

ONE GOLDEN GLANCE OF IMMUNOLOGY



JOINT PhD SYMPOSIUM





16th- 17th November 2021

SPEAKERS ABSTRACT BOOK



















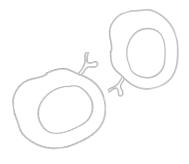






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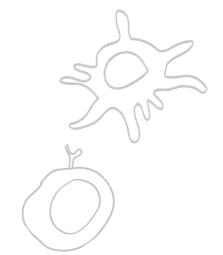




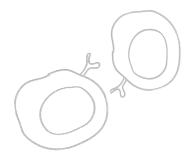
Computational tools to study T cells and autoimmunity

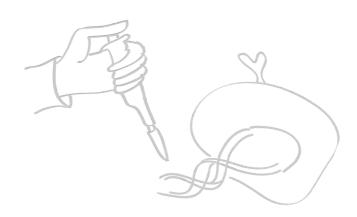


Laura Elo, Ph.D. University of Turku Turku, Finland



Laura Elo is Professor of Computational Medicine and Head of Turku Medical Bioinformatics Centre, University of Turku, Finland. She received her Ph.D. in Applied Mathematics in 2007 and became Adjunct Professor in Biomathematics in 2011. After postdoctoral research in molecular immunology and systems biology, she received the JDRF Career Development Award from the U.S. and established herself as an independent group leader. In 2014 she became Research Director and in 2016 Vice Director of Turku Bioscience. In 2019 she received the L'Oréal-UNESCO International Rising Talent Award. Her group, of around 25 people, develops computational tools to interpret molecular and clinical data in several research projects (e.g. ERC, ITN). She has published more than 120 research articles and 19 software packages.

















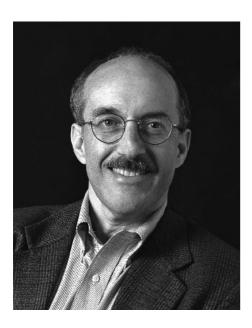






Is this the "good side" of allergy?

Mast cells and IgE orchestrate protective immune responses to diverse venoms and *Staphylococcus aureus*



Stephen J. Galli, M.D. Stanford University Stanford, California, USA

Dr. Stephen Galli joined Stanford as chair of Pathology (1999-2016), the Mary Hewitt Loveless, M.D. Professor in the School of Medicine and Professor of Pathology and of Microbiology and Immunology. Previously, he was Professor of Pathology at Harvard Medical School. He was president of the American Society for Investigative Pathology (ASIP) and was elected to the Collegium Internationale Allergologicum (president: 2010-2014), the American Society for Clinical Investigation, the Association of American Physicians, the American Clinical and Climatological Association, and the National Academy of Medicine, and is a Fellow of the American Association for the Advancement of Science and a foreign member of the Accademia Nazionale dei Lincei in Rome. He received a MERIT Award from the U.S. NIH, Scientific Achievement Awards from the International Association of Allergy & Clinical Immunology (1997) and the World Allergy Association (2011), the ASIP Rous-Whipple Award (2014), the Austrian Society of Allergology and Immunology's Karl Landsteiner Medal (2014) and the Dottorato di Ricerca Honoris Causa in Medicina Clinica e Sperimentale, University of Naples Federico II, Naples, Italy (2019). His research is in mast cell and basophil biology, including their roles in allergic disorders, and he investigates the beneficial roles of mast cells and IgE in innate and adaptive immune responses to venoms and certain bacteria.













