

Dissemination & Implementation Across the Translational Spectrum

Held in conjunction with:

- **College of Dentistry Research Day**
- **College of Engineering – Biomedical Engineering Research Day**
- **College of Health Sciences Research Day**
- **College of Nursing Scholarship Showcase**
- **College of Medicine Research Day**
- **College of Public Health Research Day**
- **Institute for Biomedical Informatics Research Day**

Conference Chair: Aaron Kruse-Diehr, PhD

Associate Professor, Department of Family and Community Medicine
Associate Director for Implementation Science, Center for Health Services Research
Co-Director, CCTS Center for Implementation, Dissemination & Evidence-based
Research (CIDER)
University of Kentucky

7:45am-4:00 pm Registration

8:30-9:00 am Welcome – Ball Room 1

Welcome Remarks

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

Opening Remarks and Plenary Speaker Introduction

Aaron Kruse-Diehr, PhD

9:00-10:00 am Plenary Session – Ballroom 1

“Implementation Science Explained: What it Is and What it Does”

Geoffrey M. Curran, PhD

Endowed Chair in Pharmacy Practice Innovation
Professor, Departments of Pharmacy Practice and Psychiatry
Director, Center for Implementation Research
University of Arkansas for Medical Sciences

10:00-10:15 am BREAK

10:00-11:00 am Frederick Douglass High School Poster Session – Main Street Lobby

19th Annual CCTS Spring Conference

Tuesday, April 9, 2024

Central Bank Center

10:15-11:30 am Breakout Session – Dissemination and Implementation Research in Substance and Alcohol Use Disorders – Meeting Room 13

William Stoops, PhD, Session Co-Moderator

Professor, Department of Behavioral Sciences
College of Medicine
University of Kentucky

Anne Ray, PhD, MEd, Session Co-Moderator

Associate Professor, Department of Health, Behavior and Society
College of Public Health
University of Kentucky

10:15 ***“The EMPOWER Project: Evaluating Faith-based Harm Reduction with Implementation Science”***

Rachel Vickers-Smith, PhD, Assistant Professor, Department of Epidemiology and Environmental Health, College of Public Health, University of Kentucky

10:35 ***“Perspectives From Campus Partners on the Adaptation of Evidence-based Interventions to Reduce College Student Alcohol Use and Related Behaviors”***

Anne Ray, PhD, MEd, Associate Professor, Department of Health, Behavior and Society, College of Public Health University of Kentucky

10:55 ***“Adapting Evidence-based HIV Prevention Services for Rural People Who Inject Drugs”***

Hilary Surratt, PhD, Associate Professor, Department of Behavioral Science, College of Medicine University of Kentucky

11:15 ***“Implementation of Overdose Education and Naloxone Distribution in the HEALing Communities Study”***

Patricia Freeman, RPh, PhD, Professor, Department of Pharmacy Practice and Science, College of Pharmacy, University of Kentucky

10:15-11:30 am Breakout Session – Dissemination and Implementation Research in Cancer Meeting Room 12

Pam Hull, PhD, Session Moderator

Associate Professor, Department of Behavioral Science
William Stamps Farish Endowed Chair in Cancer Research
College of Medicine
University of Kentucky

10:15 ***“Satisfaction with #HPVaxTalks Intervention Among Young African American (AA) and Sub-Saharan African Immigrant (SAI)”***

Abubakari Wuni, RN, Graduate Student, College of Nursing, University of Kentucky

10:35 ***“Measuring the Impact of an Open Source Data Tool for Cancer Centers”***

Todd Burus, MAS, Data Visualization Specialist, Markey Cancer Center, College of Medicine, University of Kentucky

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10:55 ***“Accelerating Colorectal Cancer Screenings Through Implementation Science in Appalachia Improves Screening Compliance”***
Megan Harper, MD, PhD, Medical Resident, Preventive Medicine, Department of Family and Community Medicine, College of Nursing, University of Kentucky

