



Tuesday, April 13 – 8:00-10:00 am US Eastern Time

Session 1 – Food Systems Transformation

Introduction to the 2021 ILSI Symposium – ILSI Annual Symposium Chairs and ILSI Global Co-Chairs: **Kerr Dow**, PhD, Cargill Incorporated, United States (retired) and **Mike Doyle**, PhD, University of Georgia, United States (retired).

Dr. F. Kerr Dow is Co-Chair of the ILSI Global Board. He retired in 2020 as Vice President, Research and Development from Cargill Inc., where he led a scientific organization covering Technical Service, Research, Product & Process development, Scientific and Regulatory Affairs, Intellectual Asset Management and Food Applications, across North America, Europe, Latin America and Asia. Before joining Cargill in January 2007, Kerr held the position of Vice President, Global Innovation and Quality and Chief Technical Officer of the H.J. Heinz Company.



Dr. Michael P. Doyle is a retired Regent's Professor at the University of Georgia. He has published more than 500 scientific papers on food microbiology and food safety topics and has received many awards for his research accomplishments, including the Nicholas Appert Award of the Institute of Food Technologists. He is a fellow of the American Academy of Microbiology, the American Association for the Advancement of Science, the Institute of Food Technologists, the International Association for Food Protection, and the National Academy of Inventors, and is a member of the National Academy of Medicine. Dr. Doyle is the Co-Chair of the Global Board of Trustees of the International Life Sciences Institute and has also served for many years on the ILSI North America Board of Trustees.



Session 1 – Food Systems Transformation

Session Co-Chair: **Maha Tahiri**, PhD, Nutrition Sustainability Strategies LLC, United States

Maha Tahiri has 25 years of experience in the Food Sector with expertise in R&D, Health, and Nutrition. She is a food industry veteran, covering more than 25 categories of foods in 4 of the top 10 global food companies. Her career spans roles at the intersection of innovation, scientific research, regulatory and influencer communication. She has successfully launched food products in Europe, the US, Latin America and Asia. Maha is the Founder of Nutrition Sustainability Strategies, a consulting firm supporting companies that are aiming at improving the healthfulness of the food supply and/or the environment and ultimately transforming our food system.





1. **Thinking beyond Sustainability: The Need to Negotiate Food Systems Resilience**, **John Ingram**, PhD, University of Oxford, United Kingdom

Abstract: My talk will bring together food system thinking, sustainability metrics and resilience concepts. I will argue that strategies aimed at enhancing resilience by increasing robustness of, and/or recovery to the status quo of food system outcomes are inherently unsustainable, whereas accepting a different set of outcomes can both enhance resilience and be more sustainable. This will however need a shift from the ongoing productionist paradigm underpinning 'meeting demand' to one more related to 'managing demand'. It will also require negotiation between a broader set of food system actors than is currently the norm.

Negotiating food systems resilience: <https://www.nature.com/articles/s43016-020-00147-y>

Biography: Dr. John Ingram is an Associate Professor and Senior Research Fellow at Somerville College, University of Oxford. His interests are the conceptual framing of food systems; the interactions among the many actors involved and their varied activities, and the outcomes of their activities for food security, livelihoods and environment; and food system resilience. In addition to leading the Food System Transformation Group within Oxford's Environmental Change Institute, he also leads the multi-university post-graduate food systems training programme (IFSTAL) and coordinates the UK Global Food Security programme 'Resilience of the UK Food System'.



2. **How is Research and Innovation Policy Driving Sustainable, Healthy and Inclusive Food Systems?** **Karen Fabbri**, PhD, Deputy Head of Unit Bioeconomy and Food Systems, Healthy Planet Directorate, DG Research and Innovation - European Commission, Brussels

Abstract: Research and innovation policy is highlighted as a key enabler in the EU Farm to Fork Strategy and wider EU Green Deal. Since 2016 the Food 2030 initiative has been convening stakeholders to focus, align and leverage R&I investments to drive food systems transformation for co-benefits to climate, nutrition, circularity, and communities. Sustainable healthy and inclusive food systems are one of the priority areas under the EU's new Horizon Europe Framework Programme. Such a thematic deployment of R&I policy is also supported by the recent development to further strengthen the European Research Area and plays an important role in fostering science diplomacy for food systems transformation in the global context.



