

# Congress FOOD 2030: Towards sustainable agri-food systems



## WEDNESDAY, 5 SEPTEMBER 2018

<b>Welcome and opening remarks: Food and nutrition challenges – the need for transformation until 2030</b>			<b>ROOM: AUDIMAX</b>
10:00-10:15 am	<b>Stephan Dabbert</b> , President of the University of Hohenheim, Germany		Chair: <b>Regina Birner</b> , University of Hohenheim, Institute of Agricultural Sciences in the Tropics, Germany
10:15-10:30 am	<b>Peter Hauk</b> , Minister for Rural Affairs and Consumer Protection Baden-Wuerttemberg, Germany		
10:30-10:45 am	<b>Klaus Heider</b> , Director General of the Directorate on Food and Nutrition Policy, Product Safety and Innovation, Federal Ministry of Food and Agriculture, Germany		
10:45-11:00 am	<b>Karin Maag</b> , Member of the Parliament of the Federal Republic of Germany		
<b>Keynotes: The value of a food system approach</b>			
11:00-11:30 am	<b>Health and environment futures under 'Business as Usual'</b>	<b>John Ingram</b> , University of Oxford, Environmental Change Institute, United Kingdom	
11:30-12:00 am	<b>Addressing food as a system: From theory to (urban) practice</b>	<b>Roberta Sonnino</b> , Cardiff University, Research Center for Urban and Regional Food, United Kingdom	
12:00-12:30 pm	<b>Food systems approach: A pathway towards the SDGs</b>	<b>Huib Löffler</b> , Wageningen University and Research, Center for Development Innovation, The Netherlands	
<b>12:30-01:45 pm</b>	<b>Lunch break</b>		<b>ROOM: Dining hall of the Mensa</b>
<b>Panel: Food 2030, a research policy for Horizon Europe</b>			<b>ROOM: AUDIMAX</b>
01:45-02:00 pm	<b>Introduction</b>	<b>Jochen Weiss</b> , University of Hohenheim, Institute of Food Science and Biotechnology, Germany	Chair: <b>Jochen Weiss</b> , University of Hohenheim, Institute of Food Science and Biotechnology, Germany
02:00-02:30 pm	<b>FOOD 2030 - driving sustainable food system transformation through research and innovation</b>	<b>John Bell</b> , European Commission, DG Research & Innovation, Belgium	
<b>Round table: German perspectives on Food 2030 within Horizon Europe</b>			
02:30-03:30 pm	<b>Sustainable food systems - suggestions for the German and European research area</b>	<b>Hanns-Christoph Eiden</b> , Federal Office for Agriculture and Food, Germany	
	<b>Transformation in food systems - a challenge for society and industry</b>	<b>Kerstin Lienemann</b> , German Institute for Food Technology e.V., Germany	
		<b>Frank Ewert</b> , Leibniz Center for Agricultural Landscape Research, Germany	
		<b>Klaus Menrad</b> , University of Applied Sciences Weihenstephan-Triesdorf, Department of Marketing and Management of Biogenic Resources, Germany	