11:15 ***“Improving the Implementation of HPV Vaccination Guidelines in Pediatric Primary”***
Pam Hull, PhD, Associate Professor, Markey Cancer Center, College of Medicine, University of Kentucky

10:15-11:30 am Breakout Session – Dissemination and Implementation Research in Community Settings – Meeting Room 11

Melinda Ickes, PhD, Session Moderator
Professor, Department of Kinesiology and Health Promotion
College of Education
University of Kentucky

10:15 ***“Comparing Bingocize Engagement in Kentucky's Rural and Urban Nursing Home Sites”***
Jana Michalik, MS, Graduate Student, Department of Kinesiology and Health Promotion, College of Education, University of Kentucky

10:30 ***“Co-Designing the Families Moving Together Intervention with Community Stakeholders for Low-Income Families and Children”***
Abby Cecil, BPH, Graduate Student, College of Health Sciences, University of Kentucky

10:45 ***“Leveraging the EPIS Framework to Describe Implementation of a Pre-release Telehealth Intervention for Incarcerated Women”***
Martha Tillson, PhD, Research Scientist, Center on Drug and Alcohol Research, University of Kentucky

11:00 ***“Make or Break: Examining the Impact of Support Personnel in School-Based Speech-Language Telepractice”***
Hannah Douglass, MS, CCC-SLP, Graduate Student, Department of Communication Sciences & Disorders, College of Health Sciences, University of Kentucky

11:15 ***“Health Programming for Skilled Nursing Residents Provides Preliminary Evidence for Improving Aging Attitudes in Staff”***
Kylee Pipgrass, MPH, Project Coordinator, Department of Kinesiology and Health Promotion, College of Education, University of Kentucky

10:15-11:30 am Breakout Session – Dissemination & Implementation Research in Primary and Clinical Care Settings – Meeting Room 9A

Karen Roper, PhD, Session Moderator
Assistant Professor, Department of Family and Community Medicine
College of Medicine

10:15 ***“Provider and Staff Education Surrounding Universal HCV Screening and Linkage to Care in an Ambulatory Care Setting”***
Lauren Guilfoil Clifford, RN, BSN, DNP Student, College of Nursing, University of Kentucky

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10:30 ***“Results of a Mixed-Methods Study to Inform a Patient Navigation Program for Hearing Healthcare in Rural Kentucky”***

Laura Bellnier, MPH, Research Project Manager, Department of Otolaryngology, College of Medicine, University of Kentucky

10:45 ***“An Educational Intervention on Provider Knowledge of Hypertension Guidelines”***

Alison Oesterritter, RN, DNP Student, College of Nursing, University of Kentucky

11:00 ***“Ask-Advise-Connect in Family Medicine: Promising Outcomes for Patients and Clinic Staff in Diverse Primary Care Settings”***

Bethany Shorey Fennell, PhD, Assistant Professor, Assistant Professor, Department of Family and Community Medicine, College of Medicine, and Markey Cancer Center, University of Kentucky

11:15 ***“Early Evidence from a Pragmatic Trial to Increase Uptake of Diabetes Self-Management Education and Support in Primary Care Clinics in Kentucky”***

Beth Lacy, PhD, Assistant Professor, Department of Epidemiology, College of Public Health, University of Kentucky

10:15-11:30 am **Institute for Biomedical Informatics Oral Presentation Session – Meeting Room 10**

Jeffery Talbert, PhD, Session Moderator

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

10:15 ***“Fourier Feature Contrastive Learning for Enhanced IHC Image Translation”***

Archibald Cohen, PhD, Graduate Student, Department of Computer Sciences, College of Medicine, University of Kentucky

10:35 ***“AI-Powered Segmentation of Muscle Tissue using Bedside Ultrasound”***

Arimitsu Horikawa-Strakovsky, High School Student, Paul Lawrence Dunbar High School, Lexington, KY

10:55 ***“Generative Diffusion Model for Mitigating Racial Biases in Dermatology Diagnosis”***

