

List of Speakers

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Elsa Antunes Fernandes, has obtained her MSc in Food Technology at Wageningen University and a PhD degree in Neuro-Endocrine Toxicology at Utrecht University. Since May 2011 she is a Postdoctoral researcher at the Dairy Science and Technology group, part of the Food Quality and Design chair at Wageningen University. Initially she has focused on the implementation of metabolomic approach to dairy products, later relating milk metabolome to cow's health. Currently her main line of research correlates metabolome and methane emission of dairy cows.

Nurit Argov-Argaman, Ph.D.

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Dr. Argov-Argaman received his degrees from The Hebrew University of Jerusalem, Israel. His training is in Animal Science with an emphasis in lipid biochemistry and animal nutrition. His current responsibilities are as a lecturer for the Department of Animal Science and as Academic Coordinator for the dairy barn managing program, milk production unit, and the Division for External Studies.

Dr. Argov-Argaman's research focus involves discovering the nutritional and metabolic regulation of milk fat composition and concentration with the emphasis on milk fat globule size and structure. The models used in his lab are both *in vitro* cell and tissue culture, and *in vivo* murine and ruminants models. Also, human breast milk is in the focus of several previous and ongoing studies. These models are used to understand how milk lipidome and milk fat globule structure are determined and which of these mechanisms can be employed to improve milk composition in terms of human health.

Daniela Barile, Ph.D.

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Daniela Barile is Assistant Professor at the Food Science Department of the University of California, Davis. Her research focuses on Bovine Milk Functional Glycomics: she studies complex carbohydrates in dairy products and elucidates their specific interactions within the human body to demonstrate health benefits. Her lab uses a combination of efficient separation technologies and advanced mass spectrometry to generate new carbohydrate fractions for functional studies to support the translation of these molecules as selective prebiotics.

Angela Canovas, Ph.D.

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Dr. Angela Canovas received her B.S. in Agriculture Engineering from the University of Lleida (Spain), her M.S. in Animal Breeding and Biotechnology of Reproduction from the University Polytechnic of Valencia, and her Ph.D. in Animal Genetics from IRTA (Research & Technology food & Agriculture) in Lleida, Spain.

Currently, she is a postdoctoral researcher at the University of California, Davis working in Juan Medrano's laboratory. She is investigating the effects of genotype on global gene expression in the bovine milk cell transcriptome at different stages of lactation. She utilizes high-throughput transcriptome sequencing (RNA-Seq) to annotate the milk transcriptome, analyze the structure of expressed loci, identify sequence variation, quantify allelic gene expression and determine the contributions of cis- and trans-regulatory changes underlying expression.

The rationale for this approach is that RNA-Seq technologies record all the transcripts detected in a tissue and allow construction of gene networks and visualization of the key regulatory genes within metabolic pathways associated lipid metabolism, citrate content, immunity and milk composition.

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Dave Dallas graduated from Rice University with a B.A. in Public Health in 2008. He completed his Ph.D. in Nutrition at the University of California, Davis in 2012 under Dr. Bruce German. His research centers on functional components of bovine and human milk (especially proteins and glycans) and how proteins and glycoproteins are digested in term and premature infants. He is currently a post-doctoral fellow mentored by Drs. Bruce German, Daniela Barile and Carlito Lebrilla.

J. Bruce German, Ph.D.

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Bruce German received his PhD from Cornell University, joined the faculty at the University of California, Davis in 1988, in 1997 was named the first John E. Kinsella Endowed Chair in Food, Nutrition and Health is currently Director of the Foods for Health Institute and professor, at University of California, Davis. His research interests include the structure and function of dietary lipids, the role of milk components in food and health and the application of metabolic assessment to personalizing diet and health.

Bruce and colleagues founded the milk genomics consortium in 2001 which he now co-directs with Johan von Arendonk and Peter Williamson (<http://www.imgconsortium.org>). Bruce and colleagues have published more than 350 papers on lipids and food, metabolism and metabolite measurements and food functions and patented various technologies and applications of bioactive agents. The research articles from the lab rank in the top 10 most cited in Agriculture at www.ISIhighlycited.com.

Jeffrey Gordon, M.D.