<b>Round table: Pan European perspectives on Food 2030 within Horizon Europe</b>			
03:30-04:00 pm	<b>Food transitions 2030</b>	<b>Frans Kampers</b> , Wageningen University and Research, The Netherlands	
		<b>José Manuel González Vicente</b> , Center for the Development of Industrial Technology, Spain	
		<b>Monique Axelos</b> , French National Institute for Agricultural Research, France	
		<b>Verdiana Bandini</b> , University of Bologna, Unit for Research and Competitive Funding, Italy	
		<b>Didier Bonnet</b> , FoodDrinkEurope	
<b>04:00-04:30 pm</b>	<b>Coffee break</b>	<b>ROOM: BIO Foyer</b>	
<b>Parallel sessions</b>			
<b>PARALLEL SESSION A: HEALTH AND NUTRITION</b>			<b>ROOM: Ö1</b>
<b>TOPIC A1: Prevention of non-communicable diseases, particularly obesity, sarcopenic obesity, and the metabolic syndrome</b>			
04:30-05:00 pm	<b>Malnutrition and obesity: (Related) global challenges</b>	<b>Rocco Barazzoni</b> , University of Trieste, Department for Medicine, Surgery and Health Sciences, Italy	Chair: <b>Stephan Bischoff</b> , University of Hohenheim, Institute of Clinical Nutrition, Germany
05:00-05:20 pm	<b>Dietary fibers and their impact on (gut) health - the FiberTAG study</b>	<b>Benjamin Seethaler</b> , University of Hohenheim, Institute of Clinical Nutrition, Germany	
05:20-05:40 pm	<b>Taxing highly processed foods: Impacts on obesity and underweight in Sub-Saharan Africa</b>	<b>Ole Boysen</b> , University College Dublin, School of Agriculture and Food Science, Ireland	
05:40-06:00 pm	<b>Effects of microalgae supplementation on hypercaloric fed mice</b>	<b>Ulrike Neumann</b> , University of Hohenheim, Institute of Clinical Nutrition, Germany	
06:00-06:20 pm	<b>Inclusive tool for prevention of noncommunicable diseases and maintain health through new nutritional habits</b>	<b>Nadiya Boyko</b> , Uzhhorod National University, R&D Center of Molecular Microbiology and Mucosal Immunology, Ukraine	
<b>PARALLEL SESSION B: Resilience, adaptation and sustainable intensification of food production systems</b>			<b>ROOM: Audimax</b>
<b>TOPIC B1: Is zero hunger at zero land use change possible? Future land use strategies: Restoration, intensification or land expansion?</b>			
04:30-05:00 pm	<b>The rise of medium-scale farms in Africa: Causes and consequences of changing farm size distributions</b>	<b>Milu Muyanga</b> , Michigan State University, Department of Agricultural, Food and Resource Economics, USA	Chairs: <b>Ken Giller</b> , Wageningen University and Research, Department of Plant Science, The Netherlands AND <b>Marcus Giese</b> , University of Hohenheim, Institute of Agricultural
05:00-05:30 pm	<b>The food security conundrum</b>	<b>Ken Giller</b> , Wageningen University and Research, Department of Plant Science, The Netherlands	
05:30-05:45 pm	<b>Out of food insecurity and poverty through land use intensification. A good practice example from Ethiopia</b>	<b>Karin Gaesing</b> , University Duisburg-Essen, Institute for Development and Peace, Germany	
05:45-06:00 pm	<b>Food security in South America towards 2050, crop expansion and demand impacts on biodiversity</b>	<b>Magdalena Jensen</b> , Pontifical Catholic University of Chile, Geography Department, Chile	

06:00-06:15 pm	<b>The potential of sustainable intensification of food production in Europe based on the natural resilience and performance of soils</b>	<b>Jasmin Schiefer</b> , University of Natural Resources and Life Sciences, Institute of Soil Research, Austria	Sciences in the Tropics, Germany
06:15-06:30 pm	<b>Rude awakening of a sleeping giant? Exploring costs and potentials of intensification options in African savannas</b>	<b>Carsten Marohn</b> , University of Hohenheim, Institute of Agricultural Sciences in the Tropics, Germany	
<b>PARALLEL SESSION C: Bioeconomy and food production</b>			<b>ROOM: Ö2</b>
<b>TOPIC C1: Evaluation of policy instruments for sustainable food production and healthy nutrition</b>			
04:30-05:00 pm	<b>Assessing food systems to enable a new dialogue on food system change: The case of the EU food system</b>	<b>Monika Zurek</b> , University of Oxford, Environmental Change Institute, United Kingdom	<u>Chair:</u> <b>Christine Wieck</b> , University of Hohenheim, Institute of Agricultural Policy and Markets, Germany
05:00-05:15 pm	<b>Global insights into future opportunities and developments in the bioeconomy: A global expert survey</b>	<b>Irwa Issa</b> , University of Kassel, Department of Agricultural and Food Marketing, Germany	
05:15-05:30 pm	<b>The role of certificates and standards to support healthy and sustainable food systems</b>	<b>Ruerd Ruben</b> , Wageningen University and Research, Institute of Economic Research, The Netherlands	
05:30-05:45 pm	<b>Role of reforming and improving grape orchard policies on enhancing small scale grape farmers knowledge and productivity: Lessons learnt in the Northwest of Iran</b>	<b>Esmail Karamidehkordi</b> , University of Zanjan, Department of Agricultural Extension, Communication and Rural Development, Iran	
05:45-06:00 pm	<b>Increased urban demand for indigenous vegetables – multiplier effects in the rural Kenyan economy</b>	<b>Henning Krause</b> , Leibniz University Hannover, Institute for Environmental Economics and World Trade, Germany	
06:00-06:15 pm	<b>Input price liberalisation and starting uprising in Syria, March 2011</b>	<b>Salwa Almohamed</b> , University of Hohenheim, Institute of Agricultural Sciences in the Tropics, Germany	
06:15-06:30 pm	<b>Consumers' perspectives and behaviour towards food loss</b>	<b>Mercedes Montero Vega</b> , University of Costa Rica, Department of Agricultural Economics, Costa Rica	
<b>07:00-09:00 pm</b>	<b>Reception with BBQ</b>	<b>ROOM: Dining hall of the Mensa</b>	

