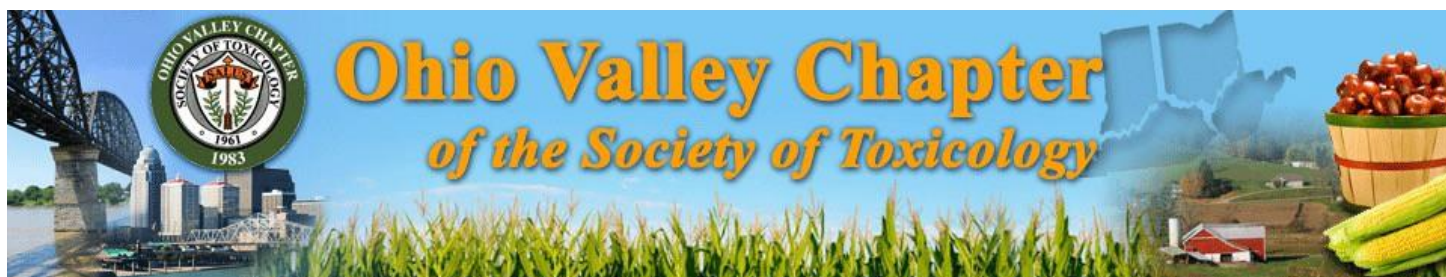


PROGRAM

Annual Meeting Ohio Valley Society of Toxicology 2023



Friday, October 27, 2023

Purdue University
Purdue Memorial Union, Anniversary Ballroom
128 Memorial Mall, West Lafayette, IN 47907



We are grateful to the following sponsors
for their generous support!



College of Health and Human Sciences



School of Health Sciences



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Office of Undergraduate Research



TABLE OF CONTENTS

Agenda	4
---------------------	---

Visitor Information

Meeting Site.....	5
-------------------	---

Parking	5
---------------	---

Hotels	6
--------------	---

Presenters	7
-------------------------	---

Young Investigator Platform Presentation (FS #1).....	8
---	---

Doctoral Student Platform Presentations.....	9
--	---

Postdoctoral Trainee Platform Presentations.....	10
--	----

Keynote Presentation (FS #2).....	11
-----------------------------------	----

Big Picture Science.....	12–13
--------------------------	-------

Keynote Presentation (FS #3).....	14
-----------------------------------	----

Acknowledgement of Sponsors	2,15
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OVSOT Annual Meeting Agenda

Friday, October 27, 2023

8:00 AM–8:45 AM	Registration, Check-in, and Poster Set-up Purdue Memorial Union, Anniversary Ballroom
8:45 AM–8:55 AM	Welcoming Remarks – Faculty Lounges East/West Marion Underwood, Dean College of Health and Human Sciences, Purdue University
8:55 AM–9:00 AM	Meeting Logistics & Acknowledgement of Sponsors Jonathan Shannahan, President of OVSOT
9:00 AM–9:30 AM	Featured Speaker #1 Early-Stage Investigator Platform Presentation Awardee (Moderator: Kymberly Gowdy, OVSOT Councilor)
9:30 AM–10:30 AM	Doctoral Platform Presentations and Judging (Moderator: Yi Tan, OVSOT Vice President)
10:30 AM–12:15 PM	Poster Presentations and Judging Anniversary Ballroom
12:15 PM–1:30 PM	Lunch & “Lunch with an Expert”
1:30 PM–2:30 PM	Postdoctoral Trainee Platform Presentations and Judging (Moderator: Sandra Wise, OVSOT Vice President-Elect)
2:30 PM–3:00 PM	Featured Speaker #2 Michael Petriello, PhD Wayne State University (Moderator: Karen Elsass, OVSOT Secretary)
3:00 PM–3:15 PM	Break
3:15 PM–4:00 PM	Big Picture Science (Moderator: Eddie Slotter, OVSOT Education & Outreach Liaison)
4:00 PM–4:30 PM	Featured Speaker #3 Michelle Block, PhD, Indiana School of Medicine (Moderator: Sherleen Adamson, OVSOT Treasurer)
4:30 PM–4:45 PM	Announcement of Awards and Closing (Award Presenter: Andrew Keebaugh, OVSOT Councilor)



