

Food Forum

Alternative Protein Sources: Balancing Food Innovation, Sustainability, Nutrition, and Health



WEDNESDAY, AUGUST 17, 2022

- 10:00 AM** **Welcome and Opening Remarks**
Rodolphe Barrangou, *North Carolina State University; Planning Committee Chair*
- Session 1: Current Protein Challenges**
Moderator: Naomi Fukagawa, U.S. Department of Agriculture; Planning Committee Member
- 10:10 AM** **The Role of Protein in the Diet**
Dennis Bier, *Baylor College of Medicine; U.S. Department of Agriculture/Agricultural Research Service Children's Nutrition Research Center*
- 10:30 AM** **Health and Nutritional Impacts of Increasing Alternative Protein Intake in the Diet**
Frank Hu, *Harvard University*
- 10:50 AM** **Q&A with Dennis Bier and Frank Hu**
- 11:10 AM** **Environmental Impacts of Increasing Alternative Protein Intake in the Diet**
Zach Conrad, *William & Mary*
- 11:30 AM** **Socio-Economic Impacts of Increasing Alternative Protein Intake in the Diet**
Jayson Lusk, *Purdue University; Planning Committee Member*
- 11:50 AM** **The Ethics of Alternative Proteins: Technology, Animals, and Sustainability**
Garrett Broad, *Fordham University (until September 2022); Rowan University (starting September 2022)*
Rob Chiles, *Penn State University*
- 12:10 PM** **Q&A with Zach Conrad, Jayson Lusk, Garrett Broad, and Rob Chiles**
- 12:30 PM** **LUNCH BREAK**

Session 2: Implications for the Industry, Consumers, and Regulators

Moderator: Patricia Williamson, Cargill; Planning Committee Member

- 1:30 PM** **Industry Implications of Alternative Protein Products**
Patrick Brown, *Impossible Foods*
- 1:50 PM** **Plant-Based Alternatives as Transition and Maintenance Foods**
Mark Messina, *Soy Nutrition Institute*
- 2:10 PM** **Consumer Perspectives**
Sherry Frey, *NielsenIQ*
- 2:30 PM** **Safety and Regulatory Perspectives**
Paul Hanlon, *Abbott Nutrition*
Jeremiah Fasano, *U.S. Food and Drug Administration*
Douglas Balentine, *U.S. Food and Drug Administration*
- 3:10 PM** **Q&A with All Session 2 Speakers**
- 3:40 PM** **ADJOURN DAY 1**

THURSDAY, AUGUST 18, 2022

- 10:00 AM** **Welcome and Workshop Recap**
Rodolphe Barrangou, *North Carolina State University; Planning Committee Chair*
- Session 3: Balancing Innovation within a Circular Food System**
Moderator: Nicole Tichenor Blackstone, Tufts University; Planning Committee Member
- 10:15 AM** **The Alternative Protein Landscape**
Liz Specht, *The Good Food Institute*
- 10:35 AM** **Plant-Based Foods**
D. Julian McClements, *University of Massachusetts Amherst; Planning Committee Member*
- 10:55 AM** **Cell-based and Cultured Meats**
David Kaplan, *Tufts University*
- 11:15 AM** **Q&A with Liz Specht, D. Julian McClements, and David Kaplan**
- 11:35 AM** **The Role of Processing in Creating Healthy and Sustainable Alternative Protein Products**
Panelists:
 - **Mario Ferruzzi**, *University of Arkansas for Medical Sciences*
 - **James House**, *University of Manitoba*
 - **Illeme Amegatcher**, *General Mills*
 - **Andrea Liceaga**, *Purdue University*
- 12:15 PM** **Q&A with Illeme Amegatcher, Mario Ferruzzi, Jim House, and Andrea Liceaga**
- 12:35 PM** **Final Panel Discussion with Planning Committee Members**
Panelists:
 - **Rodolphe Barrangou**, *North Carolina State University*
 - **Douglas Balentine**, *U.S. Food and Drug Administration*
 - **Nicole Tichenor Blackstone**, *Tufts University*
 - **Naomi Fukagawa**, *U.S. Department of Agriculture*
 - **Patricia Williamson**, *Cargill*
- 1:00 PM** **ADJOURN WORKSHOP**

WORKSHOP PLANNING COMMITTEE

Rodolphe Barrangou, Ph.D., M.S., M.B.A. (Chair)

Todd R. Klaenhammer Distinguished Professor in
Probiotics Research
Department of Food Bioprocessing and Nutrition
Sciences
North Carolina State University

Douglas Balentine, Ph.D.

Senior Science Advisor for Global Nutrition Policy
U.S. Food and Drug Administration

Nicole Tichenor Blackstone, Ph.D., M.S.

Assistant Professor
Division of Agriculture, Food, and Environment
Friedman School of Nutrition Science and Policy
Tufts University

Naomi K. Fukagawa, M.D., Ph.D.

Director
Beltsville Human Nutrition Research Center
Agricultural Research Service
U.S. Department of Agriculture

Jayson Lusk, Ph.D.

Department Head
Distinguished Professor
Department of Agricultural Economics
Purdue University

David Julian McClements, Ph.D.

Distinguished Professor
Department of Food Science
University of Massachusetts Amherst

D'Ann L. Williams, Dr.P.H., M.S.

Assistant Scientist
Department of Environmental Health and
Engineering
Center for a Livable Future
Johns Hopkins Bloomberg School of Public Health

Patricia Williamson, Ph.D., M.S.

Principal Scientist
Scientific and Regulatory Affairs
Cargill

Sally S. Wong, Ph.D., M.S., R.D., C.D.N., FAHA

Senior Science & Medicine Advisor
American Heart Association

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.