

## **Banrida Wahlang, Ph.D.**

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### **EDUCATION**

06/2008 Bachelors (Pharmacy), University of Delhi, New Delhi, India  
06/2010 M.S. (Pharmaceutics), National Institute of Pharmaceutical Education and Research (NIPER), S.A.S. Nagar, India  
05/2012 M.S. (Pharmacology & Toxicology), University of Louisville, Louisville, KY, USA  
12/2014 Ph.D. (Pharmacology & Toxicology), University of Louisville, Louisville, KY, USA

### **ACADEMIC APPOINTMENTS**

03/2015 - 05/2017 Postdoctoral Scholar  
UK Superfund Research Center  
University of Kentucky, Lexington, KY  
07/2017 - 02/2021 Postdoctoral Associate and NRSA Fellow  
T32 Program, UofL Alcohol Research Center, and UofL Superfund Research Center  
University of Louisville, Louisville, KY  
03/2021 - Present Assistant Professor  
Department of Medicine  
Department of Pharmacology and Toxicology  
University of Louisville, Louisville, KY

### **PROFESSIONAL MEMBERSHIPS AND ACTIVITIES**

2006-2008 Member, Indian Pharmaceutical Graduate Association (IPGA)  
2009-2010 American Association of Pharmaceutical Scientists (AAPS) NIPER Student Chapter  
2012-Present Kentucky Academy of Science (KAS)  
2013-Present Society of Toxicology (SOT)  
2013-2015 Occupational and Public Health SOT Specialty Section  
2013-Present Ohio Valley SOT (OVSOT) Regional Chapter  
2013-2015 Molecular and Systems Biology SOT Specialty Section  
2013-2019 American Society for Pharmacology & Experimental Therapeutics (ASPET)  
2014-2016 Risk Assessment SOT Specialty Section  
2015-Present Women in Toxicology SOT Special Interest Group  
2021-Present Clinical and Translational Toxicology SOT Specialty Section  
2022-Present American Association for the Study of Liver Disease (AASLD)

## HONORS AND AWARDS

2008	All India 119 <sup>th</sup> Rank, General Aptitude Test in Engineering, IIS Bangalore, India
2010-2012	Integrated Programs in Biomedical Sciences Fellowship
2011	Finalist, Research! Louisville Graduate Poster Session
2012 & 2014	Sponsored Research Tuition Award, School of Interdisciplinary and Graduate Studies, University of Louisville (\$5800)
2013	Travel Award, School of Medicine Research Committee, University of Louisville (\$150)
2013	1 <sup>ST</sup> Place, Best PhD Platform Presentation, OVSOT Annual Meeting (\$750)
2013 & 2014	Travel Award, Graduate School Council, University of Louisville (\$325)
2014	KC Huang Outstanding Graduate Student Award 2013
2014	2 <sup>ND</sup> Place, PhD Platform Presentation, OVSOT Annual Meeting (\$300)
2014	Graduate Dean's Citation
2015	1 <sup>ST</sup> Place, Best Postdoctoral Platform Presentation, OVSOT Annual Meeting (\$500)
2016	Plenary Speaker, Student Plenary Session, 36 <sup>TH</sup> Dioxin Symposium, Florence, Italy
2017	Editor's Highlight Paper, Toxicological Sciences
2018	Poster of Distinction, Digestive Disease Week (DDW), Washington DC, USA
2018	Basic Science Travel Award, DDW, Washington DC, USA (\$1000)
2019-2021	National Research Service Award NIEHS T32 Postdoctoral Fellowship
2019	1 <sup>ST</sup> Place, Research! Louisville Postdoctoral Poster Session (\$300)
2019	Poster of Distinction, American Association for the Study of Liver Diseases (AASLD) Liver Meeting, Boston, MA, USA
2020, 2021	Tox Spotlight Paper, Toxicological Sciences
2021	CIEHS ITEMFC Research Voucher Award (\$1500)
2021	1 <sup>ST</sup> Place, Research! Louisville Faculty in Basic Science Poster Session (\$400)
2022	CIEHS ITEMFC RTG Research Voucher Award (\$4200)
2022	NIEHS Superfund Research Program June Trainee Spotlight
2022	Keynote Speaker, Central States SOT Regional Chapter Annual Meeting, Kansas University Medical Center, Kansas City, KS, USA