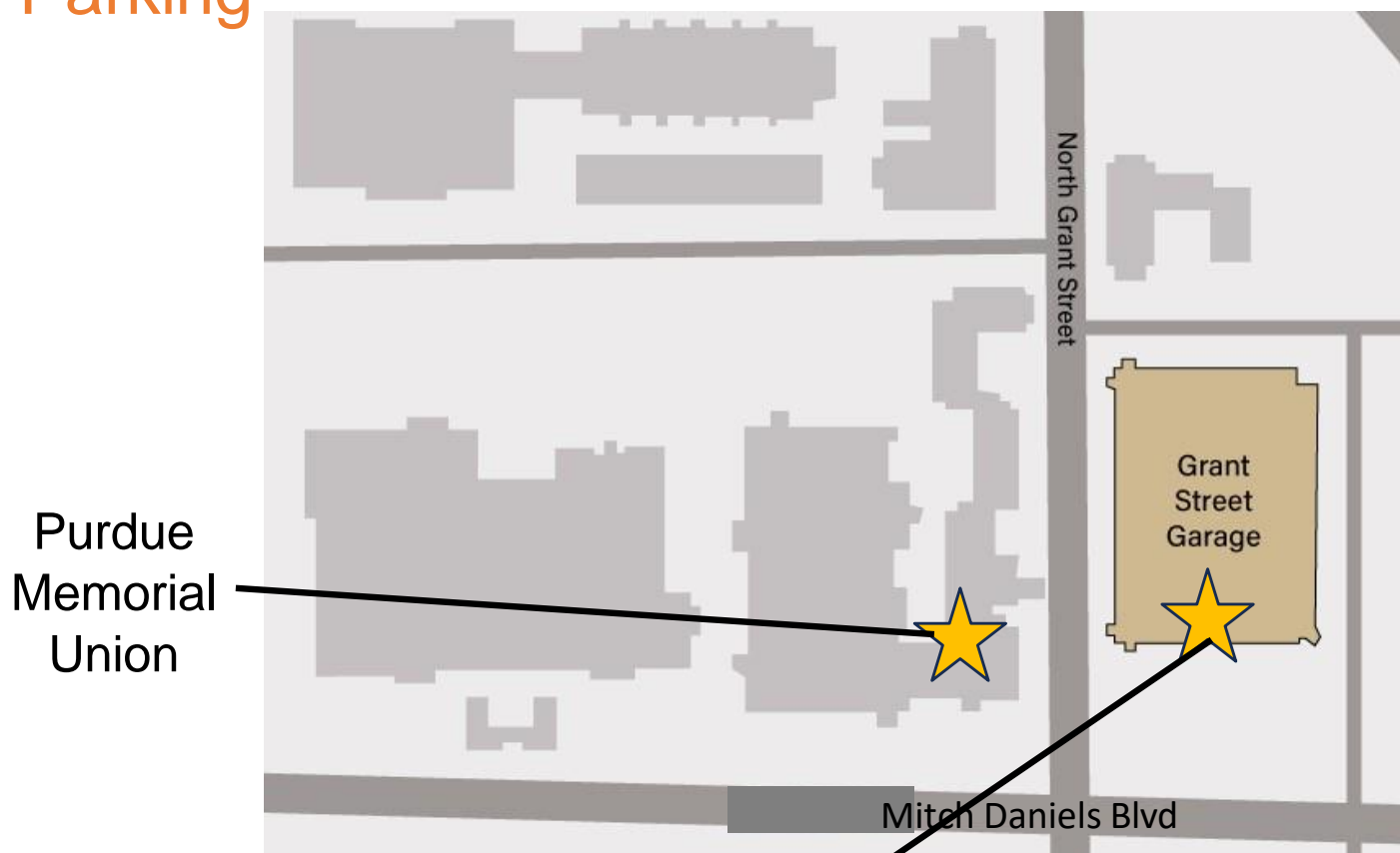
VISITOR INFORMATION



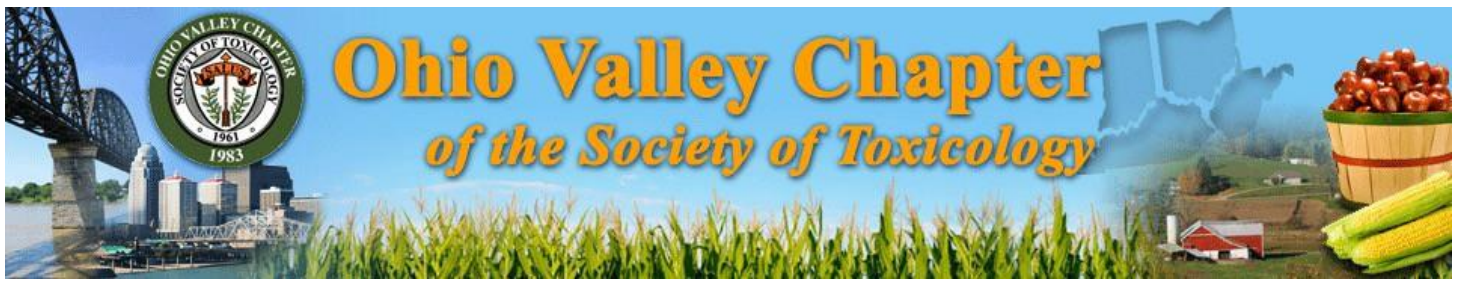
Purdue University

East and West Faculty Lounge
Purdue Memorial Union
101 South Grant St.
West Lafayette, IN 47906

Parking



Grant Street Garage, 149 Andrew Place, West Lafayette, IN 47906



Pre-Meeting Mixer

If you are in town prior to the meeting, please join us for an informal pre-meeting mixer.

Location: Lafayette Brewing Company

