

“Physical Activity across the Lifespan”

Held in conjunction with:

- College of Dentistry Research Day
- College of Engineering Biomedical Research Day
- College of Health Sciences Research Day
- College of Public Health Research Day
- 31st Annual BGSFN Spring Neuroscience Day
- 34th Annual Symposium in Reproductive Science and Women’s Health

Conference Chair: **Charlotte Peterson, PhD**
Joseph Hamburg Endowed Professor
Associate Dean for Research
College of Health Sciences
Associate Director, CCTS
University of Kentucky

8:00-8:30 am **Registration and Continental Breakfast (BLUEGRASS BALLROOM)**

8:15 am **Welcome: Timothy S. Tracy, PhD, Provost, University of Kentucky**

8:30-10:30 am **Plenary Session: Promoting Physical Activity and Understanding its Benefits (BLUEGRASS BALLROOM)**

Charlotte Peterson, PhD, Session Chair

“National Exercise Clinical Trials Network”

Marcas Bamman, PhD
Professor and Director, Center for Exercise Medicine
Departments of Physiology & Biophysics, Medicine and Nutrition Sciences
Center for Exercise Medicine
University of Alabama, Birmingham

“Need to Lose Weight? Should You Exercise Too?”

Stephen P. Messier, PhD
Professor and Director, J. B. Snow Biomechanics Laboratory
Department of Health and Exercise Science
Wake Forest University

“Challenging Current Concepts of Treadmill Training for Neurological Patients”

Lumy Sawaki, MD, PhD
Associate Professor & Cardinal Hill Endowed Chair in Stroke and Spinal Cord Injury Rehabilitation
Department of Physical Medicine and Rehabilitation, College of Medicine
University of Kentucky
Director of Research, Cardinal Hill Rehabilitation Hospital

“Injury Mitigation and Performance Optimization Strategies for the Elite Tactical Athlete: The Special Forces Operator”

Scott M. Lephart, PhD
Professor and Dean
College of Health Sciences
University of Kentucky

10:30-10:45 am **Break**
** Biomedical Informatics session begins at 10:30 am – see schedule below

10:45 – 11:45 am **Breakout Sessions**

Physical Activity in Children (THOROUGHbred 1)

Jody Clasey, PhD, FACSM, Session Co-Chair

Kevin Pearson, PhD, Session Co-Chair

“Circadian Rhythms and Physical Activity in the Clay County School System”

Karyn Esser, PhD

Professor of Physiology, College of Medicine

Director, Center for Muscle Biology

University of Kentucky

Jody Clasey, PhD

Professor, Department of Kinesiology and Health Promotion

Director, Pediatric Exercise Physiology Laboratory and CCTS

Translational Assessment Service Core

University of Kentucky

“School-based Physical Activity and Behavioral, Academic and Mental Health Outcomes in Children”

Alicia Fedewa, PhD

Associate Professor, Department of Educational, School and Counseling Psychology

Heather Erwin, PhD

Associate Professor, Department of Kinesiology and Health Promotion

College of Education

University of Kentucky

“Impact of Maternal Exercise on Physiological Outcomes in Offspring”

Kevin Pearson, PhD

Associate Professor, Department of Pharmacology and Nutritional Sciences

College of Medicine

University of Kentucky

Physical Activity in Chronic Disease (THOROUGHbred 6-7)

Esther Dupont-Versteegden, PhD, Session Chair

“Community-based Exercise Program for Cancer Survivors: Opportunities and Challenges”

Esther Dupont-Versteegden, PhD

Associate Professor, Department of Rehabilitation Sciences

College of Health Sciences

University of Kentucky

“The Role of Exercise in Reducing Knee Pain in Older Adults”

Stephen P. Messier, PhD

Professor and Director, J. B. Snow Biomechanics Laboratory

Department of Health and Exercise Science

Wake Forest University

“Reducing CVD Risk in the Context of Multiple Cardiac Co-morbidities: The Role of Physical Activity”

Debra K. Moser, DNSc, RN, FAAN

Professor and Gill Endowed Chair

Director of Center for Biobehavioral Research in Self-Management of Cardiopulmonary Diseases

College of Nursing

University of Kentucky

Community Leadership Institute of Kentucky (CLIK) (THOROUGHBRED 8)

Nancy Schoenberg, PhD, Session Chair

Marion Pearsall Professor of Behavioral Science, College of Medicine

Associate Dean for Research, College of Public Health

University of Kentucky

“Promoting Healthy Living by Increasing Physical Activity”

Sandy Bowling

LKLP Community Action Council

“St. Joseph Martin/Floyd County Health Department Diabetes Partnership”

Neva Francis

Kentucky One Health, St. Joseph Martin

“Worksite Wellness-Focused on Diabetes”

Sandy Hogg

Kentucky Valley Education Cooperative

“Bright Smiles, Brighter Futures”