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Jeffrey Gordon is the Dr. Robert J. Glaser Distinguished University Professor at Washington University in St. Louis. He received his A.B. from Oberlin College and his M.D. from the University of Chicago. He joined the Washington University faculty after completing his clinical training in internal medicine and gastroenterology. He was Head of the Department of Molecular Biology and Pharmacology from 1991-2004, before becoming the founding Director of an interdisciplinary University-wide Center for Genome Sciences and Systems Biology. From 1994 to 2003, he also served as director of the University's Division of Biology and Biomedical Sciences, which oversees all PhD and M.D./PhD students in the biological sciences. His lab studies the genomic and metabolic foundations of mutually beneficial host-microbial relationships in the human gut. Students working in his lab have developed new

experimental and computational approaches to characterize the assembly and dynamic operations of human gut microbial communities. Their work has involved studies of gnotobiotic animal models, twins discordant for physiologic phenotypes, and children and adults living in geographically and culturally diverse environments. A central issue they are addressing is how our gut microbiomes impact our nutritional status, including obesity and childhood undernutrition, and help determine the nutritional value and metabolic effects of the various foods we consume. Gordon is a member of the National Academy of Sciences, the American Academy of Arts and Sciences, and the Institute of Medicine of the National Academies.

Andres Guerrero, Ph.D.

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Andres Guerrero studied biology and biochemistry at the Complutense University of Madrid and graduate in Chemistry (PhD) at the Spanish National Research Council. He is currently a postdoc researcher at the prof. Lebrilla's lab (Department of Chemistry, UC Davis). He is specialized in mass spectrometry applied to bio-analytical chemistry, especially in the analysis of peptides and glycopeptides. He is currently involved in the characterization of the milk peptidome and its functional significance.

Katie Hinde, Ph.D.

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Hinde received a B.A. in Anthropology from the University of Washington in 1999, an M.A. in Anthropology from UCLA in 2003, and a Ph.D. in Anthropology from UCLA in 2008. Her post-doctoral training was in Neuroscience at the California National Primate Research Center, UC Davis from 2009-2011. In her Comparative Lactation Lab they investigate how mother's milk contributes to infant behavioral, psychobiological, and somatic development in socially complex taxa, particularly humans and non-human primates. She established descriptive values for rhesus macaque milk production across lactation, and demonstrated the effects of maternal life-history and infant sex on milk synthesis. In addition to journal publications, Hinde co-edited "Building Babies: Primate Developmental Trajectories in Proximate and Ultimate Perspective" released by Springer in 2013. Her ARMMS Program (Archive of Rhesus Macaque Milk Samples) makes hundreds of milk samples available to colleagues to assay for bioactive factors. Hinde is an associate editor and writer for *SPLASH!* Milk Science Update, executive council member for the International Society for Research in Human Milk and Lactation, and showcases research on mother's milk, breastfeeding, and lactation for the general public, clinicians, and researchers at her blog "Mammals Suck... Milk!"

Russ Hovey, Ph.D.

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Russ Hovey received his bachelor's degree in agricultural science from the University of Queensland, Australia and his PhD from Massey University, New Zealand. After postdoctoral training at the National Cancer Institute in Bethesda he was an Assistant Professor at the University of Vermont prior to moving to Davis in 2008. He is a Professor of animal science at UC Davis where he studies various aspects of mammary gland and lactation biology as well as the progression to cancer, and the hormonal and environmental factors that regulate these states.

Zuzana Krupova, Ph.D.

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Dr. Zuzana Krupova obtained a PhD degree in Food Technology from the Faculty of Biotechnology and Food Science, at the Slovak Agricultural University in Nitra, Slovakia. For her thesis she studied genetic polymorphism of ewe's milk proteins and its impact on the functional and technological properties of milk and effect of the SCC-based selection in sheep on the resistance to experimental intra-mammary *Staphylococcus* infections. During a first post-doctoral position at INRA of Jouy en Josas, France, Zuzana was involved in the search for intestinotrophic factors in milk, blood serum and on the role of intestinal microbiota of PRM/Alf mice in intestinal lengthening. Her latest research interests include milk protein characterization and quantification by a novel LC-MS method.