Address: 622 Main St., Lafayette, IN 47901

When: Thursday, October 26, 2023 at 7:00pm

Area Hotels

Purdue Union Hotel

201 South Grant St., West Lafayette, IN 47906

765.494.8922

Hilton Garden Inn West Lafayette Wabash Landing

356 E State St., West Lafayette, IN 47906

765.743.2100

Hampton Inn & Suites West Lafayette

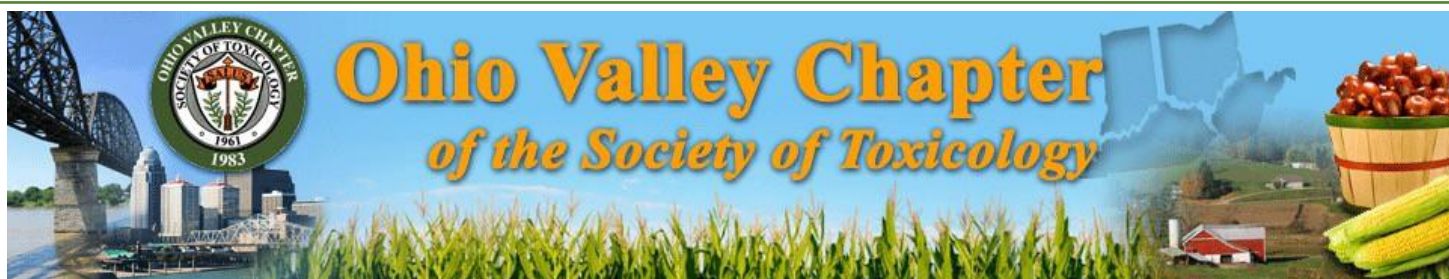
160 Tapawingo Dr., West Lafayette, IN 47906