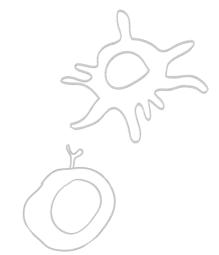






Deciphering myeloid cell biology using single cell technologies





Florent Ginhoux, Ph.D.
Agency for Science, Technology and Research
Singapore, Singapore

Florent Ginhoux graduated in Biochemistry from the University Pierre et Marie CURIE, Paris VI and obtained a Master's degree in Advanced Studies in Immunology from the Pasteur Institute, Paris. He obtained his Ph.D. in 2004 from the University Pierre et Marie CURIE, Paris VI. As a postdoctoral fellow, he joined the Laboratory of Dr. Miriam Merad at Icahn School of Medicine at Mount Sinai (ISMMS), New York where he studied the ontogeny and the homeostasis of cutaneous dendritic cell populations, with a strong focus on Langerhans cells and Microglia. In 2008, he became an Assistant Professor in the Department of Gene and Cell Medicine, ISMMS and a member of the Immunology Institute of ISMMS. He joined the Singapore Immunology Network (SIgN), A*STAR in May 2009 as a Principal Investigator. He joined the EMBO Young Investigator (YIP) program in 2013 and the GSK "Elion and Black Immunology Catalyst Sabbatical programme" in 2016. He is a Web of Science Highly Cited Researcher since 2016. He is also an Adjunct Visiting Associate Professor in the Shanghai Immunology Institute, Jiao Tong University, in Shanghai, China since 2015 as well as Adjunct Associate Professor in the Translational Immunology Institute, SingHealth and Duke NUS, Singapore since 2018. His laboratories are focusing on the ontogeny and differentiation of macrophages and dendritic cells.

















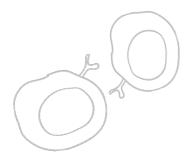


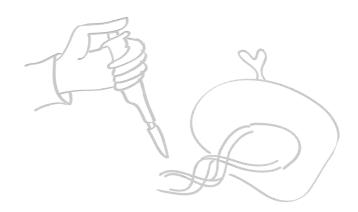
Sensitizing cells to chemotherapy by targeting metabolic adaptation to redox stress



Eyal Gottlieb, Ph.D.
Technion, Israel Institute of Technology
Haifa, Israel

Eyal Gottlieb received his Ph.D. in Molecular Cell Biology in 1998 at the Weizmann Institute of Science in Israel. He continued with a postdoctoral fellow, he finished in 1999 at the University of Chicago, before going to the University of Pennsylvania, where he finished his 2nd postdoctoral studies in 2003. He is the recipient of multiple honours and awards, including Fellow, European Molecular Biology Organization (1998-99) and Special Fellow, Leukemia and Lymphoma Society of America (2001-03). His lab studies the role of metabolic reprogramming in cancer, cardiomyopathy and fatty liver disease. In the lab they combine metabolomics and genetics to identify crucial metabolic pathways and processes with the aim of developing new treatment strategies.



















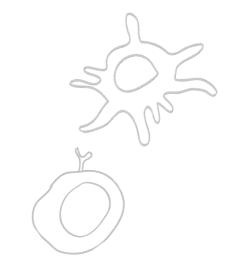




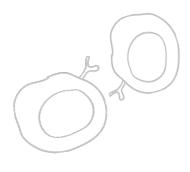
Identifying single genes that impact T cell effector function

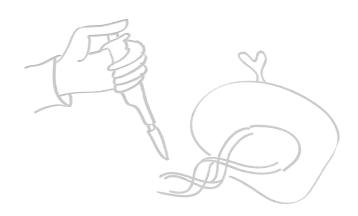






Gillian Griffiths FMedSci, FRS obtained her Ph.D. at the MRC Laboratory of Molecular Biology in 1984, with Cesar Milstein. After a post-doctoral fellowship at Stanford University, she started her own research laboratory at the Basel Institute for Immunology in Switzerland. She returned to University College London, before moving to the Dunn School of Pathology, Oxford where she held her lab from 1997-2007. She then moved to the Cambridge Institute for Medical Research (CIMR) where she was Director 2012-2017. She is a Fellow of the Academy of Medical Sciences (2005), EMBO (2006), and a Fellow of the Royal Society (2013). Her lab discovered new genes that suggest that many different components within killer cells play a part in delivering the lethal hit. She studies killer cells in which the new genes are missing to see where things go wrong. By understanding exactly how killer cells work, she hopes to improve new cancer therapies which are aimed to help killer cells.



















