



13TH ANNUAL
**RESEARCH
SYMPOSIUM**

MARCH 27, 2024

DEPARTMENT OF
**INTERNAL
MEDICINE**

**Advancing Research and
Spurring Innovation**

**Featuring Perspectives on
Artificial Intelligence**

med.uc.edu/department/intmed/research

Image: Mouse Gastric Glands
Kristen Engvik, BS
Pharmacology & System Biology

Mission

**WE TRANSFORM OUR COMMUNITY
AND THE WORLD THROUGH
EXCEPTIONAL
PATIENT CARE, RESEARCH AND
EDUCATION**

Department of Internal Medicine
13th Annual Research Symposium
*“Advancing Research and Spurring Innovation-
 Featuring Perspectives on Artificial Intelligence”*

Wednesday, March 27, 2024, 8:30am to 2:00pm

8:30am to 9:30am

Trainees Meet the Professor: Mentoring breakfast discussion.

- ❖ **Invited speaker: Umberto Tachinardi, MD, MS**, Chief Health Digital Officer, Associate-Dean, Interim-Chair, Professor - Department of Biomedical Informatics
- ❖ **Location:** In person only -Room # CARE 6870

9am to 10:30am Breakfast: Beverage Station/continental breakfast CARE/Crawley Atrium (Corridor E899)

10am to 12:00pm Trainee Poster Display/Presentations and Judging

- ❖ Clinical Track, Basic Track and Case Report Posters
- ❖ Judges and general audience viewing
- Note: All judges must submit scoring per electronic survey by 12:15pm**
- ❖ **Location:** CARE/Crawley Atrium (Corridor E899)

11:30am to 12 noon Lunch: Boxed Lunch and beverage station. Outside Kresge Auditorium (Medical Sciences Building E701)

12:00pm -1:15pm Grand Rounds

Department Chair Welcome: **John C. Byrd, MD, FACP**, Gordon and Helen Taylor Professor of Medicine, Chair, Department of Internal Medicine

Speaker Introduction: **Carl Fichtenbaum, MD**, Gregory W. Rouan Professor, Professor Clinical Medicine, Vice Chair Clinical Research, Department of Internal Medicine

Speakers: **Umberto Tachinardi, MD, MS**, Chief Health Digital Officer, Associate-Dean, Interim-Chair, Professor - Department of Biomedical Informatics
Rodrigo Octávio Deliberato, MD, MSc, PhD, Chief Research Information Officer, Professor - Department of Biomedical Informatics

- ❖ **Title:** “Will AI Invent (or Ruin) Biomedical Research?”
- ❖ **Location:** Kresge Auditorium
- ❖ **Zoom:** <https://ucincinnati.zoom.us/j/91883448608>

1:15pm to 1:45 pm Awards ceremony- Trainee Posters

- ❖ **Facilitator:** **Carl Fichtenbaum, MD**, Vice Chair Clinical Research, DOIM
- ❖ **Location:** Kresge Auditorium

