

J. Christopher States, Ph. D.

Curriculum Vitae

CONTACT INFORMATION:

Office Address:

Department of Pharmacology & Toxicology
University of Louisville School of Medicine
505 S. Hancock Street
Louisville, KY 40202

Telephone:

W: 502-852-5347 (voice)
W: 502-852-2123 (fax)

E-mail: jcstates@louisville.edu

EDUCATION:

1974 State University of New York at Buffalo; Buffalo, NY; B. S. in Biochemistry
1980 Albany Medical College, Union University; Albany, NY; Ph. D. in Molecular Biology
and Pathology

TRAINING:

7/80-10/84 Postdoctoral Fellow, Department of Medical Biochemistry, University of Calgary,
Calgary, Alberta, Canada

FACULTY APPOINTMENTS:

9/86-11/88 Children's Hospital Research Foundation, Division Basic Science Research &
University of Cincinnati, Department of Pediatrics, Cincinnati, OH: Research
Assistant Professor (9/86 - 11/88).
12/88-8/99 Wayne State University, Detroit, MI:
Center for Molecular Biology, Assistant Professor (Research), 12/88-9/94;
Dept. Molecular Biology & Genetics, Adjunct Assistant Professor, 3/91-9/94;
Cancer Biology Ph. D. Program, Assistant Professor, 11/91-6/97; Associate
Professor 7/97-8/99;
Molecular & Cellular Toxicology Ph. D. Program, Assistant Professor, 5/92-6/97;
Associate Professor, 7/97 - 8/99
Center for Molecular Medicine and Genetics, Assistant Professor (Research),
10/94-6/97; promoted to Associate Professor (Research) 6/97; Associate
Professor (Associate Member), 7/97 - 8/99
Institute of Chemical Toxicology, Adjunct Assistant Professor, 10/94-6/97;
Associate Professor (tenure track), 7/97 - 8/99
Department of Pharmaceutical Sciences, Associate Professor, 7/97 - 8/99

- 9/99 - present University of Louisville, Louisville, KY:
Department of Pharmacology and Toxicology, Associate Professor, 9/99 – 6/05;
tenure granted 9/04; Professor, 7/05 – present;
Department of Radiation Oncology, Associate Professor, 11/05-9/09
Department of Environmental and Occupational Health, School of Public Health
and Information Sciences, Adjunct Professor, 8/16 – 7/20
- 9/15 – 12/16 University of Maine, Orono, ME; School of Biomedical Sciences and
Engineering, External Graduate Faculty

OTHER PROFESSIONAL APPOINTMENTS:

- 7/74-6/75 Research Assistant, Department of Pathology, Albany Medical College, Albany
NY
- 7/75-6/80 Ph. D. Student, Department of Pathology, Albany Medical College, Albany NY
- 7/80-10/84 Post-doctoral Fellow, Department of Medical Biochemistry, University of
Calgary, Calgary, Canada
- 11/84-8/86 Research Scholar, Department of Basic Science Research, Children's Hospital
Research Foundation, Cincinnati, OH
- 8/97-8/99 Program Leader: Gene Regulation and Genetics Research Core of the NIEHS
Center for Cellular and Molecular Toxicology with Human Applications, Wayne
State University
- 9/99 – 6/09 Member, Center for Genetics and Molecular Medicine, University of Louisville
- 9/99 – 6/22 Member, Center for Environmental and Occupational Health Sciences,
University of Louisville
- 1/00 - present Member, James Graham Brown Cancer Center, University of Louisville
- 2/04 – 6/13 Deputy Director, Center for Genetics and Molecular Medicine, University of
Louisville
- 6/07 – 6/13 Deputy Director, Center for Environmental Genomics and Integrative Biology,
University of Louisville
- 7/07 – 1/14 Director, Program Admissions and Recruitment, Department of Pharmacology &
Toxicology and Toxicology, University of Louisville
- 7/12 – 1/24 Associate Dean for Research (Interim 7/12 – 12/13), School of Medicine,
University of Louisville
- 2/14 – 3/18 Vice Chair for Graduate Education, Department of Pharmacology & Toxicology
and Toxicology, University of Louisville
- 4/18 – 4/25 Vice Chair for Research, Department of Pharmacology & Toxicology and
Toxicology, University of Louisville
- 3/18 – present Director, Center for Integrated Environmental Health Sciences, University of
Louisville
- 2/24 – 4/25 Interim Vice Dean for Research, School of Medicine, University of Louisville
- 4/25 - present Vice Dean for Research, School of Medicine, University of Louisville

HONORS & AWARDS:

- 1970 National Merit Finalist
- 9/70-5/74 New York State Regents Scholarship
- 9/76-8/79 NIH Training Grant Studentship

1980	Dean's Certificate and Mosby Prize for Excellence in Research
9/80-8/84	Alberta Heritage Foundation for Medical Research Postdoctoral Fellowship
7/07 – 6/15	Distinguished University Scholar, University of Louisville
7/15 – 6/18	University Scholar, University of Louisville
2017	Career Achievement Award, Society of Toxicology Metals Specialty Section
2018 - present	Distinguished University Scholar, University of Louisville
2019	Albert Nelson Marquis Lifetime Achievement Award
2020	Society of Toxicology Global Senior Scholar Exchange Program Award
2020	University of Louisville Distinguished Faculty Award for Outstanding Scholarship, Research and Creative Activity in Basic and Applied Sciences
2022	University of Louisville School of Medicine Faculty Excellence Award for Outstanding Research in Basic and Applied Sciences
2022	University of Louisville Student Champion Recognition
2023	Society of Toxicology Dermal Toxicology Specialty Section Paper of the Year
2023	Recognized as in top 2% cited scientists in my field by Stanford/Elsevier
2024	Marquis Who's Who Honored Listee

MAJOR PROFESSIONAL SOCIETIES (currently active):

American Association for Cancer Research
American Association for the Advancement of Science
American Chemical Society
American Society for Pharmacology and Experimental Therapeutics
Society of Toxicology

OTHER MEMBERSHIPS

Arba Sicula
Union of Concerned Scientists

SERVICE

Peer Review for Granting Agencies:

National Science & Engineering Research Council (NSERC), Canada (1992)
National Institutes of Health: Experimental Therapeutics-1 Special Study Section (1996)
National Institutes of Health: Alcohol & Toxicology-1 Study Section, temporary member (1999; 2000)
U.S. Civilian Research and Development Foundation (2000)
U. S. Department of Energy (2001)
National Cancer Institute, Program Project Review and Site Visit (2001)
National Science Foundation/SBIR (2002, 2003)
Phillip Morris External Research Program (2003, 2004)
U. S. Department of Defense (2004)
National Institute of General Medical Sciences: Minority Biomedical Research Support Review Subcommittee B MPRC-B (2006)
Alberta Heritage Foundation for Medical Research (2006)

National Institutes of Health: ZRG1 ONC-H 02 M, Chromosomal Instability and Cancer (2007)
National Institute of General Medical Sciences: MBRS Support of Competitive Research Review Panel ZGM1 MBRS-7 (CC) (2007)
National Institutes of Health, Xenobiotic and Nutrient Disposition and Action [XNDA]; temporary member (2008)
National Institutes of Health: ZRG1 DIG-D 02 M, (2008)
National Institutes of Health: ZRG1 DKUS-A (58) (2009)
National Institutes of Health: AICS Study Section (mail reviewer) (2010)
National Institutes of Health: CIDO Study Section (mail reviewer) (2012)
National Institutes of Health: CADO Study Section (mail reviewer) (2012)
Medical Research Council (United Kingdom), grant reviewer (2012)
NIH-CSR Study Section: SIEE Study Section, temporary member (2/2014)
NIEHS K99/R00 review panel, telephone conference, (3/2014)
NIH-CSR Study Section: SIEE Study Section, temporary member (6/2014)
NIEHS K99/R00 review panel, (ZES1 LWJ-J (K9)) telephone conference (8/2014)
NIEHS K99/R00 review panel, (ZES1 LWJ-D (KC)) telephone conference (4/2015)
NIH-CSR: SIEE Study Section, temporary member (6/2015)
NIH-CSR: ZAT1 HS-26 Chelation Therapy Research Study Section (4/2016)
NIH-CSR: ZRG1 DKUS-P (02) Member Conflict: Toxicology (06/28/2017)
NIH-CSR: ZRG1 F06-A (20) Fellowships: Endocrinology, Metabolism, Nutrition, and Reproductive Science (07/31/2017)
NIH-CSR: ZRG1 DKUS P02 Member Conflict: Topics in Toxicology (10/31/2017; co-chair)
NIH-CSR: Anonymization Study (DKUS, JG) (10/2018)
NIH-CSR: ZRG1 F06-Y (20) Fellowships: Endocrinology, Metabolism, Nutrition and Reproductive Science (07/31/2019)
NIEHS R35 review panel, ZES1 LWJ-S R3 1 (11/14/2019)
Natural Sciences and Engineering Research Council of Canada (12/19)
NIH-CSR: ZRG1 DKUS-J(05) (07/28/2020)
NIH-CSR: SIEE Study Section, temporary member (3/2021)
DoD CDMRP Toxic Exposures Research Program (TERP) (2023)
DoD CDMRP Toxic Exposures Research Program (TERP) (2024-2025)

Advisory Boards

All India Congress of Cytology and Genetics, International Advisory Board (12/08 – 2013)
External Advisory Board member, Center for Urban Responses to Environmental Stressors (CURES), National Institute of Environmental Health Sciences Core Center (P30 ES020957) (5/15 – present)
National Academies Committee on Inorganic Arsenic (Phase 2) (10/15 – 3/16)
National Academies Council Committee on Inorganic Arsenic, USEPA IRIS review (10/18 – 10/19)
USEPA Science Advisory Board (SAB) Board Inorganic Arsenic Review Panel (2023-2024)

External Program Review

Environmental Genetics and Molecular Toxicology Graduate Program, University of Cincinnati (9/2015)

Editorial Boards

Toxicology and Applied Pharmacology (5/07 – present)

Reproductive Toxicology (11/07 – 12/12)

Journal of Ovarian Research (9/08 – 8/18)

PLoS ONE (academic editor, 10/11 – present)

Peer Review for Journals

Annals of Translational Medicine

Analytical Biochemistry

Apoptosis

Archives of Toxicology

Biochemistry

Biological Trace Elements Research

Biomedical and Environmental Sciences

Biomed Central Biology

Biotechniques

British Journal of Dermatology

Cancer Medicine

Cancer Research

Carcinogenesis

Cell Biology and Toxicology

Chemical Biology & Drug Design

Chemical Research in Toxicology

Chemico-Biological Interactions

Comparative Biochemistry and Physiology

DNA

DNA and Cell Biology

DNA Repair

Drug Metabolism and Disposition

Drug Metabolism Reviews

Ecotoxicology and Environmental Safety

Environmental and Molecular Mutagenesis

Environmental Health

Environmental Health Perspectives

Environmental Monitoring and Assessment

Environmental Research

Environmental Science & Technology

Environmental Toxicology and Pharmacology

Epigenetics

Experimental Biology and Medicine

FEBS Letters
Food and Chemical Toxicology
Gene
Indian Journal of Medical Research
International Journal of Environmental Research and Public Health
International Journal of Toxicology
Journal of Biological Chemistry
Journal of Radiation Biology
Journal of Toxicology and Environmental Health, Part A
Journal of Translational Medicine
Life Sciences
Microbial Ecology
Molecular Carcinogenesis
Molecular and Cellular Biochemistry
Molecular and Cellular Endocrinology
Molecular Cancer Therapeutics
Molecular Medicine
Molecular Therapy - Nucleic Acids
Mutation Research
Mutation Research - Genetic Toxicology and Environmental Mutagenesis
PEERJ
PLoS ONE
Proceedings of the National Academy of Sciences (USA)
Protein Expression and Purification
Reproductive Toxicology
Reviews on Environmental Health
Scientific Reports
Toxicological Sciences
Toxicology
Toxicology and Applied Pharmacology
Toxicology in Vitro
Translational Oncology

Miscellaneous:

Handbook of Arsenic Toxicology (Elsevier, Table of Contents review)
Health and Environmental Sciences Institute (invited manuscript critique)

Conference & Symposium Organization:

1st Annual Midwest DNA Repair Symposium, Ann Arbor, MI, June 13, 1999: Vice-Chair
Midwest DNA Repair Symposium series (now in its 18th consecutive year): Founder
EHS Center Symposium, "DNA repair: Environmental Impact & Implications for Human Health", Detroit, MI, October 18, 1999; Chair of Organizing Committee
2nd Annual Midwest DNA Repair Symposium, Louisville, KY, May 20-21, 2000: Chair
Society of Toxicology National Meeting (2003), Platform Session, "Mechanisms of Apoptosis", Chair

Society of Toxicology National Meeting (2004), Symposium: "Arsenic Disruption Of Cell Cycle: Mechanisms and Effects on Apoptosis, Differentiation And Carcinogenesis", Chair

Gordon Research Conference on Mechanisms of Toxicity (2004), Session: "Crossroads of Cell Cycle, Tumor Suppressors and DNA Damage and Repair", Chair

Society of Toxicology National Meeting (2008), Symposium: "Arsenic and Cardiovascular Disease", Chair

International Conference of Translational Pharmacology & Toxicology & 41st Annual Conference of Indian Pharmacological Society, All India Institute of Medical Sciences, New Delhi, India, (2008), Symposium: Toxicogenomic Approaches to Adverse Drug Reactions, Chair

14th Alexander Hollaender Course on Genetic Toxicology, Indian Institute of Chemical Biology, Kolkata, India (2008), Session Chair

12th Annual Midwest DNA Repair Symposium, University of Louisville, Louisville, KY, May 16-16, 2010: Chair

Workshop on Phenotypic Anchoring of Arsenic Dose/Exposure in Experimental Models of Human Disease, University of Louisville, Oct 21, 2010, Chair

Research!Louisville, University of Louisville, Louisville, KY, Sept 24 – 27, 2013; Chair

Research!Louisville, University of Louisville, Louisville, KY, Sept 16 – 19, 2014; Chair

8th Conference on Metal Toxicity & Carcinogenesis, Albuquerque, NM, Oct 26-28, 2014; Session Chair: Developmental & Epigenetic Effects

Research!Louisville, University of Louisville, Louisville, KY, Oct 27 – 30, 2015; Chair

Research!Louisville, University of Louisville, Louisville, KY, Oct 11 – 14, 2016; Chair

9th Conference on Metal Toxicity & Carcinogenesis, Lexington, KY, Oct 16 – 19, 2016; Session Chair: Mechanisms of Metals Carcinogenesis

Society of Toxicology National Meeting, Baltimore, MD, March 12-15, 2017, Roundtable: "Herbo-metallic Mixtures in Traditional Medicines", Session Chair: Research!Louisville, University of Louisville, Louisville, KY, Sept 16 – 19, 2017; Chair

Research!Louisville, University of Louisville, Louisville, KY, Oct 9 – 12, 2018; Chair

10th Conference on Metal Toxicity & Carcinogenesis, Albuquerque, NM, Oct 28-31, 2018; Session Chair

Society of Toxicology National Meeting, Baltimore, MD, March 10-14, 2018, Symposium: "New Mechanistic Insights into Causes and Outcomes of Epigenetic Dysregulation by Carcinogenic Metals", Session Co-Chair

11th Conference on Metal Toxicity & Carcinogenesis, Montreal, Canada, Oct 16-20, 2022; Session Chair

5th International Caparica Conference in SPLICING 2023, July 17-20, 2023; session Chair

23rd Midwest DNA Repair Symposium, Louisville, KY June 1-2, 2024; Chair

NIEHS Center Directors Meeting, Baltimore, MD, Sept 23-25, 2024; Session Chair

University of Louisville and Departmental Committees

Baxter Building Committee (1999 - 2009)

Judge, Post-doctoral fellow posters, Research!Louisville (1999)

Judge, Faculty posters, Research!Louisville (2003)

Department of Pharmacology & Toxicology Graduate Training (member, 2000 – 2014)

Department of Pharmacology & Toxicology Research & Core Facilities (member, 2000;
Chair, 2001 - 2009)
Department of Pharmacology & Toxicology Faculty Search (member, 2001- 2002)
Center for Genetics & Molecular Medicine Seminar (member, 2000 - 2004)
University Rules, Policies and Credentials Committee (member, 2002-2003)
School of Medicine Research Committee (member, 2003-2004; Chair, 2004- 2009;
exofficio, 2012 - present)
Judge, Post-doctoral posters, Research!Louisville (2005)
Judge, Faculty posters, Research!Louisville (2006)
IPIBS Committee (2007 – 2013)
UofL CEGIB Pilot Project Review Committee (2009, 2010)
Judge, Graduate Student posters, Brown Cancer Center Retreat (2010)
Judge, Post-doctoral posters, Research!Louisville (2010)
Judge, Graduate Student posters, Research!Louisville (2011)
Department of Pharmacology & Toxicology Faculty Search (member, 2011- 2012)
Judge, Graduate Student posters, Research!Louisville (2012)
Minors on Campus Policy Committee (2012)
Classified Research Committee (2012)
Research!Louisville Committee (2013 – present, chair)
Council of Research Deans (2014 – present)
Department of Pharmacology & Toxicology & Toxicology Graduate Student Affairs
(2014 – 2017, chair; 2017 – 2020, member)
Department of Pharmacology & Toxicology & Toxicology Graduate Student Admissions
(2014 – 2017)
Graduate Council, School of Medicine (2014 – 2017)
Conflict of Commitment Committee (2016)
Transition & Closeout Committee (2016)
Grants Management Post-Award Director Search Committee (2018)
School of Public Health and Information Sciences Promotion and Tenure Committee
(2018-present)
University of Louisville Strategic Planning Invest Committee (2019)
University of Louisville School of Medicine Strategic Planning/Research (2020)
University of Louisville COVID-19 Re-open Research Laboratories Task Force (2020)
University of Louisville Facility Core Review (2020-2021)
University of Louisville Director of Research Development & Support Search Committee
(2021-22)
University of Louisville Post-doc Advisory Committee (2022)
University of Louisville Summer Research Programs Ad Hoc Committee (2022)
University of Louisville Cayuse Testing Group (2022)
University of Louisville Post-doctoral Advisory Committee (2022 – present)
School of Medicine Associate Dean for Graduate and Post-doctoral Studies Search
Committee (2023)
School of Medicine Director of Physician Science Program Search Committee (2023)
School of Medicine Physiology Chair Review Committee (2023)
University of Louisville Research Core Advisory Committee (2022 - present)
University of Louisville Research, Scholarship and Creative Activity Strategic Planning

Oversight Committee, (2023-2024)
School of Medicine/School of Public Health and Information Sciences Joint
Collaborative Pilot Grant Program, (2024); Co-chair
University of Louisville Executive Vice President for Research and Innovation Search
Committee (2024-present)
University of Louisville Associate Vice Provost for Research Computing Search
Committee (2024)

Wayne State University and Departmental Committees:

Center for Molecular Biology Self-Study and 5 Year Report (1990)
Center for Molecular Biology Faculty Recruitment (Chair, 1991-1993)
Center for Molecular Biology Graduate Student (Chair, 1991-1992)
Center for Molecular Biology Post-doctoral Recruitment (1991-1993)
Department of Molecular Biology & Genetics Graduate Training (1992-1993)
MS in Molecular Biotechnology Steering Committee (1990-1996)
Molecular Medicine Interdisciplinary Program (Chair, 1992-1994)
Cancer Biology Program Qualifying Examination (1993-1994)
AAUP Selective Salary Committee - Division of Research and Graduate Studies (1994)
Molecular and Cellular Toxicology Program Graduate Committee (1993-1999)
CMB/MBG Advisory/Strategic Planning (1993-1995)
CMB/MBG Graduate & Medical Curriculum/Training (Chair, 1993-1995; member 1995-1996)
Interdisciplinary Program on Drug Development and Evaluation (1999)

Professional Service:

Society of Toxicology Board of Publications (member 4/19 – 4/23; co-chair 4/20 – 3/21; chair (4/21-3/22); past chair (4/22- 4/23)
Society of Toxicology Metals Specialty Section; Secretary/Treasurer (05/05 – 04/07); Vice President -Elect (05/09-04/10); Vice President (05/10-04/11); President (05/11-4/12); Past President (5/12 – 4/13); Board of Publishers (member 4/19 – present; co-chair 4/20 – 4/21, chair 4/21 – 4/22, past-chair 4/22 - present)
Ohio Valley Chapter, Counselor (05/06 – 04/10); Vice-President (05/11-5/12), President Elect (5/12 – 4/13); President (5/13 – 4/14); Past President (5/14 – 4/15)
Society of Toxicology, representative to National Institutes of Health Center for Scientific Research Open House Workshop on Peer Review (2007); Board of Publications (2019 – 2023; chair 2022-2023)
All India Congress of Cytology and Genetics, International Advisory Board Member (2008 – 2013)

Community Service (non-academic):

1/98 - 2/02 Cub Scouts of America: Pack 1607, Royal Oak, MI: Tiger Cub Coach (1/98 - 8/98), Den Leader (9/98 - 8/99); Pack 154, Goshen, KY: Assistant Den Leader & Webmaster (9/99 - 2/02), Committee Chair (9/00 – 2/02)

- 3/02 – 5/09 Boy Scouts of America: Troop 30, Louisville, KY: Assistant Scoutmaster, Merit Badge Counselor (Public Health, Fishing, Fly Fishing, Mammal Study, Personal Management, Music, Theater)
- 1/02 – 12/09 Spindletop Homeowners Association Board, President

TEACHING/TRAINING:

University of Louisville

Course director

- 2000 Research Methods in Pharmacology & Toxicology and Toxicology (PHTX665, Co-directed)
- 2001 Research Methods in Pharmacology & Toxicology and Toxicology (PHTX665, Co-directed)
- 2002 Research Methods in Pharmacology & Toxicology and Toxicology (PHTX665, Co-directed)
- 2003 Research Methods in Pharmacology & Toxicology and Toxicology (PHTX665, Co-directed)
- 2004 Research Methods in Pharmacology & Toxicology and Toxicology (PHTX665, Co-directed)
- 2005 Preclinical Elective (PHAR816, independent study supervisor)
- 2005 Research Methods in Pharmacology & Toxicology and Toxicology (PHTX665, Co-directed)
- 2005 Topics in Pharmacology & Toxicology (independent study, PHTX618)
- 2006 Research Methods in Pharmacology & Toxicology and Toxicology (PHTX672, PHTX673, Co-directed)
- 2007 Research Methods in Pharmacology & Toxicology and Toxicology (PHTX672, PHTX673, PHTX674, PHTX675, Co-directed)
- 2008 Research Methods in Pharmacology & Toxicology and Toxicology (PHTX672, PHTX673, PHTX674, PHTX675, Co-directed)
- 2008 Topics in Pharmacology & Toxicology (DNA Repair and Mutagenesis, PHTX618, Co-directed)
- 2009 Research Methods in Pharmacology & Toxicology and Toxicology (PHTX672, PHTX673, PHTX674, PHTX675, Co-directed)
- 2010 Research Methods in Pharmacology & Toxicology and Toxicology (PHTX672, PHTX673, PHTX674, PHTX675, Co-directed)
- 2011 Research Methods in Pharmacology & Toxicology and Toxicology (PHTX672, PHTX673, PHTX674, PHTX675, Co-directed)
- 2012 Research Methods in Pharmacology & Toxicology and Toxicology (PHTX672, PHTX673, PHTX674, PHTX675, Co-directed)
- 2013 Research Methods in Pharmacology & Toxicology and Toxicology (PHTX674, PHTX675, Co-directed)
- 2014 Research Methods in Pharmacology & Toxicology and Toxicology (PHTX674, PHTX675, Co-directed)
- 2015 Research Methods in Pharmacology & Toxicology and Toxicology (PHTX674, PHTX675, Co-directed)

- 2015 Research PHTX619
- 2015 Special Topics (PHTX618, 'Human Risk Assessment', (co-directed)
- 2016 Research Methods in Pharmacology & Toxicology (PHTX674, PHTX675, Co-directed)
- 2016 Research PHTX619
- 2016 Special Topics (PHTX618, 'Careers in Biomedical Science', co-directed)
- 2017 Research PHTX619
- 2018 Molecular Toxicology PHTX661/BIOC661 (co-directed)
- 2019 Molecular Toxicology PHTX661/BIOC661 (co-directed)
- 2020 Molecular Toxicology PHTX661/BIOC661 (co-directed)
- 2021 Molecular Toxicology PHTX661/BIOC661 (co-directed)
- 2022 Molecular Toxicology PHTX661/BIOC661 (co-directed)
- 2023 Molecular Toxicology PHTX661/BIOC661 (co-directed)

Continuing Education Programs:

Emerging Environmental Issues Affecting Women and Children's Health, Metal Toxicity: Arsenic, Lead and Mercury, "Biology of Heavy Metals", Park DuValle Community Health Clinic, Louisville, KY, August 22, 2007

Lectures in team-taught courses:

- 1999 Research Methods in Pharmacology & Toxicology (PHRM665, 3 h)
- 2000 Biochemistry of Cancer (BIOC675, 1 h)
- 2000 Research Methods in Pharmacology & Toxicology (PHTX665, 3 h)
- 2001 Advanced Nursing Pharmacology & Toxicology (PHRM650, 1 h)
- 2001 Research Methods in Pharmacology & Toxicology (PHTX665, 3 h)
- 2002 Molecular Mechanisms of Drug Action (PHRM661, 4 h)
- 2002 Clinical Neuroscience (PATH850, 1 h)
- 2002 Research Methods in Pharmacology & Toxicology (PHTX665, 3 h)
- 2002 Dental Pharmacology & Toxicology (BMSC807, 1 h)
- 2002 Advanced Nursing Pharmacology & Toxicology (PHTX650, 1 h)
- 2003 Clinical Neuroscience (PATH850, 1 h)
- 2003 Principles of Medical Pharmacology & Toxicology (PHTX 601, 4 h)
- 2003 Dental Pharmacology & Toxicology (BMSC807, 1 h)
- 2003 Advanced Nursing Pharmacology & Toxicology (PHTX650, 1 h)
- 2003 Research Methods in Pharmacology & Toxicology (PHTX665, 3 h)
- 2004 Principles of Pharmacology & Toxicology (PHAR850, 1 h)
- 2004 Principles of Medical Pharmacology & Toxicology (PHTX 601, 4 h)
- 2004 Advanced Nursing Pharmacology & Toxicology (PHTX650, 1 h)
- 2004 Research Methods in Pharmacology & Toxicology (PHTX665, 3 h)
- 2004 Dental Pharmacology & Toxicology (BMSC807, 1 h)
- 2005 Radiation and Cancer Biology for Radiation Oncology Residents (1.5 h)
- 2005 Principles of Pharmacology & Toxicology (PHAR850, 1 h)
- 2005 Principles of Medical Pharmacology & Toxicology (PHTX 601, 4 h)
- 2005 Advanced Nursing Pharmacology & Toxicology (PHTX650, 1 h)
- 2005 Research Methods in Pharmacology & Toxicology (PHTX665, 3 h)
- 2005 Dental Pharmacology & Toxicology (BMSC807, 1 h)

2006 Principles of Pharmacology & Toxicology (PHAR850, 1 h)
2006 Dental Pharmacology & Toxicology (BMSC807, 1 h)
2006 Research Methods in Pharmacology & Toxicology (PHTX673, 3 h)
2006 Radiation and Cancer Biology for Radiation Oncology Residents (4 h)
2006 Advanced Nursing Pharmacology & Toxicology (PHTX650, 1 h)
2006 NeuroPharmacology & Toxicology (PHTX655, 1 h)
2006 Selective Toxicity (PHTX658, 2 h)
2006 Molecular Toxicology (BIOC661, 3 h)
2007 Principles of Pharmacology & Toxicology (PHAR850, 1 h)
2007 Dental Pharmacology & Toxicology (BMSC807, 1 h)
2007 Research Methods in Pharmacology & Toxicology (PHTX673, 2 h; PHTX674, 2 h)
2007 Radiation and Cancer Biology for Radiation Oncology Residents (2 h)
2007 Advanced Nursing Pharmacology & Toxicology (PHTX650, 1 h)
2007 NeuroPharmacology & Toxicology (PHTX655, 1 h)
2007 Selective Toxicity (PHTX658, 2 h)
2007 Molecular Toxicology (BIOC661, 3 h)
2007 Global Issues in Environmental and Occupational Health Issues (PHEH620)
2008 Principles of Pharmacology & Toxicology (PHAR850, 1 h)
2008 Dental Pharmacology & Toxicology (BMSC807, 1 h)
2008 Research Methods in Pharmacology & Toxicology (PHTX673, 2 h; PHTX674, 2 h)
2008 Radiation and Cancer Biology for Radiation Oncology Residents (2 h)
2008 Advanced Nursing Pharmacology & Toxicology (PHTX650, 1 h)
2008 NeuroPharmacology & Toxicology (PHTX655, 1 h)
2008 Selective Toxicity (PHTX658, 2 h)
2008 Molecular Toxicology (BIOC661, 3 h)
2008 Global Issues in Environmental and Occupational Health Issues (PHEH620)
2009 Principles of Pharmacology & Toxicology (PHAR850, 1 h)
2009 Dental Pharmacology & Toxicology (BMSC807, 1 h)
2009 Advanced Nursing Pharmacology & Toxicology (PHTX650, 1 h)
2009 NeuroPharmacology & Toxicology (PHTX655, 1 h)
2009 Selective Toxicity (PHTX658, 2 h)
2009 Research Methods in Pharmacology & Toxicology (PHTX673, 2 h; PHTX674, 2 h)
2009 Molecular Toxicology (PHTX661, 3 h)
2009 Global Issues in Environmental and Occupational Health Issues (PHEH620)
2010 Principles of Pharmacology & Toxicology (PHAR850, 1 h)
2010 Dental Pharmacology & Toxicology (BMSC807, 1 h)
2010 Advanced Nursing Pharmacology & Toxicology (PHTX650, 1 h)
2010 NeuroPharmacology & Toxicology (PHTX655, 1 h)
2010 Selective Toxicity (PHTX658, 2 h)
2010 Research Methods in Pharmacology & Toxicology (PHTX672, 4 h; PHTX673, 4 h; PHTX674, 2 h)
2010 Molecular Toxicology (PHTX661, 3 h)
2010 Global Issues in Environmental and Occupational Health Issues (PHEH620)

2011 Research Methods in Pharmacology & Toxicology (PHTX672, 4 h; PHTX673, 4 h; PHTX674, 2 h)
2011 Principles of Pharmacology & Toxicology (PHAR850, 1 h)
2011 Dental Pharmacology & Toxicology (BMSC807, 1 h)
2011 NeuroPharmacology & Toxicology (PHTX655, 1 h)
2011 Selective Toxicity (PHTX658, 2 h)
2011 Molecular Toxicology (PHTX661, 3 h)
2012 Research Methods in Pharmacology & Toxicology (PHTX672, 4 h; PHTX673, 4 h; PHTX674, 2 h)
2012 Principles of Pharmacology & Toxicology (PHAR850, 1 h)
2012 Dental Pharmacology & Toxicology (BMSC807, 1 h)
2012 NeuroPharmacology & Toxicology (PHTX655, 1 h)
2012 Selective Toxicity (PHTX658, 2 h)
2012 Molecular Toxicology (PHTX661, 7.5 h)
2012 Cell Biology (MBIO667, 1.5 h)
2013 Research Methods in Pharmacology & Toxicology (PHTX674, 2 h)
2013 Selective Toxicity (PHTX658, 2 h)
2013 Principles of Pharmacology & Toxicology (PHAR850, 1 h)
2013 Dental Pharmacology & Toxicology (BMSC807, 1 h)
2013 NeuroPharmacology & Toxicology (PHTX655, 1 h)
2013 Molecular Toxicology (PHTX661, 7.5 h)
2014 Research Methods in Pharmacology & Toxicology (PHTX674, 2 h)
2014 Molecular Toxicology (PHTX661, 7.5 h)
2014 Principles of Pharmacology & Toxicology (PHAR850, 1 h)
2014 Dental Pharmacology & Toxicology (BMSC807, 1 h)
2014 NeuroPharmacology & Toxicology (PHTX655, 1 h)
2014 Selective Toxicity (PHTX658, 2 h)
2015 Research Methods in Pharmacology & Toxicology (PHTX674, 2 h)
2015 Molecular Toxicology (PHTX661, 7.5 h)
2015 Principles of Pharmacology & Toxicology (PHAR850, 1 h)
2015 Dental Pharmacology & Toxicology (BMSC807, 1 h)
2015 NeuroPharmacology & Toxicology (PHTX655, 1 h)
2015 Selective Toxicity (PHTX658, 2 h)
2016 Molecular Toxicology (PHTX661, 7.5 h)
2016 Dental Pharmacology & Toxicology (BMSC807, 1 h)
2016 NeuroPharmacology & Toxicology (PHTX655, 1 h)
2016 Selective Toxicity (PHTX658, 2 h)
2016 Toxicology I (PHTX643, 4 h)
2017 Molecular Toxicology (PHTX661, 7.5 h)
2017 Toxicology I (PHTX643, 3 h)
2017 Dental Pharmacology & Toxicology (BMSC807, 1 h)
2018 Pharmacology II (PHTX642, 6 h)
2018 Cancer Biology (BIOC675, 2 h)
2018 Toxicology II (PHTX644, 3 h)
2018 Dental Pharmacology & Toxicology (BMSC807, 1 h)
2018 Molecular Toxicology (PHTX661, 7.5 h)

