Biosketch of invited speakers

(by presenting order)

Henrik Oster (*Institute of Neurobiology, University of Lübeck, DE*)

Prof. Oster studied biochemistry at the Leibniz University of Hanover from 1993 to 99 and received his doctorate for studies of molecular circadian clocks from the University of Fribourg in 2002. After postdoctoral research at the Max Planck Institute for Experimental Endocrinology Hannover, the University of Oxford and the Max Planck Institute for Biophysical Chemistry in Göttingen, he joined the University of Lübeck as Lichtenberg Professor of Chronophysiology in 2011. Since 2017, he heads the Institute of Neurobiology and in 2018, he was appointed as the first Lichtenberg Endowed Chair of Neurobiology. His research is focused in the interaction between clocks in different tissues and how their time signals influence physiological functions such as sleep and energy metabolism, but also immune functions and cognition.

Yves Desjardins (*Institute of Nutrition and Functional Food, Laval University, Québec, CA*)

Yves Desjardins is full professor at the Plant Science department and he is affiliated with the Institute of Nutrition and Functional Foods at Laval University, Québec Canada. He was recently appointed Dianafood-NSERC Industrial Chair on prebiotic effects of fruits and vegetables (PhenoBio+). Trained in plant physiology, he is conducting research on phytochemistry and functionality of bioactive compounds from plants. He is PI or collaborator on many major preclinical and clinical studies on type-2 diabetes, cognitive decline, low-grade inflammation, urinary tract infection, skin diseases, and oral infections. He is particularly interested in the effects of tannins on the gut microbiota and its interaction with the host mucosal immune and gut barrier function. Over the years, he has accompanied many horticultural and food processing companies in the development and the validation of the health benefits of horticultural commodities (e.g. Urophenol, Glucophenol, Neurophenol). At the international scene, he is recognized for his innovative research program on health effects of fruits and vegetables. He was the Chair first International Symposium on Health Effects of Fruits and Vegetables in Québec City (FAVHEALTH 2005) and the OECD Symposium - "Emerging Topics in Health Effects Fruit and Vegetables" in Lisbon, Portugal (2010). He organized in 2016 the International Strawberry Symposium (750 participants), which made a large place to health effects of this fruit. Recently (October 2017), he also organized the leading International Congress on Polyphenols and Health (www.ICPH2017-Québec.org) (>350 world renowned participants). His leadership in the field is recognized worldwide; he has been invited on numerous occasions to give keynote lectures at international meetings over the last few years (>20). He is the International relation director at INAF. In this function, he is involved in many international research projects in France, Mexico, Italy, Brazil and Belgium.

Prof. Timothy Dinan (*University College Cork, IR*)

Ted Dinan is Emeritus Professor of Psychiatry and a Principal Investigator in the APC Microbiome Institute at University College Cork. He was previously Chair of Clinical Neurosciences and Professor of Psychological Medicine at St. Bartholomew's Hospital, London. Prior to that, he was a Senior Lecturer in Psychiatry at Trinity College Dublin. He has worked in research laboratories on both sides of the Atlantic and has a PhD in Pharmacology from the University of London. He is a Fellow of the Royal Colleges of Physicians and Psychiatrists and a Fellow of the American College of Physicians. His main research interest is in the role of the gut microbiota in stress-related disorders. He has also worked extensively on the regulation of the hypothalamic-pituitary-adrenal axis. In 1995 was awarded the Melvin Ramsey Prize for research into the biology of stress. In 2019 he was ranked by Expertscape as the number 1 global expert on the microbiota. His current research is funded by Science Foundation Ireland, the Health Research Board and European Union FP7. He has published over 500 papers and numerous books on pharmacology and neurobiology. He is on the Editorial Boards of several journals.

Dr. Christine Feillet-Coudray *(Muscular Dynamics and Metabolism Unit, Montpellier (INRAE), FR)*

Christine FEILLET-COUDRAY is research director in the Muscular Dynamics and Metabolism (DMEM) unit at the National Institute for Agronomic, Food and Environmental Research (INRAE), Montpellier, France. She has published over 100 articles/reviews. Her research interests focus on micronutrients, lipids and the pathophysiology of oxidative stress, and more generally, malnutrition and its relationship to the development of metabolic syndrome components. More specifically, her work aims to understand the role and impact of bioactive compounds in the diet in maintaining skeletal muscle mass and strength.