## COMMITTEE ASSIGNMENTS AND ADMINISTRATIVE SERVICES

### University activities

2009	Secretary, Pharmaceuticals Club, NIPER
2011	Public Relations Officer, American International Relations Club (AIRC), University of Louisville
2012	Treasurer, AIRC, University of Louisville
2018-2019	Trainee Leader, UofL Superfund Research Center, and T32 Fellowship Program
2021	Member, Center for Integrated Environmental Health Research (CIEHS), University of Louisville and Multi Organ Toxicology Research Interest Group
2021	Member, Graduate Faculty of the School of Medicine, University of Louisville
2022-2023	Career Development Program Representative, CIEHS Internal Advisory Committee
2022-Present	Sub-group Leader for Multi Organ Toxicology Research Interest Sub-Group (Multi-organ Crosstalk)
2022-Present	Training Core Coordinator, UofL Superfund Research Center, and T32 Fellowship Program
2023-Present	Member, Graduate Research Training Faculty of the School of Medicine, University of Louisville

### **Non-University activities**

2014 Student Representative, Ohio Valley SOT Student Chapter  
2014 Organizer, OVSOT Annual Summer Student Meeting, Louisville, KY, USA  
2014 Member, Graduate Student Leadership Committee, SOT  
2014 Member, Communications Subcommittee, GSLC, SOT  
2016 Member, Postdoctoral Assembly SOT  
2016 Postdoc Representative, Ohio Valley SOT  
2016 Postdoc Representative, Committee on Diversity Initiatives, SOT  
2019 Planning Committee, Superfund Research Program (SRP) Annual Meeting Trainee Session, Seattle, WA, USA

### **NIH Study Section**

2023 - Meeting Title: Research Mechanism for Emerging Contaminant/Exposure Studies in the Environmental Health Sciences. 2023/08 ZES1 LWJ-D (TS) 1

### **EDUCATIONAL ACTIVITIES**

#### **Teaching activities**

#### **Undergraduate courses**

2016, 2018 Guest lecture, Environmental Communications (COM-460), Department of Communication, College of Arts and Sciences, University of Louisville  
2022 Guest lecture, Windows on the World (HON 202), Honors Program, College of Arts and Sciences, University of Louisville

#### **Graduate courses**

2020-Present Course instructor, Molecular Toxicology (BIOC-661/PHTX-661), Departments: Biochemistry & Molecular Genetics and Pharmacology and Toxicology, School of Medicine, University of Louisville  
Lecture title: 1. Sex Differences in Liver Toxicology. 2. Endocrine/Metabolism Disruptors and the Metabolic Syndrome  
2020 Course instructor, Toxicology I (PHTX 643), Department of Pharmacology and Toxicology, School of Medicine, University of Louisville  
Lecture title: Toxicology of Persistent Organic Pollutants  
2022-Present Course instructor, Toxicology II (PHTX 644), Department of Pharmacology and Toxicology, School of Medicine, University of Louisville  
Lecture title: Xenobiotic Metabolism

#### **Medical and Dental Courses**

2022-Present Course instructor, Pharmacology and Dental Therapeutics (BMSC-807-05-4228/BMSC-807-02-4232), School of Dentistry, University of Louisville  
Lecture title: Local Anesthetics

#### **Mentorship activities: Students trained**

#### **Undergraduate students**

2021 Zayna Qaissi, UofL Cancer Education Program, Mentor

	UofL Honors Program, Senior Honors Thesis, College of Arts and Sciences, Thesis Supervisor. Qaissi won the SOT Undergraduate Travel Award and UofL Honors Best Thesis Award.
2022	Bana Luulay, UofL Cancer Education Program, Mentor. Luulay won 3 <sup>rd</sup> place at the NCI Cancer Education Program Poster Presentation. Shikshita Singh, Summer Research Internship, Mentor Wenping Mindy Yin, Summer Research Internship, Mentor
2023	Marissa Johns, Summer Research Internship, Mentor Shikshita Singh, Summer Research Internship, Mentor