**THURSDAY, 6 SEPTEMBER 2018**

<b>Parallel sessions (Continuation with TOPICS A2, B2 and C2)</b>			
<b>PARALLEL SESSION A: HEALTH AND NUTRITION</b>			<b>ROOM: Ö1</b>
<b>TOPIC A2: Food and agricultural approaches to reduce malnutrition</b>			
08:30-09:00 am	<b>The “Food and Agricultural Approaches to Reducing Malnutrition” cluster-randomized trial in Bangladesh: Improving home garden soils and food diversity for better health</b>	<b>Sabine Gabrysch</b> , Heidelberg University Hospital, Institute for Public Health, Germany	<b>Chair:</b> <b>Hans K. Biesalski</b> , University of Hohenheim, Institute of Biological Chemistry and Nutritional Science, Germany
09:00-09:15 am	<b>Nutrition sensitive agriculture as mean to achieve healthy diets</b>	<b>Ernst Nuppenau</b> , Justus-Liebig-University Giessen, Institute for Agricultural Policy and Market Research, Germany	
09:15-09:30 am	<b>Dietary intake and micronutrient status of school age children in Enugu State, Nigeria</b>	<b>Ikechukwu Ezeagu</b> , University of Nigeria, Faculty of Medical Biochemistry, Nigeria	
09:30-09:45 am	<b>Enhancing diet diversification of vulnerable communities after Ebola disease outbreak in Moyamba District, Sierra Leone</b>	<b>Bader Mahaman Dioula</b> , Action against Hunger, France	
09:45-10:00 am	<b>Shaking hands with the devil: More meat, milk and eggs on the plates</b>	<b>Mats Lannerstad</b> , International Livestock Research Institute, Kenya	
10:00-10:15 am	<b>Contribution of milk from tropical cattle breeds to household food security and income in Mali</b>	<b>Christoph Reiber</b> , University of Hohenheim, Institute of Agricultural Sciences in the Tropics, Germany	
<b>PARALLEL SESSION B: RESILIENCE, ADAPTATION AND SUSTAINABLE INTENSIFICATION OF FOOD PRODUCTION SYSTEMS</b>			<b>ROOM: AUDIMAX</b>
<b>TOPIC B2: Trade-offs and synergies between climate mitigation and food security</b>			
08:30-09:00 am	<b>Agricultural emission reduction and climate change adaptation in the context of the Sustainable Development Goals</b>	<b>Hermann Lotze-Campen</b> , Potsdam Institute for Climate Impact Research, Germany	<b>Chair:</b> <b>Georg Cadisch</b> , University of Hohenheim, Institute of Agricultural Science in the Tropics, Germany
09:00-09:30 am	<b>Progress in land system modelling and climate adaptation research</b>	<b>Thilo Streck</b> , University of Hohenheim, Institute of Soil Science and Land Evaluation, Germany	
09:30-09:45 am	<b>Re-establishing legumes as a socio-economic necessity for sustainable and resilient agri-food systems</b>	<b>Pietro Iannetta</b> , James Hutton Institute, Ecological Sciences Research Group, United Kingdom	
09:45-10:00 am	<b>Understanding the variability in diet-related environmental sustainability</b>	<b>Elly Mertens</b> , Wageningen University and Research, Division of Human Nutrition and Health, The Netherlands	
10:00-10:15 am	<b>Linking climate action and nutrition in food systems: Lessons from developing countries</b>	<b>Elizabeth Laval</b> , Food and Agriculture Organization of the United Nations, Climate Change Division, Italy	
10:15-10:30 am	<b>Enteric methane emission intensities across cattle intensification gradients in smallholder cattle systems in Western Kenya</b>	<b>Alice Anyango Onyango</b> , University of Hohenheim, Institute of Agricultural Sciences in the Tropics, Germany	

