Syndrome (FXT/AS). Association for Clinical and Translational Science, Washington, DC. April 2023.

Collis A. Brown, **Sonya K. Sobrian**, Oladapo Bakare and Tamaro S. Hudson. Therapeutic Efficacy of Macamides on Fragile X Tremor/Ataxia Syndrome (FXT/AS). ASPET, St. Louis, MI. May 2023.