### Medical students

2019	Nico D. Asche, UofL T35 Summer Research Scholar Program, Mentor
2023	Zayna Qaissi, UofL School of Medicine, Summer Research Scholar Program, Mentor

### Graduate students

2021-Present	Tyler C. Gripshover, Department of Pharmacology and Toxicology, Dissertation Committee Member
2022-2023	Ngozi V. Adiele, Department of Pharmacology and Toxicology, Co-mentor, and Thesis Committee Member
2023-Present	Oluwanifemi Esther Bolatimi, Department of Pharmacology and Toxicology, Mentor, and Dissertation Committee Member

### Other educational, community engagement and outreach activities

2014-Present	Judge, Research! Louisville, KAS Science Fair, Louisville Regional Science & Engineering Fair, Manual High School Science Fair, Louisville & Lexington, KY
2014	Proctor, Patient SIMS on Autonomics, School of Medicine, University of Louisville, Louisville, KY
2016	Participant, Appalachian Health and Well-Being Forum, University of Kentucky Superfund Research Center, Whitesburg, KY
2018	Panelist, Community Knowledge Exchange: VOC Facts, University of Louisville Superfund Research Center, Louisville, KY
2018	Organized and participated in the UofL SRC/T32 Training Core Communications Workshop, Louisville KY
2019	Organized and participated in the UofL-UK Combined Trainee and Community Outreach Event, Lexington and Whitesburg, KY
2021-Present	Faculty Mentor, NCI Cancer Education Program, University of Louisville, Louisville, KY

### GRANTS AND CONTRACTS

#### Grant awards

##### Current

Evaluating mechanisms of sex differences in environmentally-induced metabolic diseases (Wahlang, Banrida, PI). Mentors: Drs. H. Patisaul, C. Klinge, I. Kiprich and A. Bhatnagar. Total Cost \$377,865 (Direct \$349,875 Indirect \$27,990). NIEHS. 1K01ES033289. Role: PI. 06/03/2022-05/31/2025

Pilot Project: Sex-dependent effects of organochlorine pesticides on metabolic diseases: Role of the gut-liver axis (Wahlang, Banrida, PI). Total Cost \$50,000. NIEHS. P30ES030283. Role: PI. 05/01/2022-03/31/2024

## Pending

Evaluating mechanisms of sex differences in environmentally-induced metabolic diseases (Wahlang, Banrida, PI). Administrative Supplement. Total Cost \$75,600 (Direct \$70,000 Indirect \$5,600). NIEHS. 3 K01 ES033289-01A1. Role: PI. 07/01/2023-06/31/2024

Acute and sub-chronic exposures to dioxin and dioxin-like compounds in liver disease: the role of sex and age (Wahlang, Banrida, PI). Total Cost \$782,500.00 (Direct \$500,000.00 Indirect \$282,500.00). DOD, Toxic Exposure Research Program, Investigator-Initiated Research Award, GRANT13762293. 09/01/2023-08/31/2026

## Previous

M6A epitranscriptomics in toxicant associated steatohepatitis (Klinge, Carolyn, PI). Total Cost \$522,600 (Direct \$335,000, Indirect \$187,600). NIEHS. 1R21ES031510. Role: Co-investigator. 07/20/2020-06/30/2022

## EDITORIAL WORK

2017-Present          Member, Editorial board of the Journal of Nutritional Biochemistry

**Reviewer:** Journal of Nutritional Biochemistry, Environment International, Molecular and Cellular Endocrinology, Chemosphere, Human and Experimental Toxicology, PlosOne, Journal of Molecular Endocrinology, Toxicology Reports, Frontiers in Public Health, Environmental Health Perspectives