<b>PARALLEL SESSION C: BIOECONOMY AND FOOD PRODUCTION</b>			<b>ROOM: Ö2</b>
<b>TOPIC C2: New approaches in food design</b>			
08:30-09:00 am	<b>Next generation food processing for better health and sustainability</b>	<b>Remko Boom</b> , Wageningen University and Research, Department of Agrotechnology and Food Sciences, The Netherlands	Chair: <b>Jochen Weiss</b> , University of Hohenheim, Institute of Food Science and Biotechnology, Germany
09:00-09:30 am	<b>Algae as food: potential and limitations</b>	<b>Jörg Ullmann</b> , Roquette Klötze GmbH & Co. KG, Germany	
09:30-09:45 am	<b>Production parameter optimization for bread rolls using the Nelder-Mead simplex algorithm</b>	<b>Viktoria Zettel</b> , University of Hohenheim, Institute of Food Science and Biotechnology, Germany	
09:45-10:00 am	<b>Non-invasive flour and dough characterization through the application of Raman spectroscopy in combination with chemometric methods</b>	<b>Bernhard Hermannseder</b> , University of Hohenheim, Institute of Food Science and Biotechnology, Germany	
10:00-10:15 am	<b>Disgusting or innovative? Consumer willingness to pay for insect based burger patties in Germany</b>	<b>Lukas Kornher</b> , Center for Development Research, Germany	
10:15-10:30 am	<b>Beyond whole cells and dietary supplements: Microalgae protein extracts as technofunctional ingredient in foods</b>	<b>Lutz Grossmann</b> , University of Hohenheim, Institute of Food Science and Biotechnology, Germany	
<b>10:30-11:00 am</b>	<b>Coffee break</b>	<b>ROOM: BIO Foyer</b>	
<b>Parallel sessions (Workshop and continuation with TOPICS B3 and C3)</b>			
<b>Workshop: Key narratives on microalgae as food – Please note: Maximum number of participants: 30 (first come first serve basis)</b>			<b>ROOM: Ö1</b>
11:00-01:00 pm	Microalgae are considered a promising source for sustainable food production. The aim of the workshop is to reflect, discuss and comment current developments in microalgae technology against the structuring background of four key narratives. We want to analyze and assess technical limitations, knowledge gaps or exaggerated public expectations to give recommendations to decision-makers in science, economy and politics.  Chairs: <b>Christine Rösch</b> AND <b>Maximilian Rossmann</b> Karlsruhe Institute of Technology, Institute of Technology Assessment and System Analysis, Germany		
<b>PARALLEL SESSION B: RESILIENCE, ADAPTATION AND SUSTAINABLE INTENSIFICATION OF FOOD PRODUCTION SYSTEMS</b>			<b>ROOM: AUDIMAX</b>
<b>TOPIC B3: Adaptation to global social and environmental change: Technical, digital and social innovations</b>			
11:00-11:30 am	<b>Smart farming is key to developing sustainable agriculture</b>	<b>Achim Walter</b> , Eidgenössische Technische Hochschule Zurich, Institute for Agricultural Sciences, , Switzerland	Chair: <b>Hans-Jörg Lutze</b> , European Commission, DG Research & Innovation, Belgium
11:30-11:45 am	<b>Social food-related well-being in a diaspora situation</b>	<b>Lubana Al-sayed</b> , University of Hohenheim, Institute of Social Sciences in Agriculture, Germany	
11:45-12:00 am	<b>Facilitating climate change adaptation through institutional interventions in India</b>	<b>Ashok Kumar Singh</b> , Indian Council of Agricultural Research, Agricultural Extension Division, India	
12:00-12:15 pm	<b>Analysing supply chain resilience with a Bayesian network</b>	<b>Coen van Wagenberg</b> , Wageningen University and Research, Institute of Economic Research, The Netherlands	
12:15-12:30 pm	<b>Citizen science meets informatics: Crowdsourcing participatory millet variety selection in Hoima, Uganda for climate change adaptation through Triadic Comparisons of Technologies (TRICOT) Methodology</b>	<b>Gloria Otieno</b> , Bioversity International, Policy Unit, Uganda	



