

## ***Pioneering Pathways: Innovative Trial Design in Translational Science***

**7:45am–4:00pm**      **Registration**

**8:30–8:40am**      **Welcome (Ballroom)**  
**Katherine Hartmann, MD, PhD**  
Professor, Department of Obstetrics & Gynecology  
Director, Center for Clinical and Translational Science  
University of Kentucky

**8:40–8:45am**      **Keynote Speaker Introduction**  
**William Stoops, PhD, Conference Chair**  
Associate Vice President for Research Integrity  
Dr. William R. Willard Professor in Behavioral Science  
University Research Professor  
Department of Behavioral Science  
University of Kentucky

**8:45–9:45am**      **Morning Keynote (Ballroom)**  
**“Intervention Optimization: An Innovative Paradigm for Translational Science”**  
**Linda Collins, PhD, FSBM, FSRNT**  
Professor of Social & Behavioral Sciences and Biostatistics  
Director, Center for Advancement and Dissemination of Intervention Optimization  
School of Global Public Health  
New York University

**9:45–10:15am**      **BREAK**

**10:15–11:30am**      **Breakout Session – Novel Clinical Trial Designs: Opportunities and Challenges  
(Meeting Room 9A)**

**Hilary L. Surratt, PhD, Session Co-Moderator**  
Associate Professor, Department of Behavioral Science, College of Medicine  
University of Kentucky

**Jamie L. Sturgill, PhD, Session Co-Moderator**  
Assistant Professor, Department of Microbiology, Immunology, and Molecular Genetics,  
College of Medicine, University of Kentucky

**10:15**      ***“A SMART Approach to Personalized Cognitive Behavioral Therapy”***  
**Shannon Sauer-Zavala, PhD**, Associate Professor, Department of Psychology,  
University of Kentucky; **Matthew W. Southward, PhD**, Assistant Professor, Department  
of Psychology, The Ohio State University

**10:35**      ***“COVID-19 Platform Trials: A Tale of Two Studies”***  
**Jamie L. Sturgill, PhD**, Assistant Professor, Department of Microbiology, Immunology,  
and Molecular Genetics, College of Medicine, University of Kentucky

**10:55 “Community Clinical Trials: Using Cluster Randomized Trials to Assess Community-Level Vaccination Interventions”**

**Marc T. Kiviniemi, PhD MBA**, Professor, Health Behavior and Society, College of Public Health, University of Kentucky; Kathryn M. Cardarelli, PhD MPH; Emily Slade, PhD; Diane Francis, PhD; Amy Herrington, DNP, RN, CEN, CNE; Anna Hoover, PhD; Kevin Pierce, MD; Jamie Sturgill, PhD; Rachel Gillespie, MS, University of Kentucky

**11:15 “Optimizing PrEP Care Delivery through Adaptive Intervention Strategies for Underserved Rural People Who Inject Drugs: A SMART Design”**

**Hilary L. Surratt, PhD**, Associate Professor, Department of Behavioral Science, College of Medicine, University of Kentucky; Elizabeth M. Arnold, PhD, Laura C. Fanucchi, MD, Philip Westgate, PhD, University of Kentucky; Christie Green, MPH, Cumberland Valley District Health Department; Rebecca Rains, MSW, Knox County Health Department; Nikita L. Vundi, DrPH, Madison County

**10:15–11:30am**

**Breakout Session – Pragmatic Trials: Facilitating the Translation of Evidence into Practice (Meeting Room 9B)**

**Laurie McLouth, PhD, Session Co-Moderator**

Assistant Professor, Department of Behavioral Science, College of Medicine  
University of Kentucky

**Mary E. Lacy, PhD, Session Co-Moderator**

Assistant Professor, Department of Epidemiology and Environmental Health, College of Public Health  
University of Kentucky

**10:15 “Overview of Pragmatic Trials”**

**Mary E. Lacy PhD**, Assistant Professor, Department of Epidemiology and Environmental Health, College of Public Health, University of Kentucky