1:30pm to 2:00pm Reception: Dessert Station outside Kresge Auditorium

Trainee Research Poster Session

Trainee and Department/Division	Mentor	Title	Clinical, Basic or Clinical Report	Poster #
Akhil Baby, MSc (International Visiting Scholar) Cardiovascular	Sakthivel Sadayappan, PhD	Mybpc1, a critical regulator of Skeletal Muscle Differentiation	Basic	1
Kalyani Ananthamohan, PhD Cardiovascular	Sakthivel Sadayappan, PhD	South Asian-Specific Polymorphic Variant in MYBPC3 Exacerbates Ischemia-Reperfusion Injury	Basic	2
Julia Kumar, BS Med Student	Umama Gorski, MD	Treatment of Peripartum Cardiomyopathy with Venovenous ECMO and Successful Subsequent Pregnancy	Clinical Case Reports	3
Archi Dasgupta Graduate Student	Kristin Hudock, MD	Neutrophil Extracellular Traps exposure increases Pseudomonas aeruginosa infection of Human Bronchial epithelium cells.	Basic	4
Nathan Kim, BA Endocrinology	Pooneh Nabavizadeh, MD	ECG Characteristics of South Asian-Specific MYBPC3Δ25bp Deletion Carriers at Rest and with Stress	Clinical	5
Aleona Zuzek, MD Aviva Atri-Schuller, DO Endocrinology	Abid Yaqub, MD	Debunking the Bimodal Theory of Autoimmunity: Grave's Disease (GD) Hyperthyroidism and Hashimoto's Disease (HD) Hypothyroidism can Coexist on a Spectrum, A Case Series	Clinical Case Reports	6
Junting Liu, MD Endocrinology	Dima Diab, MD	Catatonia Induced by Lithium-Associated Hyperparathyroidism: A Case Report	Clinical Case Reports	7
Aki Ogawa-Iio, DVM, PhD Hematology & Oncology	Atsuo Sasaki, PhD	Fueling the Way—The Role of Localized GTP Synthesis in Renal Cell Carcinoma Metastasis	Basic	8
Fujii Yuki, PhD Post Doctorate Fellow Hematology & Oncology	Atsuo Sasaki, PhD	Targeting the GTP sensing kinase PI5P4Kβ to sensitize oxidative and nutrient stresses to suppress the metastatic potential of invasive cancer cells.	Basic	9
Oshima Masashi MD, PhD Hematology & Oncology WITHDRAWN	Atsuo Sasaki, PhD	Identification of DNA damage response-related genes as biomarkers for castration-resistant prostate cancer	Clinical	10

Trainee and Department/Division	Mentor	Title	Clinical, Basic or Clinical Report	Poster #
Faiza Khondokar, BS Infectious Diseases	Rajat Madan, MD	Defining Mechanisms of Q223R Polymorphism-Associated Differential Neutrophilia in CDI	Basic	11
Ann Mathew, BS Infectious Diseases	Rajat Madan, MD	Macrophage Migration Inhibitory Factor (MIF) Dynamics in Clostridioides Difficile Infection (CDI) Kinetics, Sources, and Drivers	Basic	12
Laura Victoria Medina Rodriguez, MD Infectious Diseases	Moises A. Huaman, MD, MSc	Sex Differences in Coronary Atherosclerosis by Computed Tomography Angiography in Latin America: Insights from Peru	Clinical	13
William Phillips, DO Internal Medicine Resident	Pooneh Nabavizadeh, MD	Wide Complex Tachycardia and Syncope in a Young Woman with a Family History of Sudden Death	Clinical Case Reports	14
Wisam Beuti, MD Internal Medicine Resident	Anisiia Crowley, MD	Acute Identification of Cardiac Trauma	Clinical Case Reports	15
Kaitlin Snapp, MD Christian Adams-Carey, MD Internal Medicine Residents	Misoor Goueli, MD	Point of Care Ultrasound Curriculum Development for an Internal Medicine Residency Program	Clinical	16
Christian Adams-Carey, MD Internal Medicine Resident	Davendra Sohal, MD	Advanced pancreatic cancer outcomes and the impact of COVID-19 pandemic: The experience of an academic cancer center	Clinical	17
Kamila Cuervo, BSc Internal Medicine CCHMC Gastroenterology, Hepatology, and Nutrition	Maria Fields, PhD	Role of IL-21 Axis in the Progression of Metabolic-associated Steatotic Liver Disease (MASLD).	Basic	18
Ehab Abdelgyed, MBBCh Endocrinology	Dima Diab, MD	Melorheostosis: A Rare Osteosclerotic Disease	Clinical Case Report	19
Abdulaziz Alshwimi, PhD Nephrology	Laura Conforti, PhD	KCa3.1 channels regulate NK cell tumor infiltration in head and neck cancer	Basic	20