2019 Pharmacology II (PHTX642, 4.5 h)
2019 Cancer Biology (BIOC675, 2 h)
2019 Toxicology II (PHTX644, 3 h)
2019 Molecular Toxicology (PHTX661, 7.5 h)
2019 Dental Pharmacology & Toxicology (BMSC807, 1 h)
2020 Pharmacology II (PHTX642, 4.5 h)
2020 Cancer Biology (BIOC675, 2 h)
2020 Toxicology II (PHTX644, 3 h)
2020 Molecular Toxicology (PHTX661, 7.5 h)
2020 Dental Pharmacology & Toxicology (BMSC807, 1 h)
2021 Pharmacology II (PHTX642, 4.5 h)
2021 Cancer Biology (BIOC675, 2 h)
2021 Toxicology II (PHTX644, 3 h)
2021 Molecular Toxicology (PHTX661, 7.5 h)
2022 Dental Pharmacology & Toxicology (BMSC807, Spring, 1 h)
2022 Pharmacology II (PHTX642, 4.5 h)
2022 Molecular Toxicology (PHTX661, 7.5 h)
2022 Dental Pharmacology & Toxicology (BMSC807, Fall, 1 h)
2023 Cancer Biology (BIOC675, 2 h)
2023 Pharmacology II (PHTX642, 4.5 h)
2023 Molecular Toxicology (PHTX661, 7.5 h)
2023 Dental Pharmacology & Toxicology (BMSC807, Fall, 1 h)
2024 Dental Pharmacology & Toxicology (BMSC807, spring, 1 h)
2024 Cancer Biology (BIOC675, 2 h)
2024 Pharmacology II (PHTX642, 3 h)
2025 Dental Pharmacology & Toxicology (BMSC807, spring, 1 h)
2025 Pharmacology II (PHTX642, 2 h)

Faculty Mentoring

Walter H. Watson, Ph.D., Department of Medicine, Division of Gastroenterology
(4/19 – present)

Mayukh Banerjee, Ph.D., Department of Pharmacology & Toxicology (10/20 –
present)

Additional mentees in the Center for Integrated Environmental Health Sciences

Career Development Program:

Loretta Jophlin, M.D., Ph.D., Department of Medicine, Division of
Gastroenterology (7/21 – 7/23)

John Wise, Jr., Ph.D., Department of Pharmacology & Toxicology (10/21 – 9/22)

Banrida Wahlang, Ph.D., Department of Medicine, Division of Gastroenterology,
(4/22 – present)

Natasha DeJarnett, M.P.H., Ph.D., Department of Medicine, Division of
Environmental Medicine (10/21 – 11/22)

Natalie DuPré, Sc.D., Department of Epidemiology and Population Health (10/20
– present)

Alex Carll, Ph.D., Department of Physiology (10/20 – present)

J. Calvin Koukam, Ph.D., Department of Pharmacology & Toxicology (10/20 –

8/2023)

Luz Huntington-Moskos, Ph.D., School of Nursing (10/20 – 7/23)

Ray Yeager, M.P.H., Ph.D., Department of Epidemiology and Population Health (10/20 – present)

Jamie L. Young, Ph.D., Department of Pharmacology & Toxicology (7/22 – 12/2024)

Venkatakrisna Jala, Ph.D., Department of Microbiology & Immunology (10/20 – present)

Tyler Ellis, M.D., Department of Surgery (10/20 – 6/22)

Mikus Abolins-Abols, Department of Biology (5/23 – present)

Laboratory training (9/99 - present):

Visiting Faculty:

Allan Pinhas, Ph. D., Professor of Chemistry, University of Cincinnati (9/01 - 3/02; 9/09 – 8/10)

Ana Maria Salazar, Ph. D., Associate Researcher, Dept. of Genomic Medicine and Environmental Toxicology, Biomedical Research Institute, National University of Mexico, México (June 5 – 18, 2005)

Ashok K. Giri, Ph.D., D.Sc., Senior Scientist, Institute of Chemical Biology, Kolkata, India (February 2009)

Jiguo Wu, Ph.D., Associate Professor of Preventive Medicine, Department of Environmental Health, School of Public Health and Tropical Medicine, Southern Medical University, Guangzhou, China (2/9/2015 – 1/31/2016)

John Placheril, Ph.D., Professor, Department of Zoology, University of Rajasthan, Jaipur, India, Society of Toxicology Global Senior Scholar Exchange Program (3/22 – 4/22)

Research Associates/Post-doctoral Fellows:

Rose P. Webster, Ph. D. (9/99 - 2/00)

GuoHui Jiang, Ph. D. (3/00 – 6/06)

Meka Prosper M'Bemba, Ph.D. (1/06 – 5/07)

Ana Paula Ferragut Cardoso, Ph.D. (8/17 – 8/22)

Mayukh Banerjee, Ph.D. (1/18 – 9/20)

Alexandra N. Nail, Ph.D. (1/21 – present)

Jared L. Scott, Ph.D. (8/24 – present)

Gabriel Rodriguez Vazquez, Ph.D. (1/1 -present)

Talha Bin Emran, Ph.D. (6/25 – present)

M.D./Ph.D. Students:

B. Frazier Taylor (6/03 – 6/07)

Ph. D. Students:

Paul C. Porter (9/99 - 2005)

Paula Logsdon (9/01 - 12/01)

Samuel C. McNeely (8/03 – 11/07)

Xiaoqiang (Steven) Xu (6/05 – 10/05)

Erica N. Rogers (10/05 – 2011)

Clarisse Muenyi (8/06 – 2011)

Katherine Woods (1/07 – 1/07)
Ntube Olive Ngalame (8/07 – 2011)
Banrida Wahlang (2010)
Lindsay Jay Stallons (2011)
Stephen Wechman (2011)
Christopher Shidal (2011)
Laila Al-Eryani (2014 – 2017)
Collin Stocke (2015 – 2017)
Jana Peremarti-Brosel (visiting scholar, 5/16 – 7/16)
Ngozi V. Adiele (2021)

Masters Students

Matthew R. Zajack (8/08 – 8/10)
J. Mason Hoffman (2014 – 2017)
Angeliki Lykoudi (2018 – 2021)

Medical Students (Summer):

Joy K. Jones (6/00 - 8/00)
Shannon Sams (6/01 - 8/01)
B. Frazier Taylor (6/02 -8/02)
Abhaya A. Pandit (6/07-8/07)
Alex Belshoff (6/08 – 8/09)
Matthew Lykins (6/10 – 8/10)
Cory A. France (6/11 – 8/11)
Nicholas Klimchak (6/13 – 8/13)
Samantha Jenkins (6/15 – 5/18, Distinction in Research track)
Camille Gordon (6/16 – 8/16)
R. Nicholas Knear-Bell (5/17 – 5/20, Distinction in Research track)
Monzolessso J. Bagadh- Kognagba (5/17 – 7/17)
Allison Sanders (5/18-7/18)
Jasen Davis (5/18-7/18)
Katherine E. Crider (5/19-7/19)
Karen Udoh (5/20 – 8/20)
Lakynkalina M (McCaffrey) Montero (5/21- 5/24, Distinction in Research track)
Max N. Rogers (5/21- 5/24, Distinction in Research track)
Jonathan C. Bastick III (5/21- 5/24, Distinction in Research track)
Isabell Augenstein (5/22 – 7/22)
Deep Patel (5/22 – 7/22)
Manting Xu (5/22 – present)
Aliyah Bailey (5/23-7/23)
Tala Maya (5/24 – present, Distinction in Research track)
Ashley Chavez (5/24 – 7/24)
Christian Bates (5/24 – 7/24)
Leen Abozaid (5/25 – 7/25)
Gbemisola Owolabi (5/25 – 7/25)

Undergraduate Students:

Christopher Worley (7/02 - 8/02)

Venetta Smith (6/03 – 5/04)
Alex Belshoff (6/06 – 8/06, 1/07 – 8/07)
Jared Woods (5/07 – 8/07)
Vanessa States (6/10 – 8/10, 6/11 – 8/11)
Andrew Miccechi (7/10 – 8/10; 6/11 – 8/11)
Millicent Fugate (7/10 – 8/10)
Marilyn Feil (7/10 – 8/10)
Douglas Saforo (6/12 – 5/13)
James A. Stewart (6/14 – 8/14)
Karen Udoh (5/15 – 8/15)
Nathan W. Wainscot (8/15 – 7/16)
Will Frye (6/18 – 8/21)
Nicole C. Sparling (5/19 – 8/19)
Ariamna Herrera Miret (5/20 -12/20)
Madeline Martinez Mar (5/22 – 8/22)
Caitlyn Reynolds (5/22 – 8/22)

High School Students

Erik Rainey (6/07 – 8/07)
Vanessa Omeokachie (11/07 – 4/08)
Andrew Miccechi (6/08 – 7/08)
Vanessa States (6/08 – 8/08, 6/09 – 8/09)
Apsara Wickramasinghe (6/09 – 8/09)

Ph. D. Qualifying Examination/Dissertation Committees:

2002-2005	Christopher Cunningham, Department of Pharmacology & Toxicology, University of Louisville
2002-2005	Anwar Hussein, Department of Pharmacology & Toxicology, University of Louisville
2003-2005	Paul C. Porter, Department of Pharmacology & Toxicology, University of Louisville
2003-2004	Yuanqi Zhu, Department of Pharmacology & Toxicology, University of Louisville
2003-2006	Yu (Janet) Zang, Department of Pharmacology & Toxicology, University of Louisville
2003-2007	B. Frazier Taylor, Department of Pharmacology & Toxicology, University of Louisville
2004-2007	Kristin Metry, Department of Pharmacology & Toxicology, University of Louisville
2005-2007	Samuel C. McNeely, Department of Pharmacology & Toxicology, University of Louisville
2005-2007	Jason Walraven, Department of Pharmacology & Toxicology, University of Louisville
2005-2007	Michal Czajkowski, Department of Mathematics, University of Louisville
2005-2008	Xiaoyan (Susan) Zhang, Department of Pharmacology & Toxicology,

	University of Louisville
2005-2009	John Philipose, Department of Pharmacology & Toxicology, University of Louisville
2005-2008	Nicholas Watson, Department of Pharmacology & Toxicology, University of Louisville
2007-2011	Erica N. Rogers, Department of Pharmacology & Toxicology, University of Louisville
2008-2011	Lori Millner, Department of Pharmacology & Toxicology, University of Louisville
2008-2011	Lindsay Jay Stallons, Department of Pharmacology & Toxicology, University of Louisville
2008-2011	Clarisse S. Muenyi, Department of Pharmacology & Toxicology, University of Louisville
2009-2011	Ntube O. Ngalame, Department of Pharmacology & Toxicology, University of Louisville
2009-2011	Scott C. Smith, Department of Anatomy and Neurobiology, University of Louisville
2010-2012	Carmine Leggett, Department of Pharmacology & Toxicology, University of Louisville
2010-2012	Robin H. Schmidt, Department of Pharmacology & Toxicology, University of Louisville
2010	Mayukh Bannerjee, Jadavpur University, External PhD dissertation reviewer
2011-2012	Colins Eno, Department of Pharmacology & Toxicology, University of Louisville
2011-2014	Robin H. Schmidt, Department of Pharmacology & Toxicology, University of Louisville
2011-2014	Justin Hallgren, Department of Pharmacology & Toxicology, University of Louisville
2011-2014	Banrida Wahlang, Department of Pharmacology & Toxicology, University of Louisville
2012-2014	Veronica Massey, Department of Pharmacology & Toxicology, University of Louisville
2014-2017	Marcus Stepp, Department of Pharmacology & Toxicology, University of Louisville
2014-2016	Christopher Shidal, Department of Pharmacology & Toxicology, University of Louisville
2015-2016	Cynthia Browning, School of Biomedical Sciences and Engineering, University of Maine
2015- 2017	Laila Al-Eryani, Department of Pharmacology & Toxicology, University of Louisville
2015-2017	Stephen Wechman, Department of Pharmacology & Toxicology, University of Louisville
2015-2018	Samantha M. Carlisle, Department of Pharmacology & Toxicology, University of Louisville
2015-2018	Hongxue Shi, Department of Pharmacology & Toxicology, University

	of Louisville
2015-2017	Lauren Poole Hardy, Department of Pharmacology & Toxicology, University of Louisville
2016-2017	Collin Stocke, Department of Environmental and Occupational Health, School of Public Health and Information Sciences, University of Louisville
2016-2020	Haiyan Yu, Department of Pharmacology & Toxicology, University of Louisville
2016-2017	Yihong Li, Department of Pharmacology & Toxicology, University of Louisville
2016-2020	Yuxuan Zheng, Department of Pharmacology & Toxicology, University of Louisville
2017-2018	J. Mason Hoffman, Department of Pharmacology & Toxicology, University of Louisville
2017-2020	Jamie L. Young, Department of Pharmacology & Toxicology, University of Louisville
2017-2020	Rachel Speer, Department of Pharmacology & Toxicology, University of Louisville
2018-2021	Christine Kim, Department of Pharmacology & Toxicology, University of Louisville
2018-2020	Jennifer Toyoda, Department of Pharmacology & Toxicology, University of Louisville

M.S. Thesis Committees:

2001-2003	Paul C. Porter, Department of Pharmacology & Toxicology, University of Louisville
2002-2003	Denise Clark, Department of Pharmacology & Toxicology, University of Louisville
2002-2003	Yuanqi Zhu, Department of Pharmacology & Toxicology, University of Louisville
2002-2003	Yu (Janet) Zang, Department of Pharmacology & Toxicology, University of Louisville
2003-2005	Samuel C. McNeely, Department of Pharmacology & Toxicology, University of Louisville
2003-2005	Nicholas Watson, Department of Pharmacology & Toxicology, University of Louisville
2004-2005	Kristin Metry, Department of Pharmacology & Toxicology, University of Louisville
2004-2005	Jason Walraven, Department of Pharmacology & Toxicology, University of Louisville
2004-2005	Xiaoyan (Susan) Zhang, Department of Pharmacology & Toxicology, University of Louisville
2006-2007	Erica N. Rogers, Department of Pharmacology & Toxicology, University of Louisville
2007-2008	Lori Millner, Department of Pharmacology & Toxicology, University of Louisville

2007-2008	Lindsay Jay Stallons, Department of Pharmacology & Toxicology, University of Louisville
2007-2008	Clarisse S. Muenyi, Department of Pharmacology & Toxicology, University of Louisville
2008-2009	Ntube O. Ngalame, Department of Pharmacology & Toxicology, University of Louisville
2009-2010	Matthew R. Zajack, Department of Pharmacology & Toxicology, University of Louisville
2009-2010	Carmine Leggett, Department of Pharmacology & Toxicology, University of Louisville
2010-2011	Robin H. Schmidt, Department of Pharmacology & Toxicology, University of Louisville
2011-2012	Banrida Wahlang, Department of Pharmacology & Toxicology, University of Louisville
2011-2012	Veronica Massey, Department of Pharmacology & Toxicology, University of Louisville
2012-2014	Laila Al-Eryani, Department of Pharmacology & Toxicology, University of Louisville
2012-2015	Samantha M. Carlisle, Department of Pharmacology & Toxicology, University of Louisville
2013-2015	Steven Wechman, Department of Pharmacology & Toxicology, University of Louisville
2013-2014	Christopher Shidal, Department of Pharmacology & Toxicology, University of Louisville
2013-2014	Marcus Stepp, Department of Pharmacology & Toxicology, University of Louisville
2014-2015	Lauren Poole, Department of Pharmacology & Toxicology, University of Louisville
2014-2015	Tess Dupre, Department of Pharmacology & Toxicology, University of Louisville
2015-2017	J. Mason Hoffman, Department of Pharmacology & Toxicology, University of Louisville
2015-2018	Jamie L. Young, Department of Pharmacology & Toxicology, University of Louisville
2016-2017	Rachel Speer, Department of Pharmacology & Toxicology, University of Louisville
2016-2018	Christine Kim, Department of Pharmacology & Toxicology, University of Louisville
2017-2018	Jennifer Toyoda, Department of Pharmacology & Toxicology, University of Louisville
2018-2021	Angeliki Lykoudi, Department of Pharmacology & Toxicology, University of Louisville
2022 - 2023	Caitlin Wilkerson, Department of Pharmacology & Toxicology, University of Louisville

Wayne State University*Course director*

1995/1996 Molecular Mechanisms of DNA Repair and Mutagenesis (CB 868, Co-directed)

Lectures in team-taught courses:

1991	Molecular Biology of Cancer (MBG 712/CB 702/PHM 706)
1991	Genetic Training (MBG 703)
1993	Molecular Biology of Cancer (MBG 712/CB 702/PHM 706)
1993	Carcinogenesis and Mutagenesis (PHM 771/CHM 869)
1995	Advanced Molecular Biology (MBG 702)
1995	Principles of Toxicology (MTX701)
1995	Cancer Biology Survey II (CB712)
1996	Principles of Toxicology (MTX701)
1996	Cancer Biology Survey II (CB712)
1997	Principles of Toxicology (MTX701)
1997	Cancer Biology Survey II (CB712)
1998	Principles of Toxicology (MTX7010)
1998	Cancer Biology Survey II (CB7120)

Essays/Theses/Dissertations directed:

Robert S. Topping, M. S. in Molecular Biotechnology, Cloning the Human XPA Gene, 1993
Thomas R. McKeown, M. S. in Molecular Biotechnology, Complementation of XP Cells with cDNA Expression Vectors, 1994
Scott P. Myrand, M. S. in Molecular Biotechnology, Role of the XPA Gene Product in UV Mutagenesis, 1995

Ph. D. Qualifying Examination/Dissertation Committees:

1992-1995	Xiao-Dong Lu, Department of Pharmacology & Toxicology, Wayne State University
1992-1995	Wen-Ya Huang, Department of Biological Sciences, Wayne State University
1993	Panagiotis Z. Anastasiadis, Department of Psychiatry, Wayne State University
1993-1995	Houmam Araj, Department of Biological Sciences, Wayne State University
1993-1995	Seema Katak, Cancer Biology, Wayne State University
1993-1997	Carol Jones, Cancer Biology, Wayne State University
1998-1999	Meng Guo, Cancer Biology, Wayne State University
1999-1999	Song Li, Biochemistry, Wayne State University

Laboratory training:(12/88 - 8/99)

Research Associates/Post-doctoral fellows: 4
Ph. D. Students: 4
Master's Students: 3

Undergraduates: 4
High School Students: 12
High School Teachers: 5
Research Assistants: 7

Children's Hospital Research Foundation/University of Cincinnati:

Laboratory training (11/84 - 11/88):

Residents/Post-doctoral Fellows: 4
Ph. D. Students: 2
Research Assistants: 3

PUBLICATIONS:

Articles published in refereed journals:

1. States, JC and K Janakidevi, "Poly(ADP-ribose) Polymerase Activity of Aortic Nuclei from Swine on Hyperlipemic Diet", *J. Molec. Cellul. Cardiol.* 14: 63-70 (1982)
2. States, JC, W Connor, MA Wosnick, JM Aiken, L Gedamu, and GH Dixon, "Nucleotide Sequence of a Protamine CII Gene of *Salmo gairdnerii*", *Nucleic Acids Res.* 10: 4551-4563 (1982)
3. Aiken, JM, D McKenzie, H-Z Zhao, JC States and GH Dixon, "Sequence Homologies in the Protamine Gene Family of Rainbow Trout", *Nucleic Acids Res.* 11: 4907-4922 (1983)
4. States, JC and K Janakidevi, "Increased Thermal Stability of Solubilized Chromatin After Poly(ADP-ribose) Synthesis" *Bioscience Rep.* 3: 847-856 (1983)
5. Connor, W, J Mezquita, RJ Winkfein, JC States and GH Dixon, "Organization of the Histone Genes in the Rainbow Trout (*Salmo gairdnerii*)", *J. Molec. Evol.* 20: 227-235 (1984)
6. Connor, W, JC States, J Mezquita and GH Dixon, "Organization and Nucleotide Sequence of Rainbow Trout Histone H2A and H3 Genes", *J. Molec. Evol.* 20: 236-250 (1984)
7. Blanco, J, JC States and GH Dixon, "General Method for Isolation of DNA Sequences that Interact with Specific Nuclear Proteins in Chromosomes: Binding of High Mobility Group Protein HMG-T to a Subset of the Protamine Gene Family", *Biochem.* 24: 8021-8028 (1985)
8. Krawetz, SA, JC States and GH Dixon, "Isolation and Fractionation of Total Nucleic Acids from Tissues and Cells", *J. Biochem. Biophys. Methods* 12: 29-36 (1986)
9. Jankowski, J, JC States and GH Dixon, "Evidence of Sequences Resembling Avian Retrovirus Long Terminal Repeats (LTR's) Flanking the Trout Protamine Gene", *J. Molec. Evol.* 23: 1-10 (1986)
10. Wiginton, DA, DJ Kaplan, JC States, AL Akeson, CM Perme, IJ Bilyk, AJ Vaugh, DL Lattier, and JJ Hutton, "Complete Sequence and Structure of the Gene for Human Adenosine Deaminase", *Biochem.* 25: 8234-8245 (1986)
11. Markert, ML, DA Wiginton, JC States, RH Buckley, MS Hershfield, FE Ward, RE Kaufman and JJ Hutton, "Identification of a Deletion in the Adenosine Deaminase Gene in a Child with Severe Combined Immunodeficiency", *J. Immunol.* 138: 3203-3206 (1987)
12. Akeson, AL, DA Wiginton, JC States, CM Perme, MR Dusing and JJ Hutton, "Mutations in the Human Adenosine Deaminase Gene that Affect Protein Structure and RNA Splicing",

- Proc. Natl. Acad. Sci. (USA)* 84: 5947-5951 (1987)
13. Markert, ML, JJ Hutton, DA Wiginton, JC States and RE Kaufman, "Adenosine Deaminase (ADA) Deficiency Due to Deletion of the ADA Gene Promoter and First Exon by Homologous Recombination between Two Alu Elements", *J. Clin. Invest.* 81: 1323-1327 (1988)
 14. Winkfein, RJ, RD Moir, SA Krawetz, J Blanco, JC States and GH Dixon, "A New Family of Repetitive, Retroposon-Like Sequences in the Genome of the Rainbow Trout", *Eur. J. Biochem.* 176: 255-264 (1988)
 15. Akeson, AL, DA Wiginton, MR Dusing, JC States and JJ Hutton, "Mutant Human Adenosine Deaminase Alleles and Their Expression by Transfection into Fibroblasts", *J. Biol. Chem.* 263: 16291-16296 (1988)
 16. Lattier, DL, JC States, JJ Hutton and DA Wiginton, "Cell Type-Specific Transcriptional Regulation of the Human Adenosine Deaminase Gene", *Nucleic Acids Res.* 17: 1061-1076 (1989)
 17. Kim, SG, SE Shehin, JC States and RF Novak, "Evidence for Increased Translational Efficiency in the Induction of P450IIE1 by Solvents: Analysis of P450IIE1 mRNA Polyribosomal Distribution", *Biochem. Biophys. Res. Commun.* 172: 767-774 (1990)
 18. States, JC, Gebauer, BK and ED Berberoglu, "Rapid PCR-Based Analysis of DNA Fragments Cloned in LacZ Vectors", *Technique* 5: 246-253 (1990)
 19. Kim, SG, S Reddy, JC States and RF Novak, "Pyridine Effects on Expression and Molecular Regulation of the Cytochrome P450 IA Gene Subfamily", *Molec. Pharmacol.* 40: 52-57 (1991)
 20. States, JC, LR Patel and Q Li, "A Gel Electrophoresis System for Resolving Over 500 Nucleotides with a Single Sample Loading", *Biotechniques* 11: 46-48 (1991)
 21. Freeman, BC and JC States, "An STS in the Human Adenosine Deaminase Gene (Located 20q12-q13.1)", *Nucleic Acids Res.* 19: 5084 (1991)
 22. Freeman, BC and JC States, "An STS in the Human Cytoskeletal γ -Actin Gene", *Nucleic Acids Res.* 19: 5085 (1991)
 23. Freeman, BC and JC States, "An STS in the Human Skeletal α -Actin Gene", *Nucleic Acids Res.* 19: 5086 (1991)
 24. States, JC, TH Quan, RN Hines, RF Novak and M Runge-Morris, "Expression of Human Cytochrome P450 1A1 in DNA Repair Deficient and Proficient Human Fibroblasts Stably Transformed with an Inducible Expression Vector", *Carcinogenesis* 14: 1643-1649 (1993)
 25. Quan, TH, JJ Reiners, AO Bell, N Hong and JC States, "Cytotoxicity and Genotoxicity of ($\square$)-Benzo(a)pyrene-*trans*-7,8-dihydrodiol in CYP1A1-Expressing Human Fibroblasts quantitatively correlate with CYP1A1 expression level", *Carcinogenesis* 15: 1827-1832 (1994)
 26. Quan, TH, JJ Reiners, Jr, SJ Culp, P Richter and JC States, "Differential Mutagenicity and Cytotoxicity of ($\square$)-Benzo(a)pyrene-*trans*-7,8-dihydrodiol and ($\square$)-*anti*-Benzo(a)pyrene-*trans*-7,8-dihydrodiol-9,10-epoxide in Genetically Engineered Human Fibroblasts", *Molecular Carcinogenesis* 12: 91-102 (1995).
 27. Topping, RS, SP Myrand, BL Williams, JC Albert and JC States, "Characterization of the Human XPA Promoter", *Gene* 166: 341-342 (1995)
 28. Anastasiadis, PZ, JC States, BA Imerman, MC Louie, DM Kuhn and RA Levine, "Mitogenic Effects of Tetrahydrobiopterin in PC12 Cells", *Molec. Pharmacol.* 49: 149-155 (1996)

29. Quan, TH and JC States, "Preferential DNA Damage in p53 Gene by Benzo(a)pyrene Metabolites in CYP1A1-Expressing Xeroderma Pigmentosum Group A Cells", *Molecular Carcinogenesis* 16: 32-43 (1996)
30. States, JC and SP Myrand, "Splice Site Mutations in a Xeroderma Pigmentosum Group A Patient with Delayed Onset of Neurological Disease", *Mutat. Res.* 363: 171-177 (1996)
31. Myrand, SP, RS Topping and JC States, "Stable Transformation of Xeroderma Pigmentosum Group A Cells with an XPA Minigene Restores Normal Dna Repair and Mutagenesis of UV-Treated Plasmids" *Carcinogenesis* 17: 1907-1919 (1996)
32. D'Sa, C, R Arthur, JC States and DM Kuhn, "Tryptophan Hydroxylase: Cloning and Expression of the Native Brain Enzyme in Mammalian Cells", *J. Neurochem.* 67: 900-906 (1996)
33. States, JC and E Reed "Enhanced XPA mRNA Levels in Cisplatin-resistant Human Ovarian Cancer Are Not Associated with XPA Mutations or Gene Amplification", *Cancer Letters* 109: 233-237 (1996)
34. Kuhn, DM, R Arthur Jr and JC States "Phosphorylation and Activation of Brain Tryptophan Hydroxylase: Identification of Serine-58 as a Substrate Site for Protein Kinase A", *J. Neurochem.* 68: 2220-2223 (1997)
35. Cleaver, JE and JC States, "The DNA Damage Recognition Problem in Human and Other Eukaryotic Cells: the XPA Damage Binding Protein", *Biochem. J.* 328: 1-12 (1997)
36. States, JC, ER McDuffie, SP Myrand, McDowell, M. and JE Cleaver "Distribution of Mutations in the Human XPA Gene and Their Relationships to the Functional Regions of the DNA Damage Recognition Protein", *Human Mutation* 12: 103-113 (1998)
37. Cleaver, JE, Thompson LH, Richardson, AS, States, JC, " A Summary of Mutations in the UV-sensitive disorders: Xeroderma Pigmentosum, Cockayne Syndrome and Trichothiodystrophy", *Human Mutation* 14: 9-22 (1999).
38. Waalkes, MP, Fox, DA, States, JC, Patierno, SR and McCabe, MJ Jr, " Metals and Disorders of Cell Accumulation: Modulation of Apoptosis and Cell Proliferation ", *Toxicolog. Sci.* 56: 255-261 (2000).
39. McCabe, MJ, Jr, Singh, K, Reddy, SA, Chelladurai, B, Pounds, JG, Reiners, JJ, Jr and States, JC "Sensitivity of Myelomonocytic Leukemia Cells to Arsenite-induced Cell Cycle Disruption, Apoptosis and Enhanced Differentiation on the Inter-Relationship Between Arsenic Concentration, Duration of Treatment and Cell Cycle Phase", *J. Pharmacol. Exp. Therap.* 295: 724-733 (2000).
40. Lu, Y, Mani, S, Kandimalla, ER, Yu, D., Agrawal, S, States, JC and Bregman, DB "Targeting the Cockayne Syndrome Group B Protein with Antisense Oligonucleotides Sensitizes Ovarian Carcinoma Cells to Cisplatin, Oxaliplatin, or Ionizing Radiation", *Internatl. J. Oncol.* 19: 1089-1097 (2001).
41. States JC, Reiners JJ Jr, Pounds JG, Kaplan DJ, Beauerle BD, McNeely SC, Mathieu P, McCabe MJ Jr. Arsenite disrupts mitosis and induces apoptosis in SV40-transformed human skin fibroblasts. *Toxicol Appl Pharmacol.* 2002 Apr 15;180(2):83-91. Erratum in: *Toxicol Appl Pharmacol* 2002 Sep 1;183(2):152.
42. Mellon I, Hock T, Reid R, Porter PC, States JC. Polymorphisms in the human xeroderma pigmentosum group A gene and their impact on cell survival and nucleotide excision repair. *DNA Repair* 1:531-46 (2002).
43. Jiang, G, Skorvaga, M, Van Houten, B and States, JC. "Reduced sulfhydryls maintain specific incision of BPDE-DNA adducts by recombinant thermoresistant *B. caldotenax*