**10:25 “Improving the Quality of Cancer Care through Pragmatic Trials”**

**Timothy W. Mullett, MD, MBA, FACS**, Professor, Division of Cardiothoracic Surgery, College of Medicine, University of Kentucky

**10:40 “Clinic Practitioner and Support Staff Perceptions of Implementation Strategies to Increase Patient Referrals to DSMES”**

**Aaron J. Kruse-Diehr, PhD**, Associate Professor, Department of Family & Community Medicine, College of Medicine, University of Kentucky

**10:55 “Key Ingredients to Successful Pragmatic Trials: Adaptation and Advocacy”**

**Matthew L. Bush, MD, PhD, MBA, FACS**, Professor and Chair, Department of Otolaryngology - Head and Neck Surgery, College of Medicine, University of Kentucky

**11:10 Discussant**

**Laurie McLouth, PhD**, Assistant Professor, Department of Behavioral Science, College of Medicine, University of Kentucky

**11:20 Question & Answer**

Audience/Panel

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Tuesday, April 1, 2025

Central Bank Center

### 10:15–11:30am Breakout Session – Institute for Biomedical Informatics Oral Presentation Session (Meeting Room 11)

#### **Jeffery Talbert, PhD, Session Moderator**

Professor, Division Chief for Biomedical Informatics, College of Medicine  
Director, Institute for Biomedical Informatics  
University of Kentucky

#### **10:15 “Probing the Neural Bases of Individual Differences in Reward Sensitivity: Applications of Machine Learning Methods”**

**Alison Schreiber, PhD**, Assistant Professor, Department of Psychiatry, College of Medicine, University of Kentucky

#### **10:35 “Muscle Ultrasound is Ideally Suited for Optimal Evaluation of Functional Recovery after Critical Illness”**

**Sanjay Dhar, MD**, Department of Internal Medicine, College of Medicine, University of Kentucky

#### **10:55 “Prompting Medical Vision-Language Models to Mitigate Diagnosis Bias by Generating Realistic Dermoscopic Images”**

**Nursat Munia, BS**, Graduate Student, Department of Computer Science, Stanley and Karen Pigman College of Engineering, University of Kentucky

#### **11:15 “VAMP8-Dependent Platelet Secretion Drives Aneurysm Progression: Insights from Clinical and Experimental Models”**

**Shayan Mohammadmoradi, PhD**, Postdoctoral Scholar, Department of Molecular and Cellular Biochemistry, College of Medicine, University of Kentucky

### 10:15–11:30am Breakout Session – Introducing Advarra eSource+EDC: CRSO's New Research Tool for Study Teams (Meeting Room 12)

#### **Panel:**

**Eric Bucholz, PhD**, Research System Administrator

**Marlene Starr, PhD**, Associate Professor and Chief, Division of Research, Department of Surgery

**Jessica Heskell, MBA**, Executive Director CRSO

**Hany Elkholy, PMP**, Markey Cancer Center Research System Educator

**Stephanie Cason, CCRP**, Research System Educator

**Joy Kimbrough, BSN, RN, CCR, MBA**, Clinical Research Nurse Coordinator, Department of Surgery

**Teressa Roberts, MBA, RN, BSN, OCN, CCRP**, Clinical Research Nurse Manager, Markey Cancer Center

**Ashley Tabor**, Data Management Analyst Senior

#### **10:15 eSource+EDC Overview**

#### **10:50 System Demo**

#### **11:05 Question & Answer**

**10:15–11:30am Breakout Session – Community-Driven Success: Engagement through Cooperative Extension (Meeting Room 13)**

**Jennifer L. Hunter, PhD, Session Co-Moderator**

Acting Associate Vice President for Land-grant Engagement  
Director, School of Human Environmental Sciences, University of Kentucky  
Assistant Extension Director, Family and Consumer Sciences  
Extension Professor, Human Environmental Sciences

