



Health Sciences

Research Day

April 26, 2024

Mini Symposia

Session 1 1:45-2:45pm

Clinical Research and Informatics 1 - 2117 MERF

Molecular Investigations - 2189 MERF

Session 2 3:00-4:00pm

Clinical Research and Informatics 2 - 2117 MERF

Neuroscience Highlights - 2189 MERF

Mini Symposia - 2117 MERF

Session 1 - Clinical Research and Informatics 1

Moderated by Boyd Knosp, MS

- 1:45 **Daniel Dagle** "Predictive Modeling Using Continuous Vital Sign Monitoring Can Identify a Hemodynamically Significant Patent Ductus Arteriosus in Preterm Neonates"
- 1:57 **Rachel Fitzjerrells** "Machine learning approach identifies dysbiotic oral communities in multiple sclerosis"
- 2:09 **Donna Santillan, PhD** "Developing Infrastructure to Facilitate Women's Health Research"
- 2:21 **Lindsey Knake, MD, MS** "A pilot study evaluating the sole use of continuous ventilator and vital sign data to predict extubation success in neonates"
- 2:33 **Natany da Costa Ferreira Oberfrank, PhD, RN** "Uncovering Patients' Motives for Heart Failure Symptom Self-Management: Content Validation of a Novel Questionnaire"

Session 2 - Clinical Research and Informatics 2

Moderated by Boyd Knosp, MS

- 3:00 **Heath Davis, MS** "The Iowa Health Data Resource (IHDR): an Innovative Framework for Transforming the Clinical Health Data Ecosystem at the University of Iowa"
- 3:12 **Diva Kerkman** "A Case Study Data Governance for Sharing and Access to Real-World Data at Ulowa Healthcare"
- 3:24 **Heather Reisinger, PhD** "Tracking Implementation Strategies in Real-World Settings: VA Office of Rural Health Enterprise Wide Initiative Portfolio."
- 3:36 **Tao Xu** "Clinical Associations between Peptide Receptor Radionuclide Therapy with Renal and Hematological Toxicities and Survival in Patients with Neuroendocrine Tumors: An Analysis from Two U.S. Medical Centers"
- 3:48 **Tony Pomaes, PhD** "A qualitative study of staff perceived need for and barriers to adopting a telehospitalist-led intervention to improve inpatient management of alcohol withdrawal syndrome at a rural VA hospital"

Mini Symposia - 2189 MERF

Session 1 - Molecular Investigations

Moderated by Shane Heiney, PhD

- 1:45 **Akansha Jain** "Mitochondrial uncoupling proteins protect human airway epithelial ciliated cells from oxidative damage"
- 1:57 **Grace Ciampa** "Examining the Function of a Novel Protein in the Cardiac Junctional Membrane Complex"
- 2:09 **Colin Clark** "Cardiac Sodium Current Composition and Remodeling in Murine Ventricular Myocytes"
- 2:21 **Misty Perez** "Regulation of Alcohol Consumption by FGF21"
- 2:33 **Adam Rauckhorst, PhD** "Transamination networks contribute to hypoxic succinate production"

Session 2 - Neuroscience Highlights

Moderated by Charles Yeaman, PhD

- 3:00 **Andrew Kain** "Regulation of Delta Glutamate Receptors by Noradrenaline"
- 3:12 **Brittany Todd** "Microglial specific type I Interferon signaling mediates antigen presentation and neuronal loss following traumatic brain injury"
- 3:24 **Angela Smith** "Exploring the Role of Descending Dopamine Pain Modulation in the Transition to Chronic Pain"
- 3:36 **Erik Zorrilla** "Cannabinoids and Migraine"
- 3:48 **Marshal Jahnke** "Acid-Sensing Ion Channels Contribute to Alcohol Tolerance"

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