- UvrABC endonuclease", *Protein Expression and Purification* 31: 88-98 (2003)
44. Vonderheide, AP, Meija, J, Tepperman, K, Puga, A, Pinhas, AR, States, JC and Caruso, JA. "Retention of Cr(III) by High-Performance Chelation Ion Chromatography Interfaced to Inductively-Coupled Plasma-Mass Spectrometric Detection with Collision Cell", *J. of Chromatography A* 1024(1-2):129-137 (2004)
 45. Jiang G, Jankowiak R, Grubor N, Banasiewicz M, Small GJ, Skorvaga M, Van Houten B, States JC. Supercoiled DNA promotes formation of intercalated cis-N2-deoxyguanine adducts and base-stacked trans-N2-deoxyguanine adducts by (+)-7R,8S-dihydrodiol-9S,10R-epoxy-7,8,9,10-tetra- hydrobenzo[a]pyrene. *Chem Res Toxicol.* 17:330-339 (2004)
 46. Husain, A, Barker, DF, States, JC, Doll, MA and Hein, DW. "Identification of the major promoter and non-coding exons of the human arylamine N-acetyltransferase 1 gene (NAT1)", *Pharmacogenetics* 14:397-406 (2004)
 47. Zang, Y, Zhao, S, Doll, MA, States, JC and Hein, DW. "The T³⁴¹C (Ile114Thr) polymorphism of N-acetyltransferase 2 yields slow acetylator phenotype by enhanced protein degradation", *Pharmacogenetics* 14: 717-723 (2004)
 48. Porter PC, Mellon I, States JC. XP-A cells complemented with Arg228Gln and Val234Leu polymorphic XPA alleles repair BPDE-induced DNA damage better than cells complemented with the wild type allele. *DNA Repair* 4 :341-349.(2005)
 49. McCollum, G, Keng, PC, States, JC, McCabe, MJ, Jr. (2005) Arsenite delays progression through each cell cycle phase and induces apoptosis following G2/M arrest in U937 myeloid leukemia cells, *J. Pharmacol. Exp. Ther.* 313, 877-887.
 50. Jiang, GH, Skorvaga, M, Croteau, DL, Van Houten, B, States, JC. (2006) Robust incision of Benzo[a]pyrene-7,8-dihydrodiol-9,10-epoxide-DNA adducts by a recombinant thermoresistant interspecies combination UvrABC endonuclease system, *Biochemistry* 45, 7834-7843.
 51. Porter, PC, Clark, DR, McDaniel, LD, McGregor, WG, States, JC. (2006) Telomerase-immortalized human fibroblasts retain UV-induced mutagenesis and p53-mediated DNA damage responses, *DNA Repair (Amst)* 5, 61-70.
 52. Taylor, BF, McNeely, SC, Miller, HL, Lehmann, GM, McCabe, MJ, Jr., States, J. C. (2006) p53 suppression of arsenite-induced mitotic catastrophe is mediated by p21CIP1/WAF1, *J. Pharmacol. Exp. Ther.* 318, 142-151.
 53. Barker DF, Husain A, Neale JR, Martini BD, Zhang X, Doll MA, States JC and Hein DW. "Functional properties of an alternative, tissue-specific promoter for human arylamine N-acetyltransferase 1" *Pharmacogenetics and Genomics* 16:515-525 (2006)
 54. O'Brien TJ, Jiang G, Chun G, Mandel HG, Westphal C, Kahen K, Montaser A, States JC and Patierno SR. "Incision of trivalent chromium [Cr(III)]-induced DNA damage by *Bacillus caldotenax* UvrABC endonuclease" *Mutation Research / Genetic Toxicology and Environmental Mutagenesis* 610:85-92 (2006)
 55. McNeely, SC, Xu, X, Taylor, BF, Zacharias, W, McCabe, MJ, Jr., States, JC. (2006) Exit from arsenite-induced mitotic arrest is p53 dependent, *Environ. Health Perspect.* 114, 1401-1406. PMC1570045
 56. Metry, KJ, Zhao, S, Neale, JR, Doll, MA, States, JC, McGregor, WG, Pierce, Jr, WM and Hein, DW. "2-Amino-1-methyl-6-phenylimidazo [4,5-b] pyridine - induced DNA adducts and genotoxicity in Chinese Hamster Ovary (CHO) cells expressing human CYP1A2 and rapid or slow acetylator N-acetyltransferase 2" *Molecular Carcinogenesis* 46:553-563 (2007)

57. Srivastava, S, D'Souza, SE, Sen, U and States, JC. *In utero* arsenic exposure induces early onset of atherosclerosis in ApoE^{-/-} mice. *Reproductive Toxicology (special issue Fetal Basis of Adult Disease)* 23:449-56 (2007)
58. Husain, A, Zhang, X, Doll, MA, States, JC, Barker, JC and Hein, DW. Identification of N-Acetyltransferase 2 (NAT2) Transcription Start Sites and Quantitation of NAT2-specific mRNA in Human Tissues. *Drug Metabolism and Disposition* 35: 721-727 (2007)
59. Zang, Y, Doll, MA, Zhao, S, States, JC and Hein, DW. Functional Characterization of Single Nucleotide Polymorphisms and Haplotypes on Human N-Acetyltransferase 2. *Carcinogenesis* 28(8):1665-1671 (2007).
60. Bendaly, J, Zhao, S, Neale, JR, Metry, KJ, Doll, MA, States, JC, Pierce, WM, Jr. and Hein, DW. 2-Amino-3,8-dimethylimidazo-[4,5-f]quinoxaline-induced DNA adduct formation and mutagenesis in DNA repair-deficient Chinese hamster ovary cells expressing human cytochrome P4501A1 and rapid or slow acetylator N-acetyltransferase 2. *Cancer Epidemiology, Biomarkers & Prevention* 16:1503-1509 (2007)
61. Husain, A, Zhang, X, Doll, MA, States, JC, Barker, JC and Hein, DW. Functional Analysis of the Human N-Acetyltransferase 1 Major Promoter: Quantitation of Tissue Expression and Identification of Critical Sequence Elements. *Drug Metabolism and Disposition* 35:1649-1656 (2007)
62. Arteel, GE, Guo, L, Schlierf, T, Beier, JI, Kaiser, JP, Chen, TS, Liu, M, Conklin, DP, Miller, HL, von Montfort, C and States, JC. Subhepatotoxic exposure to arsenic enhances lipopolysaccharide-induced liver injury in mice. *Toxicology and Applied Pharmacology & Toxicology* 226:128-39 (2008)
63. McNeely SC, Belshoff AC, Taylor BF, Fan TW, McCabe, Jr. MJ, Pinhas AR and States JC. (2008) Sensitivity to sodium arsenite in human melanoma cells depends upon susceptibility to arsenite-induced mitotic arrest. *Toxicol. Appl. Pharmacol.*, 229, 252-261 (2008). PMC2474465.
64. Taylor BF, McNeely SC, Miller HL and States JC. (2008) Arsenite-induced mitotic death involves stress response and is independent of tubulin polymerization. *Toxicol. Appl. Pharmacol.* 230: 235-246 (2008) PMC2504415.
65. McNeely SC, Taylor BF and States JC.(2008) Mitotic arrest-associated apoptosis induced by Sodium Arsenite in A375 Melanoma cells is BUBR1-dependent. *Toxicol. Appl. Pharmacol.* 231: 61-67 (2008)
66. Barker DF, Walraven JM, Ristagno EH, Doll MA, States JC, Hein DW. Quantitative Tissue and Gene Specific Differences and Developmental Changes in Nat1, Nat2 and Nat3 mRNA Expression in the Rat. *Drug Metab Dispos.* 36:2445-51 (2008) [doi:10.1124/dmd.108.023564](https://doi.org/10.1124/dmd.108.023564)
67. States JC, Srivastava S, Chen Y and Barchowsky A. Arsenic and Cardiovascular Disease. *Toxicolog. Sci.* 107:312-23 (2009) [doi:10.1093/toxsci/kfn236](https://doi.org/10.1093/toxsci/kfn236)
68. Helm, CW and States, JC. Enhancing the efficacy of cisplatin in ovarian cancer treatment – could arsenic have a role, *J Ovarian Res.* 2:2 (2009), Jan 14 [doi:10.1186/1757-2215-2-2](https://doi.org/10.1186/1757-2215-2-2)
69. Bendaly J, Metry KJ, Doll MA, Jiang G, States JC, Smith NB, Neale JR, Holloman JL, Pierce WM, Hein DW. Role of human CYP1A1 and NAT2 in 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine-induced mutagenicity and DNA adducts. *Xenobiotica* 39:399-406 (2009)
70. Srivastava, S, Vladyskovskaya, EN, Haberzettl, P, Sithu, SD, D'Souza, SE, States, JC. Arsenic Exacerbates Atherosclerotic Lesion Formation And Inflammation In APOE^{-/-} Mice. *Toxicol. Appl. Pharmacol.* 241:90-100 (2009)

71. Lavender, NA, Komolafe, OO, Benford, M, Brock, G, Moore, JH, VanCleave, TT, States, JC, Kittles, RA, Kidd, LR. No Association between Variant DNA Repair Genes and Prostate Cancer Risk among Men of African descent. *The Prostate* 70:113-9 (2010)
72. Salazar, AM, Miller, HL, McNeely, SC, Sordo, M, Ostrosky-Wegman, P, States, JC. Suppression of p53 and p21CIP1/WAF1 reduces arsenite-induced aneuploidy. *Chemical Research in Toxicology* 23:357-64 (2010) PMID: PMC2825144
73. Metry, KJ, Neale, JR, Doll MA, Howarth, AL, States, JC, McGregor, WG, Pierce, WM Jr, Hein, DW. Effect of rapid human N-acetyltransferase 2 haplotype on DNA damage and mutagenesis induced by 2-amino-3-methylimidazo-[4,5-f]quinoline (IQ) and 2-amino-3,8-dimethylimidazo-[4,5-f]quinoxaline (MeIQx). *Mutation Research* 684:66-73 (2010)
74. von Montfort C, Beier JI, Kaiser JP, Guo L, Joshi-Barve S, Pritchard MT, States JC, Arteel GE. PAI-1 plays a protective role in CCl4-induced hepatic fibrosis in mice: role of hepatocyte division. *Am J Physiol Gastrointest Liver Physiol*. 298:G657-66 (2010)
75. Banerjee, M, Banerjee, N, Ghosh, P, Das, JK, Basu, S, Sarkar, AK, States, JC, Giri, AK. Evaluation of the Serum Catalase and Myeloperoxidase Activity in the Chronic Arsenic Exposed Individuals and Concomitant Cytogenetic Damage. *Toxicol. Appl. Pharmacol.* 249:47-54 (2010)
76. Kundu M, Ghosh P, Mitra S, Das JK, Sau TJ, Banerjee S, States JC, Giri AK. Precancerous and non-cancer disease endpoints of chronic arsenic exposure: The level of chromosomal damage and XRCC3 T241M polymorphism. *Mutat Res.* 706:7-12 (2011)
77. Zhu Y, States JC, Wang Y, Hein DW. Functional Effects of Genetic Polymorphisms in the N-Acetyltransferase 1 Coding and 3' Untranslated Regions. *Birth Defects Res. (Part A)* 91:77-84 (2011)
78. Banerjee N, Nandy S, Kearns JK, Bandyopadhyay AK, Das JK, Majumder P, Basu S, Banerjee S, Sau TJ, States JC, Giri AK. Polymorphisms in the TNF- α and IL10-gene promoters and risk of arsenic-induced skin lesions and other health effects. *Toxicol. Sci.* 121:132-9 (2011)
79. States, JC, Barchowsky, A, Cartwright, IL, Reichard, JF, Futscher, BW, Lantz, RC. Arsenic Toxicology: Translating between Experimental Models and Human Pathology. *Environ Health Perspect.* 119:1356-63 (2011).
80. Muenyi CS, States VA, Masters JH, Fan TW, Helm CW, States JC. Sodium arsenite and hyperthermia modulate cisplatin-DNA damage responses and enhance platinum accumulation in murine metastatic ovarian cancer xenograft after hyperthermic intraperitoneal chemotherapy (HIPEC). *J Ovarian Res.* Jun 22; 4:9 (2011).
81. Millner LM, Doll MA, Cai J, States JC, Hein DW. NATb/NAT1*4 promotes greater arylamine N-acetyltransferase 1 mediated DNA adducts and mutations than NATa/NAT1*4 following exposure to 4-aminobiphenyl. *Mol Carcinog.* 51:636-46 (2012).
82. Tan M, Schmidt RH, Beier JI, Watson WH, Zhong H, States JC, Arteel GE. Chronic subhepatotoxic exposure to arsenic enhances hepatic injury caused by high fat diet in mice. *Toxicol Appl Pharmacol.* 257:356-364, 2011
83. Millner LM, Doll MA, Cai J, States JC, Hein DW. Phenotype of the Most Common "Slow Acetylator" Arylamine N-Acetyltransferase 1 Genetic Variant (NAT1*14B) is Substrate-Dependent. *Drug Metab Dispos.* 40:198-204 (2012).
84. Millner LM, Doll MA, Stepp MW, States JC, Hein DW. Functional analysis of arylamine N-acetyltransferase 1 (NAT1) NAT1*10 haplotypes in a complete NATb mRNA construct. *Carcinogenesis* 33:348-55 (2012).

85. Muenyi CS, Pinhas AR, Fan TW, Brock GN, Helm CW, States JC. Sodium arsenite $\pm$ hyperthermia sensitizes p53 expressing human ovarian cancer cells to cisplatin by modulating platinum DNA damage responses. *Toxicological Sciences* 27:139-49 (2012).
86. Boekelheide K, Blumberg B, Chapin RE, Cote I, Graziano JH, Janesick A, Lane R, Lillycrop K, Myatt L, States JC, Thayer KA, Waalkes MP, Rogers JM. Predicting later-life outcomes of early-life exposures. *Environ Health Perspect.* 120: 1353-1361 (2012) <http://dx.doi.org/10.1289/ehp.1204934>
87. States JC, Singh AV, Knudsen TB, Rouchka EC, Ngalame NO, Arteel GE, Piao Y, Ko MS. Prenatal Arsenic Exposure Alters Gene Expression in the Adult Liver to a Proinflammatory State Contributing to Accelerated Atherosclerosis. *PLoS ONE* 7(6): e38713 (2012). doi:10.1371/journal.pone.0038713
88. Das N, Paul S, Chatterjee D, Banerjee N, Majumder NS, Sarma N, Sau TJ, Basu S, Banerjee S, Majumder P, Bandyopadhyay AK, States JC, Giri AK. Arsenic exposure through drinking water increases the risk of liver and cardiovascular diseases in the population of West Bengal, India. *BMC Public Health.* 12:639 (2012) doi: 10.1186/1471-2458-12-639.
89. Ngalame N, Micciche A, Feil M, States JC. Delayed temporal increase of hepatic Hsp70 in ApoE knockout mice after prenatal arsenic exposure. *Toxicol Sci.* 131: 225-233 (2013) PMID: 22956628
90. Muenyi, CS, Pandit, A, Helm, CW, States, JC. Cisplatin Plus Sodium Arsenite And Hyperthermia Induces Pseudo-G1 Associated Apoptotic Cell Death In Ovarian Cancer Cells. *Toxicological Sciences* 139:74-82 (2014) PMID: 24519527
91. States, JC, Ouyang, M, Helm, CW. Systems Approach to Identify Environmental Exposures Contributing to Organ-Specific Carcinogenesis. *Cancer Epidemiology* 38:321-327 (2014) PMID: 24721284
92. Wahlang B, Falkner KC, Clair HB, Al-Eryani L, Prough RA, States JC, Coslo DM, Omiecinski CJ, Cave MC. Human receptor activation by aroclor 1260, a polychlorinated biphenyl mixture. *Toxicological Sciences* 140:283-297 (2014). PMID: 24812009
93. Wahlang B, Song M, Beier JI, Cameron Falkner K, Al-Eryani L, Clair HB, Prough RA, Osborne TS, Malarkey DE, States JC, Cave MC. Evaluation of Aroclor 1260 exposure in a mouse model of diet-induced obesity and non-alcoholic fatty liver disease. *Toxicol Appl Pharmacol.* 279:380-90 (2014). PMID: 24998970
94. States JC. Disruption of Mitotic Progression by Arsenic. *Biological Trace Elements in Research* 166: 36-40 (2015) PMID: 25796515
95. Stepp MW, Mamaliga G, Doll MA, States JC, Hein DW. Folate-Dependent Hydrolysis of Acetyl-Coenzyme A by Recombinant Human and Rodent Arylamine N-Acetyltransferases. *Biochem Biophys Rep.* 3:45-50 (2015). PMID: 26309907
96. Muenyi CS, Ljungman M, States JC. Arsenic disruption of DNA damage responses – potential role in carcinogenesis and chemotherapy. *Biomolecules* 25:2184-93 (2015) PMID: 26404387
97. Wahlang B, Prough RA, Falkner KC, Hardesty JE, Song M, Clair HB, Clark BJ, States JC, Arteel GE, Cave MC. Polychlorinated Biphenyl-Xenobiotic Nuclear Receptor Interactions Regulate Energy Metabolism, Behavior, and Inflammation in Non-alcoholic-Steatohepatitis. *Toxicol Sci.* 149(2):396-410 (2016) PMID: 26612838
98. Carlisle SM, Trainor PJ, Yin X, Doll MA, Stepp MW, States JC, Zhang X, Hein DW. Untargeted polar metabolomics of transformed MDA-MB-231 breast cancer cells expressing varying levels of human arylamine N-acetyltransferase 1. *Metabolomics* 2016 Jul;12(7). pii:

- 111 (2016) PMID: 27872580
99. Yu R, Prabhakar M, States JC, Jiang Y, Wu J. Association between arsenic exposure in drinking water and stillbirth: A meta-analysis. *Nature Environment and Pollution Technology* 16(3):775-781 (2017)
100. Stepp MW, Doll MA, Samuelson DJ, Sanders MA, States JC, Hein DW. Congenic rats with higher arylamine N-acetyltransferase 2 activity exhibit greater carcinogen-induced mammary tumor susceptibility independent of carcinogen metabolism. *BMC Cancer*. 2017 Mar 31;17(1):233. PMID: 28359264, PMCID: PMC5374573
101. Al-Eryani L, Waigel S, Jala V, Jenkins SF, States JC. Cell cycle pathway dysregulation in human keratinocytes during chronic exposure to low arsenite. *Toxicol Appl Pharmacol*. 331:130-134 (2017). PMID: 28595984
102. Al-Eryani L, Waigel S, Tyagi A, Permarti J, Jenkins S, Damodaran C, States JC. Differentially Expressed mRNA Targets of Differentially Expressed miRNAs Predict Changes in the TP53 Axis and Carcinogenesis-Related Pathways in Human Keratinocytes Chronically Exposed to Arsenic. *Toxicological Sciences*, 162:645-654 (2018) PMID: 29319823
103. Stepp MW, Doll MA, Carlisle SM, States JC, Hein DW. Genetic and Small Molecule Inhibition of Arylamine N-acetyltransferase 1 Reduces Anchorage-Independent Growth in Human Breast Cancer Cell Line MDA-MB-231. *Mol Carcinog*. 57:549-558 (2018) PMID: 29315819
104. Zhang, X, Carlisle SM, Doll MA, Martin RCG, States JC, Klinge CM, Hein DW. High N-acetyltransferase 1 (NAT1) expression is associated with estrogen receptor expression in breast tumors, but is not under direct regulation by estradiol, 17beta-diol, or dihydrotestosterone in breast cancer cells. *J Pharmacol Exp Ther*. 365:84-93 (2018) PMID: 29339455
105. Siefring ML, Lu D, States JC, Van Hoang M. Rapid onset of multiple concurrent squamous cell carcinomas associated with the use of an arsenic-containing traditional medicine for chronic plaque psoriasis. *BMJ Case Rep*. 2018 Mar 30;2018. pii: bcr-2017-222645. doi: 10.1136/bcr-2017-222645. PMID: 29602886
106. Cardoso APF, Al-Eryani L, States JC. (2018) Arsenic-induced carcinogenesis: the impact of miRNA dysregulation. *Toxicological Sciences* 165(2):284-290. doi: 10.1093/toxsci/kfy128. PMID: 29846715.
107. Young JL, Cai L, States JC. (2018) Impact of Prenatal Arsenic Exposure on Chronic Adult Diseases. *Syst Biol Reprod Med* 2018 Dec;64(6):469-483. doi: 10.1080/19396368.2018.1480076. Epub 2018 Jun 6 PMID: 29873257
108. Al-Eryani L, Jenkins SF, States VA, Pan J, Malone JC, Rai SN, Galandiuk S, Giri AK, States JC. (2018) miRNA expression profiles of premalignant and malignant arsenic-induced skin lesions. *PLoS ONE* 13(8):e0202579. doi: 10.1371/journal.pone.0202579. PMID: 30114287
109. Wu J, Ferragut Cardoso AP, States VAR, Al-Eryani L, Doll M, Wise SS, Rai SN, States JC. Overexpression of hsa-miR-186 induces chromosomal instability in arsenic-exposed human keratinocytes. *Toxicol Appl Pharmacol* (2019) Sep 1;378:114614. doi: 10.1016/j.taap.2019.114614. Epub 2019 Jun 6. PubMed PMID: 31176655 PMC6746570
110. Baldauf KJ, Salazar-González RA, Doll MA, Pierce WM Jr, States JC, Hein DW. Role of Human N-Acetyltransferase 2 Genetic Polymorphism on Aromatic Amine Carcinogen-

- Induced DNA Damage and Mutagenicity in a Chinese Hamster Ovary Cell Mutation Assay. *Environ Mol Mutagen.* (2019) 61:235-245. PMID: 31490564 PMC7017392
111. Young JL, Yan X, Xu J, Yin X, Zhang X, Arteel GE, Barnes GN, States JC, Watson WH, Kong M, Cai L, Freedman JH. Cadmium and High-Fat Diet Disrupt Renal, Cardiac and Hepatic Essential Metals. (2019) *Sci Rep* 2019 Oct 11;9(1):14675. doi: 10.1038/s41598-019-50771-3. PMID: 31604971 PMC6789035
112. Young JL, Yan X, Xu J, Yin X, Zhang X, Arteel GE, Barnes GN, States JC, Watson WH, Kong M, Cai L, Freedman JH. Publisher Correction: Cadmium and High-Fat Diet Disrupt Renal, Cardiac and Hepatic Essential Metals. *Sci Rep* (2020) Feb 10;10(1):2609. PMID: 32042093 PMC7010654
113. Chandrasekaran B, Dahiya NR, Tyagi A, Kolluru V, Saran U, Baby BV, States JC, Haddad AQ, Ankem MK, Damodaran C. Chronic Exposure to Cadmium Induces a Malignant Transformation of Benign Prostate Epithelial Cells. *Oncogenesis* (2020) 9:23. PMID: 32066655 PMC7026396
114. Banerjee M, Ferragut Cardoso AP, Lykoudi A, Wilkey DW, Pan J, Watson WH, Garbett NC, Rai SN, Merchant ML, States JC. Arsenite Exposure Displaces Zinc From ZRANB2 Leading to Altered Splicing. *Chem Res Toxicol* 2020 Jun 15;33(6):1403-1417. doi: 10.1021/acs.chemrestox.9b00515. Epub 2020 Apr 27.. PMID: 32274925 PMCID: PMC7405655
115. Kim C, States JC, Ceresa BP. Chronic and acute arsenic exposure enhance EGFR expression via distinct molecular mechanisms. *Toxicol In Vitro* (2020) 67:104925. PMID: 32599262 PMCID: PMC7375208
116. Ferragut Cardoso AP, Udoh KT, States JC. Arsenic-induced changes in miRNA expression in cancer and other diseases. *Toxicol Appl Pharmacol.* 2020 Dec 15;409:115306. doi: 10.1016/j.taap.2020.115306. PMID: 33127375 PMCID: PMC7772821
117. Leggett CS, Doll MA, States JC, Hein DW. Acetylation of putative arylamine and alkylaniline carcinogens in immortalized human fibroblasts transfected with rapid and slow acetylator N-acetyltransferase 2 haplotypes. *Arch Toxicol.* 2021 Jan;95(1):311-319. doi: 10.1007/s00204-020-02901-4. PMID: 33136180 PMCID: PMC7855884
118. Ferragut Cardoso AP, Banerjee M, Nail AN, Lykoudi A, States JC. miRNA dysregulation is an emerging modulator of genomic instability. *Semin Cancer Biol.* 2021 76:120-131. doi: 10.1016/j.semcancer.2021.05.004. PMID: 33979676
119. Banerjee M, Ferragut Cardoso A, Al-Eryani L, Pan J, Kalbfleisch TS, Srivastava S, Rai SN, States JC. Dynamic alteration in miRNA and mRNA expression profiles at different stages of chronic arsenic exposure-induced carcinogenesis in a human cell culture model of skin cancer *Arch Toxicol.* 2021 Jul;95(7):2351-2365. doi: 10.1007/s00204-021-03084-2. Epub 2021 May 25. PMID: 34032870 PMCID: PMC8241660
120. Ferragut Cardoso AP, Banerjee M, Al-Eryani L, Mohammed Sayed M, Wilkey DW, Merchant ML, Park JW, States JC. Temporal Modulation of Differential Alternative Splicing in HaCaT Human Keratinocyte Cell Line Chronically Exposed to Arsenic for up to 28 Wk. *Environmental Health Perspectives* 2022 Jan;130(1):17011. doi: 10.1289/EHP9676. Epub 2022 Jan 24. PMID: 35072517 PMCID: PMC8785870
121. Banerjee M, Al-Eryani L, Srivastava S, Rai SN, Pan J, Kalbfleisch TS, States JC. Delineating the Effects of Passaging and Exposure in a Longitudinal Study of Arsenic-induced Squamous Cell Carcinoma in a HaCaT Cell Line Model. *Toxicol Sci.* 2022 Jan 24;185(2):184-196. doi: 10.1093/toxsci/kfab129. PMID: 34730829

122. Nail AN, McCaffrey LM, Banerjee M, Ferragut Cardoso AP, States JC. Chronic arsenic exposure suppresses ATM pathway activation in human keratinocytes. *Toxicol. Appl. Pharmacol.* 2022 Jul 1;446:116042. doi: 10.1016/j.taap.2022.116042. Epub 2022 May 2 PMID: 35513056.
123. Bastick JC, Banerjee M, States JC. Zinc supplementation prevents arsenic-induced dysregulation of ZRANB2 splice function. *Environ Toxicol Pharmacol* . 2022 Aug;94:103921. doi: 10.1016/j.etap.2022.103921. Epub 2022 Jun 25. PMID: 35764259
124. Banerjee M, Yaddanapudi K, States JC. Zinc supplementation prevents mitotic accumulation in human keratinocyte cell lines upon environmentally relevant arsenic exposure. *Toxicol Appl Pharmacol.* 2022 Nov 1;454:116255. doi: 10.1016/j.taap.2022.116255. PMID: 36162444 PMCID: PMC9683715
125. Nail AN, Ferragut Cardoso AP, Montero LK, States JC. miRNAs and arsenic-induced carcinogenesis. *Adv Pharmacol.* (2023) 96:203-240. <https://doi.org/10.1016/bs.apha.2022.10.002>. PMID: 36858773 PMCID: PMC10184182
126. Ferragut Cardoso AP, Nail AN, Banerjee M, Wise SS, States JC. miR-186 induces tetraploidy in arsenic exposed human keratinocytes. *Ecotoxicol Environ Saf.* 2023 Mar 27;256:114823. <https://doi.org/10.1016/j.ecoenv.2023.114823>. PMID: 36989553 PMCID: PMC10226781
127. Nail AN, Xu M, Bastick JC, Patel DP, States JC. Arsenic and Human Health: New Molecular Mechanisms For Arsenic-Induced Cancers. *Current Pollution Reports* (2023) <https://doi.org/10.1007/s40726-023-00278-3>
128. Stingone JA, Geller AM, Hood DB, Makris KC, Mouton CP, States JC, Summer SJ, Wu KL, Rajasekar AK, The Exposome Consortium. Community-level exposomics: A population-centered approach to address public health concerns. *Exposome* 3:1, osad009, (2023) <https://doi.org/10.1093/exposome/osad009>
129. States JC and Barchowsky A. Invited Perspective: Humanized Mice for Arsenic Metabolism—A Better Model for Investigating Arsenic-Induced Diseases? *Environmental Health Perspectives* 131(12): 121308-1 (2023) <https://doi.org/10.1289/EHP13932>
130. Lykoudi A, Ferragut Cardoso AP, Wise SS, Banerjee M, States JC. Clonal variability in chromosomal instability as a potential driver in the acquisition of tumorigenic phenotype in chronic arsenic-exposed and hsa-miR-186 overexpressing human keratinocytes. *Toxicol Appl Pharmacol.* 2023 Nov 15;479:116730. doi: 10.1016/j.taap.2023.116730. Epub 2023 Oct 20. PMID: 37866707
131. Augenstein II, Nail AN, Ferragut Cardoso AP, States JC, Banerjee M. Chronic arsenic exposure suppresses proteasomal and autophagic protein degradation. *Environ Toxicol Pharmacol.* 2024 Apr;107:104398. doi: 10.1016/j.etap.2024.104398. Epub 2024 Feb 23. PMID: 38403142
132. Banerjee M, Srivastava S, Rai SN, States JC. Chronic arsenic exposure induces malignant transformation of human HaCaT cells through both deterministic and stochastic changes in transcriptome expression. *Toxicol Appl Pharmacol.* 2024 Mar;484:116865. doi: 10.1016/j.taap.2024.116865. Epub 2024 Feb 17. PMID: 38373578
133. Chung MK, House JS, Akhtari FS, Makris KC, Langston MA, Islam KT, Holmes P, Chadeau-Hyam M, Smirnov AI, Du X, Thessen AE, Cui Y, Zhang K, Manrai AK, Motsinger-Reif A, Patel CJ; Members of the Exposomics Consortium. Decoding the exposome: data science methodologies and implications in exposome-wide association

- studies (ExWASs). *Exposome*. 2024 Jan 17;4(1):osae001. doi: 10.1093/exposome/osae001. eCollection 2024. PMID: 38344436
134. Tomlinson MM, Pugh F, Nail A, Newton JD, Udoh K, Abraham S, Kavalukas S, Guinn B, Tamimi RM, Laden F, Iyer H, States JC, Ruther M, Ellis CT, DuPré NC. Heavy-Metal Associated Breast Cancer and Colorectal Cancer Hot Spots and their Demographic and Socioeconomic Characteristics. *Cancer Causes Control*. 2024 35(10):1367-1381. doi: 10.1007/s10552-024-01894-0. Online ahead of print. PMID: 38916703.
 135. Consortium for Children's Environmental Health (Wirth DA, Cropper M, Axelrad DA, Bald C, Bhatnagar A, Birnbaum LS, Burke TA, Chiles TC, Geiser K, Griffin C, Kumar P, Mandrioli D, Park Y, Roger A, Smith TR, States JC, Straif K, Tickner JA, Wagner W, Wang Z, Whitman EM, Woodruff TJ, Yousuf A, Landrigan PJ). Manufactured Chemicals and Children's Health: The Need for New Law. *New England Journal of Medicine* 2025 Jan 16;392(3):299-305. doi: 10.1056/NEJMms2409092. Epub 2025 Jan 8. PMID: 39778185
 136. Banerjee M, Lykoudi A, Hwang JY, Pan J, Rai SN, Park JW, States JC. Dysregulation of mRNA expression by hsa-miR-186 overexpression in arsenic-induced skin carcinogenesis. *Toxicol Appl Pharmacol* 2025 Feb;495:117209. doi: 10.1016/j.taap.2024.117209. Epub 2024 Dec 22. PMID: 39719251

Books

1. *Arsenic: Exposure Sources, Health Risks and Mechanisms of Toxicity*, J.C. States (ed), Wiley, New York (2016)

Articles published in a Book, Pamphlet or Bulletin:

1. Janakidevi, K and States, JC "Stabilization of Chromatin by Poly(ADP-ribose)" In: *Novel ADP-Ribosylations of Regulatory Enzymes and Proteins, Developments in Cell Biology*, Volume 6, ME Smulson and T Sugimura, eds., Elsevier/North Holland, New York (1980) pp. 111-130
2. Dixon, GH, RM Moire, JM Aiken, D McKenzie, J Jankowski and JC States, "Organization and Evolution of the Protamine Genes of Salmonid Fishes" In: *Chromosomal Proteins and Gene Expression*, GR Reeck, GA Goodwin and P Puigdomenech, eds., Plenum Press, New York, (1986) pp. 287-314
3. States, JC, "Complementation of Xeroderma pigmentosum Group A Cells by DNA Mediated Gene Transfer" In: *Mechanisms and Consequences of DNA Damage Processing*, UCLA Symposia on Molecular and Cellular Biology, New Series, Vol. 83, EC Friedberg and PC Hanawalt, eds., Alan R. Liss Inc. New York, (1988) pp. 307-311
4. Levine, RA, JC States, PZ Anastasiadis and DM Kuhn, "Cloning and characterization of genes encoding tetrahydrobiopterin biosynthetic enzymes", in: *Chemistry and Biology of Pteridines and Folic Acid Derivatives*, JE Ayling, MG Nair, and CM Baugh (eds), Plenum Press, New York, (1993) pp. 139-145.
5. Anastasiadis, PZ, DM Kuhn, JC States and RA Levine, "Co-induction of tetrahydrobiopterin (BH4) levels and tyrosine hydroxylase activity in cultured PC12 cells" in: *Chemistry and Biology of Pteridines and Folic Acid Derivatives*, JE Ayling, MG Nair, and CM Baugh (eds), Plenum Press, New York, (1993) pp. 227-230.
6. States, JC, McCabe, MJ, Jr., Reiners, JJ, Jr., Kaplan, DJ, Mathieu, P, Sowder, HG, Lumetta, VJ and Pounds, JG, "Arsenite Disrupts Mitosis and Induces Apoptosis in Phenotypically p53

- Negative Human Skin Fibroblasts" (2000) In: *11th International Conference on Heavy Metals in the Environment*, (J. Nriagu, Editor), Contribution #1025, University of Michigan, School of Public Health, Ann Arbor, MI (CD-ROM)
7. States, JC. "Arsenic-induced Mitotic Disruption and Aneuploidy" *Perspectives in Cytology and Genetics* 14: 71-76 (2009)
 8. States JC. "Arsenic-Induced Skin Cancers Arise without UV-Induced P53 Mutations" *Perspectives in Cytology and Genetics* 15: 13-18 (2011)
 9. Barchowsky A, States JC. 'Arsenic induced cardiovascular disease' Chapter 20 in *Arsenic: Exposure Sources, Health Risks and Mechanisms of Toxicity*, J.C. States (ed), Wiley, New York (2016)
 10. States JC. 'Translating experimental data to human populations' Chapter 24 in J.C. States (ed), *Arsenic: Exposure Sources, Health Risks and Mechanisms of Toxicity*, Wiley, New York (2016)
 11. States JC. "Arsenic Carcinogenesis" Chapter 8 in Mudipalli A, Zelikoff JT (eds), *Essential and Non-essential Metals: Carcinogenesis, Prevention and Cancer Therapeutics*, Springer, 2017
 12. Nail AN, Ferragut Cardoso AP, Banerjee M. States JC. 'Circulating miRNAs as Biomarkers of Toxic Heavy Metal Exposure' (Chapter 4), in Sahu S (ed) *Genomic and Epigenomic Biomarkers of Toxicology and Disease*, Wiley, 2022

Editorials, special articles and book reviews:

1. States, JC, McGregor, WG and Ljungman, M "2nd Annual Midwest DNA Repair Symposium, University of Louisville, Louisville, KY 20-21 May 2000", *Mutat. Res. – DNA Repair* 461: 163-167 (2000).
2. States, JC, "Short Protocols in Human Genetics", *Functional Genomics and Proteomics* 4: 194-5 (2005) (invited book review)
3. Balhorn R, Davies PL, Kleene KC, Krawetz SA, Mezquita-Pla J, Oliva R, States JC, Tempest HG (2018) Special Issue in Honor of Gordon H. Dixon. *Syst Biol Reprod Med*. 64(6):399-402. doi: 10.1080/19396368.2018.1532556.
4. States JC, Peters JM. 2020-2021 Toxicological Sciences Paper of the Year. *Toxicol Sci*. 2022 Mar 28;186(2):177-178. doi: 10.1093/toxsci/kfac020. PMID: 35348797
5. Cai L, Holm RH, Zhang CH, Talley D, Smith T, States JC. Wastewater-based epidemiology for comprehensive communitywide exposome surveillance: A gradient of metals exposure. medRxiv <https://www.medrxiv.org/content/10.1101/2023.09.26.23295844v1>.