Sanjana Kuruppath

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Sanjana is in the process of completing her doctoral program from School of Medicine at Deakin University, Geelong, Australia. Her PhD project entitled "PROGRAMMED FUNCTION OF THE TAMMAR MAMMARY GLAND; The role of Milk Proteins in gut development" was under the supervision of Professor Kevin R. Nicholas. As a whole, she has about seven years of research experience in the fields of molecular biology, cell biology, bioinformatics, histology, microbiology and immunology. During her research career, she was able to contribute towards eight publications.

Carlito B. Lebrilla, Ph.D.

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Dr. Carlito B. Lebrilla is a Distinguished Professor at the University of California, Davis in the Department of Chemistry and Biochemistry and Molecular Medicine in the School of Medicine. He received his BS degree from the University of California, Irvine and Ph.D. from the University of California, Berkeley. He was an Alexander von Humboldt Fellow and a NSF-NATO Fellow at the Technical University in Berlin. He returned to the UC Irvine as a President's Fellow and has been at UC Davis since 1989. He has served as Chair of the Chemistry Department. His research is in Analytical Chemistry, primarily mass spectrometry with applications to clinical glycomics and biofunctional food. He has over 270 peer-reviewed publications. He is also co-editor of *Mass Spectrometry Reviews* and has been on the editorial board of *Molecular and Cellular Proteomics*, *Mass Spectrometry Reviews*, *Journal of American Society for Mass Spectrometry*, *European Mass Spectrometry*, and *International Journal of Mass Spectrometry*.

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Bokyung Lee is a PhD student in Food Science and Technology at the University of California, Davis. Under the supervision of Dr. Maria Marco, her research focuses on understanding the relationship between probiotics and milk delivery matrices for conferring improved health benefits in the mammalian gut.

Hyeyoung Lee, Ph.D.

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Hyeyoung completed a Ph.D. in Bruce German's lab and Carlito Lebrilla's lab at UC Davis, and now she is working with Daniela Barile at the same university. Her work focuses on the development of mass spectrometry methods for glycolipids, glycans and lipids, as well as applications of the technology for nutritional studies. She is interested in a career as a food scientist specializing in mass spectrometry based omics research.

Klaus Lehnert, Ph.D.

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Klaus is a functional molecular biologist interested in the molecular mechanisms and genetic architectures underlying biological traits. PhD in molecular genetics from Darmstadt University (Germany), PostDoc at University of Auckland Medical School, then leading research into genetics of milk composition at ViaLactia Biosciences. He is currently at University of Auckland School of Biological Sciences, working in bovine and human genomics, with focus on identification of mutations causing interesting biological effects.

Danielle G. Lemay, Ph.D.

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Danielle Lemay is a professional researcher at the Genome Center of the University of California, Davis. Her research program on the “omics” of milk and mammary biology encompasses both basic and translational science. She is also the Executive Editor of the IMGC’s monthly e-newsletter, “*SPLASH!* milk science update”. She has a PhD and MS in Nutritional Biology from UC Davis and a BS in Electrical Engineering & Computer Science from MIT.

Zachery T Lewis

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Zachery Lewis is a fourth-year PhD student in the Microbiology Graduate Group at the University of California-Davis. Zac is a microbial ecologist in the lab of Dr. David Mills, where he studies the effects of breast milk on beneficial gut bacteria in infants. He has BS in microbiology from Brigham Young University with a minor in Spanish. Zac is originally from North Carolina, USA. He lives in Davis, California with his wife and eight fish.

Juan F. Medrano, Ph.D.

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Juan F. Medrano is a Professor of Animal Genetics in the Department of Animal Science at the University of California, Davis. His research focuses on animal genomics, specifically on the applications of next generation sequencing to study the genetic variation of complex traits, such as the nutritional and health components of milk. He teaches Animal Genetics, Applied Statistics and Bioinformatics.

Dr. Medrano received a degree in agriculture from Zamorano University in Honduras, and completed his M.S. in Animal Science and Ph.D. in Genetics from the University of California, Davis. Following his graduate work, he was a post-doctoral fellow at the Institute of Nutrition for Central America and Panama (INCAP). He joined the faculty of the University of California, Davis in 1985. Currently he serves as the USDA\NRSP8 Cattle Genome Coordinator.

David Mills, Ph.D.

