

The 31st Annual Meeting of the Ohio Physiological Society



November 19, 2016
Ohio State University Wexner Medical Center
Biomedical Research Tower

Welcome

Hello and welcome to the Ohio State University. We are excited to be hosting the 31st annual meeting of the Ohio Physiological Society (OPS). This year we expect more than 130 attendees at our conference, with over 70 posters presented by trainees at levels of experience ranging from high school students to postdoctoral fellows. Poster presentations will be complemented by platform presentations from trainees and early career faculty. These attendees come to Columbus from 18 different Ohio colleges and universities in all four corners of the State. With such a broad representation we expect to have a robust meeting that will address several aspects of physiology.

The Ohio Physiological Society (OPS) was founded in 1986 and became the first American Physiological Society (APS) chapter in 1995. The OPS is a professional association of Ohio physiologists. We are particularly grateful to have the founder of the OPS, Dr. Peter Lauf, join us in Columbus this year. The OPS was established with the purpose of enhancing and advancing the field of physiology as a coordinated discipline consisting of the many subdisciplines working at the molecular, cellular, and organ system levels of organization in both basic and applied areas.

Joining us as the APS Key Note Speaker this year is Dr. Joseph T. Brozinick who is a Senior Research Advisor at Eli Lilly Co. and the Chair of the APS Endocrine Division. Dr. Brozinick is a leader in the efforts to identify new disease targets influencing how metabolism in skeletal muscle is regulated by insulin and muscle contraction, as well as the ways in which these processes are altered in insulin resistant states such as metabolic syndrome or Type II Diabetes. At Eli Lilly Co., he leads efforts aimed at discovering disease progression biomarkers and biomarkers for existing portfolio efforts in collaboration with translational therapeutics and also leads several external collaborations with both academia and industry.

There were several other people who supported this conference in many ways. This event could not have occurred without the support of the Ohio State University Department of Physiology and Cell Biology and Dr. Peter Mohler, our department chair. Support for much of the conference was provided by the Margaret T. Nishikawara Fund that commemorates her commitment to graduate education in various areas of physiology research. The APS also helped to support our meeting to provide funds for the APS keynote lecture, an APS travel award and a chapter grant to encourage attendance of trainees at the annual meeting. We are also grateful to the several members of the OSU staff, including Penny Jones, Jenifer Bennett, Eric Beck and Ryan Berlin, who provided excellent assistance with various aspects of conference planning. The graduate students in our Physiology and Cell Biology department also provided help with setting up the facilities for today's events. Many thanks to all who contributed to the success of our meeting.

Thank you all for coming to Columbus for our meeting. We hope that you will enjoy yourself and we look forward to seeing you at next year's annual meeting.

Best Regards,
Noah Weisleder, Ph.D.
President, Ohio Physiological Society

Agenda

- 9:00am Poster Set-Up **Biomedical Research Tower (BRT) Lobby**
- 10:00am Opening Remarks **BRT 115**
- 10:05 – 10:45am Trainee Short Talks Session #1 **BRT 115**
- 10:05am – 10:15am Talk #1 - **Jennifer Petrosino**
ADH1 ablation mediates pericardial adipose tissue accumulation
- 10:15am – 10:25am Talk #2 - **Rachel Lane**
Melatonin and tannic acid supplementation in vitro improve fertilization and embryonic development in pigs
- 10:25am – 10:35am Talk #3 - **Holly C. Cappelli**
TRPV4 channels modulate tumor angiogenesis via Rho/Rho kinase pathway
- 10:35am – 10:45am Talk #4 - **Eric J. Reed**
Fast Voltage-Gated Sodium Channel Activity in Huntington's Disease
- 10:45 – 10:55am Coffee Break **BRT Lobby**
- 10:55 – 11:45am Trainee Short Talks Session #2 **BRT 115**
- 10:55am – 11:05am Talk #5 - **Subhra S. Nag**
Elevated Level of Hypoxia Inducible Factor 1 α by Cobalt Chloride Can Alter Renal Epithelial Function
- 11:05am – 11:15am Talk #6 - **Breana Cervantes**
The Effect of Hypoxia on Tocopherol Transfer Protein (TTP) Promoter Methylation
- 11:15am – 11:25am Talk #7 - **Brian Paleo**
TRIM2 mediates cell membrane repair in neuronal cells following injury to the plasma membrane
- 11:35am – 11:45am Talk #8 - **Ameet Chimote**
Kv1.3 channels mark functionally competent CD8+ tumor infiltrating lymphocytes in head and neck cancer
- 11:45 – 12:35pm Poster Session (Even) **BRT Lobby**
- 12:35 – 1:25pm Poster Session (Odd) **BRT Lobby**
- 1:25 – 2:00pm Lunch **BRT 105**
- 2:00 – 3:00pm APS Keynote Lecture **BRT 115**
- Joseph T. Brozinick, Ph.D.** (Eli Lilly Co.)
The Role of Sphingolipids in Muscle Insulin Resistance:
Correlation or Causation?