765.269.8000

Holiday Inn Lafayette – City Centre

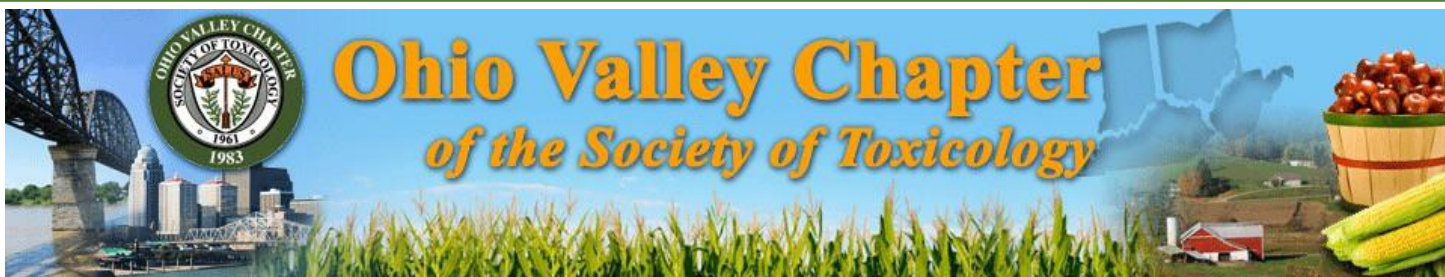
515 South St., Lafayette, IN 47901

765.423.1000



PRESENTERS

Please see the 2023 OVSOT Meeting Abstract Book for abstracts of all posters and the presentations outlined on the following pages.



Early-Stage Investigator Platform Presentation

Featured Speaker #1

Matthew W. Gorr, PhD, MS, BS

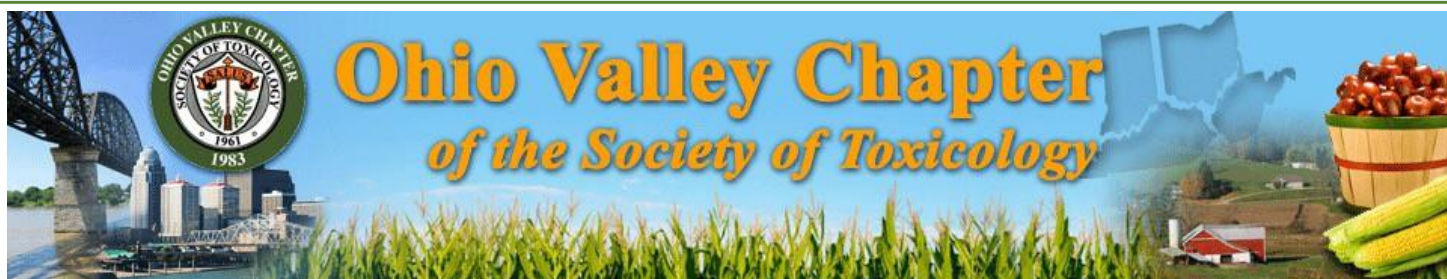
Assistant Professor

College of Medicine,
Department of Surgery,
Division of Cardiac Surgery,
The Ohio State University,
473 W 12th Ave., Columbus, OH 43210



Abstract #1

“E-cigarette vapor causes impaired pulmonary and cardiac function in offspring”



Doctoral Student Platform Presentations

Abstract #2

Josephine M Brown-Leung,

Purdue University

“The neurobehavioral effects of chronic perfluorooctanesulfonic acid (PFOS) in mice”

Abstract #3

Oluwanifemi Esther Bolatimi,

University of Louisville

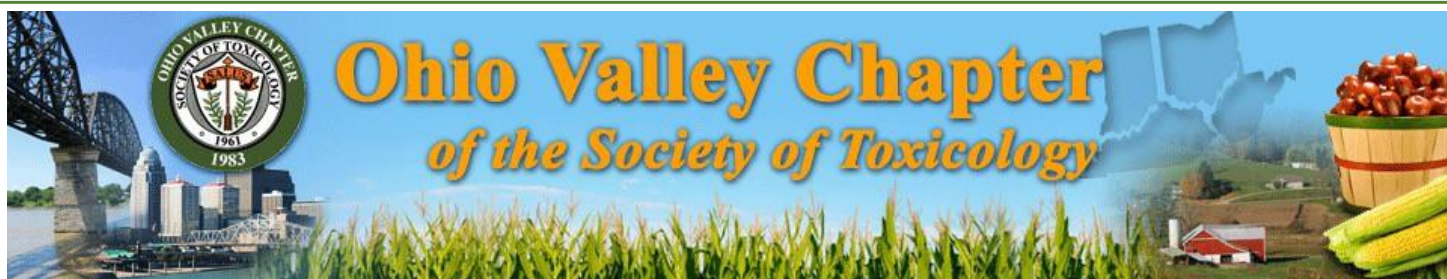
“Investigating the sex-specific effects of environmental toxicant mixtures on steatotic liver disease”

