



## **Challenges and Opportunities for Precision and Personalized Nutrition**

Food Forum Workshop

August 10 - 12, 2021

*All times in ET*

### **SESSION 1 (August 10)**

**10:00 AM**      **Welcome & Opening Remarks**  
**Eric Decker**, University of Massachusetts Amherst  
*Planning Committee Chair*

#### **Session 1: The Current Evidence Base and Limitations**

*Moderator: Cindy Davis*, U.S. Department of Agriculture  
*Planning Committee Member*

**10:10 AM**      **Human Variability – A Basis for Precision and Personalized Nutrition**  
**John Mathers**, Newcastle University

**10:30 AM**      **Precision Nutrition at the Intersection of History and Genomics**  
**Constance Hilliard**, University of North Texas

**10:50 AM**      **Integrating Microbiome and Dietary Data**  
**Abigail Johnson**, University of Minnesota

**11:10 AM**      **Opportunities and Obstacles in Precision Nutrition from an Engineering Perspective**  
**Christian Metallo**, Salk Institute

**11:30 AM**      **Psychosocial Influences on Eating Behavior**  
**Susan Carnell**, Johns Hopkins University

**11:50 AM**      **Integration of Multiple Omics**  
**Michael Snyder**, Stanford University

**12:10 PM**      **Q&A and Panel Discussion**

**1:00 PM**      **ADJOURN SESSION 1**



## **SESSION 2 (August 11)**

**10:00 AM**      **Summary of Day 1**  
**Cindy Davis**, U.S. Department of Agriculture  
*Planning Committee Member*

### **Session 2: Innovative Methodologies and Technologies**

*Moderator: Bruce Y. Lee*, CUNY Graduate School of Public Health & Health Policy  
*Planning Committee Member*

**10:15 AM**      **Industry Landscape in Personalized Nutrition**  
**Mariëtte Abrahams**, Qina

**10:40 AM**      **The Genetic Scale**

- **Denise Ney**, University of Wisconsin-Madison
- **Jim Kaput**, Vydiant
- **Ahmed El-Sohemy**, University of Toronto

**11:15 AM**      **The Physiology/Microbiome Scale**

- **Sarah Berry**, King's College London
- **Michal Rein**, Weizmann Institute of Science
- **Guru Banavar**, Viome

**11:50 AM**      **The Individual Scale**

- **Andres Acosta**, Mayo Clinic
- **Samantha Kleinberg**, Stevens Institute of Technology
- **Diana M. Thomas**, United States Military Academy at West Point

**12:25 PM**      **The Social-Ecological Scale**

- **Kayla de la Haye**, University of Southern California
- **Sean Duffy**, Omada Health
- **Michael Howell**, Google Health

**1:00 PM**      **ADJOURN SESSION 2**



### **SESSION 3 (August 12)**

**10:00 AM**      **Summary of Day 1 and Day 2**  
**Bruce Y. Lee**, CUNY Graduate School of Public Health & Health Policy  
*Planning Committee Member*

#### **Session 3: Implementation of Precision and Personalized Nutrition**

*Moderator: Robin McKinnon*, U.S. Food and Drug Administration  
*Planning Committee Member*

**10:15 AM**      **Will Precision Nutrition Help Us Achieve Greater Health Equity?**  
**Christina Roberto**, University of Pennsylvania

**10:30 AM**      **Challenges for Implementing Precision Nutrition**  
**Peter Lurie**, Center for Science in the Public Interest

**10:45 AM**      **Regulatory Perspective**  
**Rob Califf**, Verily Life Science

**11:00 AM**      **Commercializing Personal Nutrition**  
**Joshua Anthony**, Nlumnn

**11:15 AM**      **Health Claims Communications to the Public**  
**Martin Hahn**, Hogan Lovells

**11:30 AM**      **Incorporating Precision Nutrition into Food-Based and Nutrient-Based Guidelines**  
**Patsy Brannon**, Cornell University

**11:45 PM**      **Q&A and Panel Discussion**

**1:00 PM**      **ADJOURN SESSION 3**



### Workshop Planning Committee

**Eric A. Decker, Ph.D., M.S. (Chair)**

Professor  
Head of the Department of Food Science  
University of Massachusetts, Amherst

**Cindy Davis, Ph.D.**

National Program Leader for Human Nutrition  
Agricultural Research Service  
U.S. Department of Agriculture

**Katie Koecher, Ph.D.**

Nutrition Research Associate Expert  
Bell Institute of Health and Nutrition  
General Mills

**Bruce Y. Lee, M.D., M.B.A.**

Professor and Executive Director, Public Health  
Public Health Computational and Operations Research  
Center for Advanced Technology in Communications in  
Health  
City University of New York School of Public Health &  
Health Policy

**Josiemer Mattei, Ph.D., M.S., M.P.H.**

Donald and Sue Pritzker Associate Professor of Nutrition  
Harvard T.H. Chan School of Public Health

**Robin McKinnon, Ph.D., M.P.A.**

Senior Advisor for Nutrition Policy  
Center for Food Safety and Applied Nutrition  
U.S. Food and Drug Administration

**Nicholas J. Schork, Ph.D., M.A.**

Deputy Director and Distinguished Professor  
Translational Genomics Research Institute

**Patrick J. Stover, Ph.D.**

Vice Chancellor and Dean, Agriculture and Life Sciences  
Director  
Texas A&M University  
Texas A&M AgriLife Research

**Steven Zeisel, M.D., Ph.D.**

Professor of Nutrition and Pediatrics  
University of North Carolina at Chapel Hill  
UNC Nutrition Research Institute  
Founder, Board Member  
SNP Therapeutics

The Food Forum convenes scientists, administrators, and policymakers from academia, government, industry, non-profits, professional societies, and consumer groups on an ongoing basis to issues related to food (including safety, regulation, systems, nutrition, and health) and identifying approaches to address them. It provides a unique way to identify areas of concordance among these diverse interest groups. It does not make recommendations, nor does it offer specific advice. It compiles information, develops options, and brings interested parties together.

The Food and Nutrition Board (FNB) established the Food Forum in 1993 to allow selected science and technology leaders in the food industry, top administrators in the federal government, representatives from consumer interest groups, and academicians to periodically discuss and debate food and food related issues openly and in a neutral setting. The Forum provides a mechanism for these diverse groups to identify possible approaches for addressing food and food safety problems and issues surrounding the often complex interactions among industry, academia, regulatory agencies, and consumers.

About the FNB: The FNB falls within the Health and Medicine Division of the National Academies of Sciences, Engineering, and Medicine. The Academies are private, nonprofit institutions that provide independent, objective analysis and advice to the nation to solve complex problems and inform public policy decisions related to science, technology, and medicine. The Academies operate under an 1863 congressional charter to the National Academy of Sciences, signed by President Lincoln.