Agenda

- 3:15 – 4:15pm Early Career Talks Session #1 **DHLRI 170**
- 3:15pm – 3:35pm Talk #1 - **Megan Meuti**
Molecular regulation of insect seasonal physiology
- 3:35pm – 3:45pm Talk #2 - **Perwez Alam**
Inhibition of senescence associated genes Rb1 and Meis2 promotes cardiac repair post-MI
- 3:45pm – 4:05pm Talk #3 - **Maegen Ackermann**
Intercalated disc obscurins fine-tune the PI3K pathway and effect the development of heart failure
- 4:05pm – 4:15pm Talk #4 - **James W. McNamara**
Tuning the Motor: Cardiac Myosin Binding Protein-C Can Regulate Myosin Head Order
- 4:15 – 4:30pm Break **DHLRI Lobby**
- 4:30 – 5:30pm Early Career Talks Session #2 **DHLRI 170**
- 4:30pm – 4:50pm Talk #5 - **Leslie Consitt**
Impairments in skeletal muscle pyruvate dehydrogenase and acetyl-CoA carboxylase phosphorylation during insulin-stimulation in the elderly are indicative of metabolic inflexibility
- 4:50pm – 5:10pm Talk #6 - **Kathleen Broomall**
Gestational Diabetes Risks for Mother and Offspring, Treatment Risks, and the Implications of Circadian Rhythm Indicators Being Used for Superior Prevention Techniques
- 5:10pm – 5:30pm Talk #7 - **Kristin Stanford**
12,13-diHOME, an exercise-induced biomarker of brown adipose tissue activity
- 5:30pm – 5:40pm Talk #8 – **Liu Zuo**
Interrelated Role of Reactive Oxygen Species, Irradiation and Bystander Effects in Breast Cancer Cells
- 5:45 – 6:30pm Reception **Ross Hospital Auditorium Lobby (H1213)**
- 6:30pm Awards Announcements and OPS business meeting **H1213**
- 6:30 – 8:00pm Banquet Dinner **Ross Hospital Auditorium**

Poster Presenters

Last Name	First Name	Poster #	Position	Institution
Adapala	Ravi Kumar	1	Graduate Student	NEOMED
Alam	Perwez	2	Postdoctoral fellow	University of Cincinnati
Al-Azzam	Nosayba	3	Graduate Student	University of Akron
Alla	Praveen K.	4	Graduate Student	Wright State University
Arif	Mohammed	5	Postdoctoral fellow	University of Cincinnati
Arnold	Michael	6	Graduate student	University of Cincinnati
Avendano	Alex	7	Graduate student	Ohio State University
Banh	Taylor	8	Graduate Student	Ohio State University
Beesetty	Pavani	9	Graduate student	Wright State University
Bentley/Popil	Savanna/Madalyn	10	Undergraduate student	Ohio Northern University
Bodnar	Thomas A.	11	Graduate Student	Ohio State University
Broomall	Kathleen	12	Faculty	Miami University
Brundage	Elizabeth	13	Researcher	Ohio State University
Budge	Kevin	14	Graduate Student	Kent State University
Calkins	Travis L.	15	Graduate Student	Ohio State University
Cappelli	Holly C.	16	Graduate student	NEOMED
Cervantes	Breana	17	Undergraduate student	Ursuline College
Chimote	Ameet	18	Postdoctoral fellow	University of Cincinnati
Chung	Jae-Hoon	19	Graduate student	Ohio State University
Cole	Rachel	20	Researcher	Ohio State University
Consitt	Leslie	21	Faculty	Ohio University
Cook	Bryson	22	Undergraduate student	Kent State University
Cotton	Bradley	23	Graduate Student	Ohio State University
Crocker	Jeffrey S.	24	Research Assistant	University of Cincinnati
Crum	Raphael J.	25	Undergraduate student	University of Dayton
de la Cruz-Lynch	Arthur Trenton	26	Undergraduate student	University of Cincinnati
do Amaral	M.Clara F.	27	Postdoctoral fellow	University of Dayton
Duah	Ernest	28	Graduate Student	University of Akron
Dunham	Justin	29	Undergraduate student	University of Cincinnati
Elzarka	Mohamed	30	Undergraduate student	University of Cincinnati
Fayyad	Tariq	31	Graduate Student	Wright State University
Felemban	Dalal	32	Graduate Student	Wright State University
Gibson	Jennifer	33	Medical Student	Wright State University
Gombedza	Farai	34	Graduate Student	University of Akron
Gushchina	Liubov	35	Postdoctoral fellow	Ohio State University
Halm	Dan	36	Faculty	Wright State University