## ABSTRACTS AND PRESENTATIONS

### ORAL PRESENTATIONS

1. **Wahlang B**, Falkner KC, Clair HB, Al-Eryani LA, States JC, Prough RA, Cave MC. Hepatic receptor activation by polychlorinated biphenyls - implications for xenobiotic/energy metabolism and nonalcoholic fatty liver disease. OVSOT Summer Student Meeting, Mason, OH, 2013
2. **Wahlang B**, Falkner KC, Clair HB, Al-Eryani LA, States JC, Prough RA, Cave MC. Aroclor 1260 exposure worsens hepatic and systemic inflammation in an animal model of diet-induced obesity and non-alcoholic fatty liver disease. OVSOT Annual Meeting, Louisville, KY, 2013
3. **Wahlang B**, Falkner KC, Song M, Clair HB, Prough RA, Cave MC. Evaluating the role of nuclear receptors in the development of environmental liver disease. OVSOT Annual Meeting, Dayton, OH, 2014
4. **Wahlang B**, Perkins JT, Petriello MC, Hoffman JB, Hennig B. Evaluating the role of the heart-liver axis in polychlorinated biphenyl-induced toxicity. OVSOT Annual Meeting, Highland Heights, KY, 2015
5. **Wahlang B**, Perkins JT, Petriello MC, Hoffman JB, Hennig B. Polychlorinated biphenyls affect the hepatic-peripheral vascular axis suggesting a novel mechanism for persistent organic pollutants. 36<sup>TH</sup> Dioxin Symposium, Plenary Session, Florence, Italy, 2016
6. **Wahlang B**, Rodriguez WE, Wang Y, Zhang J, Barve S, McClain CJ, and Gobejishvili L. Mechanisms of PDE4 Inhibition on alcohol-induced hepatocyte injury in an alcoholic liver injury model. DDW, Washington DC, 2018
7. **Wahlang B**. Sex and gender differences in environmental health. EHS Seminar Series. Department of Pharmacology & Toxicology, University of Louisville, Louisville, KY, 2018

8. **Wahlang B**, Pinkston CM, Rai SN, Pavuk M, Cave MC, Birnbaum LS. Total dioxin toxic equivalency and sex are associated with biomarkers of hepatic lipid metabolism, inflammation, fibrosis, and function in a subset of ACHS-II participants. AASLD, Boston, MA, 2019
9. **Wahlang B**. Mechanisms of environmental contributions to fatty liver disease. EHS Seminar Series. CIEHS and Department of Pharmacology & Toxicology, University of Louisville, Louisville, KY, 2022
10. **Wahlang B**. Alterations in gut microbiome caused by long-term exposure to PCBs. CIEHS Voucher Awardee Presentations. Research! Louisville, Louisville, KY, 2022
11. **Wahlang B**. Sex, gender, and race in environmental liver disease. Bridging the knowledge gaps. Central States SOT Regional Chapter, Kansas City, KS, 2022
12. Luo J, Watson WH, Gripshover TC, Qaissi Z, Singh S, **Wahlang B**. Evaluating the sex-dependent effects of chlordane exposure in the context of fatty liver disease and hepatic energy metabolism. AASLD, The Liver Meeting, Washington DC, 2022
13. **Wahlang B**. Sex, Gender & Race in Environmental Toxicology - Implications on Liver and Metabolic Health. Department of Biological Sciences, Clemson University, Clemson, SC, 2023
14. **Wahlang B**. Sex and Gender in Environmental Toxicology: the Present and the Future. Department of Pharmacology & Toxicology, University of Louisville, Louisville, KY, 2023

