SECOND ANNUAL RESEARCH SYMPOSIUM

April 13, 2023
4:30 — 7:00 p.m.
Student Union: Apollo and Endeavor Rooms
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<td>4:00 p.m.</td>
<td>Poster Setup &amp; Registration</td>
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<td>4:30 p.m.</td>
<td>Dr. Valerie Weber Welcome</td>
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<td>4:40 p.m.</td>
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<td>5:03 p.m.</td>
<td>Faculty Research Talks</td>
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<td>5:30 p.m.</td>
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Featured Student Research Talks

Morgan Hendrixson, MS3 & Yev Gladkiy, M.S., MS2

Platelet – Activating Factor- Receptor Pathway Modulates Sorafenib – Mediated Effects on Lung Cancer Growth and Microvesicle Particles Release

Yev is an MD student conducting research on microvesicle particles at the Department of Pharmacology and Toxicology under his advisor Ravi. P Sahu, PhD. He attended The Ohio State University for undergraduate and graduate studies in biomedical engineering. Yev completed his M.S. thesis under Steven T. Sizemore, PhD, where he explored the mechanisms of extracellular vesicle (EV) biogenesis, as well as EV isolation with a microfluidic device for liquid biopsy in breast cancer. Yev is looking forward to serving as a physician-scientist in his future.

Morgann Hendrixson is a third-year MD student at Wright State University. Morgann is originally from Monroe, OH and attended Miami University for her undergraduate studies. During the summer between her first and second year of medical school she began conducting research with Dr. Ravi Sahu. She enjoys conducting research and plans to continue to do so in her medical career.

Roselle Almazan, MS3

A Structured Approach to Increasing Diversity, Equity, and Inclusion Aspects of Surgery

Roselle Bea P. Almazan is a third-year medical student at Boonshoft School of Medicine. She is from Dayton, Ohio, and earned her bachelor of science in Biological Sciences at Wright State University. She previously conducted molecular biology research using the yeast model to investigate the role of alpha-synuclein in Parkinson’s disease. Her current interest in academic medicine has led to her research with Dr. Priti Parikh regarding diversity in general surgery residency.
Adaku Ume, PhD, MD/PhD Student
Calcineurin inhibitors: A Double Edge Sword

Adaku Ume recently completed her Biomedical Sciences PhD degree at Wright State University Boonshoft School of Medicine in Dr. Clintoria Williams Kidney Pathophysiology Research Lab. She earned an MS in Pharmacology from Georgetown University and a BS in Cell and Developmental Biology from the University of California, Santa Barbara. Her PhD research focuses on molecular mechanism by which the immunosuppressive agents calcineurin inhibitors cause irreversible kidney damage. Adaku is interested in a career as a physician-scientist where her contributions help address gaps in knowledge that currently remain in clinical practice.
Featured Faculty Research Talks

J. Ashot Kozak, Ph.D., Associate Professor, Department of Neuroscience, Cell Biology and Physiology

The Function of TRPM7 Channel – Kinase in Immune Cells

Dr. J. Ashot Kozak obtained his PhD at the Mount Sinai School of Medicine and was a postdoctoral fellow at Howard Hughes Medical Institute and the University of California. His research focuses on the physiological roles of calcium, ion channels and kinases in immune cells and pancreatic beta cells. His group uses various approaches, including electrophysiology, transgenic mice and cell-based assays.

Amanda M. Hinson – Enslin, Ph.D., M.P.H.,CHES
Assistant Professor, Population & Public Health Sciences

The Process of Investigating COVID – 19 Vaccine Behaviors among Deaf American Sign Language Users

Dr. Hinson-Enslin is an assistant professor in the Department of Population and Public Health Sciences. Her research focuses on improving health outcomes of individuals with chronic conditions and/or disabilities. She is specifically interested in improving health outcomes among American Sign Language users by learning about their perceptions and influences of COVID-19 vaccine uptake, hesitancy, and refusal. This research will be used to improve pandemic response.
Poster Session & Reception

Student Union Apollo Room
5:30 — 7:00 p.m.