Poster Presenters

Last Name	First Name	Poster #	Position	Institution
Hansen	Brian	37	Graduate Student	Ohio State University
Harper	Sara A.	38	Faculty	Tiffin University
Harris	Johan E.	39	Undergraduate student	Ohio State University
Kandoi	Sangeetha	40	Graduate student	University of Cincinnati
Lane	Rachel	41	Undergraduate student	University of Findlay
Lehnig	Adam	42	Researcher	Ohio State University
Lubbers/Murphy	Ellen/Nathaniel	43	Graduate student	Ohio State University
Manring	Heather	44	Postdoctoral fellow	Ohio State University
Maracini	Bishal	45	Graduate Student	Wright State University
McElhanon	Kevin E.	46	Graduate Student	Ohio State University
McNamara	James W.	47	Postdoctoral fellow	University of Cincinnati
Miracle	Cora	48	Undergraduate student	University of Cincinnati
Mullins	Riley	49	Undergraduate student	University of Cincinnati
Nag	Subhra S.	50	Graduate Student	Cleveland State University
Newton	Hannah	51	Graduate student	University of Cincinnati
Paleo	Brian	52	Graduate Student	Ohio State University
Pandey	Raghav	53	Graduate Student	University of Cincinnati
Petrosino	Jennifer	54	Graduate Student	Ohio State University
Podduturi	Sowmya Reddy	55	Graduate Student	Wright State University
Martin	Brit L.	56	Graduate Student	Ohio State University
Rakoczy	Ryan	57	Graduate Student	Wright State University
Rana/Mudrak	Priyanka/Nathan	58	Graduate Student	Kent State University
Reed	Eric J.	59	Graduate student	Wright State University
Russell	Hannah	60	Graduate Student	University of Cincinnati
Ruwe	T. Alex	61	Researcher	University of Cincinnati
Sandella	Rahul	62	Undergraduate student	University of Cincinnati
Santin	Joseph	63	Graduate Student	Wright State University
Snoke	Deena	64	Graduate Student	Ohio State University
Stogsdill	Brian	65	Graduate Student	Wright State University
Stricker	Joshua L.	66	Graduate student	Wright State University
Tanwar	Vineeta	67	Postdoctoral fellow	Ohio State University
Thyagarajan-Sahu	Anita	68	Researcher	Wright State University
Vemuri	Bhargav	69	Undergraduate student	University of Cincinnati
Vieth	Kyle R.	70	Researcher	University of Cincinnati
Wellmerling	Jack	71	Graduate Student	Ohio State University
Yacoub	Lisa	72	Undergraduate student	Ohio State University

Abstracts

Abstract 1: TRPV4 Channel deletion protects myocardium following Pressure-Overload via modulation of a novel mechanotranscription pathway

Presenter: Ravi Kumar Adapala
Mentor: Charles K. Thodeti

Abstract 2: Inhibition of senescence associated genes Rb1 and Meis2 promotes cardiac repair post-MI

Presenter: Perwez Alam
Mentor: Rafeeq PH Ahmed

Abstract 3: NADPH oxidase 4 expression is increased through TRPV4 channel in D. farinae-induced airway remodeling and TGF- β 1-mediated fibroblast differentiation into myofibroblasts

Presenter: Nosayba Al-Azzam
Mentor: Sailaja Paruchuri

Abstract 4: Not all silver nanoparticles are equal: Effect of functionalization on K homeostasis in human red blood cells

Presenter: Praveen K. Alla
Mentor: Norma C. Adragna

Abstract 5: MiR-210 mediated cardiomyocyte proliferation and survival: a novel approach to rescue cardiac function post myocardial infarction

Presenter: Mohammed Arif
Mentor: Rafeeq PH Ahmed

Abstract 6: Enhanced inhibition of chemotaxis by adenosine in the peripheral blood T cells from head and neck cancer patients