#### POSTER PRESENTATIONS/ABSTRACTS/CONFERENCE PAPERS

1. **Wahlang B**, Pawar YB, Bansal AK. HPLC method for determination of curcumin for its application in Caco-2 permeability assays. Indian Pharmaceutical Congress, Ahmedabad, India, 2009
2. **Wahlang B**, Pawar YB, Bansal AK. Determination of curcumin's permeability using the Caco-2 cell model Drug Metabolism and Pharmacokinetics (DMPK) Symposium, SAS Nagar, Mohali, India, 2010
3. **Wahlang B**, Falkner KC, Conklin DJ, McClain CJ, Cave MC. Polychlorinated Biphenyl 153 worsens non-alcoholic fatty liver disease in C57BL/6 mice. OVSOT Annual Meeting, Dayton, OH, 2011; Research! Louisville, Louisville, KY, 2011
4. Shah H, Wheeler B, Mannery Y, Falkner KC, **Wahlang B**, McClain CJ, Cave MC. A comparison of serum adipocytokines, cytokeratin 18, and antioxidants in human subjects with steatohepatitis due to alcohol (ASH), obesity (NASH), and industrial chemicals (TASH). Research! Louisville, Louisville, KY, 2011
5. **Wahlang B**, Zhang X, Falkner KC, McClain CJ, Cave MC. Polychlorinated Biphenyl 153 worsens hepatic steatosis in mice fed a high fat diet and differentially regulates 40 liver metabolites: preliminary results of a metabolomics analysis. Hepatology 2011, AASLD, San Francisco, CA, 2011
6. **Wahlang B**, Shi X, Zhang X, Falkner KC, McClain CJ, Prough RA, Cave MC. The metabolic effects of PCB 153 depend on nutrient interactions in obesity/nonalcoholic fatty liver disease. DDW, San Diego, CA, 2012
7. **Wahlang B**, Falkner KC, Bellis-Jones HJ, Clair HB, Prough RA, Cave MC. Liver X Receptor and Pregnane Xenobiotic Receptor crosstalk on Direct Repeat 4 (DR4) response elements is sequence dependent. Research! Louisville, Louisville, KY, 2012
8. Bellis-Jones HJ, **Wahlang B**, Falkner KC, Prough RA, Cave MC. Aroclor 1260 does not appear to be a direct agonist or antagonist of the Liver X-Receptor  $\alpha$ . Research! Louisville, Louisville, KY, 2012
9. Clair HB, **Wahlang B**, Falkner KC, Prough RA, Cave MC. Aroclor 1260 is a direct agonist of the human Pregnane and Xenobiotic Receptor. Research! Louisville, Louisville, KY, 2012
10. Falkner KC, **Wahlang B**, Bellis-Jones HJ, Clair HB, Prough RA, Cave MC. LXR and PXR crosstalk on DR4 response elements is sequence dependent. International Society for the Study of Xenobiotics (ISSX), Dallas, TX, 2012
11. **Wahlang B**, Shi X, Zhang X, Falkner KC, McClain CJ, Prough RA, Cave MC. PCB 153 alters hepatic lipid metabolism and the hepatic metabolome in C57BL/6 mice fed a high fat diet: Nutrient-toxin interactions in NAFLD. Hepatology 2012, AASLD, Boston, MA, 2012

