



New Jersey Institute for Food, Nutrition, and Health

Rutgers, The State University of New Jersey
61 Dudley Road, New Brunswick, NJ 08901-8520

4th Annual IFNH RESEARCH DAY

November 04, 2022

Click here to register <https://forms.gle/ZyjfzB1kqEcodgFA9>

AGENDA

8:30-9:00 Refreshments

9:00-9:15 ***Welcome from the IFNH Director, M. Gloria Dominguez-Bello
Introduction IFNH Leadership***

9:15-12:20 ***Research Presentations***

9:15-9:50
Center for Childhood Nutrition Research Presentations
Chair: Daniel Hoffman

Where does our mathematical knowledge come from?

Jenny Wang, PhD
Department of Psychology & Center for Cognitive Science,
Rutgers University New Brunswick

Food insecurity in a national cohort of US children

Mark McGovern, PhD
Department of Health Behavior, Society and Policy,
Rutgers University School of Public Health - Newark

Impact of strategies to prevent intake of ultra-processed foods in childhood

Paola Seffrin Baratto
Department of Nutrition
Federal de Ciências da Saúde de Porto Alegre
Porto Alegre, Brazil

When the sugar runs out: transitioning agricultural systems and dietary diversity in Central Cuba

Victoria Ramenzoni
Department of Human Ecology, Rutgers University-New Brunswick

Research Update from the NJ Health Kids Initiative.

Erin Comollo, EdD and **Peggy Policastro**, PhD, RDN
New Jersey Healthy Kids Initiative (NJHKI)
New Jersey Institute for Food, Nutrition, and Health (IFNH)

9:50-10:25

Rutgers Center for Lipid Research
Chair: George M. Carman

Interaction sites of the Nem1-Spo7/Pah1 phosphatase cascade in yeast lipid synthesis

Ruta Jog
Carman Lab – Department of Food Science (SEBS)
Rutgers University-New Brunswick

A role for intestinal desaturases in modulating acute inflammatory responses

Camille Duchamp
Sampath Lab – Department of Nutritional Sciences (SEBS)
Rutgers University-New Brunswick

Ablation of liver fatty acid-binding protein (LFABP) drives hyperplastic expansion of subcutaneous adipose tissue

Anastasia Diolintzi
Storch and Sidosis Labs – Departments of Nutritional Sciences (SEBS)
and Kinesiology and Health (SAS)
Rutgers University-New Brunswick

Configurable Biomimetic Vesicles Sense Redox Lipid Environments

Liming Wang
Izgu Lab – Department of Chemical and Chemical Biology (SAS)
Rutgers University-New Brunswick

10:25-10:35

Break - 10 min

10:35-11:10

Center for Nutrition, Microbiome and Health Presentations
Chair: Liping Zhao



Microbiota-induced regulation of gamma delta intraepithelial lymphocyte function

Karen L. Edelblum

Edelblum Lab - Center for Immunity and Inflammation, Dept of Pathology,
Rutgers New Jersey Medical School

Excess estrogen affects gut metabolic function and microbiome

Liisa Veerus

Martin Blaser Lab – Center for Advanced Biotechnology & Medicine

Integration of multi-omics coral data under thermal stress

Timothy Stephens Debashish Bhattacharya Lab – Department of Biochemistry
and Microbiology, SEBS

Biomarkers of Vitamin B12 Status and the Human Gut Microbiome

Marijke Rittmann - Joshua W. Miller Lab – Department of Nutritional Sciences
(SEBS)

***Protective effect of a fiber formula on human gut microbiota against
microaerobic conditions in ex vivo fermentation.***

Yongjia Gong - Liping Zhao Lab – Department of Biochemistry and Microbiology
(SEBS)

The human microbiota in families across levels of urbanization

Wessam Mohamed - Dominguez-Bello Lab – Department of Biochemistry and
Microbiology (SEBS)

11:10-11:45

Center for Nutrition, Exercise and Metabolism

Chair: Sue Shapses

Dietary amino acid restriction and health span: concepts and controversies

Tracy Anthony, PhD - Department of Nutritional Sciences (SEBS)



The role of IL-6 in regulating level of vitamin D binding protein in surgical patients

Lingqiong Meng, MD, MS - Shapses and Wang Labs, Department of Nutritional Sciences (SEBS) and Department of Medicine (RWJ Medical School)

Can we use EEG to capture automatic associations of exercise-related images?

Andrew Ube, Bates and Alderman Labs, Department of Kinesiology and Health (SAS)

11:45-12:20

Center for Agriculture and Food Ecosystems

Chair: Jim Simon

Developing climate-resilient food security systems for the Federated States of Micronesia and a brief RUCAFE update

Jim Simon, and **Oscar Schofield**, Distinguished Professors, Dept Plant Biology and Chair, Dept. Marine & Coastal Sciences (SEBS)

Influence of Food Environments on Food Security Resilience during the COVID-19 Pandemic: An Examination of Urban and Rural Difference in Kenya.

Emily Merchant, PhD Candidate, - Simon and Hoffman Labs, Dept of Departments of Plant Biology and Nutritional Sciences (SEBS)

Food insecurity among Rutgers-New Brunswick students

Cara Cuite, Assistant Extension Specialist and Assistant Professor, Department of Human Ecology (SEBS)

Engaging farmers, culinary schools, and community members in value-added production to strengthen local food systems

Ethan D. Schoolman, Assistant professor, Department of Human Ecology (SEBS)

Engaging New Jersey underrepresented high school students in out-of-school STEM learning through collaborative storytelling with scientists

Marissa Staffen, 4-H County Agent, Department of 4-H Youth Development

12:20pm ***Closing remarks from the IFNH Director, M. Gloria Dominguez-Bello***



12:25-12:45pm *Lunch*

12:45-2:15pm ***Poster Session***