Published Abstracts:

1. States, JC And K Janakidevi, "Stabilization of Chromatin By Poly ADP-ribosylation" XIth International Congress of Biochemistry (1979)
2. States, JC, W Connor, MA Wosnick, L Gedamu, and GH Dixon, "Nucleotide Sequence Of A Protamine CII Gene And Surrounding Region" Canadian Federation of Biological Societies (1982)
3. States, JC, W Connor, MA Wosnick, L Gedamu and GH Dixon, "Structure And Organization Of A Protamine CII Gene" *J. Cellul. Biochem, Suppl.* 6: 808 (1982)
4. States, JC, W Connor, MA Wosnick, L Gedamu and GH Dixon, "Nucleotide Sequence of a Protamine CII Gene and Surrounding Regions" Federation of American Societies For

- Experimental Biology (1982)
5. Connor, W, J Mezquita, JC States and GH Dixon, "Organization of Histone Genes and Surrounding Regions in Rainbow Trout" Fed. Proc. 42:(7) 1757 (1983)
 6. States JC, Jankowski J, Eames J, Dixon GH, Inhibition By Protamine Gene Of Transformation Of Mouse L-Tk(-)-Cells By A HSV-1-TK-Gene, DNA 2 (1): 84 (1983)
 13. States, JC, J Jankowski, J Eames and GH Dixon, "Co-transformation of Mouse L Tk- Cells with a Trout Protamine Gene and a HSV-1 TK Gene" American Society of Biological Chemistry (1983)
 14. States JC, Jankowski J, Riekkki K, Hoar D, Dixon GH, Aberrant Transient Expression Of A Rainbow-Trout Protamine Gene In Mouse Cells, DNA 3 (2): 190 (1984)
 15. Wiginton D, Kaplan D, States JC, Akesson A, Perme C, Bilyk I, Vaughn A, Lattier D, Hutton J, Sequence And Structure Of The Human Adenosine-Deaminase Gene, Fed.Proc. 45 (6): 1620 1986.
 16. States, JC, "Restoration of Host Cell Reactivation Activity of Xeroderma Pigmentosum Complementation Group A Cells" J. Cellul. Biochem, Suppl. 12A: E364 (1987)
 17. Kim, SG, JC States and RF Novak, "Examination of the Molecular Basis for Induction of Cytochromes P450 by Pyridine" FASEB J. 7, 1621 (1990)
 18. States, JC, "Non-homologous Recombination of Transfected Supercoiled Plasmid DNA in Human Cells" FASEB J. 7: 3477 (1990)
 19. Reddy, SL, SG Kim, AR Dahl, J Hotchkiss, JC States and RF Novak, "RT-PCR Detection of CYP1A1, 1A2 and 2E1 mRNAs in Rat Nasal Tissue" FASEB J. 8: A1162 (1991)
 20. States, JC, RN Hines, RF Novak, and M Runge-Morris, "Controlled Expression of Cytochrome P450 1A1 in Human Cells Transformed with an Inducible Expression Construct" Proc. Am. Assoc. Cancer Res. 33: 30 (1992)
 21. Levine, RA, PZ Anastasiadis, SK Demetriou and JC States, "Characterization of Human Brain Sepiapterin Reductase (SR) cDNA" Society for Neuroscience (1993)
 22. Anastasiadis, PZ, JC States, DM Kuhn and RA Levine, "Effect of Tetrahydrobiopterin on the Proliferation and DNA Synthesis of PC12 Cells" Society for Neuroscience (1993)
 23. States, JC and TH Quan "Cytotoxicity and genotoxicity of benzo(a)pyrene metabolites in human fibroblasts transformed with an inducible human CYP1A1 expression vector" International Society for the Study of Xenobiotics Proceedings 4: 140 (1993)
 24. Lu, X, JC States and PF Hollenberg "Cloning and expression in human cells of the cytochrome P4502E1 cDNA from rat liver" International Society for the Study of Xenobiotics Proceedings 4: 177 (1993)
 25. Levine, RA, PZ Anastasiadis, RL Shoemaker, JC States and DM Kuhn, "Coordinate Regulation of Tetrahydrobiopterin (BH4) and Catecholamine-related Rat and Human Genes" Society for Neuroscience (1994)
 26. Anastasiadis, PZ, RL Shoemaker, B Imerman, JC States, DM Kuhn and RA Levine, "The Effect of NGF and EGF on PC12 Cell Proliferation Is Mediated by Intracellular Tetrahydrobiopterin" Society for Neuroscience (1994)
 27. Lu X, States JC, Hollenberg PF, Cloning And Expression In Human Cells Of Cytochrome-P450 2E1 cDNA From Rat-Liver, FASEB JOURNAL 8 (7): A1256 (1994)
 28. States, JC, TH Quan, JJ Reiners Jr, and SJ Culp, "Genotoxicology Of Benzo(a)pyrene-7,8-dihydrodiol and Benzo[a]pyrene-7,8-dihydrodiol-9,10-epoxide in Genetically Engineered Human Cells", J. Cellul. Biochem. Suppl. 19A:191 (1995)
 29. States, JC, RS Topping, TR Mckeown and SP Myrand, "Characterization of the Human

- XPAC Gene Promoter and Complementation of XPA Cells with an XPAC Minigene", J. Cellul. Biochem. Suppl. 21A, 284 (1995)
30. Quan, TH and JC States, "Preferential DNA Damage in the P53 Gene by Benzo[a]pyrene Metabolites in Xeroderma Pigmentosum Group A Cells", (1995) J. Cellul. Biochem. Suppl. 21A, 283 (1995)
 31. States, JC and Quan, TH, "Dose Fractionation Alters the Genotoxicity of Benzo[a]pyrene-7,8-dihydrodiol-9,10-epoxide in Human Fibroblasts", Fund. Appl. Toxicol. 36(1), Part 2, 1579 (1997)
 32. States, JC, Ahmad, I, Gallant, J and Maiese, K, "Selective Loss of the Metabotropic Glutamate Receptor Subtype 4 Message during Free Radical Injury", Society for Neuroscience (1998)
 33. States, JC, Kaplan, DJ, Pounds, JG, Sowder, HG, Reiners, JJ, Jr. McCabe, MJ, Jr. and Lumetta, VJ. Arsenic-induced Dysregulation Of Cell Cycle And DNA Repair Gene Expression. Toxicological Sciences 48(1-5): 1715 (1999).
 34. Bacso, Zs, Land, SJ, Klein, J, States, JC, Everson, RB and Eliason, JF. Quantitative methods for examining the drug resistance phenotype of micrometastatic cancer cells in bone marrow: expression of resistance-related proteins. Proc. Am. Assoc. Cancer Res. 40: 675, (1999).
 35. States, JC, Vincent, AM, Wright, J, Shaw, T and Maiese, K "Rapid neuronal intracellular acidification triggers nitric oxide induced programmed cell death", Society for Neuroscience (1999)
 36. States, JC and Kaplan, DJ, "Regulation of XPA by cisplatin in cisplatin-resistant ovarian carcinoma cells", ASM Conference on DNA Repair and Mutagenesis, Hilton Head, SC (1999)
 37. States, JC and Kaplan, DJ "Induction of XPA by cisplatin in cisplatin resistant ovarian carcinoma cells", Toxicological Sciences 54(1): 1004 (2000)
 38. Lu Y, Mani S, Albanese C, Pestell RG, States JC, Agrawal S, Bregman DB, Targeting nucleotide excision repair or transcription coupled repair gene products with antisense oligonucleotide sensitizes cancer cells to cisplatin or oxaliplatin. Clinical Cancer Res. 6: 198 Suppl. S (2000)
 39. Porter, PC, Mellon, I and States, JC. Single Nucleotide Polymorphisms In Exons 4, 5 And 6 Of The Essential Nucleotide Excision Repair Gene *XPA*., *Toxicological Sciences* 60(1): 105 (2001)
 40. Jiang, G, Skorvaga, M, Van Houten, B and States, JC. Incision Of BPDE-DNA-Adducts With Thermal-Resistant Uvrabc Excision Nuclease From B.Caldotenax. *Toxicological Sciences* 60(1): 32 (2001)
 41. Zhao, S, Doll, MA, States, JC, Zang, Y and Hein DW. Construction of Chinese hamster ovary cell lines expressing single copy of human N-acetyltransferase 2. *Toxicological Sciences* 66: 363 (2002)
 42. Porter, PC, Hock, T, Beauerle, B, Mellon, I and States, JC. Identification And Functional Study Of Polymorphic Human *XPA* Genes. *Toxicological Sciences* 66: 894 (2002)
 43. Jiang, G, McNeely, S, Skorvaga, M, Van Houten, B and States, JC. DNA Adduct Conformation Depends On DNA Conformation. *Toxicological Sciences* 66: 884 (2002)
 44. States, JC, Reiners, Jr, JJ, Pounds, JG, Kaplan, DJ, McNeely, SC, Beauerle, BD, Mathieu, PA and McCabe, Jr, MJ. Arsenite Induces Mitotic Arrest And Apoptosis In SV40-Transformed Human Skin Fibroblasts. *Toxicological Sciences* 66: 415 (2002)

45. States, J, McNeely, SC, Beauerle, BD and McCabe, MJ. "Arsenite Induced Mitotic Arrest Is P53 Dependent", *Toxicological Sciences* 72(S-1): #317 (2003)
46. Jiang, G, Skorvaga, M, Van Houten, B and States, JC. "Structure-Dependent Incision of Stereoisomeric BPDE Adducts by *B. caldotenzx* UVRabc Excision Nuclease", *Toxicological Sciences* 72(S-1): #1003 (2003)
47. Porter, PC and States, JC, "Genotoxicant response in Telomerase Immortalized Human Fibroblasts", *Toxicological Sciences* 72(S-1): #1008 (2003)
48. O'Brien, TJ, Jiang, GH, Mandel, GH, States, JC and Patierno, SR, "Incision of chromium-induced DNA damage by thermal-resistant UvrABC endonuclease". *Environ. Mol. Mutagen.* 41(3), #144 (2003)
49. States, J and McCabe, M, Arsenic Disruption Of Cell Cycle: Mechanisms and Effects on Apoptosis, Differentiation And Carcinogenesis, *Toxicologist* (2004) abstract #1214
50. States, J, McNeely, S and McCabe, M, Arsenic-Induced Disruption Of Mitotic Progression: Implications For Carcinogenesis And Potential For Chemotherapy, *Toxicologist* (2004) abstract #1217
51. Porter P, Mellon, I and States, J, Discovery And Functional Analysis Of XPA Polymorphisms, *Toxicologist* (2004) abstract #144
52. Jiang G, Jankowiak, R, Grubor, N, Banasiewicz, M, Small, G, Skorvaga, M, Van Houten, B and States, J, Formation Of *cis*- BPDE-Adducts And Base-Stacked *trans*-BPDE-Adducts Is Increased On Supercoiled DNA, *Toxicologist* (2004) abstract #534
53. Zang, Y, States, C, and Hein DW, Mechanistic studies on a human N-acetyltransferase 2 variant enzyme encoded by a T³⁴¹C (Ile114Thr) single nucleotide polymorphism possessing allele, #1123, 95th AACR Annual Meeting, Orlando, FL (2004)
54. Zhao, S, States, C, and Hein DW, Stable expression of human cytochrome P450 1A1, human NADPH-cytochrome p450 reductase and single copy of human N-acetyltransferase-2 in DNA nucleotide excision repair-deficient Chinese hamster ovary cells, #1536, 95th AACR Annual Meeting, Orlando, FL (2004)
55. Zhu, Y, States, C, and Hein DW, Functional characterization of single nucleotide polymorphisms of human *N-acetyltransferase 1* in mammalian cells, #2920, 95th AACR Annual Meeting, Orlando, FL (2004)
56. McNeely SC, Taylor BF, Xu X, Zacharias W, McCabe Jr, MJ and States JC. P53 Modulates Arsenite-Induced Mitotic Disruption and Altered Gene Expression. *Toxicologist* 84(S-1): 140 (2005) (#689)
57. Taylor BF, McNeely SC, Miller HL, McCabe MJ and States JC. P53 Suppression Of Arsenite Induced Mitotic Arrest Is Mediated By P21. *Toxicologist* 84(S-1):140 (2005) (#690)
58. States JC, Srivastava S, Sen U, Miller HL D'Souza SE. Arsenic exposure accelerates atherogenic changes in ApoE^{-/-} mice. *Toxicologist* 84(S-1): 141 (2005) (#691)
59. Zang Y, Zhao S, States J and Hein DW. Mechanistic study of the A411T (L137F) genetic polymorphism in human N-acteyltransferase 2. *Toxicologist* (2005) 84(S-1): 260 (#1267)
60. Hein, DW, Husain, A, States, JC and Barker, DF. Regulation of the human arylamien N-acetyltransferases: Implications for cancer susceptibility. *Toxicologist* (2006) 90(1): 4 (#21)
61. Taylor, BF, McNeely, SC, Miller, HL, McCabe, MJ and States, JC. P53 suppression of arsenite-induced mitotic catastrophe is mediated by p21^{waf1/cip1}. *Toxicologist* (2006) 90(1): 86 (#417)
62. McNeely, SC, Taylor, BF and States, JC. Arsenic: A Potential Chemotherapeutic For

- Melanoma. *Toxicologist* (2006) 90(1): 86 (#418)
63. Jiang, G and States, JC. Arsenite Co-Exposure Disrupts P53-Mediated Responses To Bpde Induced DNA Damage In Human Lung Cells. *Toxicologist* (2006) 90(1): 107 (#520)
64. Zang, Y, Doll, MA, States, J and Hein, DW. Genetic Polymorphisms Of Human N-Acetyltransferase 2 Influence The Bioactivation Of Aromatic And Heterocyclic Amines. *Toxicologist* (2006) 90(1): 160 (#792)
65. Bendaly, J, Zhao, S, Doll, MA, States, J and Hein, DW. Chinese Hamster Ovary Cells Expressing CYP1A1 OR CYP1A2 And Rapid Or Slow Acetylator N-Acetyltransferase 1 (NAT1): A Model To Investigate Effects Of Human Nat1 Polymorphism On Arylamine Genotoxicity. *Toxicologist* (2006) 90(1): 162 (#799)
66. Metry, KJ, Zhao, S, Neale, JR Doll, MA, States, JC, McGregor, WG, Pierce, WM and and Hein, DW. 2-Amino-1-Methyl-6-Phenylimidazo [4,5-B] Pyridine (Phip)-Induced DNA Adducts In Chinese Hamster Ovary (CHO) Cells Expressing Human CYP1A2 And Rapid And Slow Nacetyltransferase 2 (NAT2). *Toxicologist* (2006) 90(1): 162 (#800)
67. Barker, DF, Husain, A, Neale, JR, Martini, BDZhang, X, Doll, MA, States, J and Hein, DW. Functional Properties Of An Alternative, Tissue-Specific Promoter For The N-Acetyltransferase-1 Gene, *NAT1*. *Toxicologist* (2006) 90(1): 279 (#1370)
68. Srivastava S, D'Souza SE, States JC. Arsenic exposure exacerbate atherosclerosis in apoE-null mice. *Atherosclerosis Supplements* 7: 200 (2006).
69. Zhang, X, Barker, DF, Doll, MA, Martin, RC, States, JC, Klinge, CM and Hein, DW. Effect of estrogen on *NAT1* expression in breast tumor cells. *AACR Proceedings* (2007)
70. Taylor, BF and States, JC. Mechanism of arsenite-induced cell death is distinct from both nocodazole and Taxol. *Toxicologist* (2007) 96(1): 302 (#1459)
71. McNeely, SC and States, JC. Sodium Arsenite-Induced Cell Cycle Alterations and Apoptosis in Melanoma Cell Lines. *Toxicologist* (2007) 96(1): 305 (#1475)
72. States, JC, Srivastava, S, Sen, U and D'Souza, SE. *In utero* arsenic exposure induces early onset of atherosclerosis in ApoE-knockout mice. *Toxicologist* (2007) 96(1): 16 (#77)
73. Srivastava, S, D'Souza, SE and States, JC. Arsenic exposure exacerbates atherosclerosis in apoE-knockout mice. *Toxicologist* (2007) 96(1): 16 (#76)
74. McNeely, SC and States, JC. Sodium arsenite alters cell cycle progression and induces apoptosis in melanoma cell lines. *FASEB J.* 2007 21:728.7
75. Taylor, BF and States, JC. Arsenite-induced mitotic death is distinct from both nocodazole and Taxol. *FASEB J.* 2007 21:728.6
76. Husain, A, Barker, DF, Zhang, X, Doll, MA, States, JC and Hein, DW. Functional analysis of the human N-acetyltransferase 1 (NAT1) major promoter: Quantitation of tissue expression and identification of critical sequence elements. *FASEB J.* 2007 21:392.2
77. Husain, A, Barker, DF, Zhang, X, Doll, MA, States, JC and Hein, DW. Quantitation and characterization of N-acetyltransferase-2 mRNA in human tissues. *FASEB J.* 2007 21:886.1
78. Metry, KJ, Zhao, S, Neale, JR, Doll, MA, States, JC, McGregor, WG, Pierce, Jr, WM, and David W. Hein, DW. Human rapid acetylator N-acetyltransferase 2 (NAT2) genotype leads to greater mutagenesis and DNA damage than slow acetylator NAT2 genotype in DNA-deficient Chinese Hamster Ovary (CHO) cells treated with arylamine carcinogens. *FASEB J.* 2007 21:565.1
79. Bendaly, J, Neale, JR, Zhao, S, Metry, KJ, Doll, MA, States, JC, Pierce, WM and Hein, DW. Significantly higher 2-amino-3,8-dimethylimidazo-[4,5-f]quinoxaline-induced DNA adducts and mutagenesis in Chinese hamster ovary cells expressing human CYP1A1 and

- rapid or slow acetylator N-acetyltransferase 2. *FASEB J.* 2007 21:565.2
80. Lavender, NA, Komolafe, OO, Templeton, T, D, Thacker, B, States, C, Brock, G and Kidd, LC. Interplay between Xeroderma Pigmentosum Complimentary Group D and Multiple Drug Resistance 1 Genes (XPD and MDR1) in Relation to Prostate Cancer Risk. *FASEB J.* 2007 21:567.19
 81. Srivastava, DS, Komolafe, O, Templeton, T, States, JC, Brock, G and Kidd, LC. Variant Base Excision Repair Genes (hOGG1, APE1, XRCC1) and Prostate Cancer Risk in African-American Men. *FASEB J.* 2007 21:567.20
 82. States, JC, Srivastava, S, Sen, U, and D'Souza, SE. Early onset of atherosclerosis in ApoE-knockout mice is induced by *in utero* arsenic exposure. *FASEB J.* (2007) 21:730.4
 83. States, JC, Singh, AV, Miller, HL, Piao, Y, Ko, MSH, Srivastava, S and Knudsen, TB. Altered Developmental Programming of Fetal Liver by Prenatal Arsenic Exposure Associated with Accelerated Atherogenesis in ApoE-knockout Mice. *Birth Defects Res. (Part A)* 79: 378 (2007)
 84. Srivastava S, D'Souza SE, States JC. Arsenic-induced acceleration of atherogenesis in apoe-knockout mice: Role of oxidative stress and inflammation. *Arteriosclerosis Thrombosis And Vascular Biology* 27: E67 (2007).
 85. States, JC and Barchowsky, A. Arsenic and Cardiovascular Disease. Program #1965. 2008 Itinerary Planner. Seattle WA: Society of Toxicology.
 86. McNeely SC, Belshoff AC, Taylor BF, McCabe MJ, States J. Sensitivity to Sodium Arsenite Depends upon a Functional Spindle Checkpoint. Program #2112. 2008 Itinerary Planner. Seattle WA: Society of Toxicology.
 87. Muenyi C, Pandit AA, States J. Arsenite modifies p53-mediated response to cisplatin-induced DNA damage in ovarian cancer cells. Program #2110. 2008 Itinerary Planner. Seattle WA: Society of Toxicology.
 88. Rogers EN, Jiang G, States J. Curcumin lowers the threshold of p53 activation and subsequent induction of DNA damage recognition proteins XPC and DDB2. Program #871. 2008 Itinerary Planner. Seattle WA: Society of Toxicology.
 89. Metry KJ, Doll MA, Smith NB, Zhao S, States J, McGregor W, Pierce WM, Hein DW. Role of human N-acetyltransferase 2 acetylation polymorphism in mutagenesis and DNA adduct formation by the aromatic amine carcinogens 2-aminofluorene and 4-aminobiphenyl. Program #417. 2008 Itinerary Planner. Seattle WA: Society of Toxicology.
 90. Millner LM, Bendaly J, Doll MA, Barker DF, States J, Hein DW. Functional Effect of N-acetyltransferase 1 (NAT1*10) polymorphism in DNA Adduct Formation and Mutagenesis Following Exposure to Aromatic and Heterocyclic Amine Carcinogens.
 91. Zhang X, Barker DF, Doll MA, Martin RC, States J, Klinge CM, Hein DW. Investigation of the mechanism of increased N-acetyltransferase 1 (NAT1) expression in estrogen receptor positive breast cancer. Program #414. 2008 Itinerary Planner. Seattle WA: Society of Toxicology.
 92. Bendaly J, Zhao S, Metry KJ, Doll MA, States J, Smith NB, Pierce WM, Hein DW. Role of human cytochrome P4501A1 and N-acetyltransferase 2 genetic polymorphism on the mutagenicity and DNA damage of the environmental carcinogens 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine and 4-aminobiphenyl. Program #416. 2008 Itinerary Planner. Seattle WA: Society of Toxicology.
 93. Srivastava S, Haberzettl P, Vladyskovskaya EN, D'Souza SE, States J. Arsenic-induced atherogenesis: contribution of oxidative stress, inflammation and unfolded protein response.

- Program #1967. 2008 Itinerary Planner. Seattle WA: Society of Toxicology.
94. States J, Singh AV, Miller H, Piao Y, Ko MS, Srivastava S, and Knudsen TB. Prenatal arsenic exposure alters hepatic developmental programming predisposing to atherosclerosis. Program #1968. 2008 Itinerary Planner. Seattle WA: Society of Toxicology.
 95. States JC, D'Souza SE, Srivastava S. Attenuation of post-natal arsenic exposure induced atherosclerosis by in utero arsenic exposure. Birth Defects Res. (Part A) 82: 351 (2008).
 96. D'Souza SE, Sithu SD, Siddiqui MA, Vladykovskaya EN, Haberzettl P, States J, Srivastava, S. Arsenic induces endothelial activation, inflammation and atherosclerotic lesion formation. Program No. 1283, 2009 Itinerary Planner, Baltimore, MD: Society of Toxicology
 97. Rogers EN, Jiang GH, States J. Curcumin regulates cell cycle progression and DNA repair proteins in a p53 - dependent manner. Program No. 1084, 2009 Itinerary Planner, Baltimore, MD: Society of Toxicology
 98. Muenyi CS, Pandit AA, Fan T, Helm C, States J. Augmentation of cisplatin cytotoxicity associated with altered DNA damage response and cellular Platinum accumulation. Program No. 1798, 2009 Itinerary Planner, Baltimore, MD: Society of Toxicology
 99. Ngalame NN, Arteel JI, Arteel GE, States J. Transplacental exposure to arsenic induces hepatic changes in ApoE - / - mice. Program No. 2099, 2009 Itinerary Planner, Baltimore, MD: Society of Toxicology
 100. States VA, Masters JH, Muenyi CS, States J, Helm C. Mouse model for treating metastatic human ovarian cancer with hyperthermic intraperitoneal chemotherapy. Program No. 2176, 2009 Itinerary Planner, Baltimore, MD: Society of Toxicology
 101. States JC, Ngalame NO, Beier JI, Arteel GE. Indicators of post-natal liver injury consequent to in utero arsenic exposure. Birth Defects Research Part A 85: 436 (2009)
 102. Rogers EN, States JC, Curcumin Regulates Cell Cycle Progression in a p53-dependent Manner in Response to BPDE-induced Damage. Abstract 133. The Toxicologist CD — An official Journal of the Society of Toxicology, Volume 114, Number S-1, March 2010
 103. Vladykovskaya E, Haberzettl P, States J, Suttles JA, Srivastava S. Role Of Endoplasmic Reticulum Stress In Inflammatory Responses To Arsenic In Endothelial Cells And Macrophages. Abstract 960. The Toxicologist CD — An official Journal of the Society of Toxicology, Volume 114, Number S-1, March 2010
 104. States J C, Singh A, Knudsen T, Rouchka E, Ko M S, Piao Y, Ngalame N O, Arteel, J Arteel G, Srivastava S. Transplacental Arsenic Exposure Induced Changes In Liver Programming Associated With Accelerated Atherosclerosis. Abstract 1430. The Toxicologist CD — An official Journal of the Society of Toxicology, Volume 114, Number S-1, March 2010
 105. Zajack M, Piao Y, Ko M S, Rouchka E, States J. Stimulation Of Inflammation And Mitochondrial Dysfunction Pathways By Arsenic Exposure In Livers Of Apoeknockout Mice. Abstract 1719. The Toxicologist CD — An official Journal of the Society of Toxicology, Volume 114, Number S-1, March 2010
 106. Muenyi C S, States V A, Masters J H, Fan T, Helm C and States J. Murine Hipec Model For Study Of In Vivo Effects Of Chemotherapy Against Metastatic Human Ovarian Cancer. Abstract 2009. The Toxicologist CD — An official Journal of the Society of Toxicology, Volume 114, Number S-1, March 2010
 107. Ngalame NNO, Beieir JL, Arteel GE, Srivastava S, States, JC. (2010) In utero arsenic exposure induces subtle hepatic damage and systemic inflammation associated with accelerated atherosclerosis in ApoE^{-/-} mice. Birth Defects Res Part A – 88:379

108. Tan M, Massey VL, Ding X, Zhong H, States JC, and Arteel GE (2010) Arsenic pre-exposure delays cell cycle entry and progression in mouse liver after partial hepatectomy. *Hepatology* 52:462A
109. Tan M, Schmidt RH, Zhong H, States J, Arteel GE. Chronic low - dose arsenic exposure enhances hepatic injury induced by high fat diet in mice Abstract # 2002. *The Toxicologist CD—An official Journal of the Society of Toxicology*, Volume 120, Number S-2, March 2011
110. Rogers EN, States J. Curcumin regulates cell cycle progression in response to BPDE - induced DNA damage. Abstract # 2235. *The Toxicologist CD—An official Journal of the Society of Toxicology*, Volume 120, Number S-2, March 2011
111. Muenyi CS, States VA, Masters JH, Fan T, Helm W, States J. Sodium arsenite and hyperthermia alter expression of XPA, XPC, and MSH2 in response to cisplatin - induced DNA damage and increase accumulation of platinum in ovarian cancer. Abstract # 1991. *The Toxicologist CD—An official Journal of the Society of Toxicology*, Volume 120, Number S-2, March 2011
112. Nglame, N, Feil ME, Micciche AF, States J. Delayed temporal increase of hepatic Hsp70 in ApoE - / - mice with accelerated atherosclerosis induced by in utero arsenic exposure Abstract # 2199. *The Toxicologist CD—An official Journal of the Society of Toxicology*, Volume 120, Number S-2, March 2011
113. Ngalame NO, Srivastava S States, JC. (2011) Dose Response Effects of *In Utero* Arsenic Exposure on Atherosclerotic Lesion Formation and Inflammation in ApoE^{-/-} Mice. *Birth Defects Res Part A* 91(5): 358.
114. States JC, France CA, Taylor BF, Trent JO. Targeting the anaphase promoting complex/cyclosome to inhibit cell cycle and to induce apoptosis. Abstract 2049, *The Toxicologist CD—An official journal of the Society of Toxicology*, Volume 126, Issue 1, March 2012
115. Douglas J. Saforo¹, Brian C. Sils¹, Cory A. France¹, B. F. Taylor², John O. Trent¹, J. C. States. Compounds Targeting Anaphase Promoting Complex Disrupt Mitosis and Induce Apoptosis in Cancer Cells. Abstract 2641. Volume 132, Late breaking supplement, March 2013.
116. States, JC, Saforo, DJ, Klimchak, NA, Trent, JO. Non-tubulin mitotic disruptors induce apoptosis in cancer cells. Abstract 304. *The Toxicologist CD—An official journal of the Society of Toxicology*, Volume 138, Issue 1, March 2014.
117. Kirpic I, Mohammad M, Falkner KC, Arteel GE, Barnett R, States J C, Prough RA, Cave M.. Initial Characterization of Metal Exposures in Community Residents Living Adjacent to the Black Leaf Pesticide Manufacturing Complex. Abstract 2221. *The Toxicologist CD—An official journal of the Society of Toxicology*, Volume 138, Issue 1, March 2014.
118. Al-Eryani L, Wahlan B, Falkner KC, Clai H, Prough RA, States J C, Cave M Identification of Environmental Chemicals Which Could Contribute to Nonalcoholic Fatty Liver Disease by Nuclear Receptor Activation. Abstract 1159. *The Toxicologist CD—An official journal of the Society of Toxicology*, Volume 138, Issue 1, March 2014.
119. Singh SK, States JC, Kakar SS. Withaferin A in combination with cisplatin targets CD44 and Oct4 positive cancer stem cells in ovarian cancer. Abstract 212. *Proceedings of the 105th Annual Meeting of the American Association for Cancer Research* (2014) Apr 5-9; San Diego, CA. Philadelphia (PA)
120. Al-Eryani L. Rai SN, States JC. MicroRNA Profile Changes in Immortalized Human