12. **Wahlang B**, Al-Eryani LA, Falkner KC, Bellis-Jones HJ, Clair HB, Prough RA, Cave MC. Human transcription factor activation by polychlorinated biphenyls and organochlorine pesticides. SOT, San Antonio, TX, 2013
13. **Wahlang B**, Falkner KC, Clair HB, Al-Eryani AL, States JC, Prough RA, Cave MC. Aroclor 1260 exposure worsens hepatic and systemic inflammation in an animal model of diet-induced obesity and non-alcoholic fatty liver disease. B. Wahlang, K.C. Falkner, H.B. Clair, L. Al-Eryani, J. Christopher States, R.A. Prough, and M. Cave. Hepatology 2013, AASLD, Washington DC, 2013
14. **Wahlang B**, Falkner KC, Clair HB, Al-Eryani AL, States JC, Prough RA, Cave MC. Hepatic receptor activation by polychlorinated biphenyls - implications for xenobiotic/energy metabolism and nonalcoholic fatty liver disease. Hepatology 2013, AASLD, Washington DC, 2013
15. Al-Eryani LA, **Wahlang B**, Clair HB, Guardiola JJ, Falkner KC, Prough RA, Cave MC. Database Mining for Pregnane Xenobiotic Receptor (PXR) Ligands Using Toxcast Database and PXR Activation by Organochlorine Pesticides. Hepatology 2013, AASLD, Washington DC, 2013
16. Al-Eryani LA, **Wahlang B**, Falkner KC, Clair HB, Prough RA, States JC, Cave MC. Identification of Environmental Chemicals which could contribute to Nonalcoholic Fatty Liver Disease by Nuclear Receptor Activation. Hepatology 2013, AASLD, Washington DC, 2013
17. **Wahlang B**, Song M, Beier J, Al-Eryani LA, Clair HB, Guardiola JJ, Falkner KC, Prough RA, States JC, Cave MC. Aroclor 1260 Exposure Causes Steatohepatitis and Activates Hepatic Receptors in an Animal Model of Diet-Induced Obesity. SOT, Phoenix, AZ, 2014
18. Clark BJ, Khundmiri SJ, Lederer ED, Cave MC, **Wahlang B**. FXR Activation Is Suppressed By STARD5 in Hkc-8 Human Renal Proximal Tubule Cells. Endocrine Reviews, 2014, The Endocrine Society, Chicago, IL, 2014
19. **Wahlang B**, Falkner KC, Song M, Clair HB, Prough RA, Cave MC. The Role of Nuclear Receptors in Aroclor 1260-induced Steatohepatitis. Great Lakes Drug Metabolism and Disposition Meeting, Indianapolis, IN, 2014
20. Prough RA, **Wahlang B**, Falkner KC, Clair HB, Al-Eryani LA, States JC, Omiecinski CJ, Cave MC. PCB Regulation of Hepatic Nuclear Receptors: Implications for Hepatic Steatosis. Presentation S6, 5th Asia Pacific International Society for the Study of Xenobiotics, Tianjin, China, 2014
21. Clair HB, Falkner KC, **Wahlang B**, Prough RA, Cave MC. Elevated Biomarker-indicated Liver Disease and Pro-inflammatory Cytokines are Associated with Environmental PCB Exposure in Anniston, Alabama. Hepatology 2014, AASLD, Boston, MA, 2014
22. **Wahlang B**, Falkner KC, Song M, Clair HB, Prough RA, Cave MC. The protective role of CAR and PXR in Aroclor 1260-induced Steatohepatitis. Hepatology 2014, AASLD, Boston, MA, 2014
23. Orr AT, Prough RA, Falkner KC, **Wahlang B**, Cave MC. Do PCBs activate Constitutive Androstane Receptor through a non-ligand binding mechanism? Research! Louisville, Louisville, KY, 2014
24. **Wahlang B**, Falkner KC, Song M, Clair HB, Prough RA, Cave MC. Evaluating the role of nuclear receptors in environmental liver disease. NIEHS Tamburro Symposium on Environmental Chemicals and Liver Disease, Louisville, KY, 2014
25. Prough RA, **Wahlang B**, Falkner KC, Song M, Cave MC. Hepatic nuclear receptor-environmental pollution interactions regulate energy metabolism, inflammation, and lifestyle behaviors in non-alcoholic fatty liver disease. 13th European International Society for the Study of Xenobiotics Meeting, Glasgow, Scotland, 2015
26. Bhandari R, **Wahlang B**, Gupta P, Hoffman J, Petriello M, Hennig B, Dziubla T, Zach Hilt J. The protective role of polyphenol-functionalized nanoparticle systems in environmental toxicant exposure. SRP Annual Meeting, San Juan, Puerto Rico, 2015
27. **Wahlang B**, Petriello MC, Perkins JT, Hoffman JB, Stromberg AJ, Hennig, B. Polychlorinated biphenyl exposure alters the expression profile of microRNAs associated with vascular diseases. 18th Annual Gill Heart Institute Cardiovascular Research Day, Lexington, KY, 2015; SRP Annual Meeting, San Juan, Puerto Rico, 2015; miRNA Biomarkers for Toxicology: Contemporary Concepts in Toxicology Meeting, New Orleans, LA, 2016