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Taylor Coughlin Graduate Student Pathobiology and Molecular Medicine	Catherine Makarewich, PhD	Characterization of Nr3c1, a Novel Cardiac and Adipose Enriched Microprotein	Basic	21
Danielle Stiene PhD Candidate Pathobiology and Molecular Medicine	Michael Borchers, MD	Characterizing the Uterine Immunophenotype of a Murine Model for Lymphangioliomyomatosis (LAM)	Basic	22
Aaron Albee PhD candidate Pathobiology and Molecular Medicine	Melanie Cushion, PhD	Single-cell RNA sequencing of Pneumocystis carinii isolated from the host.	Basic	23
Prachi Saluja, MD Pulmonary, Critical Care & Sleep Medicine	Nishant Gupta, MD	Clinical characteristics and longitudinal outcomes in treated patients of primary Sjögren's disease-associated interstitial lung disease	Clinical	24
Santhoshi Akkenapally, MSc Pulmonary, Critical Care & Sleep Medicine	Satish K Madala, PhD	Interleukin 31 receptor α promotes airway smooth muscle cell contraction and hyperresponsiveness in asthma.	Basic	25
Priyanka Singh, PhD Pulmonary, Critical Care & Sleep Medicine	Satish K Madala, PhD	SOX9 Upregulation in the Pathogenesis of Severe Fibrotic Lung Disease	Basic	26
Harshavardhana Ediga Research Assistant Pulmonary, Critical Care & Sleep Medicine	Satish K Madala, PhD	WILMS Tumor 1 Impairs Fibroblast Clearance in Severe Fibrotic Lung Disease	Clinical	27

Judges

Name	Degree	Division	Department Position
Nabavizadeh, Pooneh	MD	Cardiovascular Health & Disease	Faculty
Gorsi, Umama	MD	Cardiovascular Health & Disease	Faculty
Madala, Satish K.	PhD	Cardiovascular Health & Disease	Faculty
Bari, Khurram	MD	Digestive Diseases	Faculty
Patel, Shailendra	MD/PhD	Endocrinology, Diabetes and Metabolism	Faculty
Cohen, Robert M	MD	Endocrinology, Diabetes and Metabolism	Faculty
Schauer, Daniel	MD/MSc.	General Internal Medicine	Faculty
Varghai, Houman	MD	General Internal Medicine	Faculty
Kamdem T., Donatien	PhD	Hematology/Oncology	Faculty
Sasaki, Atsuo	PhD	Hematology/Oncology	Faculty
Lewis, Clay	PhD	Hematology/Oncology	Faculty
Andreani, Cristina	PhD	Hematology/Oncology	Faculty
Williams, Kelli	MD	Infectious Diseases	Faculty
Jose, Shinsmon	PhD	Infectious Diseases	Faculty
Madan, Rajat	MD/PhD	Infectious Diseases	Faculty
Khona, Dolly	PhD	Infectious Diseases	Research Associate
Fichtenbaum, Carl	MD	Infectious Diseases	Faculty
Stickles, Allison	MD/PhD	Internal Medicine	Faculty
Amlal, Hassane	PhD	Nephrology and Hypertension	Faculty
Conforti, Laura	PhD	Nephrology and Hypertension	Faculty
Chimote, Ameet	PhD	Nephrology and Hypertension	Faculty
Gardner, Jason	PhD	Pulmonary, Critical Care and Sleep Medicine	Faculty
	MD/		
Hudock, Kristin	MSTR	Pulmonary, Critical Care and Sleep Medicine	Faculty
Shao, Wenhai	PhD	Rheumatology, Allergy and Immunology	Faculty
Debanjan Bhattacharya	PhD	Neurology/Oncology - Vontz	Faculty
Moura, Agata	Post Doc	MED-Int Med-Infect Disease	Faculty
	Fellow		
Sayson, Steven	PhD	Pathobiology and Molecular Medicine Program	Doctoral Graduate Student

Thank You!

We acknowledge the time and effort provided by many in planning and organizing this event.
Without the support of others, this symposium could not occur.

Special thanks:

- **Department of Internal Medicine, Department Chair**

John C. Byrd, MD

- **Vice Chair of Research**

Carl J. Fichtenbaum, MD

- **Symposium Judging Subcommittee Faculty Co-Chairs:**

Khurram Bari, MD and Satish K. Madala, PhD

- **Faculty and Research Scientist Judges**

- **The Administrative Team and its Members:**

COMMITTEE LEAD: Angela Duke

MEMBERS: Sarah Comello, Tiffany Polite, Tiffany Terelle, Jae'auna Felton and Yolanda Wess.