- Keratinocytes after Low Arsenic Exposure. Abstract 1973. *The Toxicologist* CD—An official journal of the Society of Toxicology, Volume 144, Issue 1, March 2015
121. Al-Eryani L, Jenkins S, Waigel S, States VA, Arumugam V, Rai SN, Galandiuk S, Giri AK, States JC. Differential MiRNA and mRNA Expression in Immortalized Human Keratinocytes (HaCaT) After Low Arsenic Exposure Suggest Changes in Cell Proliferation, Cell Migration, Cytoskeleton Remodeling and Carcinogenesis Pathways. In: *The Toxicologist: Supplement to Toxicological Sciences*, 150(1), Society of Toxicology, 2016. Abstract no. 3340.
 122. Stepp MW, Doll MA, Samuelson DJ, Sanders MAG, States JC, Hein DW. Chemically Induced Mammary Tumor Differences Between Rapid and Slow Arylamine N-Acetyltransferase Congenic Fischer 344 Rats Administered 7,12-Dimethylbenzanthracene (DMBA). In: *The Toxicologist: Supplement to Toxicological Sciences*, 150(1), Society of Toxicology, 2016. Abstract no. 2067.
 123. Hoffman, J. M.; Al-Eryani, L.; Saforo, D. J.; Taylor, B. F.; Trent, J. O.; Garbett, N. C.; States, J. C., Purification of the C-terminal Domain of ANAPC2 and Evidence Supporting the Interaction of Lead Compounds for Inhibition of Mitosis. *FASEB J* 29, Supp 1 (2016)
 124. Wu J, Al-Eryani L, States V, Hoffman JM, Doll M, Wise SS, Rai SN, Giri AK, States JC. Overexpression of miR-186 induces endomitosis and increased chromosomal aberrations in human keratinocytes. *CSHL Symposium on Regulatory and Non-coding RNAs*, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY. (2016)
 125. Al-Eryani L, Waigel S, Jenkins S, Arumugam V, and States JC. Cell Cycle Pathway Dysregulation in Human Keratinocytes during Chronic Exposure to Low Arsenite. *The Toxicologist*, Supplement to Toxicological Sciences, 150 (1), Abstract #1788 (2017)
 126. Watson WH, Freedman JH, Young JL, Burke TJ, Arteel GE, States JC, Cai L, Lang AL, Poole LG, Warner NL, and M a M D C (Me2DiC). Effects of Chronic Arsenic and Cadmium on Thiol-Disulfide Redox Balance in the Liver. *The Toxicologist*, Supplement to Toxicological Sciences, 150 (1), Abstract #2133 (2017)
 127. States JC. Herbo-Metallic Mixtures in Traditional Medicines. *The Toxicologist*, Supplement to Toxicological Sciences, 150 (1), Abstract #2729 (2017)
 128. Stocke C, Al-Eryani L, Gordon C, States VAR, Rai SN, Galandiuk S, Giri AK, States JC. Arsenic Induces Functional Changes of ZRANB2 and Expression of hsa-miR-186. *The Toxicologist*, Supplement to Toxicological Sciences, 150 (1), Abstract #1780 (2017)
 129. Hoffman JM, Wainscott N, Taylor BF, Burlison J, Trent J, States JC. Structure-Activity Relationship Studies of Oxypropanolamines: The Importance of Hydrophobicity About the Amine for Maintaining Anti-Proliferative Effects in Lung Cancer Cells. *FASEB J* April 2017 31:823.16
 130. Wainscott N, Hoffman JM, Taylor BF, Burlison J, Trent J, States JC. Targeting the Anaphase Promoting Complex to Prevent Lung Cancer Cell Growth. *FASEB J* April 2017 31:823.12
 131. Young JL, Burke TJ, Freedman JH, Watson WH, Cai L, Merchant ML, States J, Arteel GE. A Model to Study the Effects of Early Life Chronic Exposure to Arsenic and Cadmium on the Development of Adult Cardiometabolic Syndrome: Initial Characterization of Hepatic Changes. *The Toxicologist*, Supplement to Toxicological Sciences, 150 (1), Abstract #1860, 2018
 132. Cardoso APF, Al-Eryani L, Sayed M, Park JW, States JC. Alternative splicing events induced in human keratinocytes by chronic arsenic exposure. *The Toxicologist*, Supplement

- to Toxicological Sciences: Late Breaking Supplement, 150 (1), Abstract #3447, 2018.
133. Hoffman JM, Bagah-Kognagba MJ, Taylor BF, Trent JO, States JC. Targeting the Major Regulator of Mitosis for Cancer Chemotherapy. The Toxicologist Supplement to Toxicological Sciences: Late Breaking Supplement, 150 (1), Abstract #3410, 2018.
 134. Banerjee M, Cardoso APF, Al-Eryani L, Sayed M, Park JW, States JC. Chronic Arsenic Exposure in a HaCaT Cell Model of Squamous Cell Carcinoma: Altered Splicing
 135. Events as Regulatory Mechanisms? The Toxicologist: Late-Breaking Supplement, Supplement to Toxicological Sciences, 168 (1), Abstract #3424, 2019
 136. Cardoso APF, Banerjee M, Al-Eryani L, Sayed MA, Park JW, States JC. Alternative Splicing Events and RT-PCR Analysis of SHC1 in Arsenic Exposed Human Keratinocytes. The Toxicologist, Supplement to Toxicological Sciences, 168 (1), Abstract #2333, 2019
 137. Watson WH, Young JL, Burke TJ, Kalbfleisch T, Cai L, States C, Arteel GE, Freedman JH. Sexually Dimorphic Hepatic Responses to Environmental Arsenic Exposure in a Mouse Model of Non-alcoholic Fatty Liver Disease. The Toxicologist, Supplement to Toxicological Sciences, 168 (1), Abstract #2332, 2019
 138. States JC. hsa-miR-186 Overexpression Induces Aneuploidy in Human Keratinocytes. The Toxicologist, Supplement to Toxicological Sciences, 168 (1), Abstract #3257, 2019
 139. Banerjee M, Cardoso APF, Al-Eryani L, Sayed M, Park JW, States JC. Altered Splicing Events as Potential Multimodal Regulatory Mechanisms in Chronic Arsenic Exposure-Induced Squamous Cell Carcinoma. Eucaryotic mRNA Processing, Abstract #38, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY (2019)
 140. Cardoso APF, Banerjee M, Al-Eryani L, Sayed MAA, Park JW, States JC. Identification and Validation of Alternative Splicing in the Human Keratinocytes Model for Arsenic-Induced Skin Carcinogenesis. Eucaryotic mRNA Processing, Abstract #62, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY (2019)
 141. Banerjee M, Cardoso AP, Lykoudi A, Wilkey DW, Watson WH, Garbett NC, Merchant ML, Pan J, Rai SN, States JC. Arsenite Alters Structure and Function of Alternative Splicing Regulator ZRANB2 by Displacing Zinc from Zinc Finger Motifs; The Toxicologist, Supplement to Toxicological Sciences, 174 (1), abstract # 2632 (2020)
 142. Lykoudi A, Cardoso A, Wu, Wise S, States J. Overexpression of hsa-miR-186 Induces Anchorage-Independent Growth and Chromosomal Alterations in Arsenic-Exposed Human Keratinocytes: A Preliminary Study. The Toxicologist, Supplement to Toxicological Sciences, 174 (1), abstract # 2622 (2020)
 143. Ferragut Cardoso AP, Banerjee M, Wilkey DW, Al-Eryani L, Sayed MA, Park JW, Merchant M, States JC. Alternative Splicing as a Key Mechanism in Arsenic-Induced Squamous Cell Carcinoma: Evidence from RNA-Seq and Proteomic Analysis. The Toxicologist, Supplement to Toxicological Sciences, 174 (1), abstract # 1315 (2020)
 144. Ferragut Cardoso AP, Banerjee M, Al-Eryani L, Sayed M, Park JW, and States JC. Chronic Arsenic Exposure Induces Unique Alternative Splicing Landscapes in Human Keratinocytes, The Toxicologist, Supplement to Toxicological Sciences, 180 (S1), abstract # 2096 (2021)
 145. Banerjee M, Ferragut Cardoso AP, Lykoudi A, Wilkey DW, Watson WH, Garbett NC, Merchant ML, Pan J, Rai SN, and States JC. Arsenite Displaces Zinc from ZRANB2 Zinc Finger Motifs and Leads to Altered Splicing, The Toxicologist, Supplement to Toxicological Sciences, 180 (S1), abstract #2088 (2021)
 146. Nail AN, McCaffrey L, Ferragut Cardoso AP, Banerjee M, States JC. Chronic Arsenic

- Exposure Reduces DNA Damage Response Activation in Human Keratinocytes. The Toxicologist, Supplement to Toxicological Sciences, 186 (S1), abstract #3305 (2022)
147. Ferragut Cardoso AP, Nail AN, Banerjee M, Wise SS, States JC. Overexpression of miR-186 Accelerates Chromosomal Instability in Arsenic-Exposed Human Keratinocytes. The Toxicologist, Supplement to Toxicological Sciences, 186 (S1), abstract #3260 (2022)
 148. Banerjee M, Cardoso AF, Al-Eryani L, Kalbfleisch T, Srivastava S, Pan J, Rai SN, States JC. Longitudinal Dynamic Transcriptome Changes in a HaCaT Cell Line Model of Arsenic-Induced Squamous Cell Carcinogenesis. The Toxicologist, Supplement to Toxicological Sciences, 186 (S1), abstract #3248 (2022)
 149. Bastick JC, Banerjee M, States JC. Zinc Prevents Arsenic-Induced Dysregulation of ZRANB2 Splice Function. The Toxicologist, Supplement to Toxicological Sciences, 186 (S1), abstract #3250 (2022)
 150. Augenstein I, Banerjee M, Nail AN, Ferragut Cardoso AP, States JC. Chronic Arsenic Exposure Inhibits Both Autophagy and Proteasomal Protein Degradation in Human Keratinocytes. The Toxicologist, Supplement to Toxicological Sciences, 192 (S1), abstract #3614 (2023)
 151. Nail AN, Montero L, Ferragut Cardoso AP, Banerjee M, States J. Chronic Arsenic Exposure Reduces ATM Pathway Activation in Human Keratinocytes. The Toxicologist, Supplement to Toxicological Sciences, 192 (S1), abstract #3379 (2023)
 152. Banerjee M, Ferragut Cardoso AP, Lykoudi A, Park JW, States JC. Impact of miR-186 Overexpression on Arsenite Exposure-Induced Gene Expression and Transformation. The Toxicologist, Supplement to Toxicological Sciences, 192 (S1), abstract #4230 (2023)
 153. Banerjee M, Yaddanapudi K, States JC. Zinc Supplementation Prevents Mitotic Accumulation in Human Keratinocyte Cell Lines upon Environmentally Relevant Arsenic Exposure. The Toxicologist, Supplement to Toxicological Sciences, 192 (S1), abstract #4231 (2023)
 154. Stingone J, Geller A, Hood D, Makris K, Mouton C, States JC, Sumner S, Wu L, Rajasekar A. Applied Exposomics: A Population-centered Approach to Integrate Exposomics with Addressing Public Health Concerns. Abstract ID# 454. ISES 2023, August 27-31, 2023, Chicago, IL
 155. Goff R, States J, Banerjee M. Arsenic Induced Suppression of Autophagic Protein Degradation is Zinc Dependent. The Toxicologist, Supplement to Toxicological Sciences, 198 (S1), Abstract #3212 (2024)
 156. Bailey AN, Nail AN, States J. Chronic Cadmium Exposure Suppresses the DNA Damage Response. The Toxicologist, Supplement to Toxicological Sciences, 198 (S1), Abstract #3215 (2024)
 157. Banerjee M, Hwang JY, Nail AN, Park JW, Smith ML, States J. Arsenic-Induces Transcriptome-Wide Differential Alternative Splicing by Suppressing Splice Function of Zinc Finger Containing Apical Splice Regulators ZRANB2 and SRSF7. The Toxicologist, Supplement to Toxicological Sciences, 198 (S1), Abstract #3219 (2024)
 158. Reynolds CH, Nail AN, Styblo M, Cable P, States J. A Novel Arsenic Methyltransferase Splice Variant is Expressed in Human Keratinocytes. The Toxicologist, Supplement to Toxicological Sciences, 198 (S1), Abstract #3222 (2024)
 159. Nail AN, Bailey AN, Cai L, States J. Chronic Cadmium Exposure Disrupts Metal Homeostasis and DNA Double-Strand Break Signaling. The Toxicologist, Supplement to Toxicological Sciences, 198 (S1), Abstract #3226 (2024)

160. Cummins T, Carty JS, Barati MT, Gaweda AE, Wilkey DW, States JC, Klein JB, Merchant M. Sex-dependent effects of whole life arsenic exposure and high-fat diet on the kidney proteome. *American Society of Nephrology*. (2024)
161. L. Cai¹, R. Holm¹, D. J. Biddle¹, C. Zhang¹, D. Talley², T. R. Smith¹, and J. States, Wastewater-based Monitoring for Community Exposome Surveillance. *The Toxicologist, Supplement to Toxicological Sciences*, 204 (S1), Abstract #3059 (2025)
162. Nail AN, Banerjee M, Xu M, Reynolds CH, Styblo M, Cable PH, Wilkey DW, Merchant ML, Ferragut Cardoso A.P, Thomas ST, States JC. Human Keratinocytes Exhibit Poor Arsenic Methylation Capacity. *The Toxicologist, Supplement to Toxicological Sciences*, 204 (S1), Abstract #3728 (2025)
163. Banerjee M, Srivastava S, Rai SN, States JC. Quantifying the Contribution of Stochastic Gene Expression in Arsenic Exposure-Induced Skin Carcinogenesis. *The Toxicologist, Supplement to Toxicological Sciences*, 204 (S1), Abstract #3729 (2025).
164. Merchant ML, Cummins TD, Barati MT, Gaweda AE, Wilkey DW, Klein JB, States JC. Influence of whole life arsenic exposure and a high-fat diet on the kidney proteomes of male and female mice. *The Toxicologist, Supplement to Toxicological Sciences*, 204 (S1), Abstract #4001 (2025).
165. Scott J. L, Banerjee M, Lykoudi A, Hwang JY, Park JW, States J C. Chronic Arsenic Exposure and hsa-miR-186 Overexpression Dysregulate Alternative Splicing in Human Keratinocytes, Promoting Carcinogenesis. *The Toxicologist: Late-Breaking Supplement, a Supplement to Toxicological Sciences* 204, Issue S2, Abstract #5224, 2025

Sequences entered into public databases:

1. Topping, RS, SP Myrand, JC Albert, BL Williams and JC States. Human Xeroderma Pigmentosum group A correcting (XPAC) gene, exon 2. HSXPAC1, 298 bp DNA, Accession # U10343. 15-JUN-1994.
2. Topping, RS, SP Myrand, JC Albert, BL Williams and JC States. Human Xeroderma Pigmentosum group A correcting (XPAC) gene, exon 3. HSXPAC2, 306 bp DNA, Accession # U10344. 15-JUN-1994.
3. Topping, RS, SP Myrand, JC Albert, BL Williams and JC States. Human Xeroderma Pigmentosum group A correcting (XPAC) gene, exon 4. HSXPAC3, 366 bp DNA, Accession # U10345. 15-JUN-1994.
4. Topping, RS, SP Myrand, JC Albert, BL Williams and JC States. Human Xeroderma Pigmentosum group A correcting (XPAC) gene, exon 5. HSXPAC4, 318 bp DNA, Accession # U10346. 15-JUN-1994.
5. Topping, RS, SP Myrand, JC Albert, BL Williams and JC States. Human Xeroderma Pigmentosum group A correcting (XPAC) gene, exon 6. HSXPAC7, 809 bp DNA, Accession # U10347. 15-JUN-1994.
6. Topping, RS, SP Myrand, JC Albert, BL Williams and JC States. Human excision repair-controlling (XPAC) gene, exon 1. HSU16815, 2102 bp DNA, Accession # U16815. 02-NOV-1994

Other Publications

1. States, JC, "Sicily: First Impressions", *Sicilia Parra* 7(2), 8 - 10 (1995)

PATENTS, APPLICATIONS AND LICENSES

1. States, JC, RN Hines and RF Novak, of Wayne State University "Method and Cell Line for Testing Mutagenicity of a Chemical"; U. S. Patent Number 5,180,666; issued January 19, 1993
2. States, JC, RN Hines and RF Novak, of Wayne State University "Method and Cell Line for Testing Cytotoxicity and Mutagenicity of a Chemical"; U. S. Patent Number 5,525,482; issued June 11, 1996
3. States JC, Taylor BF and Trent JO, of University of Louisville "Compounds For Treating Cancer, For Administering, And For Pharmaceutical Compositions" US Patent # 10,849,863; 61/479,939 12/1/20.
4. States, JC. "Immortalized human keratinocytes (HaCaT) stably expressing hsa-miR-186", Applied Biological Materials, Inc., non-exclusive license, 8/6/2020

PRESENTATIONS:

Invited and/or refereed internationally or nationally:

1. Kim, SG, JC States and RF Novak, "Evidence for Increased Translational Efficiency in the Induction of P450IIE1 by Pyridine" VIIIth International Symposium on Microsomes and Drug Oxidations (1990)
2. States, JC, BK Gebauer and ED Berberoglu, "Rapid PCR Based Methods for Analysis of DNA Fragments Cloned into LacZ Vectors" Genome Mapping & Sequencing, Cold Spring Harbor Laboratory (1990)
3. States, JC and BC Freeman, "Sequence Tagged Site (STS) Markers from cDNA Sequences" Genome Mapping and Sequencing, Cold Spring Harbor Laboratory (1991)
4. States, JC, TH Quan, RN Hines, RF Novak and M Runge-Morris, "Controlled Expression of Human Cytochrome P450 1A1 in DNA Repair Deficient and Proficient Human Fibroblasts Stably Transformed with an Inducible Expression Construct" American Association for Cancer Research Special Conference on Chemicals, Mutations and Cancer (1992)
5. States, JC and Kaplan, DJ, "XPA Expression Is Cell Type Specific and Regulated in Response to Environmental Agents", Gordon Research Conference on Mammalian DNA Repair, Ventura, CA (1999)
6. States, JC, DJ Kaplan, JG Pounds, HG Sowder, JJ Reiners, Jr., MJ McCabe, Jr., VJ Lumetta, "Arsenic-Induced Dysregulation of Cell Cycle and DNA Repair Gene Expression", Society of Toxicology (1999)
7. States, JC, McCabe, MJ Jr, Pounds, JG, Reiners, JJ Jr, Kaplan, DJ, Mathieu, P and Sowder, HG, "Arsenite Disrupts Mitosis and Induces Apoptosis in Phenotypically P53 Negative Human Skin Fibroblasts", 11th International Conference on Heavy Metals in the Environment, Ann Arbor, MI (2000)
8. States, J, McNeely, SC, Beauerle, BD and McCabe, MJ. "Arsenite Induced Mitotic Arrest Is P53 Dependent", Society of Toxicology (2003)
9. States, J and McCabe, M, "Arsenic Disruption Of Cell Cycle: Mechanisms and Effects on Apoptosis, Differentiation And Carcinogenesis", Society of Toxicology (2004)
10. States, J, McNeely, S and McCabe, M, "Arsenic-Induced Disruption Of Mitotic Progression: Implications For Carcinogenesis And Potential For Chemotherapy", Society of Toxicology

(2004)

11. States, JC. Arsenic Induced Mitotic Arrest and Apoptosis. 4th Conference on Molecular Mechanisms of Metal Toxicity and Carcinogenesis, Morgantown WV, September 24-27, 2006
12. States, JC. Altered Developmental Programming of Fetal Liver by Prenatal Arsenic Exposure Associated with Accelerated Atherogenesis in ApoE-knockout Mice. Teratology Society, Pittsburgh, PA, May 25-28, 2007.
13. States, JC. *N*-acetyltransferase 1 (NAT1) is expressed in association with estrogen receptor in breast cancer. 4th International *N*-acetyltransferase workshop. Alexandroupolis, Greece, Sept 14-16, 2007
14. States, JC. "Arsenic and Cardiovascular Disease". Society of Toxicology, Seattle WA: March 16 – 20, 2008
15. States, JC. "Prenatal arsenic exposure alters hepatic developmental programming predisposing to atherosclerosis". Society of Toxicology, Seattle WA: March 16 – 20, 2008
16. States, JC. "Attenuation of post-natal arsenic exposure induced atherosclerosis by in utero arsenic exposure". poster presentation, Teratology Society, Monterey, CA, June 28 – July 3, 2008
17. States, JC. Transplacental arsenic induced changes in liver gene expression. 14th Alexander Hollaender Course on Genetic Toxicology, Indian Institute of Chemical Biology, Kolkata, India, December 10 - 12, 2008
18. States, JC. Molecular Determinants of Arsenic Induced Mitotic Arrest Associated Apoptosis. International Conference of Translational Pharmacology & Toxicology & 41st Annual Conference of Indian Pharmacological Society, All India Institute of Medical Sciences, New Delhi, India, December 18 - 20, 2008
19. States, JC. "Indicators of post-natal liver injury consequent to in utero arsenic exposure". poster presentation, Teratology Society, Puerto Rico, June 27-July 1, 2009
20. States, JC. Arsenic-induced mitotic disruption and aneuploidy. All India Congress of Cytology and Genetics, Indian Institute of Chemical Biology, Kolkata, India, December 1 – 4, 2009
21. States JC. In Utero Arsenic Exposure Induced Changes In Liver Gene Expression Associated With Accelerated Atherosclerosis. PPTOXII: Role of Environmental Stressors in the Developmental Origins of Disease, Miami Beach, FL, December 7-10, 2009
22. States, JC. "Transplacental arsenic exposure induced changes in liver programming associated with accelerated atherosclerosis", Symposium: Fetal Basis of Adult Disease, Society of Toxicology, March 10, 2010
23. States, JC. "Hepatic Gene Expression Changes Associated with In Utero Arsenic Exposure Accelerated Atherosclerosis in the ApoE-Knockout Mouse". National Academy Workshop on Use Of In Utero And Post-Natal Indicators To Predict Health Outcomes Later In Life. Washington, DC, October 13-14, 2010.
24. States, JC. "Liver Gene Expression Changes Associated with Arsenic-induced Atherosclerosis", 6th Conference on Molecular Mechanisms of Metal toxicity and Carcinogenesis, University of Kentucky, Nov 14-17, 2010
25. States, JC. "Systems approach to identifying potential environmental exposures playing a role in ovarian carcinogenesis", poster presentation, American Association for Cancer Research, Orlando, FL, April 2-6, 2011
26. States, JC. "Dose Response Effects of In Utero Arsenic Exposure on Atherosclerotic Lesion

- Formation and Inflammation in ApoE^{-/-} Mice”, poster presentation, Teratology Society, San Diego, CA, June 25 – 29, 2011
27. States, JC. “Translating experimental findings to arsenic exposure induced human health problems”, 7th and Final PRAMA Workshop on Arsenic Contamination in Ground Water: Exposure Assessment, Health Effects and Mitigation, Indian Institute of Chemical Biology, Kolkata, India, Nov 18-19, 2011
 28. States, JC. “Arsenic-Induced Keratosis and p53 Mutation”, All India Congress of Cytology and Genetics, Magadh University, Bodhgaya, India, November 21-23, 2011
 29. States, JC. “Disruption of Mitotic Progression by Arsenic”, 8th Conference on Metal Toxicity and Carcinogenesis, Albuquerque, NM, October 26-28, 2014
 30. States JC. “Maternal Arsenic Exposure and Cardio-metabolic Disease in the Offspring”, Experimental Biology, Boston, MA, March 29, 2015
 31. States JC. “Different disease endpoints of chronic arsenic exposure”, International Toxicology Conference: Risk Assessment Application in Food Matrix and Feeds and Its Impact on Human and Animal Health, University of Cairo, Egypt, May 3, 2015
 32. States JC, miR-186 in Arsenic-induced Skin Cancer, 9th Conference on Metal Toxicity & Carcinogenesis, Lexington, KY, October 17 –20, 2016
 33. States JC. “Herbo-metallic Mixtures in Traditional Medicines”, Society of Toxicology, Baltimore, MD, March 12-16, 2017
 34. States, JC. “Arsenic in Cancer Chemotherapy: A Historical Perspective”, Society of Toxicology, Baltimore, MD, March 12-16, 2017
 35. States, JC. “Longitudinal RNA Expression Analysis in HaCaT Cells Chronically Exposed to Low Arsenite”, 10th Conference on Metal Toxicity and Carcinogenesis, Albuquerque, NM, Oct 28-31, 2018
 36. Cardoso APF, Wu J. States VAR, Al-Eryani L, Wise SS, States JC. Overexpression of hsa-miR-186 induces chromosome numerical and structural abnormalities in arsenic-exposed and non-exposed HaCaT cells. 10th Conference on Metal Toxicity and Carcinogenesis, University of New Mexico, Albuquerque, NM, October 28-31, 2018
 37. States, JC. “hsa-miR-186 Overexpression Induces Aneuploidy in Human Keratinocytes”, Society of Toxicology, Baltimore, MD, March 10-14, 2019
 38. States, JC. “MicroRNA Dysregulation and Chromosome Instability in Arsenic Carcinogenesis”, 23rd International Charles Heidelberger Symposium, Stintino, Sardinia, Italy, September 23-28, 2019
 39. States, JC “miRNA Dysregulation and Aneuploidy in Arsenic-induced Skin Carcinogenesis” University of Arkansas for Medical Sciences, Little Rock, AR, 3/10/21
 40. “miRNA Dysregulation and Aneuploidy in Arsenic-induced Skin Carcinogenesis”, University of Kentucky, Lexington, KY, 3/17/21
 41. States, JC “MicroRNA Dysregulation and Chromosome Instability in Arsenic Carcinogenesis”, Biology Department, University of Louisville, Louisville, KY, 9/3/21. “Dysregulation of RNA Metabolism in Arsenic Exposed Cells”, 11th Conference on Metal Toxicity and Carcinogenesis, McGill University, Montreal, Canada October 16-19, 2022
 42. States, JC. “Dysregulation of mRNA splicing in a model for chronic arsenic exposure induced skin cancer “, 5th International Caparica Conference in Splicing 2023, July 15-20, 2023, Caparica, Portugal
 43. States, JC. “Dysregulation of mRNA splicing in a model for chronic arsenic exposure induced skin cancer“, All India Congress of Cytology and Genetics, Feb 5 – 7, 2024,

Kolkata, India

44. States, JC. "Wastewater Surveillance: Feasibility Study for Community Metal Exposures", NIEHS Center Directors Meeting, Baltimore, MD, Sept 23-25, 2024
45. States, JC. "Zinc Mitigation of Arsenic Toxicity", Zinpro® Zinc Scientific Round-Table "Thinking Outside the Box", Eden Prairies, MN, February 12, 2025
46. Scott J. L, Banerjee M, Lykoudi A, Hwang JY, Park JW, States J C. Chronic Arsenic Exposure and hsa-miR-186 Overexpression Dysregulate Alternative Splicing in Human Keratinocytes, Promoting Carcinogenesis. Cold Spring Harbor Eukaryotic mRNA Processing Meeting. Aug 19-23, 2025.

Abstracts at local/regional meetings:

1. States, JC, MA Wosnick, W Connor, JM Aiken, L Gedamu and GH Dixon, "Nucleotide Sequence Analysis of a Region of the Rainbow Trout Genome Containing a Protamine Gene" Alberta Heritage Foundation for Medical Research Days, Calgary, Canada (1981)
2. Aiken, J, D McKenzie, H-Z Zhao, JC States and GH Dixon, "DNA Sequences of Genomic Protamine Clones" Alberta Heritage Foundation for Medical Research Days, Edmonton, Canada (1982)
3. Andrews, G, JC States, DI Hoar and GH Dixon, "Transfer and Expression of Trout Protamine CII Gene in Mouse Cells" Alberta Heritage Foundation for Medical Research Days, Edmonton, Canada (1982)
4. States, JC, J Jankowski, K Riekkki, J Eames and GH Dixon, "Co-Transfer of Trout Protamine Gene and Herpes Simplex Virus-1 Thymidine Kinase Gene into Mouse Cells" Alberta Heritage Foundation for Medical Research, Calgary, Canada (1983)
5. Quan, TH, RN Hines, RF Novak, M Runge-Morris and JC States, "Expression of Human Cytochrome P450 1A1 in Human Cells Transformed with an Inducible Expression Construct", American Cancer Society Michigan Division 3rd Annual Cancer Research Conference, East Lansing MI (1992)
6. Quan, TH and JC States, "Cytotoxicity and Mutagenicity of Benzo(a)pyrene Metabolites in Human Fibroblasts Transformed with an Inducible Human CYP1A1 Expression Vector", American Cancer Society Michigan Division 4th Annual Cancer Research Conference, Ann Arbor, MI (1993)
7. Topping, RS, TR McKeown, SP Myrand and JC States, "Complementation of xeroderma pigmentosum group A cells with XPAC expression vectors", American Cancer Society Michigan Division 5th Annual Cancer Research Conference, Ann Arbor, MI (1994)
8. Quan, TH and JC States, "Preferential DNA damage in the p53 gene by intracellularly bioactivated benzo(a)pyrene-trans-7,8-dihydrodiol (BPD) in CYP1A1-expressing xeroderma pigmentosum group A (XPA) cells", American Cancer Society Michigan Division 5th Annual Cancer Research Conference, Detroit, MI (1994)
9. States, JC and Quan, TH, "Dose Rate Dependence of Mutagenicity and Cytotoxicity Induced by Benzo[a]pyrene-7,8-trans-dihydrodiol-9,10-epoxide", American Cancer Society Michigan Division 8th Annual Cancer Research Conference, East Lansing MI (1997)
10. States, JC and Kaplan, DJ, "Regulation of XPA by Genotoxic and Non-genotoxic Agents", 1st Annual Midwest DNA Repair Symposium, Ann Arbor, MI (1999)
11. States, JC and Kaplan, DJ, "Induction Of XPA By Cisplatin In Cisplatin-Resistant Ovarian Carcinoma Cells", Research!Louisville, Louisville, KY (1999)
12. States, JC and Kaplan, DJ, "Induction Of XPA By Cisplatin In Cisplatin-Resistant Ovarian