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Dr. Mills studies the molecular biology and ecology of lactic acid bacteria that play an active role in gut health. In the last 20 years Dr. Mills has published more than 100 papers including seminal work on lactic acid bacterial genomics, mentoring over 30 graduate students and postdocs. At UC Davis, Dr. Mills co-founded the Milk Bioactives Program—a successful multidisciplinary effort to define, investigate and translate the beneficial aspects of human milk and its role in human health. Dr. Mills has served as a Waksman Foundation Lecturer for the American Society for Microbiology and currently serves as an associate editor for the journal Microbiology. In 2010 Dr. Mills was awarded the Cargill Flavor Systems Specialties Award from the American Dairy Science Association and in 2012 he was named the Peter J. Shields Endowed Chair in Dairy Food Science.

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After completion of his Bachelors in biotechnology, Modepalli joined Deakin University Australia to pursue a master's degree in biotechnology. While doing his research project under Professor Kevin Nicholas, he decided to extend his knowledge by undertaking a PhD. Vengamanaidu started his PhD in 2011 and is studying the role milk factors in the lung development of marsupial Tammar Wallaby neonate.

Giuliana Noratto, Ph.D.

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Dr. Giuliana Noratto is an Assistant Professor at Washington State University, School of Food Science. She received her doctoral degree in Nutrition and Food Science from Texas A&M University and was a Postdoctoral Fellow and Research Scientist at the Institute for Obesity Research and Program Evaluation at Texas A&M University.

Her research program is focused on the role of bioactive compounds from milk and dairy products in the prevention or progression of obesity-related chronic diseases.

Helen E Raybould, Ph.D.

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Dr. Raybould is integrative physiologist with training in neurophysiology and gastrointestinal physiology. Her research focuses on understanding the mechanisms by which nutrients are sensed by chemosensing cells in the gut epithelium and the role of the vagal afferent pathway in mediating the effects of nutrients on gastrointestinal function and food intake. Raybould's laboratory has made important observations on how lipid, glucose and protein are sensed by endocrine cells in the gut and how this information is transmitted to the central nervous system to alter GI function and food intake. The research also focuses on how other luminal contents are sensed by gut endocrine and enterochromaffin cells, including bacterially-derived factors. Recently, her research program has focused on how these pathways are altered in metabolic disease including obesity and type 2 diabetes. In particular, research focuses on alterations in gut microbiota and intestinal permeability in high-fat feeding and obesity and how this may drive changes in signaling in the gut-brain pathway. The laboratory also works on the beneficial effects of prebiotics milk oligosaccharides and probiotic commensal bacteria in metabolic disease.

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Dr. David Sela's research focuses on the means by which dietary molecules influence the population structure, and often function, of the microbiota that colonize our gastrointestinal tract. Dr. Sela's lab examines host-microbial interactions mediated by nutrition at several levels of resolution. He is interested in the genomics and physiology of isolated microbial commensals, community-level form and function of the microbiome, as well as quantifying parameters of subject health in response to dietary manipulations of their microbiome. Dr. Sela joined the Department of Food Science at University of Massachusetts Amherst after conducting postdoctoral research at the Foods for Health Institute at UC Davis.

Julie Sharp, Ph.D.

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Dr. Julie Sharp obtained her PhD from the Department of Genetics at The University of Melbourne. She obtained a 5 year Thomaïy Fellowship and worked at the Department of Surgery at St. Vincent's Institute in the area of breast cancer invasion and metastasis. Julie then joined Dr. Kevin Nicholas in the Department of Zoology at The University of Melbourne for 5 years, and then later moved to Deakin University, Geelong for another 5 years to work in the area of mammary gland biology.

Jennifer T. Smilowitz, Ph.D.

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Dr. Smilowitz is the Associate Director of Human Studies Research for the Foods for Health Institute (FFHI). She holds a doctoral degree in Nutritional Biology with an emphasis in Endocrinology from the University of California Davis. Dr. Smilowitz is a Fellow of the Business Development Program at the UC Davis Graduate School of Management and Center for Entrepreneurship. As Associate Director she developed the FFHI *Human Studies Research Program* in an effort to advance the translation and investigate the relationships between food and health of the FFHI's *Functional Glycobiology, Milk Bioactives, and Metabolic Phenotype Programs*. During her Ph.D. program, Dr. Smilowitz discovered metabolic phenotypes associated with changes in body composition in a large-multi-center and designed and executed several human studies probing specific lipid metabolic pathways in the inflammation cascade. Dr. Smilowitz currently studies the relationships between maternal diet, lifestyle and health status on the complex supramolecular structures produced in milk during lactation and their health outcomes in the neonate. Dr. Smilowitz is the contact person at FFHI for investigators interested in obtaining structural support and guidance for designing human studies designed to assess metabolic, performance and health responses to food.