Abstract #4

Evangeline Schott,

Ohio State University

“Ozone-induced lung injury increases susceptibility to lower respiratory infections by generating a favorable pulmonary microenvironment”



Postdoctoral Trainees Platform Presentations

Abstract #5

Alexandra Nail,

University of Louisville

“Chronic cadmium exposure disrupts metal homeostasis and DNA double-strand break signaling”

Abstract #6

Xiaodan Hui,

University of Louisville

“The role of cardiomyocyte-specific CXCR7 in doxorubicin-induced cardiotoxicity in aging mice”

Abstract #7

Samuel J. Cochran,

Ohio State University

“Myeloid heme oxygenase-1 (HO-1) involvement in ozone (O₃)-induced pulmonary inflammation, antioxidant responses, and alterations to heme metabolism”



Keynote Presentation

Featured Speaker #2

Michael Petriello, PhD

Assistant Professor

School of Medicine,
Department of Pharmacology,
Wayne State University,
6135 Woodward Avenue
IBio Room 2128, Detroit, MI 48202



Biography

The goals of Dr. Petriello's research are directly relatable to understanding mechanisms that link nutrition and toxicology and may lead to translatable prevention strategies that may limit pollutant-induced metabolic disorders such as diabetes, obesity, and cardiovascular disease especially in at-risk populations. He also has strong experience and interest in using large data sets to uncover novel associations of environmental risk and cardiovascular disease as well as working with underserved communities that face multiple chemical and non-chemical stressors.

Overall, Dr. Petriello aims to investigate biomarkers that link environmental exposures, diet, and metabolic diseases in human populations and to test mechanisms of toxicity using mouse models of cardiometabolic disease.



Big Picture Science Presentations

Abstract #29

Wagner Antonio Tamagno

Purdue University

“Classification of the toxicity in early-life exposure to lead in zebrafish sorl1 mutants”

Abstract #24

Jamie Malley

Indiana University

“Trem2 regulates ozone-induced immune cell trafficking and neuroinflammation in the lung-brain axis”

Abstract #22

Hannah Lovins

Ohio State University

“ChemR23 axis regulates ozone-induced lung inflammation”

Abstract #23

Humberto Monsivais

Purdue University

“Personalized detection of excess Mn accumulation in the brain of welders”



Big Picture Science Presentations

Abstract #26

Michael Yaeger

Ohio State University

“Docosahexaenoic acid supplemented diet reduces pulmonary inflammation and enhances resolution responses in an environmental exposure model”

Abstract #52

Jack Morehouse

Purdue University

“Chronic exposure to aqueous film-forming foams leads to evolutionary responses in *Daphnia magna*”

Abstract #19

Yevgeniy Gladkiy

Wright State University

“Sorafenib modulates lung cancer growth and induces microvesicle particle release in a platelet-activating factor-receptor and acid sphingomyelinase-dependent manner”

Abstract #27

Muhammad T. Mustafa

University of Louisville

“Investigating PCB 126 impact on intestinal permeability in mice consuming an ethanol diet”



Keynote Presentation

Featured Speaker #3

Michelle L. Block, PhD

Paul Stark Professor of Pharmacology

School of Medicine,

Indiana University,

NB 214D

320 West 15th Street

Indianapolis, IN 46202



Biography

Dr. Block graduated from Iowa State University with a BS in 1994, received her PhD in Genetics from Penn State University in 2002, and completed her postdoctoral work at NIEHS/NIH in 2007. Dr. Block is the recipient of the NIEHS/NIH Outstanding New Environmental Scientist award and is currently an Associate Professor in the Department of Anatomy and Cell Biology at the Indiana University School of Medicine. Her research team focuses on identifying environmental and endogenous disease triggers that initiate deleterious activation of the brain's innate immune cells (microglia), revealing the redox mechanisms through which microglia cause neuron damage, and applying these findings towards halting chronic neuropathology in neurodegenerative diseases and neurological conditions, including Parkinson's disease, Alzheimer's disease, and Gulf War Illness.



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