- Carcinoma Cells", Ohio Valley Society of Toxicology, Louisville, KY, (1999)
13. Porter, PC, Mellon, I and States, JC, "Candidate Polymorphism in the DNA Binding Domain of XPA", 2nd Annual Midwest DNA Repair Symposium, Louisville, KY (2000)
 14. Jones, JK and States, JC, "DNA repair Gene Expression in Ovarian Cancer Cells", Research!Louisville, Louisville, KY (2000)
 15. Porter, PC, Mellon, I and States, JC, "Single Nucleotide Polymorphisms in Exons 4, 5 and 6 of the Essential Nucleotide Excision repair Gene *XPA*", Research!Louisville, Louisville, KY (2000)
 16. Jiang, GH, Skorvaga, M, van Houten, B and States, JC, "Specific Incision BPDE-DNA Adducts with Thermal-Resistant UVRABC Excision Nuclease from *B. Caldotenax*", Research!Louisville, Louisville, KY (2000)
 17. Porter, PC, Beauerle, BD, Hock, T, Mellon, I and States, JC, "Single Nucleotide Polymorphisms in Exons 4, 5 and 6 of the Essential Nucleotide Excision Repair Gene *XPA*", 3rd Annual Midwest DNA Repair Symposium, Indianapolis, IN (2001)
 18. Jiang, GH, McNeely, SC, Skorvaga, M, Van Houten, B and States, JC, "Incision of BPDE—DNA-Adducts with Thermal-resistant *B. caldotenax* UvrABC Excision Nuclease", 3rd Annual Midwest DNA Repair Symposium, Indianapolis, IN (2001)
 19. Beauerle, BD and States, JC, "A Simple and Rapid Cell Proliferation Assay to Evaluate Genotoxicant-Induced Cytotoxicity", 3rd Annual Midwest DNA Repair Symposium, Indianapolis, IN (2001)
 20. Jiang, GH, Mcneely, S, Skorvaga, M, Van Houten, B, and States, JC, "Does DNA adduct conformation play a key role in nucleotide excision repair?", Research!Louisville, Louisville, KY (2001)
 21. Sams, SR, Beaurle, BD, Kaplan, DJ, Elferink, CJ, and States, JC, "Localization Of DNA Binding Site Of Cisplatin Sensitivity Factor", Research!Louisville, Louisville, KY (2001)
 22. Porter, PC, Beauerle, BD, Hock, T, Mellon, I and States, JC, "Identification And Functional Analysis Of Polymorphic Variants Of The Essential Nucleotide Excision Repair Gene XPA", Research!Louisville, Louisville, KY (2001)
 23. States, JC, Reiners, JJ, Jr., Pounds, JG, Kaplan, DJ, Beauerle, BD, McNeely, SC and McCabe, MJ, Jr. "Arsenite Disrupts Mitosis And Induces Apoptosis In SV40-Transformed Human Skin Fibroblasts", Research!Louisville, Louisville, KY (2001)
 24. Zhao, S, Doll, MA, States, JC, Zang, Y and Hein, DW, "Construction of Chinese Hamster Ovary Cell Lines Expressing Single Copy of Human *N*-Acetyltransferase", Research!Louisville, Louisville, KY (2001)
 25. Porter, PC, Hock, T, Beauerle, B, Mellon, I and States, JC. Identification And Functional Study Of Polymorphic Human *XPA* Genes. Ohio Valley Society of Toxicology (2001)
 26. Porter, PC, Hock, T, Beauerle, B, Mellon, I and States, JC. Identification And Functional Study Of Polymorphic Human *XPA* Genes, JG Brown Cancer Center Molecular Targets Retreat (2002)
 27. Jiang, G, McNeely, S, Skorvaga, M, Van Houten, B and States, JC. DNA Adduct Conformation Depends On DNA Conformation, JG Brown Cancer Center Molecular Targets Retreat (2002)
 28. States, JC, Reiners, Jr, JJ, Pounds, JG, Kaplan, DJ, McNeely, SC, Beauerle, BD, Mathieu, PA and McCabe, Jr, MJ. Arsenite Induces Mitotic Arrest And Apoptosis In SV40-Transformed Human Skin Fibroblasts, JG Brown Cancer Center Molecular Targets Retreat (2002)

29. Taylor, BF, McNeely, SC, Zacharias, W, and States, JC "Development Of Anti-XPA Ribozymes To Sensitize Ovarian Cancer Cells To Cisplatin", Research!Louisville, University of Louisville, Louisville KY (2002)
30. Pinhas, AR, McNeely, SC, Beauerle, BD and States, JC" Xeroderma Pigmentosum Group A And Group F Cells Are Selectively Sensitive To Chromium Trioxide Induced Cytotoxicity", 4th Annual Midwest DNA Repair Symposium, Cincinnati, OH (2002)
31. Jiang, GH, Skorvaga, M, Van Houten, B and States, JC, "DNA Topology Affects BPDE Adduct Configuration At Low Adduct Densities", 4th Annual Midwest DNA Repair Symposium, Cincinnati, OH (2002)
32. States, JC, Beauerle, BD, Sams, SR, Kaplan, DJ and Elferink, CJ, "Cisplatin Regulation Of XPA Expression In Ovarian Cancer Cells", 4th Annual Midwest DNA Repair Symposium, Cincinnati, OH (2002)
33. Porter, PC and States, JC. "Characterization Of Nucleotide Excision Repair In Telomerase Immortalized Human Fibroblasts", 4th Annual Midwest DNA Repair Symposium, Cincinnati, OH (2002)
34. Jiang, G, Skorvaga, M, Van Houten, B and States, JC. "UvrC Incision discriminates between cis-BPDE-Adduct and trans-BPDE-Adduct Despite Equal UvrB Loading", 5th Annual Midwest DNA Repair Symposium, Mayo Clinic, Rochester, MN (2003)
35. Porter, PC and States, JC, "Use of Telomerase Immortalized Human Fibroblasts in Nucleotide Excision Repair Studies", 5th Annual Midwest DNA Repair Symposium, Mayo Clinic, Rochester, MN (2003)
36. Taylor, BF, Smith, V, McNeely, SC, and States, JC "Arsenite Induced Mitotic Arrest Is Characterized By Stabilization Of Cyclin B In Tr9-7 Cells And Mitotic Exit Is Dependent On P53 Expression", Research!Louisville, University of Louisville, Louisville, KY (2003)
37. Porter, PC, Mellon, I and States, JC, Discovery and functional analysis of XPA polymorphisms, Research!Louisville, University of Louisville, Louisville, KY (2003)
38. Jiang, GH, Skorvaga, M, Van Houten, B, Geacintov, N and States, JC, Structure-Dependent Incision Of Stereoisomeric BPDE Adducts By *B.Caldotenax* UvrABC Excision Nuclease, Ohio Valley Society of Toxicology, Cincinnati, OH (2003)
39. Porter, PC and States, JC, Genotoxicant Response in Telomerase Immortalized Human Fibroblasts, Ohio Valley Society of Toxicology, Cincinnati, OH (2003)
40. Porter P, Mellon, I and States, J, Discovery And Functional Analysis Of XPA Polymorphisms, 6th Annual Midwest DNA Repair Symposium, University of Kentucky, Lexington, KY (2004)
41. Jiang G, Jankowiak, R, Grubor, N, Banasiewicz, M, Small, G, Skorvaga, M, Van Houten, B and States, J, Formation Of *cis*- BPDE-Adducts And Base-Stacked *trans*-BPDE-Adducts Is Increased On Supercoiled DNA, 6th Annual Midwest DNA Repair Symposium, University of Kentucky, Lexington, KY (2004)
42. McNeely, SC, Taylor, BF, Xu, X, Zacharias, W, McCabe, MJ and States, JC. P53 Modulates Arsenite-Induced Mitotic Disruption and Altered Gene Expression. Research!Louisville, University of Louisville, Louisville, KY (2004)
43. Taylor, BF, McNeely, SC, Miller, H, McCabe, MJ and States, JC. P53 Suppression of Arsenite Induced Mitotic Arrest Is Mediated by P21. Research!Louisville, University of Louisville, Louisville, KY (2004)
44. Jiang, G and States, JC. Arsenic co-exposure disrupts cell cycle regulatory response to benzo[a]pyrene genotoxicity in human lung cells. Kentucky Engineering and Innovation

- Conference, Louisville KY (2005)
45. Porter, PC, Clark, DR, McDaniel, LD, McGregor, WG and States, JC. Telomerase immortalized human fibroblasts retain normal UV-induced DNA damage responses. 7th Annual Midwest DNA Repair Symposium, Wayne State University (2005)
 46. Jiang, G, Skorvaga, M, Van Houten, B and States, JC. Robust Incision of BPDE-DNA Adducts by Recombinant Thermoresistant Interspecies Combination of UvrABC Endonuclease System Cloned From the Eubacteria *Bacillus Caldotenax* and *Thermatoga Maritima*. 7th Annual Midwest DNA Repair Symposium, Wayne State University (2005)
 47. Barker, DF, Husain, A, Neale, JR, Martini, BD, Zhang, X, Doll, MA, States, JC and Hein, DW. Functional Properties of an Alternative, Tissue-Specific Promoter for the N-acetyltransferase-1 gene, *NAT1*. JG Brown Cancer Center 4th Annual Retreat, Louisville KY (2005)
 48. Jiang, G, Skorvaga, M, Van Houten, B and States, JC. Robust Incision of BPDE-DNA Adducts by Recombinant Thermoresistant Interspecies Combination of UvrABC Endonuclease System Cloned From the Eubacteria *Bacillus Caldotenax* and *Thermatoga Maritima*. JG Brown Cancer Center 4th Annual Retreat, Louisville KY (2005)
 49. McNeely, SC, Taylor, BF and States, JC. Arsenic: A Potential Chemotherapeutic for Melanoma. JG Brown Cancer Center 4th Annual Retreat, Louisville KY (2005)
 50. Metry, KJ, Zhao, S, Neale, JR, Doll, MA, States, JC, McGregor, WG, Pierce, WM Jr and Hein DW. Activation of 2-amino-1-methyl-6-phenylimidazo [4,5-b] pyridine (PhIP) by Chinese Hamster Ovary Cells expressing human *CYP1A2* and *N-acetyltransferase 2*. JG Brown Cancer Center 4th Annual Retreat, Louisville KY (2005)
 51. Porter, PC, Clark, DR, McDaniel, LD, McGregor, WG and States, JC. Telomerase immortalized human fibroblasts retain normal UV-induced DNA damage responses. JG Brown Cancer Center 4th Annual Retreat, Louisville KY (2005)
 52. Taylor, BF, Miller, HL, McNeely, SC, McCabe, MJ Jr. and States, JC. P53 Suppression of Arsenite-Induced Mitotic Catastrophe is Mediated by p21^{CIP1/WAF1}. JG Brown Cancer Center 4th Annual Retreat, Louisville KY (2005)
 53. Zhang, XY, Barker, DF, Doll, MA, Martin, RC, States, JC and Hein, DW. Human N-acetyltransferase (*NAT*) Expression in Breast Cancer. JG Brown Cancer Center 4th Annual Retreat, Louisville KY (2005)
 54. Taylor, BF, Miller, HL, McNeely, SC, McCabe, MJ Jr. and States, JC. P53 Suppression of Arsenite-Induced Mitotic Catastrophe is Mediated by p21^{CIP1/WAF1}. Ohio Valley Society of Toxicology, Louisville KY (2005)
 55. McNeely, SC, Taylor, BF and States, JC. Arsenic: A Potential Chemotherapeutic for Melanoma. Ohio Valley Society of Toxicology, Louisville KY (2005)
 56. Metry, KJ, Zhao, S, Neale, JR, Doll, MA, States, JC, McGregor, WG, Pierce, WM Jr and Hein DW. 2-amino-1-methyl-6-phenylimidazo [4,5-b] pyridine (PhIP)-induced DNA adducts in Chinese Hamster Ovary Cells expressing human *CYP1A2* and *N-acetyltransferase 2* (*NAT2*). Ohio Valley Society of Toxicology, Louisville KY (2005)
 57. Barker, DF, Husain, A, Neale, JR, Martini, BD, Zhang, X, Doll, MA, States, JC and Hein, DW. Functional Properties of an Alternative, Tissue-Specific Promoter for the N-acetyltransferase-1 gene, *NAT1*. Ohio Valley Society of Toxicology, Louisville KY (2005)
 58. Zang, Y, Doll, MA, States, JC and Hein, DW. Genetic Polymorphisms of Human N-acetyltransferase 2 Influences the Bioactivation of Aromatic and Heterocyclic Amines. Ohio Valley Society of Toxicology, Louisville KY (2005)

59. Jiang, G, Skorvaga, M, Van Houten, B and States, JC. Robust Incision of BPDE-DNA Adducts by Recombinant Thermoresistant Interspecies Combination of UvrABC Endonuclease System Cloned From the Eubacteria *Bacillus Caldotenax* and *Thermatoga Maritima*. Ohio Valley Society of Toxicology, Louisville KY (2005)
60. Porter, PC, Clark, DR, McDaniel, LD, McGregor, WG and States, JC. Telomerase immortalized human fibroblasts retain normal UV-induced DNA damage responses. Ohio Valley Society of Toxicology, Louisville KY (2005)
61. Bendaly, J., Zhao, S., Doll, M.A., States, J.C., and Hein D.W.: Chinese hamster ovary cells expressing CYP1A1 or CYP1A2 and rapid or slow acetylator N-acetyltransferase 1 (NAT1): A model to investigate effects of human NAT1 polymorphism on arylamine genotoxicity. Research!Louisville, Louisville KY (2005)
62. McNeely, SC, Taylor, BF and States, JC. Arsenic: A Potential Chemotherapeutic for Melanoma. Research!Louisville, Louisville KY (2005)
63. Metry, KJ, Zhao, S, Neale, JR, Doll, MA, States, JC, McGregor, WG, Pierce, WM Jr and Hein DW. Activation of 2-amino-1-methyl-6-phenylimidazo [4,5-b] pyridine (PhIP) by Chinese Hamster Ovary Cells expressing human *CYP1A2* and *N-acetyltransferase 2*. Research!Louisville, Louisville KY (2005)
64. Taylor, BF, Miller, HL, McNeely, SC, McCabe, MJ Jr. and States, JC. P53 Suppression of Arsenite-Induced Mitotic Catastrophe is Mediated by p21^{CIP1/WAF1}. Research!Louisville, Louisville KY (2005)
65. Zhang, XY, Barker, DF, Doll, MA, Martin, RC, States, JC and Hein, DW. Human N-acetyltransferase (*NAT*) Expression in Breast Cancer. Research!Louisville, Louisville KY (2005)
66. Zang, Y, Doll, MA, States, JC and Hein, DW. Genetic Polymorphisms of Human N-acetyltransferase 2 Influences the Bioactivation of Aromatic and Heterocyclic Amines. Research!Louisville, Louisville KY (2005)
67. Jiang, G, Skorvaga, M, Van Houten, B and States, JC. Robust Incision of BPDE-DNA Adducts by Recombinant Thermoresistant Interspecies Combination of UvrABC Endonuclease System Cloned From the Eubacteria *Bacillus Caldotenax* and *Thermatoga Maritima*. Research!Louisville, Louisville KY (2005)
68. Clark, BJ, Corbitt, C, Klinge, CM, Lei, Z and States, JC. Decreased serum testosterone levels in adult male mice exposed prenatally to arsenite. Research!Louisville, Louisville KY (2005)
69. Taylor, BF and States, JC. Mechanism of arsenite induced cell death is distinct from both nocodazole and Taxol. 4th Conference on Molecular Mechanisms of Metal Toxicity and Carcinogenesis, Morgantown WV, September 24-27, 2006
70. McNeely, SC and States, JC. Arsenic Resistance in Melanoma Cell Lines is Attenuated by both Buthionine Sulfoximine and the MRP Inhibitor MK571. 4th Conference on Molecular Mechanisms of Metal Toxicity and Carcinogenesis, Morgantown WV, September 24-27, 2006
71. Taylor, BF and States, JC. Mechanism of Arsenite Induced Cell Death is Distinct from both Nocodazole and Taxol, Research!Louisville, University of Louisville, Louisville, KY, Oct 10-13, 2006.
72. McNeely, SC and States, JC. Sodium Arsenite Induces Apoptosis in Melanoma Cell Lines, Research!Louisville, University of Louisville, Louisville, KY, Oct 10-13, 2006.
73. Zhang, X, Barker, DF, Doll, MA, States, JC, Klinge, CM and Hein, DW. Effect of Estrogen

- on NAT1 Expression in Breast Tumor Cells, Research!Louisville, University of Louisville, Louisville, KY, Oct 10-13, 2006.
74. Metry, KJ, Zhao, S, Neale, JR, Howarth, AL, Doll, MA, States, JC, McGregor, WG, Pierce, WM and Hein, DW. Human Rapid Acetyltransferase 2 (NAT2) Expression Leads to Greater Mutagenesis and DNA Damage than Slow Acetyltransferase NAT1 Expression in Chinese Hamster Ovary (CHO) Cells Treated With Heterocyclic and Aromatic Amine Carcinogens, Research!Louisville, University of Louisville, Louisville, KY, Oct 10-13, 2006.
 75. Bendaly, J, Neale, JR, Zhao, S, Metry, KJ, Doll, MA, States, JC, Pierce, WM and Hein, DW. Significantly Higher 2-Amino-3,8-Dimethylimidazo-[4,5-f]Quinoxaline - Induced DNA Adducts and Mutagenesis in Chinese Hamster Ovary (CHO) Cells Expressing Human CYP1A1 and Rapid Versus Slow Acetyltransferase 2, Research!Louisville, University of Louisville, Louisville, KY, Oct 10-13, 2006.
 76. Taylor, BF and States, JC. Mechanism of Arsenite Induced Cell Death is Distinct from both Nocodazole and Taxol, Ohio Valley Society of Toxicology, Children's Research Institute, Columbus, OH, Nov 10, 2006.
 77. McNeely, SC and States, JC. Sodium Arsenite Induces Apoptosis in Melanoma Cell Lines, Ohio Valley Society of Toxicology, Children's Research Institute, Columbus, OH, Nov 10, 2006.
 78. Barker, DF, Husain, A, Zhang, X, Doll, MA, States, JC and Hein, DW. Quantitation and characterization of N-acetyltransferase-2 mRNA in human tissues. James Graham Brown Cancer Center 5th Annual Retreat, Louisville, KY, November 29, 2006.
 79. Barker, DF, Husain, A, Zhang, X, Doll, MA, States, JC and Hein, DW. Functional analysis of the human *NAT1* major promoter: Quantitation of tissue expression and identification of critical sequence elements. James Graham Brown Cancer Center 5th Annual Retreat, Louisville, KY, November 29, 2006.
 80. Bendaly, J, Neale, JR, Zhao, S, Metry, KJ, Doll, MA, States, JC and Hein DW. Significantly higher 2-Amino-3,8-dimethylimidazo-[4,5-f]quinoline-Induced DNA Adducts and Mutagenesis in Chinese Hamster Ovary Cells Expressing Human CYP1A1 and Rapid vs Slow Acetyltransferase 2. James Graham Brown Cancer Center 5th Annual Retreat, Louisville, KY, November 29, 2006.
 81. Zang, Y, Doll, MA, States, JC and Hein, DW. The effect of the G857A(K268R) polymorphism on N-acetyltransferase 2-mediated carcinogen metabolism is substrate-dependent. James Graham Brown Cancer Center 5th Annual Retreat, Louisville, KY, November 29, 2006.
 82. Zang, Y, Doll, MA, States, JC and Hein, DW. Genetic Polymorphisms of Human N-acetyltransferase 2 Influences the Bioactivation of Aromatic and Heterocyclic Amines. James Graham Brown Cancer Center 5th Annual Retreat, Louisville, KY, November 29, 2006.
 83. Lavender, NA, Komolafe, OO, Templeton, TM, Srivastava, DS, Thacker, B, States, JC, Brock, G and Kidd, LR. Interplay between Xeroderma Pigmentosum Complementary Group D and Multiple Drug Resistance 1 Genes (*XPD* and *MDR1*) in Relation to Prostate Cancer Risk. James Graham Brown Cancer Center 5th Annual Retreat, Louisville, KY, November 29, 2006.
 84. M'Bemba-Meka, P, McNeely, SC, Miller, HL and States, JC. A comparison of protein expression changes involved in mitotic progression in response to arsenite exposure in

- p53^(+/+), p53^(+/-) and p53^(-/-) human prostate cancer cell lines. James Graham Brown Cancer Center 5th Annual Retreat, Louisville, KY, November 29, 2006.
85. McNeely, SC and States, JC. Sodium Arsenite Induces Apoptosis in Melanoma Cell Lines. James Graham Brown Cancer Center 5th Annual Retreat, Louisville, KY, November 29, 2006.
 86. Metry, KJ, Zhao, S, Neale, JR, Doll, MA, States, JC, McGregor, WG, Pierce, WM and Hein, DW. Human Rapid Acetylator N-Acetyltransferase 2 (NAT2) Genotype Leads to Greater Mutagenesis and DNA Damage than Slow Acetylator NAT2 Genotype in DNA-Deficient Chinese Hamster Ovary (CHO) Cells Treated with Arylamine Carcinogens. James Graham Brown Cancer Center 5th Annual Retreat, Louisville, KY, November 29, 2006.
 87. Srivastava, DS, Komolafe, OO, Templeton, TM, States, JC, Brock, G and Kidd, LR. Association Between Variant Polymorphisms in the Base Excision Repair Genes (*hOGGI*, *APE1*, *XRCC1*) and Prostate Cancer Susceptibility in African-American Men. James Graham Brown Cancer Center 5th Annual Retreat, Louisville, KY, November 29, 2006.
 88. Taylor, BF and States, JC. Mechanism of arsenite-induced cell death is distinct from both nocodazole and Taxol. James Graham Brown Cancer Center 5th Annual Retreat, Louisville, KY, November 29, 2006.
 89. Muenyi, C, Miller, HL and States, JC. Combating cisplatin-resistance in ovarian cancer: concurrent treatment with arsenic and/or hyperthermia. 9th Annual Midwest DNA Repair Symposium, Ohio State University, Columbus, OH, May 19-20, 2007.
 90. Rogers, E, Jiang, G and States, JC. Curcumin Lowers the Threshold of p53 Activation and Subsequent Induction of DNA Damage Recognition Proteins XPC and DDB2. Research!Louisville, University of Louisville, Louisville, KY, 2007
 91. Muenyi, C and States, JC. Resistance of Ovarian Cancer Cells to Cisplatin is Not Due to Differential Induction of XPC and DDB2. Research!Louisville, University of Louisville, Louisville, KY, 2007
 92. Taylor, BF and States, JC. Arsenite-Induced Mitotic Death Involves Stress Response and Is Independent of Tubulin Polymerization. Research!Louisville, University of Louisville, Louisville, KY, 2007
 93. Zhang, X, Barker, DF, Doll, M, Martin, RC, States, JC, Klinge, CM and Hein, DW. Investigation of the Mechanism of Elevated N-acetyltransferase 1 (NAT1) Expression in Estrogen Receptor Positive Breast Cancer. Research!Louisville, University of Louisville, Louisville, KY, 2007
 94. Bendaly, J, Zhao, S, Metry, KJ, Doll, MA, States, JC, Smith, NB, Pierce, WM and Hein, DW. Role of human cytochrome P450IA1 and N-acetyltransferase genetic polymorphism on the mutagenicity and DNA damage of the environmental carcinogens 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine and 4-aminobiphenyl. Ohio Valley Chapter Society of Toxicology. Eli Lilly Corp., Indianapolis, IN, November 2, 2007.
 95. Rogers, EN, Jiang, G, Belshoff, A and States, JC. Curcumin lowers the threshold of p53 activation and subsequent induction of DNA damage recognition proteins XPC and DDB2. Ohio Valley Chapter Society of Toxicology. Eli Lilly Corp., Indianapolis, IN, November 2, 2007.
 96. McNeely, SC, Belshoff, AC, McCabe, MJ, Taylor, BF and States, JC. Sensitivity to sodium arsenite depends upon a functional spindle checkpoint. Ohio Valley Chapter Society of Toxicology. Eli Lilly Corp., Indianapolis, IN, November 2, 2007.
 97. Millner, LM, Bendaly, J, Doll, MA, Barker, DF, States, JC and Hein, DW. Functional effect

- of N-acetyltransferase 1 (NAT1*10) polymorphism in DNA adduct formation and mutagenesis following exposure to aromatic and heterocyclic amine carcinogens. Ohio Valley Chapter Society of Toxicology. Eli Lilly Corp., Indianapolis, IN, November 2, 2007.
98. Muenyi, C, Pandit, AA and States, JC. Arsenite modifies p53 responsive gene products after cisplatin DNA damage in ovarian cancer cells. Ohio Valley Chapter Society of Toxicology. Eli Lilly Corp., Indianapolis, IN, November 2, 2007.
 99. Taylor, BF and States, JC. Arsenite-Induced Mitotic Death Involves Stress Response and Is Independent of Tubulin Polymerization. Ohio Valley Chapter Society of Toxicology. Eli Lilly Corp., Indianapolis, IN, November 2, 2007.
 100. Zhang, X, Barker, DF, Doll, M, Martin, RC, States, JC, Klinge, CM and Hein, DW. Investigation of the Mechanism of Elevated N-acetyltransferase 1 (NAT1) Expression in Estrogen Receptor Positive Breast Cancer. Ohio Valley Chapter Society of Toxicology. Eli Lilly Corp., Indianapolis, IN, November 2, 2007.
 101. Arteel, GE, Guo, L, Schierf, T, Beier, JI, Kaiser, JP, Chen, TS, Conklin, DJ, Miller, HL and States, JC. Subhepatotoxic Exposure to Arsenic Enhances Lipopolysaccharide-induced Liver Injury in Mice. Research!Louisville, University of Louisville, Louisville, KY, 2007
 102. Woods, J and States, JC. Resveratrol induces G1-arrest in response to low level DNA damage in lung cancer cells. Posters in the Capitol, Lexington, KY, Feb. 4, 2008.
 103. Rogers, E, Jiang, G, Belshoff, A and States, JC. Curcumin reduces BPDE-adduct levels by inducing cell cycle arrest and DNA damage proteins in A549 lung epithelial cells. 10th Annual Midwest DNA Repair Symposium. University of Pittsburgh, Pittsburgh, PA, May 10-11, 2008.
 104. Muenyi, C, Pandit, AA and States, JC. Arsenite and hyperthermia modify the levels of XPC, DDB2 and p21^{CIP1/WAF1} after cisplatin DNA damage in ovarian cancer cells. 10th Annual Midwest DNA Repair Symposium. University of Pittsburgh, Pittsburgh, PA, May 10-11, 2008.
 105. Rogers, E, Jiang, G and States, JC. Curcumin regulates cell cycle progression and DNA repair proteins in a p53-dependent manner. Research!Louisville, University of Louisville, Louisville, KY, 2008
 106. Muenyi, C, Pandit, A, Fan, T., Helm, CW and States, JC. Augmentation of cisplatin cytotoxicity associated with altered DNA damage response and cellular Pt accumulation. Research!Louisville, University of Louisville, Louisville, KY, 2008.
 107. Taylor, BF, Zajack, M, Trent, J and States, JC. Arsenite Inhibition of the Anaphase Promoting Complex: Discovering the Mechanism of Action of an Old Drug Results in a New Drug Target. Research!Louisville, University of Louisville, Louisville, KY, 2008.
 108. Zajack, M, Andrew Micciche, A, Taylor, BF and States, JC. Development of Fusion Vectors for Anaphase Promoting Complex: The Framework to an Arsenic Trioxide Binding Experiment. Research!Louisville, University of Louisville, Louisville, KY, 2008.
 109. Millner, LM, Barker, DF, Howarth, AL, Doll, MA, States, JC and Hein, DW. Translational effects of alternative NAT1 mRNA isoforms. Research!Louisville, University of Louisville, Louisville, KY, 2008.
 110. Barker, DF, Doll, MA, Jensen, NS, States, JC and Hein, DW. RNA Integrity is a Quality Control Indicator of Human Cryopreserved Hepatocyte Specimens for N-acetyltransferase 1 Genotype/Phenotype Assessment. Research!Louisville, University of Louisville, Louisville, KY, 2008.
 111. Barker, DF, Husain, A., Neale, JR, Martini, BD, Zhang, X, Doll, MA, States, JC and Hein,

- DW. Functional Properties of an Alternative Tissue-specific Promoter for the N-Acetyltransferase Gene NAT1. Research!Louisville, University of Louisville, Louisville, KY, 2008.
112. Zajack, M, Andrew Micciche, A, Taylor, BF and States, JC. Development of Fusion Vectors for Anaphase Promoting Complex: The Framework to an Arsenic Trioxide Binding Experiment. 7th Annual Brown Cancer Center Retreat, Louisville, KY, October 29, 2008.
 113. von Montfort, C, Beier, JI, Guo, L, Joshi-Barve, S, States, JC and Arteel, GE. PAI-1 plays a protective role in carbon tetrachloride-induced hepatic fibrosis in mice: role of hepatocyte division. 7th Annual Brown Cancer Center Retreat, Louisville, KY, October 29, 2008.
 114. Taylor, BF, Zajack, M, Trent, J and States, JC. Arsenite Inhibition of the Anaphase Promoting Complex: Discovering the Mechanism of Action of an Old Drug Results in a New Drug Target. 7th Annual Brown Cancer Center Retreat, Louisville, KY, October 29, 2008.
 115. Rogers, EN, Jiang, GH and States, JC. Curcumin regulates cell cycle progression and DNA repair proteins in a p53-dependent manner. 7th Annual Brown Cancer Center Retreat, Louisville, KY, October 29, 2008.
 116. Muenyi, C, Pandit, A, Fan, T., Helm, CW and States, JC. Augmentation of cisplatin cytotoxicity associated with altered DNA damage response and cellular Pt accumulation. 7th Annual Brown Cancer Center Retreat, Louisville, KY, October 29, 2008.
 117. Millner, LM, Barker, DF, Howarth, AL, Doll, MA, States, JC and Hein, DW. Translational effects of alternative NAT1 mRNA isoforms. 7th Annual Brown Cancer Center Retreat, Louisville, KY, October 29, 2008.
 118. Barker, DF, Doll, MA, Jensen, NS, States, JC and Hein, DW. RNA Integrity is a Quality Control Indicator of Human Cryopreserved Hepatocyte Specimens for N-acetyltransferase 1 Genotype/Phenotype Assessment. 7th Annual Brown Cancer Center Retreat, Louisville, KY, October 29, 2008.
 119. States, VAR, Masters, JH, Muenyi, CS, States, JC and C. William Helm, CW. Mouse model for treating metastatic human ovarian cancer with hyperthermic intraperitoneal chemotherapy. 7th Annual Brown Cancer Center Retreat, Louisville, KY, October 29, 2008.
 120. Muenyi, C, Pandit, A, Fan, T., Helm, CW and States, JC. Augmentation of cisplatin cytotoxicity associated with altered DNA damage response and cellular Pt accumulation. Ohio Valley Chapter Society of Toxicology. Wright State University, Dayton, OH, November 7, 2008.
 121. Rogers, EN, Jiang, GH and States, JC. Curcumin regulates cell cycle progression and DNA repair proteins in a p53-dependent manner. Ohio Valley Chapter Society of Toxicology. Wright State University, Dayton, OH, November 7, 2008.
 122. Ngalame, N, Arteel, GE, Arteel, JI and States, JC. Transplacental exposure to arsenic induces hepatic changes in ApoE^{-/-} mice. Ohio Valley Chapter Society of Toxicology. Wright State University, Dayton, OH, November 7, 2008.
 123. States, VAR, Masters, JH, Muenyi, CS, States, JC and C. William Helm, CW. Mouse model for treating metastatic human ovarian cancer with hyperthermic intraperitoneal chemotherapy. Ohio Valley Chapter Society of Toxicology. Wright State University, Dayton, OH, November 7, 2008.
 124. Belshoff AC, States SJ, Wickramasinghe A, Zajack MR, States JC. Generation of ANAP11 recombinant mutant to investigate As induced mitotic arrest. Research!Louisville, University of Louisville, Louisville, KY, November 6, 2009.

125. Rogers EN, States JC. Curcumin regulates cell cycle progression in a p53-dependent manner in response to BPDE-induced damage. Research!Louisville, University of Louisville, Louisville, KY, November 6, 2009.
126. Muenyi CS, Pandit AA, TW, Helm CW, States JC. Co-treatment with sodium arsenite and hyperthermia sensitizes cisplatin-resistant ovarian cancer cells to cisplatin by suppressing XPC induction and increasing drug uptake. Research!Louisville, University of Louisville, Louisville, KY, November 6, 2009.
127. Zajack M, Piao Y, Ko MS, Rouchka E, States JC. Induction of Inflammation and Mitochondrial Dysfunction Pathways in Livers of Arsenic-Exposed ApoE-Knockout Mice. Research!Louisville, University of Louisville, Louisville, KY, November 6, 2009.
128. Wickramasinghe AK, States SJ, Belshoff A, States JC. A step towards understanding the molecular basis of arsenic-induced carcinogenesis. Brown Cancer Center Retreat, Louisville, KY, November 6, 2009.
129. Millner LM, Doll MA, States JC, Hein DW. Functional Effects of Alternative N-acetyltransferase (NAT1*10) mRNA Isoforms . Brown Cancer Center Retreat, Louisville, KY, November 6, 2009.
130. States VA, Muenyi CS, Masters JH, States JC, Helm CW. Platinum and Arsenic Biodistribution and DNA Repair Protein Expression in a Hyperthermic Intraperitoneal Chemotherapy Mouse Model for Metastatic Human Ovarian Cancer. Brown Cancer Center Retreat, Louisville, KY, November 6, 2009.
131. Rogers EN, States JC. Curcumin regulates cell cycle progression in a p53-dependent manner in response to BPDE-induced damage. Ohio Valley Chapter Society of Toxicology, Proctor & Gamble, Mason OH, November 6, 2009.
132. Muenyi CS, Pandit AA, TW, Helm CW, States JC. Co-treatment with sodium arsenite and hyperthermia sensitizes cisplatin-resistant ovarian cancer cells to cisplatin by suppressing XPC induction and increasing drug uptake. Ohio Valley Chapter Society of Toxicology, Proctor & Gamble, Mason OH, November 6, 2009.
133. Zajack M, Piao Y, Ko MS, Rouchka E, States JC. Induction of Inflammation and Mitochondrial Dysfunction Pathways in Livers of Arsenic-Exposed ApoE-Knockout Mice. Ohio Valley Chapter Society of Toxicology, Proctor & Gamble, Mason OH, November 6, 2009.
134. Ngalamé NO, Feil ME, Micciche AF, States JC. Delayed temporal increase of hepatic Hsp70 in ApoE^{-/-} mice with accelerated atherosclerosis induced by in utero arsenic exposure. Ohio Valley Chapter Society of Toxicology, University of Cincinnati, Cincinnati, OH, September 24, 2010.
135. NA Lavender, OO Komolafe, M Benford, G Brock, JH Moore, TT VanCleave, JC States, RA Kittles, LR Kidd. No Association between Variant DNA Repair Genes and Prostate Cancer Risk among Men of African descent. 12th Annual Midwest DNA Repair Symposium, University of Louisville, Louisville, KY, May 15 -16, 2010.
136. LM Millner, MA Doll, JC States, DW Hein. *Differences in Arylamine-induced Mutagenesis Associated with N-Acetyltransferase 1 Alternative mRNA Isoforms*. 12th Annual Midwest DNA Repair Symposium, University of Louisville, Louisville, KY, May 15 -16, 2010.
137. VA States, CS Muenyi, JH Masters, T Fan, CW Helm, JC States. Arsenic alters the expression of DNA repair proteins and platinum accumulation in vivo after murine hyperthermic intraperitoneal chemotherapy (HIPEC). 12th Annual Midwest DNA Repair Symposium, University of Louisville, Louisville, KY, May 15 -16, 2010.