**Alison Davis, PhD, Session Co-Moderator**

Assistant Vice President for Land-grant Engagement  
Executive Director, Blueprint Kentucky  
Extension Professor, Agricultural Economics

**10:15 *Panel Discussion***

**Nicole Breazeale, PhD**, Associate Extension Professor, Community and Leadership Development

**Alex Elswick, PhD**, Assistant Extension Professor, Substance Use Prevention and Recovery

**Rachel Guidugli, EdD**, Assistant Extension Director for 4-H Youth Development

**Katherine Jury**, Senior Extension Specialist, Family and Community Health

**Mark Mains, PhD**, Extension Director for Workforce and Engagement, Blueprint Kentucky

**Heather Norman-Burgdolf, PhD**, Associate Extension Professor, Dietetics and Human Nutrition

**Kayla Watts**, Area Extension Director, Extension Field Programs

**10:15–11:30am Breakout Session – Modern Adaptive Trial Design (Meeting Room 14A)**

**Kert Viele, PhD, Session Moderator**

Director of Research, Berry Consultants

**10:15 *“Platforms, RAR, Enrichment, and More: A Review of Current Trends in Adaptive Design”***

**Corrine Elliott, PhD**, Statistical Scientist, Berry Consultants

**10:35 *“A Case Study in Adaptive Design: The STEP Platform Trial”***

**Eva Mistry, MD, MSc**, Associate Professor, Neurology and Rehabilitation, University of Cincinnati

**10:55 *“Adaptive Vaccine Trials: COVID and Post-COVID”***

**Kurt Viele, PhD**, Director of Research, Berry Consultants

**11:15 *Open Discussion***

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**10:15–11:30am Opportunities in AI to Change Study Design Approaches: An Interdisciplinary Discussion Panel (Meeting Room 14B)**

**Katherine Thompson, PhD, Moderator**

Associate Professor, Dr. Bing Zhang Department of Statistics

College of Arts and Sciences

Principal Investigator, Artificial Intelligence and Machine Learning Hub

University of Kentucky

**10:15 *Introduction of the UK AI/ML Hub and Panelists***

**10:30 *Panel Discussion***

**Ken Campbell, PhD**

Professor, College of Medicine, Department of Internal Medicine

Director of Translational Research, Division of Cardiovascular Medicine

Director, CCTS Biospecimens Core

Director, Gill Cardiovascular Biorepository

University of Kentucky

**Zeya Wang, PhD**

Assistant Professor, Dr. Bing Zhang Department of Statistics, College of Arts and Sciences

Co-Investigator, Artificial Intelligence and Machine Learning Hub

University of Kentucky

**Cody Bumgardner, PhD**

Director, Center for Applied Artificial Intelligence in the Institute for Biomedical Informatics