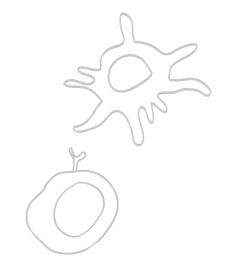




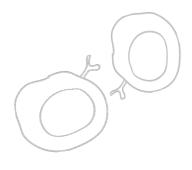
Education of host immunity through gut fungal commensalism

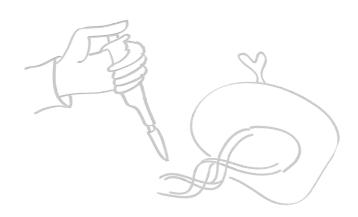


Iliyan D. Iliev, Ph.D. Weil Cornell Medicine New York, USA



Iliyan Iliev is an associate professor of Microbiology and Immunology in Medicine at Weill Cornell Medicine, New York. He received his Ph.D. in 2009 in Molecular Oncology at the European School of Molecular Medicine & The University of Milan in Italy. He is the recipient of multiple honours and awards including Young Investigator Award, Weill Cornell Medicine, NYC (2018) and Burroughs Wellcome Fund Investigator in the Pathogenesis of Infectious Disease (2020). His laboratory studies the interaction between commensal microbiota and the immune cells at the mucosal surfaces of the body. The laboratory develops and uses computational and experimental approaches to study the role of mycobiota and immunity early or later in life, upon therapeutic interventions and during conditions, such as inflammatory bowel disease, airway diseases, and immunodeficiencies, where fungi contribute to pathologies.















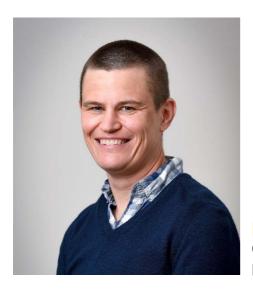








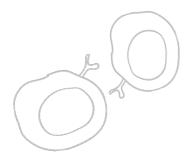
Contact-dependent determinants of human natural killer cell development

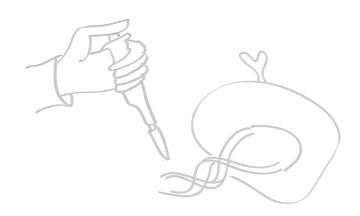






Emily Mace is an assistant professor of Paediatric Immunology at the University of Columbia. She received her Ph.D. in Genetics in 2010 at the University of British Columbia, Vancouver, Canada. Her 1st postdoctoral fellow was at the Children's Hospital of Philadelphia, before going for a 2nd postdoctoral fellow at the Baylor College of Medicine. She is the recipient of multiple honours and awards, including the Schaefer Scholar Award (2020) and NIH Director's Fund New Innovator Award (2018). Her research program aims to dissect the requirements for human NK cell differentiation. This is achieved through the modelling of rare patient variants that affect NK cell development as well as through basic cell biological studies. In addition to her studies of primary immunodeficiency, her lab has experts in high- and super-resolution imaging and the application of these technologies to the study of human NK cell function and development.

















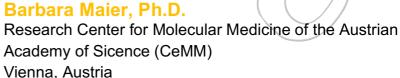




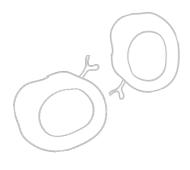


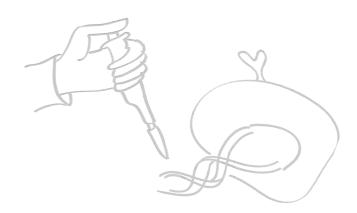
Innate regulation of tumor-directed T cell immunity





Barbara Maier obtained her Ph.D. in Immunology in 2015 at the Medical University of Vienna. After her postdoctoral studies in the lab of Dr. Miriam Merad at Icahn School of Medicine at Mount Sinai, New York she returned to Vienna and joined the Research Center for Molecular Medicine of the Austrian Academy of Sicence (CeMM) as a Principal Investigator. She is interested in the mechanisms of immunosuppression and immunotherapy in solid tumours. Her main research focus are myeloid cells in the tumour microenvironment, and how they shape anti-tumour immunity as well as cancer progression and invasion. She uses innovative single cell approaches to decipher the complexity of tumour-associated immune cells. Her research includes both patient's tumour samples, to directly assess disease complexity, as well as murine systems, modelling human disease as a flexible experimental system allowing to address mechanistic questions.

