Nursat Munia, BS, Graduate Student, Department of Computer Science, College of, University of Kentucky

10:15-11:30 am **Health Equity Research and Science Oral Presentation Session – Meeting Room 9B**

Lauren Whitehurst, PhD, Session Co-Moderator

Assistant Professor, Department of Psychology
College of Arts & Sciences
University of Kentucky

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Elizabeth Rhodus, PhD, Session Co-Moderator

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

- 10:15** *“Health Care for Incarcerated Individuals: Teaching medical students about rights, challenges, and avenues of advocacy”*
Sarah Hieneman, BS, Medical Student, College of Medicine, University of Kentucky (DREAM Scholar/PSMRF Program)
- 10:30** *“Chronic Conditions with Hearts and Ears in Appalachia Research Study (CCHEARS)”*
Maddie Duff, Undergraduate Student, College of Medicine, University of Kentucky (SPARK Program)
- 10:45** *“Uterine Fibroids: Understanding the illness condition”*
Treasure Ebikwo, Undergraduate Student, Department of Behavioral Science, College of Medicine, University of Kentucky (SPARK Program)
- 11:00** *“Implementing an RCT with Spanish-Speaking Latinx Families in Lexington Kentucky: Recognizing and Aligning with Diversity”*
Sheila Barnhart, PhD, Associate Professor, College of Social Work, University of Kentucky (DREAM Scholar)
- 11:15** *“Culturally Tailored Messaging for Alzheimer’s Screening: Insights from Rural Black Adults in Kentucky”*
Yolanda Jackson, MS, RD, LD, Graduate Student, College of Medicine, University of Kentucky (TL1 Pre-doctoral Trainee)

10:15-11:30 am CCTS Clinical Research Oral Presentation Session – Meeting Room 14A

Victoria King, PhD, Session Moderator

Associate Professor, Department of Internal Medicine
College of Medicine
Career Development Director, Center for Clinical and Translational Sciences
University of Kentucky

- 10:15** *“Trauma Exposure, PTSD Symptoms, and Treatment Barriers among Women on Probation and Parole with Histories of Opioid Use”*
Caitlyn Hood, PhD, Assistant Professor, Department of Psychiatry, College of Medicine, University of Kentucky
- 10:30** *“People with Marfan Syndrome Ambulate with Altered Joint Mechanics Associated with Hip Pain”*
Mariana Jacobs, MS, Graduate Student, Department of Kinesiology and Health Promotion, College of Education, University of Kentucky
- 10:45** *“Community Pharmacy based Surveillance of SARS-Cov-2: A Pilot Collaborative Study”*
Lien Qasrawi, BS, PharmD/MSPS Student, College of Pharmacy, University of Kentucky

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11:00 *“Can Virtual Reality Exergaming Reduce Neuroinflammation and Improve Recovery in Stroke Patients?”*

Amber Schifano, BS and Madison Webster, BS, Medical Students, College of Medicine, University of Kentucky

11:15 *“Sociodemographics factors and tuberculosis among migrants and ethnic minorities: A Kentucky Experience”*

Fawaz Mohammed, MD, Medical Resident, College of Medicine Bowling Green, University of Kentucky

10:30-11:30 am **Von Allmen Center 60-Second Poster Pitch Competition – Main Street Lobby**

Warren O. Nash III, JD

Executive Director, Von Allmen Center for Entrepreneurship

Mariam Gorjian

New Ventures Manager, Von Allmen Center for Entrepreneurship

11:30-11:45 am **BREAK**

11:45 am-1:15pm **Lunch – Ball Room 1**

11:50 – 11:55 **Opening Remarks**

Phil Kern, MD

11:55 – 12:05 **Keynote Speaker Introduction**

Linda Gorton, RN, Mayor Lexington Fayette Urban County Government

12:05 – 12:50 **Keynote Presentation**

“Innovation Uptake in the Heart of Tobacco Country: Implementation Science at a Glance”