On the following pages you will find information regarding the poster presentations for this evening's symposium. The poster number corresponds to the location of the poster. All departments are associated with Wright State University or the Boonshoft School of Medicine unless otherwise noted.
Poster: 1
Chris Dupont
Mechanisms contributing to muscle dysfunction in hyperkalemic periodic paralysis
Dupont C, Nawaz M, Voss AA, Rich MM
Mentor: Dr. Mark Rich, MD-PhD
Department: NCBP/BSOM/Neurology

Poster: 2
Widad El-Zein
Identifying and characterizing human genes that suppress the toxicity of ALS-associated MATR3
El-Zein W, Chumley A, Hayden E, Chen S, Zhong Q, Ju S
Mentor: Shulin Ju, Ph.D.
Department: Biological Sciences

Poster: 3
Weston Gelford
SK channel upregulation underlies MN hypoexcitability in aging
Mentor: Sherif Elbasiouny PhD, PE
Department: NCBP

Poster: 4
Yevgeniy Gladkiy and Morgann Hendrixson
Platelet-activating factor-receptor pathway modulates sorafenib-mediated effects on lung cancer growth and microvesicle particles release
Gladkiy Y., Hendrixson M., Thyagarajan A., Sahu R.
Mentor: Ravi P Sahu, Ph.D.
Department: Pharmacology & Toxicology

Poster: 5
Courtney Johnson-Gonzalez
Upregulation of placental hypoxia-inducible factor 1 (HIF-1a) in preeclampsia
Mentor: Thomas L Brown, PhD
Department: Neuroscience, Cell Biology, and Physiology and Department of Obstetrics and Gynecology

Poster: 6
Mark Ortenzio
Quality Evaluation of the Usefulness of an Emergency Department Fall Risk Assessment Tool Protocol
Ortenzio M., Brittain G., Frommeyer TC., Muwanga D., Parikh P., Stolfi A.
Mentor: Priti Parikh, PhD.
Department: Research Education and Professional Development in the Department of Surgery

Poster: 7
Katherine Trittschuh and Keisha Barnes (undergrad)
Analysis of synaptic fidelity in Huntington’s disease mouse neuromuscular junctions
Trittschuh KT, Barnes KM, Burke SR.A, Singh A, and Voss AA.
Mentor: Andrew Voss, PhD
Department: Biological Sciences

Poster: 8
Alexander Winkle
Design and evaluation of a solution for mechanical stimulation of in-vitro culture
Winkle A, McClenny C, Hund TJ.
Mentor: Thomas Hund PhD
Department: Medicine/Biomedical Engineering, Ohio State University

Poster: 9
Garrett Brittaiin, Timothy Frommeyer, Michael Gilbert, Tongfan Wu
Cerebral Sinus Venous Thrombosis Following an mRNA COVID-19 Vaccination and Recent Oral Contraception Use
Frommeyer TC, Wu T, Gilbert MM, Brittain GV, Fuqua SP
Mentor: Steven Fuqua, DO
Department: Internal Medicine

Poster: 10
Shivani Dighamber
Comprehensive Medical Management in Psychiatric Patients: A Case Report
Dighamber S, Bhatt N, Gentile, J
Mentor: Nita Bhatt, MD
Department: Psychiatry
Poster: 11
Makenzie Dye
Crowe’s Sign: A Classic Case of Axillary Freckling in a Patient With NF1
Dye M, Garcia-Whitko L, Garcia-Zuazaga J,
Mentor: Jorge Garcia-Zuazaga, MD
Department: Dermatology

Poster: 12
Karley Fischer
Common Misdiagnosis of HFpEF in Young Females Due to Under Diagnosis of Coronary Microvascular Dysfunction
Fischer K, Khattab O, Valencia D, Linares J, Sequeira R
Mentor: Damian Valencia, MD
Department: Cardiology

Poster: 13
Karley Fischer
Rapid Identification and Management of Cardiogenic Shock
Fischer K, Valencia D, Linares J, Schwartz B,
Mentor: Damian Valencia, MD
Department: Cardiology

Poster: 14
Elizabeth Fonte and Donald Hefelfinger
Rapidly Destructive Osteoarthritis of the Hip in the Setting of Multiple Intra-articular Steroid Injections: A Case Report
Fonte E, Hefelfinger D, Lyons J, Krishnamurthy A
Mentor: Joe Lyons, MD
Department: Orthopedics

Poster: 15
Donald Hefelfinger and Elizabeth Fonte
Musculoskeletal Coccidioidomycosis in the Setting of Adalimumab: A Case Report
Hefelfinger D, Fonte E, Nehzati A, Scott J
Mentor: Joshua Scott, DO
Department: Rheumatology

Poster: 16
Sabrina Kaul
Marked Reduction in Severe Resistant Hypertriglyceridemia on PCSK9 Inhibitor
Kaul S, Gupta A.
Mentor: Ankur Gupta, MD, FACE, ECNU
Department: Internal Medicine