28. **Wahlang B**, Perkins JT, Petriello MC, Hoffman JB, Hennig B. Evaluating the role of the heart-liver axis in polychlorinated biphenyl-induced toxicity. SOT, New Orleans, LA, 2016
29. **Wahlang B**, Perkins JT, Petriello MC, Hoffman JB, Hennig B. The effects of polychlorinated biphenyls (PCBs) on glucose metabolism *in vivo*: implications on diabetes and insulin resistance. Barnstable Brown Obesity and Diabetes Research Day, Lexington, KY, 2016
30. **Wahlang B**, Soman S, Cave MC, Falkner KC, Morris AJ, Hennig B. Evaluating hepatic congener levels of Aroclor 1260 in a Car and Pxr knockout mouse model. SOT, Baltimore, MD, 2017
31. Gobejishvili L, **Wahlang B**, Rodriguez WE, Wang Y, Zhang J, Barve S, McClain CJ. Pathogenic role of PDE4 enzymes in alcoholic liver disease: from bench to bedside. DDW, Washington DC, 2018
32. **Wahlang B**, Rodriguez WE, Wang Y, Zhang J, Barve S, McClain CJ, and Gobejishvili L. Mechanisms of PDE4 Inhibition on alcohol-induced hepatocyte injury in an alcoholic liver injury model. Research Society on Alcoholism, San Francisco, CA, 2018
33. **Wahlang B**, Falkner KC, Klinge CM, Bhatnagar A, Beier JI, Cave MC. Sex differences in environmental liver disease vary by pollutant type: volatile organic compounds vs. persistent organic pollutants. SRP Annual Meeting, Sacramento, CA, 2018
34. **Wahlang B**, Pinkston CM, Rai SN, Pavuk M, Cave MC, Birnbaum LS. Sex differences in persistent organic pollutant levels and liver disease biomarkers in the Anniston Community Health Survey participants. SOT, Baltimore, MD, 2019
35. **Wahlang B**, Hardesty JE, Head KZ, Jin J, Falkner KC, Prough RA, Klinge CM, Bhatnagar A, Beier JI, Cave MC. Hepatic injury caused by the environmental toxicant vinyl chloride is sex-dependent. Research! Louisville, Louisville, KY, 2019; Hepatology 2019, AASLD, Boston, MA, 2019
36. **Wahlang B**, Alexander NC, Li X, Gripshover TC, Smith SE, Cave MC. The persistent organic pollutant, Aroclor 1260, altered colonic microbiome in CAR and PXR knockout mice exhibiting toxicant-associated steatohepatitis. AASLD, The Liver Meeting Digital Experience, 2020
37. **Wahlang B**, Head KZ, Gripshover TC, Prough RA, Cave MC. Dose-dependent effects on non-alcoholic fatty liver disease caused by exposure to the pesticide metabolite, trans-nonachlor. AASLD, The Liver Meeting Digital Experience, 2020
38. **Wahlang B**, Hardesty JE, Rai SN, Cave MC. Polychlorinated biphenyls caused sex-dependent alterations on the hepatic proteome that differentially modulate key processes in toxicant-associated liver disease. SOT Virtual Meeting 2021
39. **Wahlang B**, Qaissi Z, Hardesty JE, Pan J, Rai SN, Cave MC. Polychlorinated biphenyls caused sex-dependent alterations on the hepatic proteome and impact key processes in toxicant-associated steatohepatitis. AASLD, The Liver Meeting Digital Experience, 2021
40. **Wahlang B**, Andreeva K, Rouchka EC, Beier JI, Cave MC, Srivastava S. Sex-dependent effects of vinyl chloride exposure in toxicant-associated steatohepatitis. AASLD, The Liver Meeting Digital Experience, 2021 and Research! Louisville, Louisville, KY, 2021
41. Qaissi Z, Hardesty JE, Rai SN, Cave MC, **Wahlang B**. Evaluation of sex-dependent effects caused by polychlorinated biphenyl exposures on cancer endpoints using an 'Omics approach. Research! Louisville, Louisville, KY, 2021 and SOT, San Diego, CA, 2022
42. **Wahlang B**, Singhal R, Andreeva K, Rouchka EC, Beier JI, Cave MC, and Srivastava S. Sex-dependent effects of vinyl chloride on the hepatic transcriptome: implications on toxicant-associated steatohepatitis. SOT, San Diego, CA, 2022
43. Luo J, Gripshover TC, Watson WH, Qaissi Z, Young JL, Head KZ, Cave MC, and **Wahlang B**. Evaluating the sex-dependent effects of chlordane exposure in the context of fatty liver disease, energy metabolism and endocrine disruption. SOT, San Diego, CA, 2022
44. Luulay B, Singhal R, Rouchka EC, Beier JI, Cave MC, Srivastava S, and **Wahlang B**. Sex-dependent effects of vinyl chloride, a chemical carcinogen, on the hepatic transcriptome. R25 Cancer Education Program Research Symposium and Research! Louisville, Louisville, KY, 2022 and SOT, Nashville, TN, March 2023