Presenter: Michael Arnold
Mentor: Laura Conforti

Abstract 7: PTEN Deletion in Pancreatic Cancer Associated Fibroblasts Decreases Hydraulic Permeability Independent of Collagen Fiber Alignment in a 3D Microfluidic Model of the Tumor Stroma

Presenter: Alex Avendano
Mentor: Jonathan Song

Abstract 8: Preparation and validation of an adeno-associated virus to overexpress adiponectin in skeletal muscles of mice

Presenter: Taylor Banh
Mentor: Martha Belury

Abstract 9: Mitogenic activation and proliferation of T lymphocytes in TRPM7 kinase-dead mutant mice

Presenter: Pavani Beesetty
Mentor: J. Ashot Kozak

Abstract 10: Cognitive and Physiological Effects of Lavender and Rosemary Essential Oils Correlate to Changes in EEG Waves

Presenter: Savanna Bentley, Madalyn Popil
Mentor: Vicki Motz

Abstract 11: Novel E3 Ubiquitin Ligase Mediators of Skeletal Muscle Atrophy

Presenter: Thomas A. Bodnar
Mentor: Noah Weisleder

Abstract 12: Gestational Diabetes Risks for Mother and Offspring, Treatment Risks, and the Implications of Circadian Rhythm Indicators Being Used for Superior Prevention Techniques

Presenter: Kathleen Broomall
Mentor: Kathleen Broomall

Abstract 13: Signaling integration between cardiac troponin I Ser-23/24 and Tyr-26 phosphorylation

Presenter: Elizabeth Brundage
Mentor: Brandon Biesiadecki

Abstract 14: A Novel Neuroprotective Effect of Osteoactivin in Parkinson's Disease

Presenter: Kevin Budge
Mentor: Fayez F. Safadi

Abstract 15: Gap junctions and the mosquito crop

Presenter: Travis L. Calkins
Mentor: Peter M Piermarini

Abstract 16: TRPV4 channels modulate tumor angiogenesis via Rho/Rho kinase pathway

Presenter: Holly C. Cappelli
Mentor: Charles K. Thodeti

Abstract 17: The Effect of Hypoxia on Tocopherol Transfer Protein (TTP) Promoter Methylation

Presenter: Breana Cervantes
Mentor: Lynn Ulatowski

Abstracts

Abstract 18: Kv1.3 channels mark functionally competent CD8+ tumor infiltrating lymphocytes in head and neck cancer
Presenter: Ameet Chimote
Mentor: Laura Conforti

Abstract 19: Effect of Stimulation Frequency Modification on Kinetic Parameters of Explanted Human Myocardium
Presenter: Jae-Hoon Chung
Mentor: Paul M.L. Janssen

Abstract 20: Effects of Conjugated Linoleic Acid on Body Composition and Glycemic Control in Adults with Type 2 Diabetes
Presenter: Rachel Cole
Mentor: Martha Belury

Abstract 21: Impairments in skeletal muscle pyruvate dehydrogenase and acetyl-CoA carboxylase phosphorylation during insulin-stimulation in the elderly are indicative of metabolic inflexibility
Presenter: Leslie Consitt
Mentor: Leslie Consitt

Abstract 22: A Novel Role of miR-150 in Bone Homeostasis
Presenter: Bryson Cook
Mentor: Fayez F. Safadi

Abstract 23: The flavonoids, naringenin and 8-prenylnaringenin, accumulate in skeletal muscle and increase expression of myogenic genes
Presenter: Bradley Cotton
Mentor: Martha Belury

Abstract 24: MicroRNA-23b mediated inhibition of GSK-3 β and NISCH promotes proliferation in cardiomyocytes
Presenter: Jeffrey S. Crocker
Mentor: Perwez Alam

Abstract 25: Assessing the combinatorial role of venous shear stress and Pravastatin™ on the expression and subcellular localization of AQP1 in vitro
Presenter: Raphael J. Crum
Mentor: Carissa Krane

Abstract 26: Allele-dependent binding of a viral protein to autoimmune disease-associated genetic variants
Presenter: Arthur Trenton de la Cruz-Lynch
Mentor: Roger Worrell

Abstract 27: Hepatic responses to cold acclimation and freezing: a transcriptome analysis of the freeze-tolerant Cope's grey treefrog, *Hyla chrysoscelis*
Presenter: M. Clara F. do Amaral
Mentor: Carissa Krane