Assistant Dean, Artificial Intelligence and Data Science, College of Medicine

Associate Professor

University of Kentucky

**Lina Sharab, DDS**

Associate Professor, Division of Orthodontics

Director of the Craniofacial Biology Externship Program

College of Dentistry

University of Kentucky

**11:30am–12:15pm Frederick Douglass High School Poster Session (Ballroom 2)**

**11:30am–12:30pm Von Allmen Center for Entrepreneurship Poster Pitch Competition (Ballroom Stage)**

**11:30am–1:00pm Lunch (Ballroom)**

**11:30am–1:00pm Poster Sessions (Ballrooms 2–3 & Lobby)**

**1:00–1:15pm BREAK**

**1:00–2:40pm College of Health Sciences Research Day (Meeting Room 10)**

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- 1:15–1:45pm**      **Awards and Recognitions (Ballroom)**  
**Philip A. Kern, MD**  
Professor and University Research Professor  
Department of Internal Medicine, Division of Endocrinology  
College of Medicine  
Co-Director, Center for Clinical and Translational Science  
University of Kentucky
- 1:15–2:45pm**      **College of Dentistry Research Day Donald E. Knapp Memorial Lecture (Meeting Rooms 7 & 8)**
- 1:45–1:50pm**      **Keynote Speaker Introduction (Ballroom)**  
**William Stoops, PhD, Conference Chair**  
Associate Vice President for Research Integrity  
Dr. William R. Willard Professor in Behavioral Science  
University Research Professor  
Department of Behavioral Science  
University of Kentucky
- 1:50–2:45pm**      **Afternoon Keynote (Ballroom)**  
**“Contemporary Clinical Trials: Current Advances and the Role of AI”**  
**Chris Lindsell, PhD**  
Professor of Biostatistics & Bioinformatics  
Director, DCRI Biostatistics  
Co-Chief, Division of Biostatistics & Bioinformatics  
Duke University
- 2:45–3:00pm**      **BREAK**
- 3:00–4:00pm**      **Poster Session – College of Health Sciences (Lobby)**
- 3:00–5:00pm**      **Poster Session – College of Dentistry (Ballroom 3)**
- 3:00–5:00pm**      **College Research Days**  
Internal Medicine Research Day (Meeting Room 13)  
College of Nursing Scholarship Showcase (Meeting Room 9B)  
College of Medicine Research Day (Meeting Room 12)
- 3:00–5:00pm**      **CCTS Clinical Research Oral Presentation Session (Meeting Room 14A)**  
  
**Victoria King, PhD, Session Co-Moderator**  
Associate Professor, Department of Internal Medicine  
College of Medicine  
Career Development Director, Center for Clinical and Translational Science  
University of Kentucky  
  
**Lauren Whitehurst, PhD, Session Co-Moderator**  
Assistant Professor, Department of Psychology, College of Arts and Sciences  
Director of Team Science, Center for Clinical and Translational Science  
Associate Director, Center for Health, Engagement, and Transformation

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University of Kentucky

- 3:00** ***“Catalyzing Community Action through Precision Public Health Analytics”***  
**Margaret McGladrey, PhD**, Assistant Professor, College of Public Health, University of Kentucky
- 3:15** ***“Prevalence of Housing Insecurity Among Hospitalized Patients”***  
**Lynden Bond, PhD**, Assistant Professor, College of Social Work, University of Kentucky
- 3:30** ***“Buprenorphine Utilization Following Removal of Prior Authorization Requirements in the Kentucky Medicaid Population”***  
**Dustin Miracle, PharmD, PhD**, Postdoctoral Fellow, Department of Biostatistics, College of Public Health, University of Kentucky
- 3:45** ***“Protocol for Assessing the Impact of a Plant-Based Diet for Diabetes Prevention: Pilot Study”***  
**Kayla Anderson, MPH**, Graduate Student, Department of Pharmacology and Nutritional Sciences, College of Medicine, University of Kentucky
- 4:00** ***“Culturally Targeting Infographic Messages to Increase Alzheimer’s Prevention Among Black Adults”***  
**Yolanda Jackson, MS**, Graduate Student, College of Communication and Information, University of Kentucky
- 4:15** ***“Neonatal Intensive Care for Queer (NICQu) Families: An Update from the NICQu Families Research Team”***  
**Olivia Yinger, PhD**, Professor, School of Music, College of Fine Arts, University of Kentucky
- 4:30** ***“Evaluating Cannabidiol as a Novel Therapeutic in the Treatment of Subarachnoid Hemorrhage”***  
**Saif Ahmed, BS**, Medical Student, College of Medicine, University of Kentucky
- 4:45** ***“Pancreatic Amylin as a Novel Biomarker for Pancreatitis-related Diabetes”***  
**Nirmal Verma, PhD**, Assistant Professor, Department of Pharmacology and Nutritional Sciences, College of Medicine, University of Kentucky