Poster: 17
Sabrina Kaul
A Challenging Case of Medication-Nonadherent Hypothyroidism Requiring Frequent Primary Care Visits to Achieve Euthyroidism
Kaul S, Gupta A.
Mentor: Ankur Gupta, MD, FACE, ECNU
Department: Internal Medicine

Poster: 18
Annika Kisha, Samantha Shugar, Jason Miner, MD
Open Rib Fracture Management with Primary Reduction and Suture Fixation in an Elderly Male with Complex Chest Wall Anatomy
Kisha AF, Shugar SE, Miner JA
Mentor: Jason Miner, MD
Department: Surgery

Poster: 19
Deborah Lee
Aicardi - Goutieres Syndrome Secondary to ADAR Mutation Masquerading as Athetoid Cerebral Palsy
Chikkannaiah M, Lee D, Fonseca L, Goenka A, Kumar G
Mentor: Mahesh Chikkannaiah, MD
Department: Pediatric Neurology

Poster: 20
Roya Morakabian
Pediatric epilepsy associated with GAMT deficiency
Chikkannaiah M, Kumar G, Set K, Fonseca L, Morakabia R
Mentor: Mahesh Chikkannaiah, MD
Department: Neurology
Poster: 21
Halimat Olaoluwa
The Andes of Bladder Stones
Olaoluwa, HA, Hakim, J
*Mentor: Jonathan Hakim, MD
*Department: Urology

Poster: 22
Ankur Parekh
Acute encephalopathy with biphasic seizures and late reduced diffusion (AESD) secondary to norovirus infection
Parekh AM, Fonseca L, Agarwal R, Kumar G, Chikkannaiah M,
*Mentor: Mahesh Chikkannaiah MD
*Department: Pediatric Neurology

Poster: 23
Young Jun Park
A Case of Hairy Tongue from Clindamycin
Park Y, Elliott B.
*Mentor: Brian Elliott, MD.
*Department: Internal Medicine

Poster: 24
Samantha Roberts
Management of Renal Cell Carcinoma with Tumor Thrombus and Concurrent Intraoperative Tumor Embolization
Roberts SA, Gold H, Posid T, Dason S
*Mentor: Shawn Dason MD
*Department: Urology

Poster: 25
Andrea Shugar
Novel Use of Resuscitative Endovascular Balloon Occlusion of the Aorta for Massive Perineal Hemorrhage Secondary to Blast Injury
Shugar AL, Shugar SE, Wong YM
*Mentor: Yee Wong, MD
*Department: Surgery

Poster: 26
Sarah Yu
Pediatric stroke: A case of focal cerebral arteriopathy secondary to tuberculous meningitis in the United States
Chikkannaiah M, Yu SG, Goenka A, Kumar G
*Mentor: Mahesh Chikkannaiah, MD
*Department: Pediatric Neurology

Poster: 27
Tyler Langenfeld
Microsurgical Head and Neck Reconstruction with an Autologous Arteriovenous Loop: Multicenter Series of 36 Patients
*Mentor: Sameep Kadakia, MD FACS
*Department: Plastic and Reconstructive Surgery

Poster: 28
Adrian Babel
No postoperative positioning in primary vitrectomy for rhegmatogenous retinal detachment: outcomes in 116 consecutive patients
Babel A, Xu K, Chin E, Almeida D
*Mentor: David Almeida
*Department: Erie Retinal Surgery

Poster: 29
Kiren Bashir and Carin Statt
Acute trauma: Seasonal and daily variations in injury patterns
Marco CA, Statt C, Bashir, K, Repas SJ
*Mentor: Dr. Catherine Marco, MD
*Department: Emergency Medicine

Poster: 30
Charles Botti and Michael Almany
Utilization of Kyphoplasty / Vertebroplasty For Pain Management Of Traumatic Vertebral Compression Fractures in Geriatric Patients
*Mentor: Karen Herzing, RN and Dr. Christa Siebenburgen, MD
*Department: Trauma
Poster: 31
Maneesh Chidambaram
**Addressing Stereotypes in Healthcare: Patient’s Physician-Gender Biases in an Ambulatory Urology Clinic**
Mohaghegh M, Asif H, Blanco N, Riedinger E, Kleinguetl C, Arnold C, Michael W. Sourial, Dairon Denis-Diaz, Essa Gul, Hayat Mohammed, Maneesh Chidambaram, Tony Nessem, Tasha Posi
*Mentor: Tasha Posid, MA, PhD*
*Department: Urology*

Poster: 32
Baria Choudry and John Pascoe
**Is Restless Legs Syndrome More Common in Young Women Compared to Young Men?**
Choudry B, Pascoe J
*Mentor: John Pascoe, MD MPH*
*Department: Pediatrics*