Daylan A. Tzompa-Sosa

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Daylan Tzompa is a PhD student in the group of Dairy Science at Wageningen University. Her PhD project focuses on the influence of fatty acid composition and stereochemistry on physical properties of milk fat triacylglycerols and their relation with DGAT1. The aim of this work is to open up the possibility of selecting the structure of fats to target specific functionalities.

Johan van Arendonk, Ph.D.

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Dr. van Arendonk received his MSc in Animal Sciences from Wageningen University in 1982 with the 'cum laude' honour award. He received his PhD in Animal Breeding and Farm Economics from Wageningen University in 1985 on dissertation: "Studies on the replacement policies in dairy cattle". He has since spent his academic career in the Animal Breeding and Genetics at Wageningen University where he is currently a full professor and Dean of Sciences.

He has focussed his research on identifying important genetic factors in the functioning of farm animals and on designing optimum schemes for long-term selection. In the 1990s, he and his team did pioneering work related to the design and analysis of studies to detect genes influencing economically important traits in farm animals. In 2004, he initiated an innovative genomics research program: the "Milk Genomics Initiative". The program capitalized on the increasing knowledge of the cattle genome sequence and of the function of the genome. His research increased the understanding of genetic variation in milk quality and resulted in tools to exploit natural genetic variation in milk-quality for selection in commercial cows. The "Milk Genomics Initiative" provided the "breeding ground" for a large project involving genetics, (rumen) microbiology and feeding on methane emission which started last year.

In 2006, he received the Justus-vonLiebig-Preis from the University of Kiel, for his contributions to the field of biotechnology and animal breeding. In 2011, he received the *Doctor Honoris Causa* degree from the University of Life Sciences (Poznan, Poland).

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Dr. Marleen Visker is researcher at the Animal Breeding and Genomics Centre of Wageningen University. She obtained her PhD in plant sciences at Wageningen University and performed postdoctoral research at the division of Human Nutrition at this university. She has worked for the Dutch Milk Genomics initiative on identification of genes contributing to natural genetic variation in milk-quality traits since 2006. Currently, she works on exploring the genetic variation in methane emission by dairy cows.

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Tom Wheeler has investigated the complexity of milk using proteomics and related technologies. He has investigated the composition and functionality of a number of minor milk proteins in host defence against infection, as well as their role in optimal digestive tract function and immune system development.

Peter Williamson, Ph.D.

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Associate Professor Peter Williamson has over 28 years experience in research in the fields of genomics, immunology, immunogenetics, lymphocyte cell biology and lactation. He completed a PhD in Animal Science at the University of Sydney and then a post-doctoral fellowship in the Division of Immunobiology at the University of Pennsylvania, Philadelphia. Upon returning to Australia he established a research laboratory at the Westmead Millennium Institute where he continued studies in molecular and cellular biology and developed projects that apply post-genomic technologies to understanding cellular systems. Peter joined the Faculty of Veterinary Science, University of Sydney in 2003 as a Principal Research Fellow in Functional Genomics, and became Associate Professor of Genomics in 2008. He is currently Associate Dean for Research, and is co-Chair of the IMGC Scientific Advisory Committee. His research work has been supported by the NIH (USA), the Dairy CRC, Dairy Australia, National Health and Medical Research Council of Australia, NSW Cancer Council, Multiple Sclerosis Society of Australia, Canine Research Foundation, and others.

Xiaochen Yin

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Xiaochen Yin (Ellie) is a second year PhD student under the supervision of Dr. Maria Marco at UC Davis. She obtained her Master's degree in microbiology from Shanghai JiaoTong University in 2012. During her Master's research, Ellie explored the influence of traditional Chinese medicine on the gut microbiota of rats. For her PhD research, she is studying the host-microbe interaction between lactic acid bacteria and different food systems as well as their effects in the mammalian digestive tract, including the change of gut microbiota and modulation of the host's immune system.