**3:00–5:00pm**

### **CCTS Translational Science Oral Presentation Session (Meeting Room 9A)**

**Joel Thompson, PhD, Session Co-Moderator**

Chief Scientific Officer

Center for Clinical and Translational Science

University of Kentucky

**Yosra Helmy, PhD, Session Co-Moderator**

Assistant Professor, Department of Veterinary Science

Martin-Gatton College of Agriculture, Food and Environment

University of Kentucky

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- 3:00** ***“Estrogen Receptor Alpha Regulates the Liver Circadian Clock in Female Mice”***  
**Victoria Alvord, MS**, Graduate Student, Department of Biology, College of Arts and Science, University of Kentucky
- 3:15** ***“The Impact of Highly Effective Modulator Therapies (HEMTs) on the ABCG5 ABCG8 Sterol Transporters”***  
**Meredith Campbell, BS**, Graduate Student, Department of Physiology, College of Medicine, University of Kentucky
- 3:30** ***“Liposomal Clodronate Causes Macrophage Depletion Following Severe High-thoracic Spinal Cord Injury”***  
**Sajeev Kaur, PhD**, Postdoctoral Scholar, Spinal Cord and Brain Injury Research Center, College of Medicine, University of Kentucky
- 3:45** ***“Mapping Of Noradrenergic Neurons in Adult Offspring with Prenatal Fentanyl Exposure Using Light-Sheet Microscopy”***  
**Analia Loria Kinsey, PhD**, Associate Professor, Department of Pharmacology and Nutritional Sciences, College of Medicine, University of Kentucky
- 4:00** ***“Plasminogen Activator Inhibitor-1 Deficiency Augments Hypertension-induced Cardiac, But Not Aortic Pathology in Mice”***  
**Alex Pettey, BS**, Graduate Student, Department of Physiology, College of Medicine, University of Kentucky
- 4:15** ***“Enhancing TIL Efficacy in NSCLC through Epigenetic Reprogramming and Computational Modeling”***  
**Daniel Plaughter, PhD**, Postdoctoral Fellow, Department of Toxicology and Cancer Biology, College of Medicine, University of Kentucky
- 4:30** ***“UKY-86 as a Novel Pharmacological Treatment for Methamphetamine Use Disorder (MUD)”***  
**Mallory Wardell**, Undergraduate Student, Department of Psychology, College of Arts and Sciences, University of Kentucky
- 4:45** ***“Maternal Opioid Use with and without HCV Infection Disrupts the Structure and Immune Landscape of Placenta”***  
**Heather True, PharmD**, Graduate Student, Department of Microbiology, Immunology, and Molecular Genetics, College of Medicine, University of Kentucky

### **3:00–5:00pm**      **Institute for Biomedical Informatics Oral Presentation Session (Meeting Room 11)**

#### **Jeffery Talbert, PhD, Session Moderator**

Professor, Division Chief for Biomedical Informatics, College of Medicine  
Director, Institute for Biomedical Informatics  
University of Kentucky

#### **3:00**      ***“Advancing Research and Innovation Through AI”***

**Samuel Armstrong, MS**, Software Engineer, Institute of Biomedical Informatics Center for Applied AI, University of Kentucky

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- 3:15** ***"Predicting Adverse Effects for Antifibrotic Therapy in Pulmonary Fibrosis Using Large Digital Twins."***  
**Ishanu Chattopadhyay, PhD**, Assistant Professor, College of Medicine, University of Kentucky
- 3:30** ***"Physician Assistant Student Attitudes Toward the Utilization of AI to Enhance Psychiatry Skill Development"***  
**Yuyan Xia, PhD**, Postdoctoral Scholar, Department of Physical Therapy and **Cheryl Vanderford, MPAS, PA-C**, Assistant Professor, Department of Physician Assistant Studies, College of Health Sciences, University of Kentucky
- 3:45** ***"Quality Assessment of AI-Generated Response to Patient-Reported Information Gaps Regarding HPV Oropharyngeal Cancer"***  
**Patrick Bidros, BA**, Medical Student, College of Medicine, University of Kentucky
- 4:00** ***"Swin-KAT: Advancing Swin Transformer with Kolmogorov-Arnold Network for CT Image Quality Assessment"***  
**Kazi Ramisa Rifa, BS**, Graduate Student, Department of Computer Science, Stanley and Karen Pigman College of Engineering, University of Kentucky
- 4:15** ***"Multi-Omic and Biochemical Profiling of Heart Failure Specimens at the University of Kentucky"***  
**Austin Minton, BS**, Graduate Student, Departments of Physiology and Internal Medicine, College of Medicine, University of Kentucky
- 4:30** ***"The Applicability of Google Lens in Dermatology: A Retrospective Diagnostic Accuracy Study in Over 150 Patients"***  
**Mindy Baker, BS**, Medical Student, Department of Dermatology, College of Medicine, University of Kentucky