Poster: 33
Andrew Correll
**Comparing Midazolam to Alternatives for Management of Acute Agitation and Status Epilepticus in Austere Environments Such as Space**
Correll A, Johnson, K, Close H, Correll T, Peirson R
*Mentor: Terry Correll, D.O.*
*Department: Psychiatry*

Poster: 34
Akshima Dhiman
**Traumatic Brain Injury Biomarkers, Simulations and Kinetics**
Hicks C, Dhiman A, Barrymore C, Goswami T
*Mentor: Tarun Goswami, D. Sc.*
*Department: Biomed Industrial & Human Factors Engineering*

Poster: 35
Makenzie Dye and Vijay Rings
**Incidence of 4% Articaine-Induced Neurological Abnormalities Associated With Dental Procedures**
Dye M, Rings V, Wang A, Voiers S
*Mentor: Alexander Wang, MD (Affiliation: University of Cincinnati)*
*Department: Anesthesiology*

Poster: 36
Oumou Fofana and Ashley Hughes
**Standardization of Narcotic Prescriptions in General Surgery Procedures**
*Mentor: Justin Robbins, MD*
*Department: Surgery*

Poster: 37
Sana Shameem and Michael Harrington
**Relationship between Obesity and IDD in an Ohio Telepsychiatry Clinic: A Retrospective Review**
*Mentor: Danielle Gainer, MD*
*Department: Psychiatry*

Poster: 38
Joshua Jantzi
**Examining Opioid Prescribing Differences Among Urban and Rural Clinicians Pre and Post PRESTO Training**
Jantzi J, Hershberger P, Castle A, Crawford T, James A, Bricker D
*Mentor: Paul Hershberger, PhD*
*Department: Family Medicine*

Poster: 39
Sabrina Kaul
**Monitoring TSH Over Time May Not Be Necessary in Patients with Thyroid Nodules**
Kaul S, Gupta A.
*Mentor: Ankur Gupta, MD, FACE, ECNU*
*Department: Internal Medicine*

Poster: 40
Benjamin Kleeman
**Clinical and Resource Outcomes of Necrotizing Soft Tissue Infections Using a Skin Sparring Approach**
Hess J, Johnson C, Kleeman B, Parikh P, Perry T
*Mentor: Travis Perry, MD*
*Department: General Surgery*
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<th>Taylor Malchow</th>
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<th>Hanna Peterson, Annika Kisha, and John Terry, MD</th>
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<th>Brian Schutter, Ann Smith, DPT, Mike Albert, MD</th>
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<td><strong>Examining Trends in Implantable Doppler Usage Amongst North American Microsurgeons: A Survey Study</strong></td>
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<td><strong>Exploring Differences in Opioid Prescribing Practices Based on Years of Experience, Pre- and Post-PRESTO Training</strong></td>
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<td><strong>Motivational Interviewing with No Motivation: An Analysis of Internal Medicine Resident Motivational Interviewing Skills</strong></td>
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<th>Lyndsay Boyd</th>
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<td><strong>Creation of an Application to Increase Surgical Resident Operative Case Coverage</strong></td>
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**Poster: 51**
Carson Clark, Isabella Benintendi, Alexis Westrick

**Impact of Incoming MCAT and Self-Assessed Medical School Confidence on End-of-Module Exams**
Clark, CB, Benintendi, IG, Westrick, AR, Silva, AMS, Stolfi, A.
*Mentor: Adrienne Stolfi, PhD*
*Department: Medical Education*

**Poster: 52**
TC Frommeyer, Michael Gilbert, Garrett Brittain

**A Cohort-Control Study Assessing the Impact of Anki as a Spaced-Repetition Tool on Academic Performance in Medical School**
Frommeyer TC, Gilbert MM, Brittain GV, Stewart NA, Turner TM, Stolfi A, Parmelee DX
*Mentor: Dean Parmelee, MD*
*Department: Medical Education*

**Poster: 53**
Betsy Gauthier

**Evidence-Based Medicine in the Ob-Gyn Clerkship: A Novel Student Project**
Gauthier B, Saeed Z, Mathess J, Kindig M, Maxwell, R
*Mentor: Marilyn Kindig, D.O., Rose Maxwell, Ph.D., MBA*
*Department: Obstetrics and Gynecology*

**Poster: 54**
Nickolas Stewart, Donald Hefelfinger, Garrett Brittain, Timothy Frommeyer

**The Increasing Trend in the Number of Publications and Research Projects Among Orthopedic Residency Applicants: A Retrospective Analysis**
Stewart N, Hefelfinger D, Brittain G, Frommeyer T, Stolfi A, Krishnamurthy A
*Mentor: Anil Krishnamurthy, MD*
*Department: Orthopedic Surgery*