Ellen Hahn, PhD, RN, FAAH

Professor Emeritus

College of Nursing

University of Kentucky

12:50 – 1:15 **CCTS Awards and Recognitions**

Philip A. Kern, MD

1:15-1:30 pm **Break**

1:30-3:00 pm **College Research Days**

College of Dentistry Research Day – **Meeting Room 12**

College of Health Sciences Research Day – **Meeting Room 13**

College of Nursing Scholarship Showcase – **Meeting Room 9A**

College of Public Health Research Day – **Meeting Room 9B**

College of Medicine Research Day – **Meeting Room 11**



Accelerating discoveries to improve healthSM

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1:30-3:00 pm Institute for Biomedical Informatics Oral Presentation Session – Meeting Room 10

Jeffery Talbert, PhD, Session Moderator

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

1:30 ***“Leveraging Genetic Associations and Machine Learning to Predict Disease Risk”***

Justin Miller, PhD, Assistant Professor, Department of Pathology, College of Medicine,
University of Kentucky

1:55 ***“Self-service Tabular Machine Learning”***

Aaron Mullen, BS, Graduate Student, Department of computer Sciences, Institute of
Biomedical Informatics, University of Kentucky

2:20 ***“Self-service Large Language Models”***

Cody Bumgardner, PhD, Associate Professor, Department of Pathology, College of Medicine,
University of Kentucky

Mitchell Klusty, BS, Graduate Student, Department of Computer Science, Institute for
Biomedical Informatics, University of Kentucky

1:30-3:00 pm Community Leadership Institute of Kentucky (CLIK) Program & Community Engaged Research Oral Presentation Session – Meeting Room 14A

Aaron Kruse-Diehr, PhD, Session Co-Moderator

Associate Professor, Family and Community Medicine
College of Medicine
University of Kentucky

Fran Feltner, DNP, Session Co-Moderator

Director, Center of Excellence in Rural Health
College of Medicine
University of Kentucky

1:30 ***“University-Community Partners Build Innovative Rural Health Workforce Pipelines ”***

Fran Feltner, DNP, Director, Center for Excellence in Rural Health

1:45 ***“Seeds of Nutrition”***

Abbi Hager, Mental Health/Substance Abuse Educator, Juniper Health Inc., West Liberty, KY

2:00 ***“Use of Remote Patient Monitoring to Support Treatment Compliance in CHF Patients in Rural Appalachia”***

Jennifer Hardin, PA-C, Director, HomeCare Services, St. Claire HealthCare, Morehead, KY

2:15 ***“Diabetes Self-Management Education & Support Group Classes via Distance Learning for Allen County Primary Care Clinic”***

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Sarah Widener, RD, Director of Community Wellness, Medical Center Health and Wellness, Bowling Green, KY

2:30 *“Instituting a clinical research program in a rural hospital”*

Mike Brunet, PhD, ATC, Director of Clinical Research, St. Claire HealthCare, Morehead, KY

2:45 *CLIK Graduation Ceremony*

1:30-3:00 pm **CCTS Scholar Translational Science Oral Presentations Session – Meeting Room 14B**

Joel Thompson, PhD, Session Co-Moderator

Research Development Director
Center for Clinical and Translational Science
University of Kentucky

Julie Pendergast, PhD, Session Co-Moderator

Associate Professor, Department of Biology
College of Arts and Sciences
University of Kentucky

1:30 *“Astrocyte Reactivity and Interleukin Biomarkers link with Regional Brain Thickness and Volumes in Older Adults”*

Maria Clark, BS, Medical Student, College of Medicine, University of Kentucky

1:45 *“Single nuclear analyses reveal compromised integrity of neuromuscular junction myonuclei following joint injury”*

Nicholas Thomas, MS, Graduate Student, Department of Rehabilitation Sciences, College of Health Sciences, University of Kentucky

2:00 *“Short term Unilateral Lower Limb Suspension Reduces Motor Unit Firing Frequency during Isometric Knee Extension”*

Lance Bollinger, PhD, Associate Professor, Department of Kinesiology and Health Promotion, College of Education, University of Kentucky