**3:00–5:00pm**

### **Examining Lived Experiences and Health: Research Findings from DREAM/SPARK Scholars (Meeting Room 14B)**

#### **Adebola Adegboyega, PhD, Session Co-Moderator**

Assistant Professor, College of Nursing  
University of Kentucky

#### **Lovoria B. Williams, PhD, APRN-BC, FAANP, FAAN, Session Co-Moderator**

Professor, College of Nursing, University of Kentucky  
Associate Director, Sally Humphrey Research Professor Cancer Health Equity, Markey Cancer Center  
Associate Director, Center for Clinical and Translational Science  
University of Kentucky

#### **Darlingtona Esiaka, PhD, Session Co-Moderator**

Assistant Professor  
Department of Behavioral Sciences  
University of Kentucky

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**3:00** ***“The Relationship among Perceived Environmental Exposures, Socioeconomic Factors, and Chronic Disease Outcomes”***

**Mandy Dickerson**, Undergraduate Student, College of Public Health, University of Kentucky

**3:15** ***“The Impact of Adverse Childhood Experiences on COVID-19-Related Stress and Mental Health in Emerging Adults”***

**Botshelo Angoma**, Undergraduate Student, College of Arts and Sciences, University of Kentucky

**3:30** ***“A Collaborative Model for Diabetes Education: Connecting RDNs and Promotores de Salud”***

**Eduardo Soria Chiroque**, Undergraduate Student, College of Arts and Sciences, University of Kentucky

**3:45** ***“The Impact of Adultification Bias on Self-Image and Academic Success Among Black Women”***

**Keyoncee Washington**, Undergraduate Student, Kentucky State University

**4:00** ***“Genetic Risk and Perceived Neighborhood Disorder with Dementia Across Diverse Populations: Results from All of Us”***

**Xian Wu, PhD**, Postdoctoral Scholar, Department of Biostatistics, College of Public Health, University of Kentucky

**4:15** ***“A Meta-analysis of Labor Determinants and Sleep Health across the Lifespan”***

**Jillian Silva-Jones, MA**, Graduate Student, Department of Psychology, College of Arts and Sciences, University of Kentucky

**4:00–5:00pm**

**Poster Session – College of Nursing (Ballroom 3)**

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### College of Medicine Research Day

**11:30–1:00pm Poster Session (Ballrooms 2 & 3)**

**1:15–1:45pm Awards & Recognition**

**1:45–2:45pm Keynote Presentation**

**“Contemporary Clinical Trials: Current Advances and the Role of AI”**

**Chris Lindsell, PhD**

Professor of Biostatistics & Bioinformatics

Duke University

**3:00–5:00pm College of Medicine Research Day Oral Presentations (Meeting Room 12)**

**Rebecca Dutch, PhD, Session Co-Chair**

Vice Dean of Research

Professor, Department of Molecular and Cellular Biochemistry

College of Medicine

University of Kentucky

**Andrea McCubbin, MPH, Session Co-Chair**

Associate Dean for Research Administration

College of Medicine

University of Kentucky

**3:00 “Hematological and Cytokine Alterations in a Rat Model of Sepsis Survivor following Spinal Cord Injury”**

**Tanisha Garg**, Undergraduate Student, University of Kentucky

**3:15 “Frailty in Chronic Pancreatitis Linked to Worse Inpatient Outcomes”**

**Radmila Choate, PhD**, Faculty, Department of Epidemiology & Environmental Health,  
College of Public Health, University of Kentucky