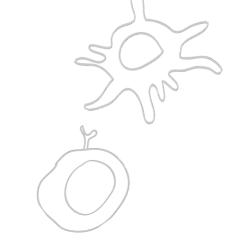






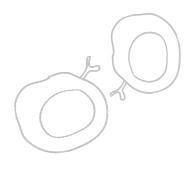
Mapping uncharted landscapes of host-microbiota communication

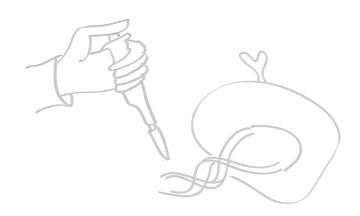




Noah W. Palm, Ph.D. Yale School of Medicine New Haven, USA

Noah W. Palm received his B.A. in Biology from Macalester College and performed doctoral work with Dr. Ruslan Medzhitov and postdoctoral work with Dr. Richard Flavell at Yale University. Currently, he is an Assistant Professor of Immunobiology at Yale University School of Medicine. He is the recipient of multiple honours and awards, including the Smith Family Foundation Award for Excellence in Biomedical Research, Pew Biomedical Scholar Award, and NIH Director's New Innovator Award. His lab focuses on understanding how the trillions of microbes that live in and on us (our microbiota) interact with and influence their mammalian hosts. His work particularly emphasizes the development of new technologies to deconvolute complex host-microbiota interactions and reveal causal roles for the microbiota in human health and disease.























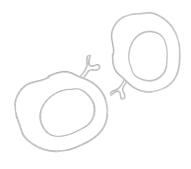
Nucleic Acid Sensing by Innate Immune Receptors

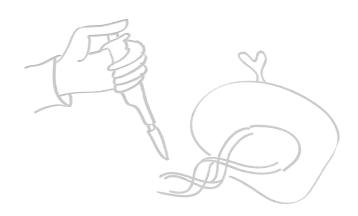


Jan Rehwinkel, Ph.D. University of Oxford Oxford, UK



Jan Rehwinkel received his Ph.D. in 2007 at European Molecular Biology Laboratory (EMBL) under the supervision of Elisa Izaurralde. As a postdoctoral fellow, he joined the group of Caetano Reis e Sousa, then at the Cancer Research UK London Research Institute, London. His lab research dissects nucleic acid sensing by innate receptors in the context of virus infection, autoinflammatory disease and cancer and particularly focuses on cytosolic nucleic acid sensors, like RIG-I, MDA5 and cGAS. In the lab, they are also studying the restriction factor SAMHD1. To study this, his lab uses *in vitro* and *in vivo* models of virus infection (including influenza A virus, retroviruses and varicella-zoster virus) and are interested in Aicardi-Goutières syndrome, a rare genetic disease linked to chronic anti-viral innate immune responses.



















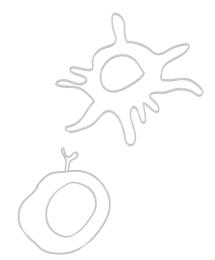




Dynamics of gut-resident T cells during secondary infections







Dietmar Zehn studied medicine at the Humboldt University of Berlin from 1996 to 2004. Afterwards he spent 5 years as a postdoctoral researcher at the University of Washington/Seattle. In 2009 he joined the division of Immunology at the Centre Hospitalier Universitaire Vaudois (CHUV) of the University of Lausanne. A year later he was appointed Assistant Professor. In 2013 he received a professorship sponsored by the The Swiss National Science Foundation (SNF). In 2015 he was appointed Professor at the Technical University of Munich (TUM) and in the same year, he relocated his laboratory to the TUM campus in Weihenstephan. His lab studies molecular and cellular mechanisms underlying T cell dysfunction ("exhaustion") in chronic infections and tumours, effector and memory T cell differentiation, immune tolerance, and autoimmune diseases