2:15 *“Estrogen receptor alpha regulates the sex difference in jet lag in mice”*

Maria Venegas, BS, Graduate Student, Department of Biology, College of Arts and Sciences, University of Kentucky

2:30 *“Integration of Gene and Lipid Profiles in Metabolically-driven Human Hepatocellular Carcinoma Tumor and Adjacent Tissue”*

Garrett Anspach, BHS, MD/PhD Student, College of Medicine, University of Kentucky

2:45 *“Using deep long-read RNAseq in Alzheimer’s disease brain to assess medical relevance of RNA isoform diversity”*

Bernardo Aguzzoli Heberle, BS, PhD Candidate, Department of Neuroscience & Sanders-Brown Center on Aging, College of Medicine, University of Kentucky

3:00-5:00 pm

Poster Session – Ballrooms 2 & 3

Thomas Kelly, PhD, Session Chair

Robert Straus Professor of Behavioral Science, College of Medicine

Director, Workforce Development Core, Center for Clinical and Translational Science

University of Kentucky

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1:30-3:00pm **College of Medicine Research Day – Meeting Room 11**

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

1:30 ***“Exploring Isoform Signatures Across Human Brain Regions and Stimulated CD8+ T-Cells with Long-Read Single Cell RNA-seq”***

Patricia Doyle, BS, Graduate Student, Department of Neuroscience, College of Medicine, University of Kentucky

1:45 ***“Two-Years After Lower Extremity Fracture, Early Psychosocial Factors Predict Physical Function and Return to Work Status?”***

William Charlton, BS, Medical Student, Department of Orthopaedics and Sports Medicine, College of Medicine, University of Kentucky

2:00 ***“Enhancing Immunotherapy by Modulating MLH1 Phosphorylation with ABL Kinase Inhibitors”***

Breanna Knicely, BS, Graduate Student, Department of Toxicology and Cancer Biology, College of Medicine, University of Kentucky

2:15 ***“Pre-existing Hypertension Amplifies Cerebrovascular Pathology After Traumatic Brain Injury”***

Dominic Nthenge, PhD, Post-doctoral Scholar, Department of Physiology, SCoBIRC, College of Medicine, University of Kentucky

2:30 ***“Mapping Pseudouridine Modifications in the Transcriptome of the Human Brain through Long-Read Direct RNA Sequencing”***

Grant Fox, BS, Graduate Student, Department of Neuroscience, College of Medicine, University of Kentucky

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2:45 *“Could Sex Differences Affect the Correlations Between Fluid Biomarkers and White Matter Hyperintensities?”*

Ahmed Bahrani, PhD, Assistant Professor, Department of Neurology, College of Medicine, University of Medicine

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

Thomas Kelly, PhD, Session Chair

Robert Straus Professor of Behavioral Science, College of Medicine

Director, Workforce Development Core, Center for Clinical and Translational Science

University of Kentucky

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1:30-2:30pm **College of Dentistry Research Day – Meeting Room 12**

Luciana M. Shaddox, DDS, MS, PhD, Session Chair
Associate Dean of Research
Professor, College of Dentistry
University of Kentucky

1:30 ***“Too Tired to Sleep; Associations of Poor Sleep and Fatigue to Chronic Orofacial Pain”***

Ian A. Boggero, PhD, Assistant Professor, Department of Oral Health Science, College of Dentistry, University of Kentucky

2:00 ***“Oral Mucosa Wound Healing: A Step Toward Precision Therapy”***

Mauro Pedrine Santamaria, DDS, MSc, PhD, Assistant Professor, Center for Oral Health Research, College of Dentistry, University of Kentucky

2:30:00-5:00pm **Poster Session (Ballrooms 2 & 3)**

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1:00-3:00pm **College of Nursing Student Scholarship Research Day – Meeting Room 9A**