Dr. Lydia Afman *(Human Nutrition and Health, Wageningen University and Research, NL)*

Lydia Afman is Associate Professor at the Division of Human Nutrition and Health at Wageningen University. She is internationally recognized for her expertise on human nutrigenomics and precision nutrition. She combines omics techniques with human dietary interventions to investigate diet-related underlying mechanism for development of cardiometabolic diseases. She leads a Flagship project of Wageningen University, in which artificial intelligence and computational modeling are used to build a digital twin that will give personalized dietary advice to reduce the personal postprandial triglyceride and glucose response. Dr Afman is executive secretary of NuGO, she is member of the Dutch Health Council and until 2022 she was board member of the Dutch Academy of Nutritional Science. She authored over 65 papers published in leading journals in the field such as Am J Clin Nutr, Prog Lipid Res and Journal of Hepatology.

Prof. Bruce Y. Lee *(Health Policy and Management at the City University of New York, USA)*

Prof. Lee received his B.A. from Harvard University, M.D. from Harvard Medical School, and M.B.A. from the Stanford Graduate School of Business. He completed his internal medicine residency training at the University of California, San Diego. He has over two decades of experience in industry and academia developing mathematical and computational modeling, AI, and other computer-aided approaches to assist a wide range of decision makers in health, medicine, and public health. Currently, he is a Professor of Health Policy and Management at the City University of New York (CUNY) School of Public Health where he is the Executive Director of the Center for Advanced Technology and Communication in Health (CATCH) at CUNY, which aims to develop and implement new technologies and approaches to help decision making and communication in health and public health, and Executive Director of the Artificial Intelligence, Modeling, and Informatics for Nutrition Guidance and Systems (AIMINGS) Center. Dr. Lee has been the Principal Investigator for over $59 million in grants/contracts from a variety of organizations and agencies including the National Institutes of Health (NIH), the Agency for Healthcare Quality and Research (AHRQ), the National Science Foundation (NSF), the Centers for Disease Control and Prevention (CDC), UNICEF, the Global Fund, the Bill & Melinda Gates Foundation, and the U.S. Agency for International Development (USAID). He has served as a systems science, AI, and computer modeling expert for a range of different entities including the World Health Organization (WHO), the NIH, and other organizations. Dr. Lee has authored over 255 scientific publications and has also authored three books. Moreover, he is a Senior Contributor for Forbes, covering a wide range of health-related topics including medicine, wellness, digital health, and the business of health and having written over 1,600 articles with many of them selected as Editors Choices.

Dr. Josep M del Bas (*Nutrition and health unit director en Eurecat - Centro Tecnológico de Catalunya, SP*)

Dr Josep del Bas holds a BSc in Chemistry and in Biochemistry and is PhD in nutrition and metabolism by University Rovira I Virgili. During his career, he has worked in the field of dietary polyphenols and health, applying molecular biology and systems biology to understand the mechanisms of action. In the last years, his research activities have been focused on biomarkers of health and their application to personalized nutrition in multidisciplinary environments, integrating -omics technologies, nutritional sciences, digital technologies, and psychology-based programs. In this regard, he is the principal investigator of the European project PREVENTOMICS: Empowering consumers to prevent diet-related diseases through -omics sciences. He has leaded more than 100 R+D+i projects either private or public, including nutritional intervention trials and has participated in more than 10 European projects funded by the European commission. He is co-author of more than 70 peer-reviewed publications and director of two Doctoral thesis in the fields of chrononutrition and biomarkers of health. He is advisor of the Catalan Government's agency for business competitiveness and associate professor in the University Rovira I Virgili.

Dr. Jean-Charles Martin (*Centre for CardioVascular and Nutrition, INRAE, FR*)

Jean-Charles Martin currently works at the Centre for Cardiovascular and Nutrition (C2VN), French National Institute for Agricultural Research. Jean-Charles does research in Biostatistics, Physiology and Systems Biology. He is using the metabolomic approach to understand the environmental influence, including nutrition, on health, disease and well-being.