138. CS. Muenyi, TW Fan, CW Helm, and JC States. Arsenic and hyperthermia sensitization of p53^{+/+} ovarian cancer cells to cisplatin is associated with decreased XPC protein and increased cellular Pt accumulation. 12th Annual Midwest DNA Repair Symposium, University of Louisville, Louisville, KY, May 15 -16, 2010.
139. EN Rogers, G Jiang, JC States. Curcumin regulates cell cycle progression in a p53-dependent manner in response to BPDE-induced DNA damage. 12th Annual Midwest DNA Repair Symposium, University of Louisville, Louisville, KY, May 15 -16, 2010.
140. M Lykins, A Pinhas, C States. ANAPC11 as an Arsenic Target. Abstract MED-40. Research!Louisville, University of Louisville, Louisville, KY, October 11 - 15, 2010.
141. M Tan, V Massey, X Ding, H Zhong, JC States, G Arteel. Arsenic Pre-exposure Delays Cell Cycle Entry and Progression in Mouse Liver after Partial Hepatectomy. Abstract RA-89. Research!Louisville, University of Louisville, Louisville, KY, October 11 - 15, 2010.
142. CS Leggett, DF Barker, MA Doll, LM Millner, JC States, DW Hein. Functional Effects of CYP1A2, NAT1, and NAT2 Genetic Variants in Nucleotide Excision Repair-deficient Human Fibroblasts: Implications for Toxicological Risk from Environmental Arylamines. Abstract GRM-12. Research!Louisville, University of Louisville, Louisville, KY, October 11 - 15, 2010.
143. LM Millner, MA Doll, JC States, DW Hein. Functional Effects of NAT1*14B Polymorphism in a NATb mRNA Construct. Abstract GRD-46. Research!Louisville, University of Louisville, Louisville, KY, October 11 - 15, 2010.
144. EN Rogers, JC States. Curcumin Regulates Cell Cycle Progression in Response to BPDE-induced DNA Damage. Abstract GRD-53. Research!Louisville, University of Louisville, Louisville, KY, October 11 - 15, 2010.
145. Y Zhu, JC States, Y Wang, DW Hein. Functional Effects of Genetic Polymorphisms in the N-acetyltransferase 1 Coding and 3' Untranslated Regions. Abstract RA-94. Research!Louisville, University of Louisville, Louisville, KY, October 11 - 15, 2010.
146. C Muenyi, V States, J Masters, T Fan, CW Helm, JC States. Sodium Arsenite and Hyperthermia Alter Expression of XPA, XPC and MSH2 in Response to Cisplatin-induced DNA Damage and Increase Accumulation of Platinum in Ovarian Cancer. Abstract GRD-48. Research!Louisville, University of Louisville, Louisville, KY, October 11 - 15, 2010.
147. NNO Ngaleme, ME Feil, AFMicicche, JC States. Delayed Temporal Increase of Hepatic Hsp70 in ApoE^{-/-} Mice with Accelerated Atherosclerosis Induced by in Utero Arsenic Exposure. Abstract GRD-49. Research!Louisville, University of Louisville, Louisville, KY, October 11 - 15, 2010.
148. M Tan, VL Massey, X Ding, H Zhong, JC States, G Arteel. Arsenic Pre-exposure Delays Cell Cycle Entry and Progression in Mouse Liver after Partial Hepatectomy. Ohio Valley Society of Toxicology, University of Cincinnati, Cincinnati, OH, September 24, 2010.
149. NO Ngaleme, ME Feil, AFMicicche, JC States. Delayed Temporal Increase of Hepatic Hsp70 in ApoE^{-/-} Mice with Accelerated Atherosclerosis Induced by in Utero Arsenic Exposure. Ohio Valley Society of Toxicology, University of Cincinnati, Cincinnati, OH, September 24, 2010.
150. CS Muenyi, VA States, Jh Masters, T Fan, CW Helm, JC States. Sodium Arsenite and Hyperthermia Alter Expression of XPA, XPC and MSH2 in Response to Cisplatin-induced DNA Damage and Increase Accumulation of Platinum in Ovarian Cancer. Ohio Valley Society of Toxicology, University of Cincinnati, Cincinnati, OH, September 24, 2010.
151. CS Leggett, DF Barker, MA Doll, LM Millner, JC States, DW Hein. Functional Effects of

- CYP1A2, NAT1, and NAT2 Genetic Variants in Nucleotide Excision Repair-deficient Human Fibroblasts: Implications for Toxicological Risk from Environmental Arylamines. Brown Cancer Center Retreat, University of Louisville, Louisville, KY, November 5, 2010.
152. LM Millner, MA Doll, JC States, DW Hein. Functional Effects of NAT1*14B Polymorphism in a NATb mRNA Construct. Brown Cancer Center Retreat, University of Louisville, Louisville, KY, November 5, 2010.
153. CS Muenyi, VA States, Jh Masters, T Fan, CW Helm, JC States. Sodium Arsenite and Hyperthermia Alter Expression of XPA, XPC and MSH2 in Response to Cisplatin-induced DNA Damage and Increase Accumulation of Platinum in Ovarian Cancer. Brown Cancer Center Retreat, University of Louisville, Louisville, KY, November 5, 2010.
154. EN Rogers, JC States. Curcumin Regulates Cell Cycle Progression in Response to BPDE-induced DNA Damage. Brown Cancer Center Retreat, University of Louisville, Louisville, KY, November 5, 2010.
155. Y Zhu, JC States, Y Wang, DW Hein. Functional Effects of Genetic Polymorphisms in the N-acetyltransferase 1 Coding and 3' Untranslated Regions. Brown Cancer Center Retreat, University of Louisville, Louisville, KY, November 5, 2010.
156. JC States, Liver Gene Expression Changes Associated with Arsenic-induced Atherogenesis. 6th Conference on Molecular Mechanisms of Metal Toxicity and Carcinogenesis, University of Kentucky, Lexington, KY, November 14 -17, 2010.
157. CS Muenyi, VA States, Jh Masters, T Fan, CW Helm, JC States. Sodium Arsenite and Hyperthermia Alter Expression of XPA, XPC and MSH2 in Response to Cisplatin-induced DNA Damage and Increase Accumulation of Platinum in Ovarian Cancer. 6th Conference on Molecular Mechanisms of Metal Toxicity and Carcinogenesis, University of Kentucky, Lexington, KY, November 14 -17, 2010.
158. NO Ngalame, ME Feil, AF Micicche, JC States. Delayed Temporal Increase of Hepatic Hsp70 in ApoE^{-/-} Mice with Accelerated Atherosclerosis Induced by in Utero Arsenic Exposure. 6th Conference on Molecular Mechanisms of Metal Toxicity and Carcinogenesis, University of Kentucky, Lexington, KY, November 14 -17, 2010.
159. ME Feil, NNO Ngalame, JC States. Effects of in utero exposure to arsenic on expression of Hsp70 in livers of ApoE^{-/-} mice at various stages of development. Posters at the Capitol, Frankfort, KY, February 10, 2011.
160. M Fugate, JB Moore, SR Ellis, JC States. Arsenic exposure induces aneuploidy and slows growth in yeast. Posters at the Capitol, Frankfort, KY, February 10, 2011.
161. VA States, CS Muenyi, JH Masters, CW Helm, JC States. Arsenic Alters the Expression of DNA Repair Proteins and Platinum Accumulation in Vivo After Murine Hyperthermic Intraperitoneal Chemotherapy (HIPEC). Posters at the Capitol, Frankfort, KY, February 10, 2011.
162. C France, JO Trent, BF Taylor, JC States. Inhibition Of The Anaphase Promoting Complex: A Potential Novel Mitosis Disrupter For Paclitaxel Resistant Cancers. Research!Louisville, University of Louisville, Louisville, KY, October 10-14, 2011.
163. CS Leggett, ma Doll, JC States, JO Trent, DW Hein. Small molecule Inhibition of Arylamine N-Acetyltransferase 1: A Novel Molecular Target for Cancer Prevention. Research!Louisville, University of Louisville, Louisville, KY, October 10-14, 2011.
164. C France, JO Trent, BF Taylor, JC States. Inhibition Of The Anaphase Promoting Complex: A Potential Novel Mitosis Disrupter For Paclitaxel Resistant Cancers. Brown Cancer Center, 10th Annual Retreat, Louisville, KY, October 28, 2011.

165. CS Leggett, MA Doll, JC States, JO Trent, DW Hein. Small molecule Inhibition of Arylamine N-Acetyltransferase 1: A Novel Molecular Target for Cancer Prevention. Brown Cancer Center, 10th Annual Retreat, Louisville, KY, October 28, 2011.
166. M Stepp, MA Doll, L Millner, JC States, DW Hein. Functional analysis of arylamine N-acetyltransferase 1 (NAT1) NAT1*10 haplotype in NATa mRNA constructs. Research!Louisville, University of Louisville, Louisville, KY, September 18-21, 2012.
167. SM Carlisle, CS Leggett, JO Trent, MA Doll, JC States, DW Hein. In Silico Screening for Novel Human Arylamine N-Acetyltransferase 1 Inhibitors. Research!Louisville, University of Louisville, Louisville, KY, September 18-21, 2012.
168. N Jackson, CS Leggett, MA Doll, JC States, DW Hein. Inhibition of Human Arylamine N-Acetyltransferase I using Curcumin and Resveratrol Increases the Potency of Small Inhibitor Compound 10. Research!Louisville, University of Louisville, Louisville, KY, September 18-21, 2012.
169. J Uebel, M Doll, JC States, D Hein. Effect of NAT2 Acetylation Polymorphism on Drug and Carcinogen Metabolism in Cryopreserved Human Hepatocytes in Culture. Research!Louisville, University of Louisville, Louisville, KY, September 18-21, 2012.
170. DJ Saforo, BC Sils, BF Taylor, JO Trent, JC States. Candidate Drugs Target the APC/C to Induce Mitotic Arrest in Ovarian Cancer. Research!Louisville, University of Louisville, Louisville, KY, September 18-21, 2012.
171. L Al-Eryani, B Wahlang, KC Falkner, HB Clair, JJ Guardiola, RA Prough, JC States, M Cave. Identification of Xenobiotic Receptor Agonists which could contribute to Nonalcoholic Fatty Liver Disease. Research!Louisville, University of Louisville, Louisville, KY, September 25-29, 2013.
172. SM Carlisle, MA Doll, JC States, DW Hein. The Effect of a Human Arylamine N-Acetyltransferase 1 Specific Inhibitor and Curcumin or Resveratrol on the Proliferation of Breast Cancer Cell Lines. Research!Louisville, University of Louisville, Louisville, KY, September 25-29, 2013.
173. B Wahlang, M Song, JI Beier, LA Al-Eryani, HB Clair, KC Falkner, RA Prough, JC States, M Cave. Aroclor 1260 Exposure Worsens Hepatic and Systemic Inflammation in an Animal Model of Diet-Induced Obesity and Nonalcoholic Fatty Liver Disease. Research!Louisville, University of Louisville, Louisville, KY, September 25-29, 2013.
174. NA Klimchak, BC Sils, JO Trent, JC States. Compounds Targeting the Anaphase Promoting Complex Inhibit Lung Cancer Cell Growth. Research!Louisville, University of Louisville, Louisville, KY, September 25-29, 2013.
175. D Saforo, B Sils, JC States. Candidate drugs binding the Anaphase Promoting Complex: A novel target for anticancer therapy. Research!Louisville, University of Louisville, Louisville, KY, September 25-29, 2013.
176. Stepp M, Doll M, States JC, Hein D.. Methylnitrosourea tumorigenesis differences between rapid and slow rat Nat2 congenic Fischer 344 rats exposed at 8 weeks of age. Poster presentation. James Graham Brown Cancer Center Annual Retreat 2014, Louisville, KY
177. Stepp M, Doll M, States JC, Hein D.. Methylnitrosourea tumorigenesis differences between rapid and slow rat Nat2 congenic Fischer 344 rats exposed at 8 weeks of age. Poster presentation. Research! Louisville 2014, Louisville, KY
178. Stepp M, Doll M, States JC, Hein D... Incidence of N-methylnitrosourea-induced breast tumors differ between rapid and slow acetylator congenic rat strains. Poster presentation.

- Great Lakes Drug Metabolism and Disposition Group 2014 Meeting, Indianapolis, IN (2014)
179. Stewart J, Doll M, States JC, Recombinant Expression of Codon-Optimized ANAPC2 and ANAPC11, Research!Louisville, Louisville, KY (2014)
 180. Stewart J, Doll M, States JC, Recombinant Expression of Codon-Optimized ANAPC2 and ANAPC11, JG Brown Cancer Center Retreat, Louisville, KY (2014)
 181. Carlisle M, Trainor J, Zhang X, Yin X, Doll MA, States JC, Hein DW. Metabolomics of Transformed MDA-MB-231 Cell Lines Expressing Different Levels of Human Arylamine N-Acetyltransferase 1 (NAT1). Research!Louisville, University of Louisville, Louisville, KY (2014)
 182. Udoh K, Hoffman JM, Trent JO, States JC. Inhibiting the Anaphase-Promoting Complex/Cyclosome: An Innovative Approach for Cancer Chemotherapy. Research!Louisville, University of Louisville, Louisville, KY (2015)
 183. Al-Eryani L, Jenkins S, Sabine Waigel S, States V, Arumugam V, Rai S, Galandiuk S, Giri AK, States JC. Differential miRNA and mRNA Expression in Immortalized Human Keratinocytes (HaCaT) after Low Arsenic Exposure Suggest Changes in Cell Proliferation, Cell Migration, Cytoskeleton Remodeling and Carcinogenesis Pathways. Research!Louisville, University of Louisville, Louisville, KY (2015)
 184. Carlisle S, Patrick Trainor P, Zhang C, Yin X, Doll M, States JC, Hein DW. Investigating Pathway Changes Associated with Varying Levels of Human Arylamine N-Acetyltransferase 1 (NAT1) Activity in MDA-MB-231 Breast Cancer Cells. Research!Louisville, University of Louisville, Louisville, KY (2015)
 185. Hoffman JM, Al-Eryani L, Saforo D, Taylor BF, Trent JO, Garbett NC, States JC. Purification of the C-terminal Domain of ANAPC2 and Evidence Supporting the Interaction of Lead Compounds for Inhibition of Mitosis. Research!Louisville, University of Louisville, Louisville, KY (2015)
 186. Wu J, Al-Eryani L, States V, Hoffman J, Doll M, Wise S, Rai S, Galandiuk S, Giri AK, States JC. Overexpression of miR-186 induces polyploidization in HaCaT cell line. Research!Louisville, University of Louisville, Louisville, KY (2015)
 187. Jenkins S, Al-Eryani L, States JC. Chronic Low Level Arsenite Exposure Induces Matrix Remodeling Pathways In Human Keratinocytes. Research!Louisville, University of Louisville, Louisville, KY (2015)
 188. Al-Eryani L, Jenkins S, Sabine Waigel S, States V, Arumugam V, Rai S, Galandiuk S, Giri AK, States JC. Differential miRNA and mRNA Expression in Immortalized Human Keratinocytes (HaCaT) after Low Arsenic Exposure Suggest Changes in Cell Proliferation, Cell Migration, Cytoskeleton Remodeling and Carcinogenesis Pathways. Ohio Valley Chapter Society of Toxicology, Northern Kentucky University, Highland Heights, KY (2015)
 189. Hoffman JM, Al-Eryani L, Saforo D, Taylor BF, Trent JO, Garbett NC, States JC. Purification of the C-terminal Domain of ANAPC2 and Evidence Supporting the Interaction of Lead Compounds for Inhibition of Mitosis. Ohio Valley Chapter Society of Toxicology, Northern Kentucky University, Highland Heights, KY (2015)
 190. Wu J, Al-Eryani L, States V, Hoffman J, Doll M, Wise S, Rai S, Galandiuk S, Giri AK, States JC. Overexpression of miR-186 induces polyploidization in HaCaT cell line. Ohio Valley Chapter Society of Toxicology, Northern Kentucky University, Highland Heights, KY (2015)

191. Al-Eryani L, Waigel S, Jenkins S, Arumugam V, States JC. Induction of Cell Cycle Pathways in Human Keratinocytes at Early Stages of Chronic Exposure to Low Arsenite. Research!Louisville, University of Louisville, Louisville, KY, October 11-14, 2016
192. Gordon C, Stocke C, Al-Eryani L, States VAR, Rai SN, Galandiuk S, Giri AK, States JC. Arsenic Exposure Inhibits ZRANB2 Function, Research!Louisville, University of Louisville, Louisville, KY, October 11-14, 2016
193. Hoffman JM, Wainscott N, Taylor BF, Trent JO, States JC. Recombinant ANAPC2 Displays Multiple Internal Start Sites and Compounds Targeting ANAPC2 Decrease Proliferation of Lung Cancer Cells in vitro, Research!Louisville, University of Louisville, Louisville, KY, October 11-14, 2016
194. Stocke C, Al Eryani L, Gordon C, States V, Rai S, Galandiuk S, Giri A, States JC. Arsenic Induces Functional Changes of ZRANB2 and Expression of hsa-miR-186. Research!Louisville, University of Louisville, Louisville, KY, October 11-14, 2016
195. Hoffman JM, Wainscott N, Taylor BF, Trent JO, States JC. Recombinant ANAPC2 Displays Multiple Internal Start Sites and Compounds Targeting ANAPC2 Decrease Proliferation of Lung Cancer Cells in vitro. University of Kentucky Markey Cancer Center and University of Louisville Brown Cancer Center Lung Cancer Symposium, UK, Lexington, KY October 15, 2016
196. Al-Eryani L, Waigel S, Jenkins S, Arumugam V, States JC. Induction of Cell Cycle Pathways in Human Keratinocytes at Early Stages of Chronic Exposure to Low Arsenite. Ohio Valley Regional Chapter Society of Toxicology, Eli Lilly & Co., October 28, 2016
197. Hoffman JM, Wainscott N, Taylor BF, Trent JO, States JC. Recombinant ANAPC2 Displays Multiple Internal Start Sites and Compounds Targeting ANAPC2 Decrease Proliferation of Lung Cancer Cells in vitro, Ohio Valley Regional Chapter Society of Toxicology, Eli Lilly & Co., October 28, 2016
198. Stocke C, Al Eryani L, Gordon C, States V, Rai S, Galandiuk S, Giri A, States JC. Arsenic Induces Functional Changes of ZRANB2 and Expression of hsa-miR-186. Ohio Valley Regional Chapter Society of Toxicology, Eli Lilly & Co., October 28, 2016
199. Hoffman JM, Bagah-Kognagba MJ, Taylor BF, Trent JO, States JC. Targeting the Major Regulator of Mitosis for Cancer Chemotherapy. Research!Louisville, University of Louisville, Louisville, KY, September 11-15, 2017
200. Knear-Bell RN, Al-Eryani L, States V, Rai SN, Pan J, Kalbfleish T, States JC. Arsenic-Induced Fluctuations in miR-186 Expression and ZRANB2 Directed Splicing. Research!Louisville, University of Louisville, Louisville, KY, September 11-15, 2017
201. Young JL, Burke TJ, Watson WH, Freedman J, Arteel GE, States JC. A Model to Study the Effects of Early Life Chronic Exposure to Arsenic and Cadmium on the Development of Adult Cardiometabolic Syndrome. Research!Louisville, University of Louisville, Louisville, KY, September 11-15, 2017
202. Bagah-Kognagba MJ, Hoffman JM, Taylor BF, Trent JO, States JC. The Anaphase Promoting Complex: A Novel Target In Cancer Therapy. Research!Louisville, University of Louisville, Louisville, KY, September 11-15, 2017
203. Hoffman JM, Bagah-Kognagba MJ, Taylor BF, Trent JO, States JC. Targeting the Major Regulator of Mitosis for Cancer Chemotherapy. Ohio Valley Chapter Society of Toxicology, Purdue University, West Lafayette, IN, December 1, 2017

204. Knear-Bell R, Cardoso APFC, Al-Eryani L, Kalbfleisch T, Pan J, Rai S, States JC. Arsenic Induced mTOR Dysregulation Promoting Squamous Cell Carcinoma. Research!Louisville, University of Louisville, Louisville, KY, October 9-12, 2018
205. Davis J, Banerjee M, States JC. Optimization of Expression of Tag-Free Zinc Finger Peptides of ZRANB2. Research!Louisville, University of Louisville, Louisville, KY, October 9-12, 2018
206. Sanders A, Banerjee M, Cardoso A, Al-Eryani L, Sayed M, Park J, States JC. Chronic Arsenic Exposure Leads to Altered Splicing Events in a HaCaT Cell Model of Squamous Cell Carcinoma. Research!Louisville, University of Louisville, Louisville, KY, October 9-12, 2018
207. Cardoso APF, Wu J, States VAR, Al-Eryani L, Wise SS, States JC. Overexpression of hsa-miR-186 suppresses BUB1 and induces chromosome numerical and structural abnormalities in arsenic-exposed and non-exposed HaCaT cells. Research!Louisville, University of Louisville, Louisville, KY, October 9-12, 2018
208. Watson WH, Young JL, Burke TJ, Kalbfleisch T, Cai L, States JC, Arteel GE, Freedman J. Sexually dimorphic hepatic responses to environmental arsenic exposure in a mouse model of non-alcoholic fatty liver disease. Research!Louisville, University of Louisville, Louisville, KY, October 9-12, 2018
209. Banerjee M, Cardoso APF, Al-Eryani L, Sayed M, Park JW, Rai SN, Pan J, States JC. Chronic Arsenic Exposure in a HaCaT Cell Model of Squamous Cell Carcinoma: Altered Splicing Events or Selection of Clones with Specific Isoforms? Ohio Valley Chapter Society of Toxicology, University of Louisville, Louisville, KY, November 30, 2018
210. Cardoso APF, Banerjee M, Al-Eryani L, Sayed M, Park JW, States JC. Alternative splicing events and RT-PCR analysis of SHC1 in arsenic exposed human keratinocytes. Ohio Valley Chapter Society of Toxicology, University of Louisville, Louisville, KY, November 30, 2018
211. Frye WJE, Cardoso APF, Banerjee M, Al-Eryani L, Sayed M, Park JW, States JC. Alternative Splicing Events Induced In Human Keratinocytes by Chronic Arsenic Exposure and Its Protein Levels. Ohio Valley Chapter Society of Toxicology, University of Louisville, Louisville, KY, November 30, 2018
212. Cardoso APF, Banerjee M, Al-Eryani L, Sayed M, Park J, States JC. Alternative splicing events and RT-PCR analysis of SHC1 in arsenic exposed human keratinocytes. Research!Louisville, University of Louisville, Louisville, KY, September 10-13, 2019
213. Banerjee M, Wilkey DW, Watson WH, Garbett NC, Merchant ML, States JC. Arsenite can displace zinc from the zinc finger domains of alternative splicing regulator ZRANB2. Research!Louisville, University of Louisville, Louisville, KY, September 10-13, 2019
214. Crider K, Banerjee M, Al-Eryani L, Ceresa B, States JC. Chronic Arsenic Exposure Suppresses EGFR Activity in the Early Stages of Squamous Cell Carcinoma. Research!Louisville, University of Louisville, Louisville, KY, September 10-13, 2019
215. Lykoudi A, Cardoso APF, Wu J, Wise SS, States JC. Overexpression of hsa-miR-186 induces anchorage-independent growth and chromosomal alterations in arsenic exposed human keratinocytes: A preliminary study. Research!Louisville, University of Louisville, Louisville, KY, September 10-13, 2019
216. Sparling N, Cardoso APF, Banerjee M, Wu J, States JC. Arsenic and hsa-miR-186 Overexpression Impair the DNA Damage Response Pathway in Human Keratinocytes. Research!Louisville, University of Louisville, Louisville, KY, September 10-13, 2019

218. Ferragut Cardoso AP, Banerjee M, Wilkey D, Al-Eryani L, Sayed M, Park JW, Merchant M, States JC. Alternative Splicing as a Key Mechanism in Arsenic-Induced Squamous Cell Carcinoma: Evidence from RNA-Seq and Proteomic Analysis. Ohio Valley Chapter Society of Toxicology, Proctor & Gamble, Mason, OH, October 18, 2019
219. Lykoudi A, Ferragut Cardoso AP, Wu J, Wise SS, States JC. Overexpression of hsa-miR-186 induces anchorage-independent growth and chromosomal alterations in arsenic-exposed human keratinocytes: A preliminary study. Ohio Valley Chapter Society of Toxicology, Proctor & Gamble, Mason, OH, October 18, 2019
220. Banerjee M, Ferragut Cardoso AP, Lykoudi A, Wilkey DW, Watson WH, Garbett NC, Merchant M, Pan J, Rai SN, States JC. Arsenite can Displace Zinc from the Zinc Finger Domains of Alternative Splicing Regulator ZRANB2. Ohio Valley Chapter Society of Toxicology, Proctor & Gamble, Mason, OH, October 18, 2019
221. Lykoudi A, Ferragut Cardoso AP, Wise SS, States JC. MiR-186 overexpression exacerbates the arsenic-induced chromosomal instability associated with skin carcinogenesis. Ohio Valley Chapter Society of Toxicology, University of Louisville, Louisville, KY, November 1, 2020
222. Ferragut Cardoso AP, Banerjee M, Al-Eryani L, Sayed M, Park JW, States JC. Chronic Arsenic Exposure Induces Unique Alternative Splicing Landscapes at Each Stage of Cutaneous Squamous Cell Carcinoma Development. Ohio Valley Chapter Society of Toxicology, University of Louisville, Louisville, KY, November 1, 2020
223. Banerjee M, Ferragut Cardoso A, Al-Eryani L, Kalbfleisch TS, Srivastava S, Pan J, Rai SN, States JC. Longitudinal Dynamic Transcriptome Changes in a HaCaT Cell Line Model of Arsenic-induced Squamous Cell Carcinogenesis. Research!Louisville, University of Louisville, Louisville, KY, October 28, 2021
224. Ferragut Cardoso A, States JC. miR-186 Overexpression Suppresses BUB1 and CDC27 in Immortalized Human Keratinocytes. Research!Louisville, University of Louisville, Louisville, KY, October 27, 2021
225. Nail AN, McCaffrey LM, Ferragut Cardoso A, Banerjee M, States JC. Reduced DNA Damage Response Activation in Keratinocytes Chronically Exposed to Toxicologically Relevant Concentrations of Sodium Arsenite. Research!Louisville, University of Louisville, Louisville, KY, October 27, 2021
226. Frye WJ E, Banerjee M, Trent JO, States JC. Inhibiting the Anaphase Promoting Complex/Cyclosome: An Innovative Approach for Cancer Chemotherapy. Research!Louisville, University of Louisville, Louisville, KY, October 27, 2021
227. Bastick III JC, Banerjee M, States JC. Zinc Mitigates Arsenic-Induced Dysregulation of ZRANB2 Splice Function. Research!Louisville, University of Louisville, Louisville, KY, October 26, 2021
228. Rogers MN, Ferragut Cardoso A, States JC. UV and Arsenic Exhibit Differential Modulation of MAPK Pathways in HaCaT and Ker-CT Cell Lines. Research!Louisville, University of Louisville, Louisville, KY, October 26, 2021
229. McCaffrey LM, Ferragut Cardoso A, Banerjee M, Nail AN, States JC. DNA Damage Response Dysregulation in Keratinocytes Chronically Treated with Low Dose Arsenic. Research!Louisville, University of Louisville, Louisville, KY, October 26, 2021
230. Ferragut Cardoso A, States JC. miR-186 Overexpression Suppresses BUB1 and CDC27 in Immortalized Human Keratinocytes. Ohio Valley Chapter Society of Toxicology, Virtual Meeting, November 5, 2021

231. Nail AN, McCaffrey LM, Ferragut Cardoso A, Banerjee M, States JC. Reduced DNA Damage Response Activation in Keratinocytes Chronically Exposed to Toxicologically Relevant Concentrations of Sodium Arsenite. Ohio Valley Chapter Society of Toxicology, Virtual Meeting, November 5, 2021
232. Reynolds C, Nail A, Mayukh Banerjee M, States JC. Does Cadmium Reduce DNA Damage Signaling by the MRN Complex in Lung Epithelial Cells?. Research!Louisville, University of Louisville, Louisville, KY, Sept 19-23, 2022
233. Martinez M, Banerjee M, States JC. Effect of Arsenic Exposure on m6A Methylation in Human Keratinocytes. Research!Louisville, University of Louisville, Louisville, KY, Sept 19-23, 2022
234. Augenstein I, Banerjee M, Nail AN, Ana P. Ferragut Cardoso AP, States JC. Chronic Arsenic Exposure Inhibits Both Autophagy and Proteasomal Protein Degradation in Human Keratinocytes. Research!Louisville, University of Louisville, Louisville, KY, Sept 19-23, 2022
235. Patel D, Cardoso A, Kavitha Yaddanapudi K, States JC. Overexpression of miR-186 Induces Abnormal Mitotic Exit and Impairs Cytokinesis in Human Keratinocytes. Research!Louisville, University of Louisville, Louisville, KY, Sept 19-23, 2022
236. Xu M, Alexandra Nail A, Cardoso A, Banerjee M, States JC. Chronic Arsenic Exposure Reduces DNA-PKcs Phosphorylation and Causes Continued DNA-PKcs Cleavage in Immortalized Human Keratinocytes. Research!Louisville, University of Louisville, Louisville, KY, Sept 19-23, 2022
237. Nail AN, Montero L, Ferragut Cardoso A, Banerjee M, States JC. Chronic Arsenic Exposure Reduces ATM Pathway Activation in Human Keratinocytes. Research!Louisville, University of Louisville, Louisville, KY, Sept 19-23, 2022
238. Banerjee M, Yaddanapudi K, States JC. Zinc supplementation prevents mitotic accumulation in human keratinocyte cell lines upon environmentally relevant arsenic exposure. Research!Louisville, University of Louisville, Louisville, KY, Sept 19-23, 2022
239. Watson W, Wilkerson C, Mayukh Banerjee M, ; Pinhas A, States JC, Ferragut Cardoso AP. Relative sensitivity to acute arsenic toxicity among different keratinocyte cell lines is determined by differences in glutathione production. Research!Louisville, University of Louisville, Louisville, KY, Sept 19-23, 2022
240. Marshall J, Sullivan R, Ferragut Cardoso AP, States JC, Watson WH. Differences in resistance to erastin induced ferroptosis in the HaCaT and KerCT cell lines are not due to differences in glutathione amounts or metabolism, Ohio Valley Chapter Society of Toxicology, University of Louisville, Louisville, KY, October 14, 2022
241. Nail AN, Montero L, Ferragut Cardoso A, Banerjee M, States JC. Chronic Arsenic Exposure Reduces ATM Pathway Activation in Human Keratinocytes. Ohio Valley Chapter Society of Toxicology, University of Louisville, Louisville, KY, October 14, 2022
242. Banerjee M, Yaddanapudi K, States JC. Zinc supplementation prevents mitotic accumulation in human keratinocyte cell lines upon environmentally relevant arsenic exposure. Ohio Valley Chapter Society of Toxicology, University of Louisville, Louisville, KY, October 14, 2022
243. Nail AN, Bailey A, Cai L, States JC. Chronic Cadmium Exposure Disrupts Metal Homeostasis and DNA Double-Strand Break Signaling. Research!Louisville, University of Louisville, October 4, 2023.