45. Qaissi Z, Singhal R, Adiele NV, Bolatimi OE, Rouchka EC, Cave MC, and **Wahlang B**. Evaluating sex-dependent changes in the gut microbiome caused by polychlorinated biphenyl (PCB) exposures. AASLD, The Liver Meeting, Washington DC, 2022
46. **Wahlang B**, Gao H, Rai SN, McClain CJ, Srivastava S, Cave MC and Bhatnagar A. Sex differences and race influence associations between volatile organic compound exposures and liver injury markers: Implications on cholestatic liver injury in women. AASLD, The Liver Meeting, Washington DC, 2022
47. Adiele NV, Head KZ, Gripshover TC, Luo J, Bolatimi OE, Klinge C, Petri BJ, Piell KM, Cave MC, and **Wahlang B**. Effects of long-term exposure to polychlorinated biphenyls on ileal gene expression. AASLD, The Liver Meeting, Washington DC, 2022
48. **Wahlang B**, Qaissi Z, Singhal RA, Rouchka EC, Cave MC, Pan J, Merchant ML, Rai SN. Sex differences in the hepatic proteome and gut microbiome following polychlorinated biphenyl exposure: implications on gut-liver axis disruption in females. SOT, Nashville, TN, March 2023
49. Luo J, Hua Y, Watson WH, Gripshover TC, Qaissi Z, **Wahlang B**. Sex differences in environmentally-induced metabolic and liver dysfunction. Gordon Research Conference on Sex Differences in Immunity. Ventura, CA, April 2023.
50. Paliewicz NS, Hart JL, Della L, Seay D, Futrell A, Smith-Jones SE, **Wahlang B**. An environmental justice approach to scientific research: Bridging gaps and building trust between community members and researchers through engagement about environmental contaminants in Louisville, KY. 17<sup>TH</sup> biennial Conference on Communication and Environment (COCE), Harrisonburg, VA, June 2023 (Accepted)

## PUBLICATIONS

### PEER-REVIEWED/ORIGINAL RESEARCH MANUSCRIPTS

1. **Wahlang B**, Pawar YB, Bansal AK. Identification of permeability-related hurdles in oral delivery of curcumin using the Caco-2 cell model. (2011). *Eur J Pharm Biopharm.* 77(2):275-82. PMID: 21147222
2. **Wahlang B**, Kabra D, Pawar YB, Tikoo K, Bansal AK. (2012). Contribution of formulation and excipients towards enhanced permeation of curcumin. *Arzneimittelforschung.* 62(2):88-93. PMID: 22344553
3. Shi X, **Wahlang B**, Wei X, Yin X, Falkner KC, Prough RA, Kim SH, Mueller EG, McClain CJ, Cave M, Zhang X. (2012). Metabolomic analysis of the effects of polychlorinated biphenyls in non-alcoholic fatty liver disease. *J Proteome Res.* 11(7):3805-15. PMID: 22686559
4. Khomane KS, Nandekar PP, **Wahlang B**, Bagul P, Shaikh N, Pawar YB, Meena CL, Sangamwar AT, Jain R, Tikoo K, Bansal AK. (2012). Mechanistic insights into PEPT1-mediated transport of a novel antiepileptic, NP-647. *Mol Pharm.* 9(9):2458-68. PMID: 22779445
5. Kumar L, Meena CL, Pawar YB, **Wahlang B**, Tikoo K, Jain R, Bansal AK. (2013). Effect of counterions on physicochemical properties of prazosin salts. *AAPS PharmSciTech.* 14(1):141-50. PMID: 23250707
6. **Wahlang B**, Falkner KC, Gregory B, Ansert D, Young D, Conklin DJ, Bhatnagar A, McClain CJ, Cave M. (2013). Polychlorinated biphenyl 153 is a diet-dependent obesogen that worsens nonalcoholic fatty liver disease in male C57BL6/J mice. *J Nutr Biochem.* 24(9):1587-95. PMID: 23618531
7. **Wahlang B**, Falkner KC, Clair HB, Al-Eryani L, Prough RA, States JC, Coslo DM, Omiecinski CJ, Cave MC. (2014). Human receptor activation by Aroclor 1260, a polychlorinated biphenyl mixture. *Toxicol Sci.* 2014, 140(2):283-97. PMID: 24812009
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