Prof. Paula Oliver (*Laboratory of Molecular Biology, Nutrition and Biotechnology, University of the Balearic Islands, SP*)

Dr. Paula Oliver is a full professor of Biochemistry and Molecular Biology at the University of the Balearic Islands (UIB), Spain. Co-PI of the research group 'Nutrigenomics, Biomarkers and risk Assessment' of the CIBER of Physiopathology of Obesity and Nutrition (CIBEROBN). Member of the Health Research Institute of the Balearic Islands (IdISBa). Her current research focuses on searching for early molecular biomarkers of metabolic risk associated with increased adiposity/obesity using blood cells (PBMC fraction), to establish personalized preventative strategies. She has (co-) authored >60 peer-review articles and book chapters, and 2 books on nutrition. Guest editor of the journals *Frontiers in Physiology* and *Nutrients*. Author of 4 patents (2 internationally extended) and of a genomic license transfer agreement to Agilent Technologies, Inc. She has participated in >40 research projects. Currently, she is part of the 'coordination office' of the EU project INTEGRactiv ('Identification and validation of integrative biomarkers of physical activity level and health in children and adolescents') in which she is also co-leader of the work package 'Epidemiological platform'.

Dr. Xavier Domingo-Almenara (*Omics Sciences Unit, EURECAT — Technology Centre of Catalonia, SP*)

Dr. Domingo-Almenara received his Ph.D in Bioengineering in 2016 from the University Rovira i Virgili. Between 2017 and 2019, he was a postdoctoral researcher at the Scripps Research's Center for Metabolomics in La Jolla, US. In 2019 he moved to the Omics Sciences Unit at EURECAT in Reus, Spain, as a senior scientist, where he established his independent research program. Since starting his lab, he has received funding from the Spanish Research Agency, "La Caixa" Foundation and from the H2020 program, as PI. His research, at the intersection between engineering, chemistry and biology, combines bioinformatics and analytical chemistry to design new computational methods to understand metabolism using mass spectrometry-based metabolomics.

Anna Arola Arnal (*Universitat Rovira i Virgili, SP*)

Anna Arola is associate professor at the Rovira i Virgili University, Tarragona, Spain, and a member of the Nutrigenomics Research Group. Her research focuses on the study of the bioavailability and beneficial effects of phenolic compounds in metabolic pathologies such as obesity. She has more than 80 publications in international indexed journals and is the co-inventor of 3 patents. She is coordinator of the Interuniversity Master's Degree in Nutrition and Metabolism (URV / UB), she has also been coordinator of the doctoral programs in Nutrition and Metabolism and Nutrigenomics and Personalized Nutrition at the URV.

Dr. Olga Ramich (*German Institute of Human Nutrition Potsdam-Rehbrücke (Dife), DE*)

Olga Ramich completed her master degree in Biology in 2004 at the Institute of Cell Biophysics of the Pushchino State University in Russia, a top-ranking academic center in biological sciences. As a research associate, she joined to the Institute of Molecular Genetics of Russian Academy of Sciences in Moscow, working on genetic risk factors for cardiovascular diseases and diabetes, and proceeded to investigate this topic during her guest scientist visit to Germany in 2005. Awarded with a German Academic Exchange Service (DAAD) scholarship for the PhD program, she moved in 2006 to Germany to join a group of Professor Andreas F.H. Pfeiffer. Under his supervision, she completed her PhD in Medical Science at the Charité-Universitätsmedizin Berlin with a grade summa cum laude. Olga Ramich completed her postdoctoral studies in the Department of Clinical Nutrition, German Institute of Human Nutrition Potsdam-Rehbrücke (DIfE), working on the molecular and pathophysiological mechanisms of metabolic regulation by nutrition. In 2018, she completed a habilitation in Experimental Nutritional Science at the Charité-Universitätsmedizin Berlin and was appointed as a Leader of the Research Group “Molecular Nutritional Medicine” at DIfE. Her current research work focuses on the implication of circadian clock in the nutritional regulation of the human metabolism and in the pathogenesis of metabolic diseases. Her research work has been awarded with prestigious scientific prizes such as Morgagni Prize of the European Association for the Study of Diabetes (EASD) in 2019 and Adam-Heller-Prize of the German Diabetic Society/Abbott in 2020. As a recognized expert, Olga Ramich contribute as a reviewer and editor in a wide range of nutritional and medical journals and funding research organizations and is invited a speaker to scientific and medical conferences in her research field.