244. Bailey A, Nail AN, States JC. Chronic Cadmium Exposure Suppresses the DNA Damage Response. Research!Louisville, University of Louisville, October 3, 2023.
245. Banerjee M, Hwang J, Nail AN, Park JW, Smith ML, States JC. Arsenic-induces transcriptome-wide differential alternative splicing by suppressing splice function of zinc finger containing apical splice regulators ZRANB2 and SRSF7. Research!Louisville, University of Louisville, October 5, 2023.
246. Goff R, Banerjee M, States JC. Arsenic Induced Suppression of Autophagic Protein Degradation is Zinc Dependent. Research!Louisville, University of Louisville, October 3, 2023.
247. Bates C, Thomas S, States JC. Evidence of the Stochasticity of Malignant Transformation of Human Keratinocytes Chronically Exposed to Arsenic Brown Cancer Center Retreat, University of Louisville, August 23, 2024.
248. Chavez A, Nail A, States JC. Chronic Cadmium Exposure Promotes Breast Epithelia I Cell Malignant Transformation by Suppression of the DNA Damage Response. Brown Cancer Center Retreat, University of Louisville, August 23, 2024.
249. Maya T, Nail AN, Thomas S, Wise S, States JC. Ker-CT Cells: A New Model to Study iAs-induced Genomic Instability in Keratinocytes. Brown Cancer Center Retreat, University of Louisville, August 23, 2024.
250. Bates C, Thomas S, States JC. Evidence of the Stochasticity of Malignant Transformation of Human Keratinocytes Chronically Exposed to Arsenic. Research!Louisville, University of Louisville, September 17, 2024.
251. Chavez A, Nail A, States JC. Chronic Cadmium Exposure Promotes Breast Epithelia I Cell Malignant Transformation by Suppression of the DNA Damage Response. Research!Louisville, University of Louisville, September 17, 2024.
252. Maya T, Nail AN, Thomas S, Wise S, States JC. Ker-CT Cells: A New Model to Study iAs-induced Genomic Instability in Keratinocytes. Research!Louisville, University of Louisville, September 17, 2024.
253. Banerjee M, Srivastava S, Rai SN, States JC. Quantifying the Contribution of Stochastic Gene Expression in Arsenic Exposure-Induced Skin Carcinogenesis. Research!Louisville, University of Louisville, September 19, 2024.
254. Chavez A, Nail A, States JC. Chronic Cadmium Exposure Promotes Breast Epithelia I Cell Malignant Transformation by Suppression of the DNA Damage Response. Ohio Valley Chapter Society of Toxicology, University of Louisville, Louisville, KY, October 25, 2024.
255. Maya T, Nail AN, Thomas S, Wise S, States JC. Ker-CT Cells: A New Model to Study iAs-induced Genomic Instability in Keratinocytes. Ohio Valley Chapter Society of Toxicology, University of Louisville, Louisville, KY, October 25, 2024.
256. Owolabi GJ, States JC, Nail AN. Activated BRCA1 is Reduced by Acute Cd Exposure in Breast Epithelial Cells. Brown Cancer Center Retreat, University of Louisville. August 22, 2025.
257. Nail AN, Owolabi GJ, States JC. DNA damage response inhibition is an early event in cadmium-induced breast carcinogenesis. Brown Cancer Center Retreat, University of Louisville. August 22, 2025.

Invited seminars:

- 5/6/88 "Complementation of Xeroderma Pigmentosum Group A Cells", Department of Microbiology and Immunology, Albany Medical College, Albany NY

- 5/9/88 "A Quest for DNA Repair Genes", Department of Molecular Biology and Genetics, Wayne State University, Detroit MI
- 10/9/89 "DNA Excision Repair Genes", Department of Molecular Biology and Genetics, Wayne State University, Detroit MI
- 11/20/90 "Xeroderma Pigmentosum: A Paradigm DNA Repair Deficiency Disease", Department of Biological Sciences, Oakland University, Oxford MI
- 10/26/92 "Controlled Expression of Human Cytochrome P450 1A1: Stable Transformation of Xeroderma Pigmentosum and Normal Human Fibroblasts", Department of Biological Sciences, Wayne State University, Detroit MI
- 1/14/93 "Controlled Expression of Human Cytochrome P450 1A1: Stable Transformation of Xeroderma Pigmentosum and Normal Human Fibroblasts", Lilly Research Laboratories, Eli Lilly & Company, Indianapolis, IN
- 3/9/93 "Benzo(a)pyrene metabolite cytotoxicity in human fibroblasts stably transformed with an inducible human CYP1A1 expression construct", Department of Pharmaceutical Sciences, Wayne State University, Detroit, MI
- 12/8/94 "Genotoxicology of Benzo[a]pyrene Metabolites: It's all in the delivery", Department of Pharmacology & Toxicology and Toxicology, University of Arkansas for Medical Sciences, Little Rock, AR
- 9/19/95 "Dose Rate Effects on Benzo[a]pyrene Genotoxicology", Division of Investigative Toxicology, The Upjohn Company, Kalamazoo, MI
- 2/14/96 "Genotoxicology of Benzo[a]pyrene Metabolites in Genetically Engineered Human Cells", Department of Pharmacology & Toxicology, University of Michigan, Ann Arbor, MI
- 2/29/96 "Gene Specific DNA Damage, Shuttle Vector Mutagenesis and Mutation Characterization in Human Cells", Epoch Pharmaceuticals, Inc., Bothell, WA
- 10/10/96 "Dose Rate Alters Genotoxicity", Division of Otolaryngology/Head and Neck Surgery, Stanford University Medical Center, Stanford, CA
- 11/21/96 "XPA, DNA Repair and Chemotherapy", Karmanos Cancer Institute, Wayne State University, Detroit, MI
- 12/13/96 "Nucleotide Excision Repair, XPA and Chemotherapy", Department of Otolaryngology - Head and Neck Surgery, Boston University Medical Center, Boston, MA
- 1/3/97 "XPA, DNA Repair, and Chemotherapy", Department of Pharmacology & Toxicology and Toxicology, University of North Dakota School of Medicine and Health Sciences, Grand Forks, ND
- 1/9/97 "DNA Repair and Cancer Chemotherapy", Division of Environmental and Occupational Health, School of Public Health, University of Minnesota, Minneapolis, MN
- 9/5/97 "Nucleotide Excision Repair and Cancer Chemotherapy", Department of Pharmacology & Toxicology and Toxicology, University of Arkansas for Medical Sciences, Little Rock, AR
- 9/18/97 "DNA Repair, Chemoresistance and the Stress Response", Institute of Chemical Toxicology, Wayne State University, Detroit, MI
- 10/7/97 "DNA Damage by Bioactivated Xenobiotics", Department of Food & Nutrition Science, Wayne State University, Detroit, MI
- 1/20/98 "Metabolic Activation of Carcinogens: Dose Rate Effects in Mutagenesis and

- Cytotoxicity", Department of Otolaryngology, Wayne State University, Detroit, MI
- 2/23/98 "Dose Rate Dependence of DNA Damage in the p53 Gene by Benzo[a]pyrene Metabolites", Department of Pharmacology & Toxicology and Toxicology, Virginia Commonwealth University, Richmond, VA
- 5/28/98 "Dose Rate Effects on Gene Specific DNA Damage and Mutagenesis", Department of Pathology, Albany Medical College, Albany, NY
- 6/3/98 "Mutagenesis by benzo[a]pyrene Metabolites Involves Non-random DNA Damage", Department of Pathology, University of Pennsylvania School of Dental Medicine, Philadelphia, PA
- 10/30/98 "Dose Rate Dependence of Gene Specific DNA Damage by Benzo[a]pyrene Metabolites", Department of Chemistry, Wayne State University, Detroit, MI
- 12/17/98 "DNA Damage by Bioactivated Chemicals", Kresge Eye Institute, Wayne State University, Detroit, MI
- 3/25/99 "XPA and DNA Damage Recognition", Department of Pharmacology & Toxicology and Toxicology, University of Louisville School of Medicine, Louisville, KY
- 5/9/00 "Genetics of XPA", Center for Genetics and Molecular Medicine, University of Louisville School of Medicine, Louisville, KY
- 11/13/01 "Cisplatin regulation of XPA expression in ovarian cancer cells", NIH DNA Repair Interest Group Videoconference, University of Kentucky, Lexington, KY
- 4/19/02 "DNA Repair Induction In Acquired Resistance To Cisplatin", James G. Brown Cancer Center, University of Louisville, Louisville, KY
- 7/18/02 "Disruption of Mitosis in Human Fibroblasts by Arsenite: A Role for p53?", NIEHS Environmental Health Sciences Center, University of Rochester, Rochester, NY
- 8/15/02 "Disruption of Mitosis in Human Fibroblasts by Arsenite: A Role for p53?", Department of Pharmacology & Toxicology and Toxicology, University of Louisville, Louisville, KY
- 9/16/02 "Arsenite induced mitotic arrest", Department of Molecular and Biomedical Pharmacology & Toxicology, University of Kentucky, Lexington, KY
- 11/22/02 "DNA repair gene regulation in cisplatin-resistant ovarian carcinoma cells ", Department of Microbiology, Southern Illinois University, Carbondale, IL
- 7/15/03 "Arsenic: Carcinogen or Chemotherapeutic", MD/Ph.D. Program, University of Louisville, Louisville, KY
- 3/19/04 "Arsenic Induced Mitotic Disruption: Mechanism and Consequences", National Institute of Aging, Baltimore, MD
- 3/29/04 "Arsenic Induced Mitotic Disruption: Mechanism and Consequences", Department of Medicine, Division of Cardiology, University of Louisville, Louisville, KY
- 4/11/05 "Arsenic Induced Atherosclerosis", Department of Medicine, Division of Cardiology, University of Louisville, Louisville, KY
- 9/19/05 "Arsenic, mitotic death and p53", The Graduate Center for Toxicology, University of Kentucky, Lexington, KY
- 11/8/05 "Arsenic: Friend or Foe?", Biomarkers, Genetics & Chemoprevention Group, James Graham Brown Cancer Center, University of Louisville, Louisville, KY
- 12/7/05 "Arsenic: Potent Poison / Potential Panacea?", Department of Biology, Georgetown College, Georgetown, KY
- 3/16/06 "Arsenic and Cardiovascular Disease", Department of Environmental Medicine, University of Rochester, Rochester, NY

- 9/19/07 “In utero Arsenic Exposure-Induced Alterations in Liver Gene Expression Associated with Accelerated Atherogenesis”, Institute of Biology, National Centre for Scientific Research “Demokritos”, Athens, Greece
- 12/6/07 “Arsenic in Drinking Water -How Bad Can It Be?”, Department of Biology, Indiana University Southeast, New Albany, IN
- 10/9/08 “Molecular Determinants of Arsenic Induced Mitotic Arrest Associated Apoptosis”, Department of Applied Medical Sciences, University of Southern Maine, Portland, ME
- 1/15/09 “Molecular Phenotype of Arsenic Sensitivity”, Molecular Targets Program, Brown Cancer Center, University of Louisville, Louisville, KY
- 1/21/10 “Arsenic Induced Mitotic Disruption”, Department of Pharmacology & Toxicology & Toxicology, University of Louisville, Louisville, KY,
- 3/30/10 “Arsenic Exposure Induced Hepatic Stress and Inflammation Pathways Associated with Accelerated Atherosclerosis”, Department of Molecular Genetics, Biochemistry & Microbiology, University of Cincinnati, Cincinnati, OH
- 9/20/11 “Hepatic gene expression changes associated with in utero arsenic exposure accelerated atherosclerosis in the ApoE-Knockout mouse”, Department of Molecular and Cellular Craniofacial Biology, University of Louisville, Louisville, KY
- 3/11/14 “Biomedical Research at the UofL School of Medicine”, Elizabethtown Community and Technical College, Elizabethtown, KY; Follow up interview by WQKS radio
- 11/21/14 “Disruption of Mitotic Progression by Arsenic”, Nelson Institute of Environmental Medicine, New York University, Tuxedo, NY
- 2/26/15 “Arsenic, Mitotic Arrest, miRNAs & APC/C”, Brown Cancer Center, University of Louisville, Louisville, KY,
- 8/20/15 “Disruption of Mitotic Progression by Arsenic”, Price Institute, University of Louisville, Louisville, KY
- 10/13/15 “Arsenic, Mitotic Arrest, miRNAs & APC/C”, Brown Cancer Center, University of Louisville, Louisville, KY
- 1/27/16 “Arsenic, Mitotic Arrest, miRNAs & APC/C”, Center for Urban Responses to Environmental Stressors, Wayne State University, Detroit, MI
- 2/18/16 “Arsenic, Mitotic Arrest, miRNAs & APC/C”, Department of Environmental and Occupational Health Science, University of Louisville, Louisville, KY
- 4/11/17 “Role of Mitotic Disruption in Arsenic Carcinogenesis”, Jilin University, Jilin, People’s Republic of China
- 4/11/17 “Ph.D. Partnership Program in Pharmacology & Toxicology at the University of Louisville”, Jilin University, Jilin, People’s Republic of China, April 11, 2017
- 4/14/17 “Role of Mitotic Disruption in Arsenic Carcinogenesis”, Wenzhou Medical University, Wenzhou, People’s Republic of China, April 14, 2017
- 4/14/17 “Ph.D. Partnership Program in Pharmacology & Toxicology at the University of Louisville”, Jilin University, Jilin, People’s Republic of China, April 11, 2017
- 6/1/17 “miRNAs and Aneuploidy in Arsenic-induced Skin Carcinogenesis”, Department of Pharmacology and Toxicology, University of Louisville, Louisville, KY
- 10/12/17 “miRNAs and Aneuploidy in Arsenic-induced Skin Carcinogenesis”, Department of Epidemiology & Population Health, University of Louisville, Louisville, KY
- 3/17/18 “RNA splicing, miRNAs and Aneuploidy in Arsenic-induced Skin Carcinogenesis”, School of Health Science, Purdue University, West Lafayette, IN

- 11/7/19 “MicroRNA Dysregulation and Chromosome Instability in Arsenic Carcinogenesis”, Dept Pharmacology & Toxicology, University of Louisville, Louisville, KY
- 3/5/20 “MicroRNA Dysregulation and Chromosome Instability in Arsenic Carcinogenesis”, Department of Molecular Biology and Genetics, Democritus University of Thrace, Greece
- 3/5/20 “M.S./Ph.D. Program in Pharmacology & Toxicology at the University of Louisville”, Department of Molecular Biology and Genetics, Democritus University of Thrace, Greece
- 8/27/20 “Center for Integrative Environmental Health Sciences, A National Institute of Environmental Health Sciences P30 Core Center: P30ES030283”, Monthly UofL Research Town Hall, University of Louisville
- 11/17/20 “Center for Integrative Environmental Health Sciences: An NIEHS P30 Core Center”, HSC Research Forum, University of Louisville
- 3/10/21 “miRNA Dysregulation and Aneuploidy in Arsenic-induced Skin Carcinogenesis” University of Arkansas for Medical Sciences, Little Rock, AR,
- 3/17/21 “miRNA Dysregulation and Aneuploidy in Arsenic-induced Skin Carcinogenesis”, University of Kentucky, Lexington, KY,
- 9/3/21 “MicroRNA Dysregulation and Chromosome Instability in Arsenic Carcinogenesis”, Biology Department, University of Louisville
- 10/26/21 “miRNA186 Impact on Differential Gene Expression, mRNA Splicing and Gene Fusions”, Center for Integrative Environmental Health Science Research Voucher Symposium, Research!Louisville, University of Louisville
- 10/7/22 “Dysregulation of RNA Metabolism in Arsenic Exposed Cells”, Oregon State University, Corvallis, OR
- 11/7/22 “M.S./Ph.D. Program in Pharmacology & Toxicology at the University of Louisville”, Department of Zoology, University of Rajasthan, Jaipur, India
- 11/9/22 “Dysregulation of RNA Metabolism in Arsenic Exposed Cells”, Department of Zoology, University of Rajasthan, Jaipur, India
- 11/10/22 “Heavy Metals: Toxicity and Treatment”, IIS (designated University), Jaipur, India
- 1/16/25 “Arsenic, miRNA and Cancer”, Department of Pharmacology and Toxicology, University of Louisville
- 4/17/25 “Arsenic, miRNA and Cancer”, Price Institute of Surgical Research, University of Louisville

RESEARCH FUNDING: (* = currently active)

Grants and Contracts Awarded As Principal Investigator / Program Director:

Federal Grants Awarded:

- Genetics of Human DNA Repair, National Cancer Institute, R29 CA47735, 7/88-8/94, \$332,776 (direct costs)
- Minority High School Student Research Apprenticeship Program, National Center for Research Resources, S03 RR03332, 3/90-9/96, \$143,500 (total costs)
- Apprenticeships in Toxicology & Molecular Medicine, National Center for Research Resources, R25 RR12242, 4/97-3/00, \$157,503, (transferred to M. Dereski 9/99)
- DNA Damage by Bioactivated Xenobiotics, National Institute of Environmental Health Sciences, R01 ES06460, 3/97-6/02, \$862,845 (total costs)

Arsenic Induced Mitotic Arrest Associated Apoptosis, National Institute of Environmental Health Sciences, R01 ES011314, 8/03 – 4/10, \$1,385,850 (total costs); R01ES011314-05S1, \$5,414 (total costs); R01ES011314-05S2, \$9,765 (total costs)

Effects of chemopreventive agents on DNA damage, National Cancer Institute, R03 CA119295, 9/05 – 8/08, \$147,000 (total costs); Role: Principal Investigator

Transplacental Arsenic Induced Hepatic Dysfunction and Vascular Disease, NIH/NIEHS, R21 ES015812-01A1, 4/08 – 3/11, \$407,000 (total costs); R21ES015812-02S2, 4/09 – 3/11, \$9,831 (total costs)

12th Annual Midwest DNA Repair Symposium, NIH/NIEHS, R13 ES019025, 4/10 – 3/11, \$8,000 (total costs)

Differential miRNA expression & progression of arsenic induced skin cancers, NIH/NIEHS, R21ES023627, 7/15 – 6/18, \$422,000 (total costs)

*Mechanism for Arsenic Induced Carcinogenesis, NIH/NIEHS, R01ES027778, 8/1/2017-1/22/2024, \$2,056,394 (total costs); 1/23/24-11/2028, \$3,314,460 (total costs)

Alternative splicing in arsenical skin carcinogenesis, NIH/NIEHS, R21ES030334, 7/14/2020 – 6/30/23, \$429,000 (total costs)

*University of Louisville Center for Integrative Environmental Health Sciences, NIH/NIEHS, P30ES030283, 7/15/2020 – 3/31/2026, \$6,473,751 (total costs)

*University of Louisville Center for Integrative Environmental Health Sciences (supplement), NIH/NIEHS, P30ES030283-03S1, 6/1/2022-5/31/2024, \$344,771 (total costs)

23rd Midwest DNA Repair Symposium, NIH/NCI, R13 CA290978, 5/124 – 4/30/25, \$15,000 (total costs)

*Mechanism for Arsenic Induced Carcinogenesis (supplement), NIH/NIEHS, 3R01ES027778-07S1, 12/1/2024-11/30/2026, \$284,850 (total costs)

Training Grants:

*Summer Environmental Health Sciences Training Program, National Institute of Environmental Health Sciences, T35ES014559, \$79,024; 05/01/19 – 02/28/27 (Corresponding-PI)

Federal Grants Pending:

Mechanisms of Carcinogenesis by Non-DNA-binding Metal(oid) Carcinogens, NIH/NIEHS, 1R35ES037828-01, 11/01/2025-10/31/2033, \$9,420,000 total costs, pending review

Fusion genes driving arsenic carcinogenesis, NIH/NIEHS, 1R01ES036579-01A1, 07/01/2025 - 06/30/2030, \$3,901,848 total costs, pending review

National Foundation Grants Awarded:

Mechanisms of Chemoresistance in Ovarian Cancer, Elsa U. Pardee Foundation, 6/01-5/03, \$102,734 (direct costs).

Industrial Contracts Awarded:

Carcinogenicity Testing with Genetically Engineered Human Cells, Viratest Ltd., 2/97-4/98, \$24,840 (total costs)

Regional Foundation Grants Awarded:

High School Student Summer Internship, Minority Technology Council of Michigan, 5/89-9/89, \$1,180 (total costs)
Gene Transfer in Xeroderma Pigmentosum Cells, American Cancer Society Pilot Research Grant, 7/86-6/87, \$6,900 (total costs)
Molecular Mechanism of Arsenic Enhancement of Benzo[a]pyrene Genotoxicity in Human Cells, Kentucky Science and Engineering Foundation, 9/04 – 8/05, \$15,000 (total costs)
Targeting the Anaphase Promoting Complex as Lung Cancer Chemotherapy, Kentucky Lung Cancer Research Program, 5/15 – 4/18, \$150,000 (total costs)
Novel Cancer Chemotherapeutics Targeting Mitosis, Kentucky Science and Engineering Foundation, KSEF-3249-RDE-018, 7/15 – 6/17, \$30,000 (total costs)

Intramural Grants Awarded:

Genetic Complementation of Xeroderma Pigmentosum Cells, Biomedical Research Support Grant, 4/87-3/88, \$6,000 (direct costs)
Induction of Mutations by Benzo(a)pyrene Metabolites, Wayne State University Research Grant Program, 4/94-3/95, \$6,000 (direct costs)
Benzo(a)pyrene induced gene-specific DNA damage, NIEHS Center Grant P30 ES06639: Pilot Project, 7/94-3/96, \$10,000 (direct costs)
Mechanisms of Arsenic Carcinogenesis, NIEHS Center Grant P30 ES06639: Pilot Project, 4/98 - 3/99, \$30,000 (direct costs)
N-acetyl transferase gene polymorphisms and breast carcinogenesis. WSU Interdisciplinary Fund and Match, 6/98-5/99, \$22,000 (direct costs)
Genetic Polymorphisms in the Xeroderma Pigmentosum Group A Gene, Karmanos Cancer Institute Virtual Discovery Grant Program, 5/99-4/00, \$20,000 (awarded but not enacted)
Genetic Polymorphisms in the Xeroderma Pigmentosum Group A Gene, University of Louisville Center for Genetics and Molecular Medicine IDeA Program, 10/99 - 6/00, \$17,000
DNA Repair Gene Induction by Cisplatin in Ovarian Carcinoma Cells, ULSoM Dean's Office Medical Student Summer Research Program, 06/00 - 08/00, \$2,800
Characterization of a Potential Cisplatin Sensitivity Factor, ULSoM Dean's Office Medical Student Summer Research Program, 06/01 - 08/01, \$2,800
Candidate genes for the molecular target(s) of arsenite induced mitotic arrest and associated apoptosis, J. G. Brown Cancer Center, 01/02 - 06/02, \$4,500
Gene Therapy to Sensitize Ovarian Cancer Cells to Cisplatin, ULSoM Dean's Office Medical Student Summer Research Program, 06/02 - 08/02, \$2,800
Murine Model for Arsenic Induced Atherogenesis, UL Center for Genetics and Molecular Medicine Pilot Project, 12/01/03 – 11/30/04, \$30,000
Novel Cancer Chemotherapeutics Targeting Mitosis, UofL SoMRC Basic Grant Program, 1/11 – 4/15, \$15,000
Differential miRNA expression & progression of arsenic induced skin cancers, UofL EVPRI Competitive Enhancement Grant, 9/13 – 6/15, \$15,000
Differential RNA expression in arsenic-induced skin cancers, UofL Center for Genetics and Molecular Medicine Pilot Gant, 4/1/15 – 3/31/15, \$7,500
miRNA186 Impact on Differential Gene Expression, mRNA Splicing and Gene Fusions, CIEHS voucher, 10/1/20 – 3/31/21, \$10,000
Gene Fusions and In/del Mutations in Arsenic-induced Skin Cancer, CIEHS voucher, 01/11/22-

3/31/22, \$10,000
Disruption of Human MRN Complex Signaling by Heavy Metal Exposure, CIEHS voucher,
08/24/22-03/31/23, \$10,000
Exome sequencing on samples from cells transformed by miR186 overexpression and chronic
arsenic exposure, CIEHS voucher, 1/1/23 – 3/31/23, \$10,000
Mechanisms of Arsenic Carcinogenesis, Jewish Heritage Foundation for Excellence Competitive
Enhancement Grant, 12/1/22 = 11/30/23, \$75,000

Grants and Contracts Awarded As Co-investigator or Mentor:

Federal Grants Awarded:

Research Grants:

Nitrogen Heterocycles: Metabolic Effects and Toxicity, National Institutes of Environmental
Health Sciences, R01 ES03656, 4/90-3/95, \$1,100,113, Principal Investigator: Raymond
F. Novak (Role: Co-investigator)
Biopterin/Catecholamine Metabolism in Alzheimer's & Aging, National Institute of Aging, R01
AG10687, 9/91-5/95, \$300,553, Principal Investigator: Robert A. Levine (Role: Co-
investigator)
Biopterin & Catecholamines in Aging & Neurodegeneration, National Institutes of Neurological
Diseases and Stroke, R01 NS28800, 8/92-5/96, \$489,051, Principal Investigator: Robert
A. Levine (Role: Co-investigator)
Center for Molecular and Cellular Toxicology with Human Applications, National Institute of
Environmental Health Sciences, P30ES06639, 4/94-3/99, ~\$2,900,000, Principal
Investigator: Raymond F. Novak (Role: Research Core Leader, 8/97 - 3/99)
Center for Molecular and Cellular Toxicology with Human Applications, NIEHS, P30ES06639,
4/99-3/04, \$6,549,967,; Principal Investigator: Raymond F. Novak (Role: Gene
Regulation and Genetics Research Core Leader and Molecular Genetics Core Facility
Associate Leader, 4/99 - 8/99)
Cellular & Molecular Toxicity of Lead, National Institute of Environmental Health Sciences,
R01ES04040, 9/95-8/99, \$882,754, Principal Investigator: Joel G. Pounds (Role: Co-
investigator)
Mutagenicity and Genotoxicity Assays with Endogenous PGH Synthase-2. National Institute of
Environmental Health Sciences/SBIR, N43-ES-95438, \$99,838, 8/99 – 1/2000; Principal
Investigator: Hye Sook Kim (Role: Consultant)
Pharmacogenetics of drug and carcinogen metabolism. National Cancer Institute, R01CA34627,
\$1,859,936, 09/01/97 - 06/30/03, Co-investigator (7/01-6/03); Principal Investigator:
David W. Hein (Role: Co-investigator)
Pharmacogenetics of drug and carcinogen metabolism. National Cancer Institute, R01CA34627
(competitive renewal), \$1,250,000 (direct costs), 04/01/03 - 03/31/08, Principal
Investigator: David W. Hein (Role: Co-investigator)
Metabolism and detoxification of base propenals, National Institute of Environmental Health
Sciences, R01ES011594, \$1,559,485, 06/01/03 - 03/31/08, Principal Investigator: Sanjay
Srivastava (Role: Co-investigator)
Characterization of NAT1 overexpression in breast tumors, National Cancer Institute,
R01CA34627 – Supplement, \$113,750, 07/01/04 - 06/30/06; Principal Investigator:
David W. Hein (Role: Co-investigator)

Center for Environmental Genomics and Integrative Biology, National Institute of Environmental Health Sciences, P30ES014443-02, \$4,410,000, 06/04/07 - 03/31/11, Principal Investigator: Kenneth S. Ramos (Role: Deputy Director)

Priming of liver disease by arsenic exposure, National Institute of Environmental Health Sciences, R21ES016367, \$440,000, 05/01/09 – 04/30/11, Principal Investigator: Gavin E. Arteel (Role: Co-investigator)

Atherogenic Mechanisms of Arsenic, National Institute of Environmental Health Sciences, R01ES017260; \$1,665,000; 06/15/09 – 03/31/14, Principal Investigator: Sanjay Srivastava (Role: Co-investigator)

Center For Urban Responses to Environmental Stressors (CURES), National Institute of Environmental Health Sciences, 5P30ES020957; \$2,454,236; 06/05/14 - 03/31/22, Principal Investigator: Runge-Morris (Role: External Advisory Board Member)

Hepatobiology and Toxicology COBRE, NIH / NIGMS, P20GM113226, \$1,500,000/year (direct costs), 06/10/2016 – 03/31/2026, Principal Investigator: Craig J. McClain (Role: Mentor)

Elucidating the molecular signaling of Cadmium Carcinogenesis, NIH / NIEHS, R01ES033657 (subcontract), \$218,118 (total costs), 06/02/2022 – 03/31/2027, Principal Investigator: Murali Ankem (Role: Co-investigator)

*Center For Urban Responses to Environmental Stressors, National Institute of Environmental Health Sciences, 5P30ES036084; \$5,173,337; 06/20/24 - 04/30/28, Principal Investigator: Runge-Morris (Role: External Advisory Board Member)

Training Grants:

Cancer Education Grant Program, National Cancer Institute, R25CA44789, \$557,437, 8/01/02 – 7/31/07, Principal Investigator: Norbert Burzynski (Role: Mentor)

Arsenite inhibition of mitotic progression, National Institute of Environmental Health Sciences, F30 ES013372, \$97,650, 07/01/04 – 06/14/08; Principal Investigator: B. Frazier Taylor (Role: Mentor)

*UofL Environmental Health Sciences Training Program, National Institute of Environmental Health Sciences, T32ES011564, \$2,316,985 (latest renewal); 07/01/21 – 06/30/26; Principal Investigator: David W. Hein (Role: Mentor)

Summer Environmental Health Sciences Training Program, National Institute of Environmental Health Sciences, T35ES014559, \$38,431; 04/01/18 – 04/30/19; Principal Investigator: Russell A. Prough (Role: Multi-PI).

Curcumin inhibits BPDE-induced damage by lowering the threshold of p53 activation, National Institute of Environmental Health Sciences, F31ES016719, \$78,157, 05/01/2008 – 03/31/2011.

University Of Louisville Cancer Education Program, National Cancer Institute, R25CA134283, \$3,089,675; 09/14/2011 – 03/31/2024; Principal Investigator: David W. Hein (Role: Mentor)

Regional Foundation Grants Awarded:

The Role of Rev1 in Carcinogen-Induced Lung Cancer, Kentucky Lung Cancer Research Program, 12/10 – 11/13, \$150,000 (total costs) (Dr. States became PI in 3/12)

Intramural Grants Awarded:

- Gene Therapy for Parkinson's Disease, WSU Interdisciplinary Research Fund, \$10,000, 3/95-2/96, Principal Investigator: Donald M. Kuhn (role: Co-investigator)
- Impact of DNA Repair Genes (HOGG1, XPD, and XRCC1) on Prostate Cancer Risk among Men of African Descent, Bales Research Fund, University of Louisville, \$15,000, 3/15/05-3/14/06, Principal Investigator: LaCreiss R. Kidd (role: Co-investigator)
- Xenograft model of ovarian carcinoma in nude mice with assessment of non-invasive imaging and tolerability of intraperitoneal cisplatin, sodium arsenite and mild hyperthermia, Bales Research Fund, University of Louisville, \$15,000, 3/1/06-2/28/08, Principal Investigator: C. William Helm (role: Co-investigator)
- Priming of Liver Disease by Arsenic Exposure, UofL Vice President for Research Competitive Enhancement Grant, \$15,000, 9/1/07 – 8/31/08, Principal Investigator: Gavin E. Arteel
- Genomic and epigenetic mechanisms for environmentally Cd-induced carcinogenesis, Center for Environmental Genomics and Integrative Biology Pilot Grant, \$30,000, 09/01/07 – 08/31/08, Principal Investigator: Lu Cai (role: Co-investigator)
- miRNA Biomarkers for Ovarian Cancer, CEGIB pilot project, \$60,000, 1/1/09 – 12/31/09, Principal Investigator: C. William Helm (role: Co-investigator)