Stephen T. Richardson

Knott County Board of Education

“Improving Nutrition for SNAP Recipients through Cooking Skills”

Haley Siler

Barren River District Health Department

“Successful Women and Appalachian Girls Engage in Seeds of South Floyd: A Program Focusing on Greenhouse Gardening and Consumption with Middle and High School Girls”

Kelsey Tackett

Floyd County Schools

Biomedical Informatics (This session only: 10:30 am – 12:00 pm THOROUGHBRED 2)

“Virtual Unrolling: Non-Invasive Analysis of Written Material”

Brent Seales, PhD

Professor and Chair of Computer Science

College of Engineering

University of Kentucky

“Four Perspectives on Bioinformatics Research at UK”

Brent Seales, PhD, Moderator

Jinze Liu, PhD

Assistant Professor, Department of Computer Science

College of Engineering

University of Kentucky

Hunter Moseley, PhD

Associate Professor, Molecular and Cellular Biochemistry
Associate Director of Informatics, Resource Center for Stable Isotope-Resolved Metabolomics
College of Medicine
University of Kentucky

Jeffrey Talbert, PhD

Professor, Department of Pharmacy Practice and Science, College of Pharmacy
Director, Institute for Pharmaceutical Outcomes and Policy
Associate Director and Co-Director, Biomedical Informatics Core, Center for Clinical and Translational Science
Associate Director, Center for Health Services Research
University of Kentucky

Chi Wang, PhD

Assistant Professor, Division of Cancer Biostatistics, Department of Biostatistics, College of Public Health
Co-Leader, Bioinformatics Section, Biostatistics & Bioinformatics Shared Resource Facility, Markey Cancer Center
University of Kentucky

12:00 – 1:30 pm **Lunch and Keynote** (BLUEGRASS BALLROOM)

12:15 pm **Presentation of Certificate and Degree Recipients
Mentor Recognition Awards**

Philip A. Kern, MD

Professor of Internal Medicine, Division of Endocrinology
Director, Barnstable Brown Diabetes and Obesity Center
Director, Center for Clinical and Translational Science
Associate Provost for Clinical and Translational Science
University of Kentucky

12:30 pm **Keynote Address**

“Physical Inactivity as a Disease and How Much Exercise is Needed to Prevent It”

William E. Kraus, MD

Professor of Medicine, Biomedical Engineering, and Nursing
Duke University

1:45 – 3:15 pm **College- and Center-specific Research Days**

1:45 – 3:15 pm **CCTS Scholar Presentations** (THOROUGHBRED 8)

Victoria King, PhD, Session Co-Chair

Director, Career Development, Training Education and Mentoring (TEAM) Core
Center for Clinical and Translational Science
University of Kentucky

Matthew L. Bush, MD, Session Co-Chair

Assistant Professor, Division of Otolaryngology, Neurotology, & Cranial Base Surgery
Otolaryngology – Head & Neck Surgery
College of Medicine

“Perfusion Index (PI) Predicts the Effect of Red Blood Cell Transfusions (RBCtx) on Oxygenation in Preterm Infants”

Katrina T. Ibonia, MD, Fellow, Division of Neonatology, Department of Pediatrics, College of Medicine

“Family Perceptions and Experiences with the Early Hearing Detection and Intervention System in Rural Communities”

Julia T. Elpers, Medical Student, College of Medicine

“Irritability and Aggression as Indicators of Persistent Post-Concussive Symptoms in Adolescent Athletes”

Hannah L. Combs, Graduate Student, Department of Psychology, College of Arts & Sciences

“Preoperative Patient Factors Associated with Neuromuscular Quadriceps Function Prior to Anterior Cruciate Ligament Reconstruction”

Conrad M. Gabler, Graduate Student, Department of Rehabilitation Sciences, College of Health Sciences

“Advanced Cardiac Chemical Exchange Saturation Transfer (cardioCEST) - MRI for In Vivo Multi-color Cell Tracking and Myocardial Creatine Imaging”

Ashley Pumphrey, PhD, Post-Doctoral Scholar, Saha Cardiovascular Research Center, College of Medicine

“Big Data Analytics: Parallelization of Algorithms for Precision Medicine”

Sally R. Ellingson, PhD, Assistant Professor, Division of Biomedical Informatics, College of Public Health

3:30 – 5:30 pm **Poster Session and Afternoon Tea**

Thomas Kelly, PhD, Session Chair

Robert Straus Professor of Behavioral Science, College of Medicine
Associate Dean for Research, College of Nursing
Director, Training Education and Mentoring (TEAM) Core
Center for Clinical and Translational Science
University of Kentucky

3:30 – 5:30 pm **i2b2 Demonstrations (THOROUGHbred 8)
(Informatics for Integrating Biology and the Bedside)**