



FIRST ANNUAL

INDIANA NUTRITION *for* HEALTH RESEARCH SHOWCASE

📅 February 28, 2025 |
9:00 AM – 4:00 PM

📍 Stewart Center, 128 Memorial
Mall, West Lafayette, IN

🅑 Grant Street
Parking Garage

AGENDA

8:00 AM Registration and Poster Set Up
(Meeting: RM 218 ABCD; Posters: RM 302)

9:00 AM Welcome and Introductions: Laura
Murray-Kolb

SESSION 1: RESEARCH RESOURCES GROUP 1

9:05 AM Introduction to Indiana Clinical and
Translational Sciences Institute (CTSI)
research resources: Sharon Moe

9:20 AM Panel discussion on clinical research
centers across the State: Dennis
Savaiano, Laurie Trevino, Amy Wright,
Nana Gletsu Miller (chair)

9:40 AM Recruitment resources and All IN for
Health: Brenda Hudson

9:50 AM Research Jam – Patient Engagement
Core of the Indiana CTSI: Gina Claxton

10:00 AM Indiana Center for Musculoskeletal
Health Clinical Research Center
Resources: Sharon Moe

10:10 AM Purdue Extension Services and
Connections in Health: Donna Vandergraff

10:20 AM BREAK

SESSION 2: SCIENTIFIC PRESENTATIONS GROUP 1

Oral Abstract Presentations Session 1
(RM STEW 218 ABCD)

10:45 AM Airborne Biomarker Localization Engine
(ABLE) for Open Air Point-of-Care
Detection: Jingcheng Ma, Aerospace and
Mechanical Engineering, University of
Notre Dame

10:55 AM Effects of Replacing Solid Fats and
Added Sugars with Avocado in Adults
with Elevated Cardiometabolic Risk: A
Randomized Controlled Trial: Nana
Gletsu Miller, Applied Health Science,
Indiana University Bloomington

11:05 AM Leveraging CTSI Resources to Explore
the Effects of Beta-Caseins and
Bifidobacterium in Lactose
Maldigesters: Monica Ramakrishnan,
Nutrition Science, Purdue University

11:15 AM Fatty Acid Synthase-Derived Lipid
Stores Support Breast Cancer
Metastasis: Chaylen Andolino, Nutrition
Science, Purdue University

11:25 AM Systematic Modification by
Debranching and Cross-Linking Reveals
How Fine Structural Differences in
Maize Bran Arabinoxylans Can Affect The
Colonic Microbiome: Clay Swackhamer,
Food Science, Purdue University

11:35 AM Assessment of Food and Nutrition
Insecurity in Pediatric End-Stage
Kidney Disease (ESKD): A Single
Center's Study: Amma Boakye, Pediatric
Nephrology, Riley Hospital for Children

11:45 AM **Networking Lunch** (sponsored by the Purdue Department of Nutrition Science, The Indiana University School of Medicine, the Indiana University School of Public Health-Bloomington, and the Indiana Clinical and Translational Sciences Institute)

SESSION 3: RESEARCH RESOURCES GROUP 2

- 12:45 PM** **Data Resources to Advance your Research:** Rebecca Rivera
- 1:00 PM** **Social Determinants of Health – The Polis Center:** Karen Comer
- 1:10 PM** **Indiana University Center for Survey Research:** Ashley Clark
- 1:15 PM** **Resource Roundtables – Get your questions answered in person!**
- **Measuring Metabolites:** Purdue Bindley Center for Biosciences: Bruce Cooper
 - **Measuring the Microbiome:** Purdue Applied Microbiome Science and Purdue's Gnotobiotic Animal Facility: Arval Viji Elango and Tzu-Wen Cross
 - **Measuring Blood Biomarkers:** Center for Diabetes and Metabolic Diseases Translation Core: Bob Considine
 - **Analyzing Food Content:** Food Science: Bruce Hamaker and Senay Simsek
 - **Indiana CTSI Clinical Research Centers:** Laurie Trevino
 - **Indiana CTSI Resources:** Gina Claxton

SESSION 4: SCIENTIFIC PRESENTATIONS GROUP 2

- 2:00 PM** **Poster Session** – Authors present at even number posters (RM STEW 302)
- 2:30 PM** **Poster Session** – Authors present at odd number posters (RM STEW 302)
- Oral Abstract Presentations Session 2**
(RM STEW 218 ABCD)
- 3:00 PM** **Examining the Relation Between Dietary Sodium Indexed to Fiber and Heart Rate Variability in Apparently Healthy Adults:** Kallie Dawkins, Kinesiology, Indiana University Bloomington
- 3:10 PM** **Online Grocery Ordering System for Experimental Human Nutrition Research With High Participant Dietary Adherence:** Wayne Campbell, Nutrition Science, Purdue University
- 3:20 PM** **Validation of a Non-Invasive Method to Sample Small and Large Intestinal Content for Microbiome Research:** Fangxin Chen, Nutrition Science, Purdue University
- 3:30 PM** **Western Diet and Histone Modification in the Development of Steatohepatitis:** Ramkumar Katturajan, Biochemistry and Molecular Biology, Indiana University
- 3:40 PM** **Association Between MIND Diet Score and Cortical Thickness in an Aging Population:** Desarae Dempsey, Medical Neuroscience, Indiana University School of Medicine
- 3:50 PM** **Closing Remarks**