**3:30 “Timeline of B Cell Maturation in the Skull, Femur, and Dura After Ischemic Stroke in Mice”**

**Annabel McAtee, BS**, MD/PhD Student, Department of Neuroscience, College of  
Medicine, University of Kentucky

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**3:45** ***“Conserved cis-regulatory elements are critical for circadian regulation of human ion channel gene promoters in the heart”***

**Ezekiel Rozmus, BS**, Graduate Student, Department of Physiology, College of Medicine, University of Kentucky

**4:00** ***“Distal Interlocking Screw Backout in New-Generation Retrograde Femoral Nails: A Retrospective Comparative Study”***

**Kameron Kraus, BS**, Medical Student, College of Medicine, University of Kentucky

**4:15** ***“Cardiac remodeling, recognition memory deficits and accelerated aging in rat females with prior gestational diabetes?”***

**Vivek Pandey, PhD**, Post-doctoral Scholar, Department of Pharmacology and Nutritional Sciences, College of Medicine, University of Kentucky

**4:30** ***“Variants of Unknown Clinical Significance (VUSs) in Pediatric Cancer Patients at the University of Kentucky”***

**Alexander Graden, BS**, Medical Student, College of Medicine, University of Kentucky

**4:45** ***“Dim Light at Night Causes a Loss in the 24-hour Rhythm of Heart Rate in db/db Mice?”***

**Abhilash Prabhat, PhD**, Post-doctoral Scholar, Department of Physiology, College of Medicine, University of Kentucky

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### Department of Internal Medicine Research Day

**11:30am–1:00pm** Poster Session (Ballrooms 2 & 3)

**3:00–5:00pm** Department of Internal Medicine Research Day (Meeting Room 13)

**3:00** **Welcome**

**Darwin Conwell, MD**

Chair, Department of Internal Medicine

**3:05** **Introductory Remarks**

**Simon Fisher, MD, PhD**

Vice-Chair for Research, Department of Internal Medicine  
Chief, Division of Endocrinology, Diabetes and Metabolism  
Director, Barnstable Brown Diabetes Center

**3:10–3:55** **Department of Internal Medicine Research Presentation**

Scientific presentations co-chaired by:

**Barbara Nikolaczyk, PhD**

Associate Vice Chair for  
Basic Research

**Kirby Mayer, DPT, PhD**

Associate Vice Chair for  
Clinical Research

**3:10** **“Deletion of Carnitine Palmitoyltransferase 1a from Adipocytes Leads to Insulin Resistance in Female Mice”**

**Nikitha Dharanipragada**

Undergraduate Student  
Department of Physiology

**3:25** **“Edaravone Protects the Hippocampus from Brain Damage Following Insulin-Induced Severe Hypoglycemia**

**Andrea Thompson, BS**

Graduate Research Assistant  
Department of Pharmacology and Nutritional Sciences

**3:40** **“Cdkn2a Variants exacerbate DNA Damage-Associated Myocardial Fibrosis in Various Cardiomyopathies”**

**Nastaran Daneshgar, MD, PhD**

Postdoctoral Research Fellow  
Department of Internal Medicine, Division of Cardiovascular Medicine

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- 3:55**      **“From Acute Coronary Syndromes and Cardiomyopathy to Fatal Arrhythmias: Re-challenging 5-Fluoropyrimidine Cardiotoxicity”**  
**Shyla McMurtry, MD**  
Resident  
Department of Internal Medicine
- 4:10**      **“Obesity-Associated Inflammatory Responses are Significantly Modified by Insulin Sensitivity and Sex”**  
**Aida Javidan, PhD**  
Scientist II  
Department of Pharmacology and Nutritional Sciences
- 4:25**      **“Evaluation of Privacy-Focused Endoscopy Data Extraction Using a Lightweight Open-Source Local Language Model”**  
**Rebecca Fine**  
Medical Student
- 4:40**      **“PAQR4 impacts liver metabolic remodeling by mediating ceramide levels and hepatokine signaling”**  
**Qingzhang Zhu, PhD**  
Assistant Professor  
Department of Internal Medicine and Barnstable Brown Diabetes Center
- 4:55**      **Closing Remarks**