12:30-12:45 pm	<b>Progress, trends and options on the way to achieve nutrition related commitments in Malabo Declaration</b>	<b>Kafkas Caprazli</b> , Food and Agricultural Organization of the United Nations, Subregional Office for Eastern Africa, Ethiopia	
12:45-01:00 pm	<b>The role of not-knowing, uncertainty and ambiguity for the performance of innovation processes in sustainable land management</b>	<b>Anett Kuntosch</b> , Humboldt-University of Berlin, Integrative Research Institute on Transformations of Human-Environment Systems, Germany	
<b>PARALLEL SESSION C: BIOECONOMY AND FOOD PRODUCTION</b>			<b>ROOM: Ö2</b>
<b>TOPIC C3: Sustainability advances for the production of high value food components</b>			
11:00-11:30 am	<b>Microbial surfactants - bioproduction and application perspectives</b>	<b>Rudolf Hausmann</b> , University of Hohenheim, Institute of Food Science and Biotechnology, Germany	<b>Chair:</b> <b>Lutz Fischer</b> , University of Hohenheim, Institute of Food Science and Biotechnology, Germany
11:30-11:45 am	<b>The contribution of food engineering to achieve global food security</b>	<b>Walter E. Spiess</b> , Karlsruhe Institute of Technology, Institute of Food Process Engineering, Germany	
11:45-12:00 am	<b>Valorization of quinoa by-products after oil extraction with supercritical CO<sub>2</sub></b>	<b>Angela García Solaesa</b> , University of Valladolid, Department of Agriculture and Forestry Engineering, Spain	
12:00-12:15 pm	<b>Biorecovery of antioxidants from apple pomace by supercritical fluid extraction</b>	<b>Giovanna Ferrentino</b> , Free University of Bolzano, Faculty of Science and Technology, Italy	
12:15-12:30 pm	<b>Assessing the sustainability of natural and artificial food colorants</b>	<b>Judith Müller-Maatsch</b> , University of Hohenheim, Institute of Food Science and Biotechnology, Germany	
12:30-12:45 pm	<b>Protein extraction via pulsed electric field (PEF) treatment of microalgae <i>Chlorella vulgaris</i> for food and feed applications</b>	<b>Daniel Scherer</b> , Karlsruhe Institute of Technology, Institute for Pulsed Power and Microwave Technology, Germany	
<b>01:00-02:30 pm</b>	<b>Lunch break and poster session</b>	<b>ROOM: Dining hall of the Mensa</b>	
<b>Reporting from the parallel sessions</b>			<b>ROOM: AUDIMAX</b>
02:30-03:00 pm	<b>Stephan Bischoff</b> , University of Hohenheim, Institute of Clinical Nutrition, Germany <b>Hans K. Biesalski</b> , University of Hohenheim, Institute of Biological Chemistry and Nutritional Science, Germany <b>Ken Giller</b> , Wageningen University and Research, Department of Plant Science, The Netherlands <b>Georg Cadisch</b> , University of Hohenheim, Institute of Agricultural Science in the Tropics, Germany <b>Hans-Jörg Lutzeyer</b> , European Commission, DG Research & Innovation <b>Christine Wieck</b> , University of Hohenheim, Institute of Agricultural Policy and Markets, Germany <b>Jochen Weiss</b> , University of Hohenheim, Institute of Food Science and Biotechnology, Germany <b>Lutz Fischer</b> , University of Hohenheim, Institute of Food Science and Biotechnology, Germany		
<b>Multistakeholder concluding plenary panel: Sustainable and diverse food systems: How do we get there? Drivers and barriers</b>			<b>ROOM: AUDIMAX</b>
03:00-04:30 pm	<b>Panelists:</b> <b>Hanny Van Geel</b> , La Via Campesina Europe <b>Andras Sebök</b> , European Technology Platform "Food for Life" <b>Ann Tutwiler</b> , Bioversity International <b>NN</b> , Verbraucherzentrale, Germany	<b>Facilitators:</b> <b>Klaus von Grebmer</b> , International Food Policy Research Institute, USA AND <b>Carolyn Callenius</b> , University of Hohenheim, Research Center for Global Food Security and Ecosystems, Germany	
<b>Conclusion</b>			<b>ROOM: AUDIMAX</b>
04:30-04:45 pm	<b>Concluding remarks</b> <b>Regina Birner</b> , University of Hohenheim, Institute of Agricultural Sciences in the Tropics, Germany		