Martha Biddle PhD, APRN, CCNS, FAHA, Session Chair

Associate Professor, Chair of Student Scholarly Affairs

Co-Director, RICH Heart Program

College of Nursing, University of Kentucky

1:00 **Welcome & Keynote**

Adebola Adegboyega, Assistant Professor,

College of Nursing, University of Kentucky

BSN program:

1. **Emily Seng, “A Description of Intimate Partner Violence Encounters”**, Advisors- Dr. Elizabeth Salt & Dr. Amanda Wiggins
2. **Victor Yates, “Impact of Sleep Quality and Heart Failure: A Dyadic Qualitative Study”**, Advisor- Dr. Jia-Rong Wu

DNP Program

1. **Victoria Pierce, “Improving Dental Students’ Knowledge and Confidence in Treating Tobacco Use”**
2. **Ashley Williams, “Improving Education on Routine Echocardiograms in Reducing Right-sided Heart Failure when Managing VV-ECMO Patients”**

PhD Program

1. **Ashmita Thappa, “The Interaction of Self-Care and Psychosocial Factors in Predicting Quality of Life in Patients with Heart Failure”**, Advisor- Dr. Debra Moser
2. **Islam Alhusban, “Effects of Antioxidants on Oxidative Stress among Adults with Coronary Artery Disease: A Systematic Review”**, Advisors- Dr. Martha Biddle & Dr. Misook Chung

2:30 **Recognition of Faculty Mentors**

2:45 **Closing Remarks**

3:00-5:00pm **Poster Session**

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1:30-3:00pm **College of Health Sciences Research Day – Meeting Room 13**

1:30 **Welcome Remarks**

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

1:35 ***“Alterations in Tongue Muscle Function with Aging and Alzheimer’s Disease”***

Nadine Connor, PhD

Professor and Oros Family Chair in Communication Sciences & Disorders
Associate Vice Chancellor for Research Policy & Compliance
University of Wisconsin-Madison

2:00 ***“Clinician and Clinician Scientist Driven Research in Orthopedic Rehab”***

Linda Snyder-Mackler, PT, ScD, FAPTA

Alumni Distinguished Professor
University of Delaware,

2:25 ***“Insights from My First Federally Funded Clinical Trail with Military Populations”***

Matt Hoch, PhD, ATC

Associate Professor
Associate Director, Sports Medicine Research Institute
University of Kentucky

2:45 **Panel Discussion**

Brian Noehren, PT, PhD, FACSM, Moderator

Nadine Connor, PhD, Lynn Snyder-Mackler, PhD, ScD, FAPTA, Matt Hoch, PhD, ATC

3:00-5:00pm **CCTS/CHS Poster Session (Main Street Lobby)**

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1:30-4:00pm **College of Public Health Research Day – Meeting Room 9B**

- 1:30 PM – 1:45 PM Opening Remarks:
Heather Bush, PhD
Dean, College of Public Health
- 1:45 PM – 2:05 PM Anne Ray, PhD, MEd
Associate Professor, Department of Health Behavior and Society
Student perspectives on Project FRESH: A technology-driven approach to prevent alcohol-related sexual risk taking in college
- 2:10 PM – 2:25 PM Christopher J. McLouth, PhD
Assistant Professor, Department of Biostatistics
The Importance of Understanding Missing Data Assumptions in EHR based Clinical Research
- 2:30 PM – 2:45 PM Ketrell L. McWhorter, PhD, MBA
Assistant Professor, Department of Epidemiology and Environmental Health
Impact of Co-Exposures on Sleep and Cardiometabolic Health in a Rural Appalachia Pediatric Cohort
- 2:50 PM – 3:10 PM Elizabeth N. Riley, PhD
Assistant Professor, Department of Health Management and Policy
Psychological Safety and Secondary Traumatic Stress: the Role of Culture in Supporting a Child Welfare Workforce
- 3:15 PM – 3:30 PM Closing remarks Svetla Slavova, PhD
Interim Associate Dean of Research, College of Public Health 3:30 PM
- 3:30 PM - 4:00 PM Poster viewing and Networking