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### College of Health Sciences Research Day

**1:00–4:00pm**      **College of Health Sciences Research Day (Meeting Room 10)**

**1:00**      **Welcome Remarks**

**Brian Noehren, PT, PhD, FACSM**, Associate Dean for Research, College of Health Sciences, University of Kentucky

**1:05**      ***“Disuse Atrophy, Muscle Rehabilitation and Therapeutic Opportunities in Older Adults”***

**Micah Drummond, PhD**

Professor

Department of Physical Therapy and Athletic Training

Director of Graduate Studies, Rehabilitation Sciences

Molecular Medicine Program

University of Utah

**1:35**      ***“Prevention Is the Best Policy”***

**Lindsay DiStefano, PhD, ATC, FNATA**

Professor

Associate Vice President of Research Development

University of Connecticut

**2:05**      ***“Development and Direction of the Differential Diagnosis Project”***

**Ryan Hunton, DHSc, PA-C**

Assistant Professor

Department of Physician Assistant Studies

University of Kentucky

**2:20**      ***“Identifying Disparities of Rehabilitation Delivery in Survivors from Critical Illness”***

**Felipe Gonzalez Seguel, PT, MSc**

PhD Student – Rehabilitation Sciences Program, College of Health Sciences

University of Kentucky

**2:30**      **Panel Discussion**

**Brian Noehren, PT, PhD, FACSM, Moderator**

Micah Drummond, Lindsay DiStefano, Ryan Hunton, Felipe Gonzalez Seguel

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**3:00–4:00pm**      **Poster Session (Main Street Lobby)**

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### **College of Nursing Scholarship Showcase**

#### **3:00–4:00pm Podium Presentations (Meeting Room 9B)**

##### **3:00 Welcome Remarks**

**Amanda Fallin-Bennett, PhD, RN**

Associate Professor, College of Nursing, University of Kentucky

##### **3:10 *“Mothers Perception of Hospital Adherence to the Ten Steps to Successful Breastfeeding Predicts EBF in Latinx Mothers”***

**Jordyn Frapolly**, Undergraduate Student, College of Nursing, University of Kentucky

##### **3:25 *“Primary Nurse Framework: All-Registered Nurse Staff Model in Trauma Surgical and Abdominal Transplant Critical Care Unit”***

**Jeanette Sanders**, DNP Nursing Student, College of Nursing, University of Kentucky

##### **3:40 *“Family functioning is associated with dietary behaviors in Latino(a) adults at risk for T2D and CVD”***

**Natalie Hawes**, PhD Nursing Student, College of Nursing, University of Kentucky

##### **3:55 Closing Remarks**

**Amanda Fallin-Bennett, PhD, RN**

Associate Professor, College of Nursing, University of Kentucky

#### **4:00–5:00pm Poster Presentations (Ballroom)**

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### **College of Dentistry Research Day**

**1:15–2:45pm**    **Donald E. Knapp Memorial Lecture (Meeting Rooms 7 & 8)**

**Luciana M. Shaddox, DDS, MS, PhD, Session Chair**

Associate Dean of Research

Professor, College of Dentistry

University of Kentucky

***“The Use of Biobanks and Innovative Trial Designs in Dentistry”***

**Luigi Nibali**

Lead of the Centre for Host-Microbiome Interactions (CHMI)

Co-Lead of the Oral Clinical Research Centre (OCRU)

Professor of Periodontology/Honorary Consultant/Academic Lead

Director of Postgraduate Programme in Periodontology

King's College London, London, UK

**3:00–5:00pm**    **Poster Session (Ballrooms 2 & 3)**