**Poster: 55**
Hayden Jaworski and Winston Owens

**USMLE Step 1 Transition to Pass/Fail: Perception of Medical students and Residency Program Faculty**
Jaworski H, Owens W, Parikh, P
*Mentor: Priti P. Parikh, Ph.D.*
*Department: Surgery*

**Poster: 56**
John Kearfott

**Motivational Interview Skills Training in Medical Students and Residents**
Kearfott J, Castle A, Crawford T, Hershberger P.
*Mentor: Angie Castle, MA*
*Department: Family Medicine*

**Poster: 57**
Ariel Lanier, Daniel Perry, Julie Slyby, Allie Peebles, Marilyn Kindig, DO.

**Using Interactive Modules to Improve OB/GYN Clerkship**
Lanier, A, Perry, D, Slyby, J, Peebles, A, Kindig, M
*Mentor: Marilyn Kindig, DO*
*Department: Obstetrics and Gynecology*

**Poster: 58**
Paige Lewis

**Using Artificial Intelligence to Assess the Difficulty of Motivational Interviewing Training Cases**
Lewis P, Hershberger P, Crawford T, Castle A
*Mentor: Paul Hershberger PhD, Angie Castle MA*
*Department: Family Medicine*

**Poster: 59**
Jeannette Manger, PhD

**Study habits in first-year medical students.**
Manger, JM, Benedik, L, Johnson, S, Journell, L, Reser, R
*Mentor: n/a*
*Department: Medical Education*

**Poster: 60**
Chasity B. O'Malley, PhD

**An Introduction to the Community College Anatomy and Physiology Education Research (CAPER) Project: Teaching Practices for Anatomy and Physiology**
*Mentor: n/a*
*Department: Medical Education*
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Alaina O’Rourke and Paul J. Hershberger, PhD
**Assessment of Student Motivational Interviewing Skills Throughout the Clerkship Year**
O’Rourke A, Hershberger P, Castle A, Crawford T
*Mentor: Paul J. Hershberger, MD*
*Department: Family Medicine*

Poster: 62
Samantha Roberts
**Can Residents be Productive in a Month Research Rotation? Impact of a Dedicated Research Rotation on Resident Productivity and Attitudes Towards Research**
*Mentor: Tasha Posid PhD*
*Department: Urology*

Poster: 63
Zenab Saeed and Azl Saeed
**Implementing a novel student-led review session for clerkship final exam preparation**
Saeed Z, Saeed A, Kindig M, Towers G
*Mentor: Marilyn Kindig, DO*
*Department: Obstetrics and Gynecology*

Poster: 64
Amber Todd, PhD and William Romine, PhD
**Using Rasch Measurement to Visualize How Clerkship and Extracurricular Experiences Impact Preparedness for Residency in an Undergraduate Medical Program**
Todd A, Romine W,
*Mentor: n/a*
*Department: Medical Education*

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Colette Beard
**The Future of Correctional Healthcare: A Literature Review & Call to Action**
Beard C, Iversen P
*Mentor: P. Inversen*
*Department: Psychiatry*

Poster: 66
Andrea Costin
**Air Pollution and Social Determinants of Health throughout U.S. Counties**
Costin, A., Clark, A.
*Mentor: Jeannette Manger, PhD*
*Department: Medical Education*

Poster: 67
Brooklyyne Dilley and Sammy Roberts
**Childhood Underinsurance During the COVID-19 Pandemic**
Dilley, B. A., Roberts, S., Stolfi, A., Eberhart, G., & Pascoe, J.
*Mentor: Dr. John Pascoe, MD*
*Department: Pediatrics*

Poster: 68
Eshita Garg
**Racial Bias and Abortion Stigma: Assessing the Association of the Stigmatizing, Attitudes, Beliefs, and Actions Scale (SABAS) and the Racial Implicit Association Test (IAT) in Medical Learners**
Garg E, Reisinger-Kindle, K
*Mentor: Keith Reisinger-Kindle, DO, MPH, MS*
*Department: Obstetrics and Gynecology*

Poster: 69
Monica George and Estelle Viaud-Murat
**Global Healthcare Corruption & the Patient Experience: Insight from Two Decades of Literature**
George, M., Viaud-Murat, E., Ali, M.
*Mentor: Mohammed Ali, MD*
*Department: Emory University Hubert Department of Global Health*

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Department: Orthopaedic Surgery

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Department: Emergency Medicine
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