

# The Department of Medicine 2024 Research Symposium Speakers



**Dr. Susan Hedayati**



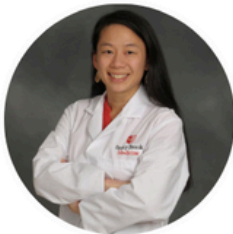
**Dr. Charles Vorkas**



**Dr. Abhijeet Singh**



**Dr. Neda Dianati-Maleki**



**Dr. Rachel Wong**



**Dr. Christopher Clarke**



**Dr. Karam Aboudehen**

**Lunch 12-1 PM**

**Introductory Remarks: Dr. Vincent Yang and Dr. Marie Gelato**

**1-1:35 PM**

**Introduction: Dr. Sandeep Mallipattu**

**Keynote Speaker: Dr. Susan Hedayati**

**"EHR-Driven Disease Registries: The Urine Dipstick Project"**

**1:35pm-2:35 PM**

**Pilot Project Awardee Presentations**

**Session Chair: Dr. Andreas Kalogeropoulos**

**Dr. Charles Vorkas**

**"Innate lymphocyte responses to human Mycobacterium tuberculosis infection"**

**Dr. Abhijeet Singh**

**"Low dose Cochlaine Use After Atrial Fibrillation Ablation: A Randomized, Double Blinded, Placebo Controlled Trial (Cochline AF Trial)"**

**Dr. Neda Dianati-Maleki**

**"Role of Left Atrial Strain Parameters in Diagnosis of Left Ventricular Diastolic in Individuals with Preserved Systolic Function"**

**2:35 PM Coffee Break**

**2:50-4:05 PM**

**Faculty Presentations**

**Session Chair: Dr. Sian Piret**

**Dr. Rachel Wong**

**“Observational Research Using EHR Data:  
Insights on COVID-19 and Diabetes from the National COVID Cohort  
Collaborative”**

**Dr. Christopher Clarke**

**“Serum and plasma sphingolipids as biomarkers of  
anthracycline-induced cardiotoxicity”**

**Dr. Karam Aboudehen**

**“The Role of lncRNA in Autosomal Dominant Polycystic Kidney Disease”**

**4:05 PM**

**Wine & Cheese/Poster Session & Judging**

**Chair: Dr. Jignesh Patel**

**Postdoctoral Associates & Graduate Students**

**5:00 PM**

**Poster Awards and Concluding Remarks**

**Dr. Vincent Yang**

**The Department of Medicine**  
**2024 Research Symposium**  
**Abstracts from**  
**Graduate Students, Undergraduate Students, Research Staff**

**Arshia Arasappan**

**“Defining MR1 Ligands Derived from Mycobacterium tuberculosis”**

**Mentor: Charles Vorkas**

**Isabel Hernandez Flores**

**“Quantification of Autoantibodies During Human Babesiosis and Lyme Disease”**

**Mentor: Charles Vorkas**

**Komala Ingle**

**“Radiation injury alters the epigenetic programs of the intestinal epithelium with ensuing regeneration”**

**Mentor: Agnieszka Bialkowska**

**Sahaana Kesavan and Catalina Vera**

**“The novel imipridone TR-107 inhibits colorectal and pancreatic cancers in various culture conditions”**

**Mentor: Agnieszka Bialkowska**

**Rabina Lakha**

**“Mechanism of Sonic Hedgehog activation in intestinal epithelial cells following ionizing radiation injury”**

**Mentor: Agnieszka Bialkowska**

**The Department of Medicine  
2024 Research Symposium**

**Abstracts from  
Graduate Students, Undergraduate Students, Research Staff**

**Deanna Peperno**

**“Dihydroceramide desaturase 1 (des1) as a regulator of caspase 14 is required for anchorage-independent survival and metastasis of her2-positive and basal breast cancer”**

**Mentor: Christopher Clarke**

**Nina Cintron Pregosin**

**“Rapid podocyte loss triggers the formation of intercellular bridges”**

**Mentor: Sandeep Mallipattu**

**Asha Rath**

**“Resistance to Aristolochic Acid-Induced Acute Kidney Injury in Female Mice”**

**Mentor: Sian Piret**

**William Sander**

**“The Potential Role of CBP/p300 Histone Acetyltransferase in Altering the Epigenetic Landscape of the Injured Intestine”**

**Mentor: Agnieszka Bialkowska**

**Danielle Xie**

**“The Role of MR1-Restricted T Cell Immunity in Blood Cancers”**

**Mentor: Charles Vorkas**



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**Abstracts from**  
**Post-doctoral Associates**

**Louis Delinois**

**“Development of a mouse model of disrupted kidney branched-chain amino acid catabolism”**

**Mentor: Sian Piret**

**Samaneh DiMartino**

**“Sex differences in branched chain amino acid (BCAA) catabolism in primary kidney proximal tubule cells”**

**Mentor: Sian Piret**

**Nehaben Gujarati**

**“Understanding the role of podocyte-specific ApoJ in attenuating proximal tubular injury in diabetic kidney disease”**

**Mentor: Sandeep Mallipattu**

**Alka Kumari**

**“Itaconic Acid Increases Antifungal Efficacy of Primary Bone Marrow-Derived Macrophages Against Cryptococcus neoformans”**

**Mentor: Bettina Fries**

**Kanti Mihooliya**

**“Bioprocessing and Immunological Characterization of Klebsiella pneumoniae K-Antigen Polysaccharide Conjugates as Potential Vaccine Candidates”**

**Mentor: Bettina Fries**



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**Abstracts from**  
**Post-doctoral Associates**

**Antonio Novaes**

**“GQ-16, a Selective PPAR $\gamma$  Modulator, Reduces Kidney Damage in Murine Models of Rapidly Progressive Glomerulonephritis”**

**Mentor: Shipra Agrawal**

**Atul Pradhan**

**“Immune responses during babesiosis and Lyme co-infection”**

**Mentor: Charles Vorkas**

**Kaur Rimanpreet**

**“Host Immunity during acute human babesiosis: Single-Cell Transcriptome of Peripheral Blood Mononuclear Cells”**

**Mentor: Charles Vorkas**