Abstract 28: Cysteinyl Leukotriene 2 Receptor Enhances Angiogenesis, Vascular Permeability and Tumor Metastasis
Presenter: Ernest Duah
Mentor: Sailaja Paruchuri

Abstract 29: Role of N-glycosylation in the activity of divalent metal-ion transporter-1
Presenter: Justin Dunham
Mentor: Bryan Mackenzie

Abstract 30: Use of human umbilical cord mesenchymal stem cells to treat corneal opacity acquired through injury and infection
Presenter: Mohamed Elzarka
Mentor: Kyle Vieth

Abstract 31: Does Hyperoxia Blunt the Acute Hypoxic Ventilatory Response Via Impaired Mitochondrial Development in Carotid Body Type I Cells?
Presenter: Tariq Fayyad
Mentor: Christopher Wyatt

Abstract 32: Cold temperatures induce changes in Aquaporin 4 expression in brain of gray treefrogs
Presenter: Dalal Felemban
Mentor: David Goldstein

Abstract 33: Rapid quantification of mitogen-induced blastogenesis in T lymphocytes for identifying immunomodulatory drugs
Presenter: Jennifer Gibson
Mentor: J. Ashot Kozak

Abstracts

Abstract 34: Transient Receptor Potential Vanilloid 4 (TRPV4) regulates fibroblast differentiation in vitro and *D. farinae*-induced airway remodeling in asthma in vivo via modulation of matrix synthesis and matrix degradation mechanisms
Presenter: Farai Gombedza
Mentor: Lakshminarayan Teegala

Abstract 35: The Role of Monomeric and Oligomeric Forms of TRIM Family Proteins in Plasma Membrane Repair
Presenter: Liubov Gushchina
Mentor: Noah Weisleder

Abstract 36: Survival and growth of C57BL/6J mice lacking the BK channel (KCa1.1)
Presenter: Dan Halm
Mentor: Dan Halm

Abstract 37: Phase Singularity Mapping vs Wavefront Activation of Microanatomic Reentrant Atrial Fibrillation Drivers in Explanted Human Hearts
Presenter: Brian Hansen
Mentor: Vadim Fedorov

Abstract 38: Val66Met Polymorphism's Influence on Depression Symptoms and Responses to Exercise in Individuals with Parkinson's disease
Presenter: Sara A. Harper
Mentor: Sara A. Harper

Abstract 39: Moderate Resistance Exercise Improves the Metabolic Profile of Adipose Tissue in a Model of Disuse
Presenter: Johan E. Harris
Mentor: Kristin Stanford

Abstract 40: Molecular aspects of MYBPC3ΔInt32 using patient-specific human induced pluripotent stem cells (hiPSC)
Presenter: Sangeetha Kandoi
Mentor: Sakthivel Sadayappan

Abstract 41: Melatonin and tannic acid supplementation in vitro improve fertilization and embryonic development in pigs
Presenter: Rachel Lane
Mentor: Alisa Blazek

Abstract 42: Lipidomic Adaptations in White and Brown Adipose Tissue in Response to Exercise Demonstrates Molecular Species-Specific Remodeling
Presenter: Adam Lehnig
Mentor: Kristin Stanford

Abstract 43: Ankyrin-B (AnkB) is a spectrin-associated cytoskeletal protein that plays a critical role in anchoring the transverse tubules/sarcoplasmic reticulum in cardiomyocytes
Presenter: Ellen Lubbers, Nathaniel Murphy
Mentor: Peter Mohler

Abstract 44: The molecular underpinnings of the ACM-linked mutational hotspot of desmoplakin
Presenter: Heather Manring
Mentor: Maegen Ackermann Borzok

Abstract 45: Natural anti-cancer agents: Implications in gemcitabine-resistant pancreatic cancer treatment
Presenter: Bishal Maracini
Mentor: Ravi P. Sahu

Abstract 46: Idiopathic immune myopathy progression and membrane repair
Presenter: Kevin E. McElhanon
Mentor: Noah Weisleder

Abstract 47: Tuning the Motor: Cardiac Myosin Binding Protein-C Can Regulate Myosin Head Order
Presenter: James W. McNamara
Mentor: Sakthivel Sadayappan

Abstract 48: Chromatin binding causes intracellular retention of IL-33 during necrosis
Presenter: Cora Miracle
Mentor: Kyle Vieth

Abstract 49: Peripheral Blood T Cell-Dependent B Cell Activation Assay
Presenter: Riley Mullins
Mentor: Ameet Chimote