Biography: Karen has over two decades of work experience at the European Commission, where over the years she has held various positions focusing on the interface between science and policy in areas such as food systems and nutrition, environment and sustainable development, early warning, and disaster risk reduction, sustainable urban, land and coastal management, responsible research and innovation, and multi-actor and public engagement in science. Karen currently leads the Food 2030 work at the Directorate General for Research and Innovation, where she is responsible for the development of EU research and innovation policy for sustainable healthy and inclusive food systems.



#Food2030EU ; @karen_fabbri ; Karen.fabbri@ec.europa.eu

https://ec.europa.eu/info/research-and-innovation/research-area/bioeconomy/food-2030_en

3. **Orbillion: Building the Future of Meat**, **Patricia Bubner**, CEO of Orbillion, United States

Abstract: Orbillion Bio will be the first company to bring premium lab grown meat to the market. They will replace prime beef and wagyu with an ethical alternative that tastes amazing. Their core technology addresses the major roadblocks of cell-cultured meat - cost and scalability. After only 4 months of development time, Orbillion has four different flavorful meats growing in the lab: wagyu beef, elk, sheep and American bison. Orbillion recently graduated from the world-renowned accelerator program Y Combinator. The founders Patricia Bubner, PhD, Samet Yildirim, MSc, MBS and Gabriel Levesque-Tremblay, PhD have over 30 years of combined experience in business and product development, bioprocessing and biopharma.

Biography: **Patricia Bubner**, PhD, is a scientist and engineer working on building a future of food that is ethical and sustainable. She is the founder and the CEO of Orbillion Bio, Inc. (California) with the mission to accelerate the commercialization of cultivated meat products. She has previously co-founded an agriculture & food systems project (themilletproject.org), gained experience on mammalian cell culture bioprocessing in biopharma, and implemented automation and machine learning in bringing up production lines.



4. **BLUU - Cultivated Fish as Sustainable Protein Source**, Simon Fabich, Co-Founder Bluu Biosciences, Germany

Abstract

Bluu Biosciences is the first company in Europe to specialize in the development and production of cultivated fish. According to the Food and Agriculture Organization of the United Nations, about 90 percent of all edible fish stocks are already considered maximally exploited or overfished, while



demand continues to rise as the world's population grows. Producing cultivated fish without harming the ecosystem and at competitive prices can make a critical contribution to global animal protein supply in the future. As a pioneer at the interface of biotechnology and food technology Bluu intends to lead this development.

Biography

Simon Fabich is the co-founder and managing director of Bluu Biosciences. As seasoned entrepreneur and former CEO of an international e-commerce company, he brings more than 15 years of experience in founding, managing and scaling startups. He has extensive background in the VC space, most recently through his role as a partner of impact seed fund Purple Orange Ventures, which supports technology-based startups targeting animal-free food systems. He also serves as a partner in EVIG.group, a company builder involved in Bluu, which focuses on building biotech startups in the food sector.



5. **Panel Discussion:** Speakers and **Shenggen Fan** (Chair Professor, and Dean, Academy of Global Food Economics and Policy China Agricultural University, China)

Dr. Shenggen Fan is currently Chair Professor and Dean of Academy of Global Food Economics and Policy (AGFEP) at China Agricultural University (CAU). Prior to joining CAU, Dr. Fan served as director general of the International Food Policy Research Institute (IFPRI) from 2009 to 2019. He currently serves as a member of the United Nations' Lead Group for the Scaling Up Nutrition (SUN) Movement. He was a member, vice chair and chair of food and nutrition council of the World Economic Forum.