Abstract 50: Elevated Level of Hypoxia Inducible Factor 1 α by Cobalt Chloride Can Alter Renal Epithelial Function
Presenter: Subhra S. Nag
Mentor: Andrew Resnick

Abstracts

Abstract 51: Adenosine signaling in cytotoxic CD8+ T lymphocytes of head and neck cancer patients
Presenter: Hannah Newton
Mentor: Laura Conforti

Abstract 52: TRIM2 mediates cell membrane repair in neuronal cells following injury to the plasma membrane
Presenter: Brian Paleo
Mentor: Noah Weisleder

Abstract 53: MicroRNA mediated inhibition of cell cycle regulator Meis1 induces cardiomyocyte proliferation
Presenter: Raghav Pandey
Mentor: Rafeeq PH Ahmed

Abstract 54: ADH1 ablation mediates pericardial adipose tissue accumulation
Presenter: Jennifer Petrosino
Mentor: Federica Accornero

Abstract 55: Mouse melanoma models: Are they indispensable in developing new melanoma therapies?
Presenter: Sowmya Reddy Podduturi
Mentor: Ravi P. Sahu

Abstract 56: Zebrafish skeletal muscle as a potential surrogate system for studying human cardiomyopathy mutations
Presenter: Brit L. Martin
Mentor: Paul M.L. Janssen

Abstract 57: High fat feeding in rats alters respiratory parameters by a mechanism that may not be mediated by carotid body type I cells
Presenter: Ryan Rakoczy
Mentor: Christopher Wyatt

Abstract 58: Measuring intracellular protein concentration: why and how?
Presenter: Priyanka Rana, Nathan Mudrak
Mentor: Michael Model

Abstract 59: Fast Voltage-Gated Sodium Channel Activity in Huntington's Disease
Presenter: Eric J. Reed
Mentor: Andrew Voss

Abstract 60: Micro-RNAs inducing proliferation in human iPS derived cardiomyocytes
Presenter: Hannah Russell
Mentor: Rafeeq PH Ahmed

Abstract 61: Calcium is a required cofactor for ferroportin-mediated cellular iron efflux
Presenter: T. Alex Ruwe
Mentor: Bryan Mackenzie

Abstract 62: Diminished immune function in patients with Shwachman-Diamond syndrome
Presenter: Rahul Sandella
Mentor: Bryan Mackenzie

Abstract 63: Control of lung ventilation after extended disuse caused by overwintering submergence in the bullfrog
Presenter: Joseph Santin
Mentor: Lynn Hartzler

Abstract 64: Evidence for Change in Cardiolipin Remodeling Induced by the Chemotherapeutic Drug Doxorubicin
Presenter: Deena Snoko
Mentor: Martha Belury

Abstract 65: Cold acclimation of Cope's gray treefrogs involves post-translational modification of aquaglyceroporins
Presenter: Brian Stogsdill
Mentor: David Goldstein

Abstract 66: Immuno-cytochemical exploration of interaction between Na/K ATPase (NKA), Bcl-2 (BclXI) and other proteins: determinants of digitalis-NKA receptor internalization
Presenter: Joshua L. Stricker
Mentor: Peter K. Lauf

Abstract 67: Exposure to PM2.5 Preconception Primes Adult Cardiac Dysfunction
Presenter: Vineeta Tanwar
Mentor: Loren Wold

Abstract 68: Myeloid derived suppressor cells play critical role in mediating Platelet-activating factor receptor dependent systemic immunosuppression and melanoma tumor growth
Presenter: Anita Thyagarajan-Sahu
Mentor: Ravi P. Sahu

Abstract 69: Integrative omics to discover candidate therapeutics for glioblastoma
Presenter: Bhargav Vemuri
Mentor: Roger Worrell

Abstracts

Abstract 70: Calcium is a required cofactor for ferroportin-mediated cellular iron efflux

Presenter: Kyle R. Vieth

Mentor: Bryan Mackenzie

Abstract 71: Impaired Expression of the Ion Channel CFTR Contributes to the Development of Emphysema in Mice Exposed to Cigarette Smoke

Presenter: Jack Wellmerling

Mentor: Estelle Cormet-Boyaka

Abstract 72: Phenotypic plasticity of organ size after acclimation to low and high quality diet in the viviparous cockroach *Diploptera punctata*

Presenter: Lisa Yacoub

Mentor: Agustí Muñoz-García

Notes

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WEXNER MEDICAL CENTER

