PROGRAM | MONDAY | 2 DECEMBER

13:30 - 14:30

Poster Session - Odd numbers

SESSION 2: TYPE 2 IMMUNITY IN PATHOGEN CLEARANCE Registration & coffee 08:00 - 08:35 08:35 - 08:45 Welcome by Bart Lambrecht 14:30 - 15:00 From Zebrafish to Humans: How Pathogenic Mycobacteria Reprogram the Host Immune Response **KEYNOTE David Tobin,** Duke University School of Medicine, US 15:00 - 15:30 Perforin 2 controls unconventional cytokine release from mucosal APC **De'Broski R. Herbert,** University of Pennsylvania, School of Veterinary 08:45 - 09:30 Type 2 immunity and tissue resilience Richard M. Locksley, University of California, San Francisco, US Medicine, US 15:30 - 16:00 Matrix Regulation by Type 2 cytokines SESSION I: TYPE 2 EFFECTOR MECHANISMS **Judi Allen,** Lydia Becker Institute for Immunology & Inflammation, The University of Manchester, UK 09:30 - 10:00 Cellular Mechanisms of Food Allergy 16:00 - 16:15 Selected Talk: Tissue remodeling by an opportunistic pathogen Abstract 2 **Stephanie Eisenbarth**, Northwestern Feinberg School of medicine, US triggers allergic inflammation Karen Agaronyan, Yale University and HHMI, US 10:00 - 10:30 Cytokines in Type 2 Inflammation Jamie Orengo, VP Research-Allergy & Immunity Regeneron Pharmaceuticals, US 16:15 - 16:45 Coffee break 10:30 - 11:00 Coffee break SESSION 3: TYPE 2 IMMUNITY-NEURONAL INTERACTIONS 11:00 - 11:30 Eosinophil subsets in intestinal inflammation Isabelle Arnold, University of Zurich, CH 16:45 - 17:15 Non-redundant functions of group 2 innate lymphoid cells Neuro-immune axis in cancer: ILC-you in the bladder! Christoph Klose, Charité Universitätsmedizin Berlin, DE 11:30 - 12:00 Camilla Jandus, University of Geneva & Ludwig Institute for Cancer Research Lausanne, CH 17:15 - 17:45 Neuronal regulation of innate lymphoid cells **Henrique Veiga-Fernandes,** Champalimaud Center for the Unknown, PT Protein crystals as drivers of Type 2 inflammation and mucus plugging 12:00 - 12:30 Bart Lambrecht, VIB-UGent Center for Inflammation Research, BE 17:45 - 18:00 Selected Talk: Tuft cell-derived acetylcholine regulates epithelial fluid Abstract 8 secretion during homeostasis and Type 2 immunity 12:30 - 12:45 Selected Talk: The aryl hydrocarbon receptor promotes intestinal Tyler Billipp, University of Washington Seattle, US Abstract 19 tissue adapation of eosinophils Nicola Diny, The Francis Crick Institute, GB 18:00 - 19:00 Reception Guided tour to the conference restaurant 12:45 - 12:50 Sponsored Talk: PerkinElmer 19:00 - 20:00 Conference dinner @ VOLTA 12:50 - 13:30 Lunch 20:00 - 22:30

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PROGRAM | TUESDAY | 3 DECEMBER

08:30 - 09:15 Registration & coffee

	SESSION 4: TYPE 2 IMMUNITY METABOLISM		SESSION 6: TYPE 2 IMMUNITY EARLY LIFE	
	09:15 - 09:45	Species-specific regulation of IL-33 Anne Sperling, <i>University of Virginia, US</i>	14:15 - 14:45	Stromal-immune interactions drive allergic immunity in the lung Clare Lloyd, Imperial College London, UK
	09:45 - 10:15	Metabolic roles of Th2 cytokines Chih-Hao Lee, Harvard University T.H. Chan School of Public Health, US	14:45 - 15:15	Neonatal exposure to environmental triggers influences type 2 immunity to allergens Hamida Hammad, VIB-UGent Center for Inflammation Research, BE
	10:15 - 10:45	A Metabolic Perspective of Human ILC Differentiation James Di Santo, Institut Pasteur, FR	15:15 - 15:30 Abstract 21	Selected Talk: Co-existing Atoh1+ and Atoh1– progenitors contribute to tuft cell expansion during intestinal helminth infection
	10:45 - 11:15 SESSION 5- IIN	SUSPECTED ROLES OF ILCS IN HOMEOSTASIS	15:30 - 16:00	Xiaogang Feng, Institute of Physiology, University of Zurich, CH Coffee break
	11:15 - 11:45	Function of ILC2 in bone marrow Masaru Ishii, Osaka University Graduate School of Medicine, IP	16:00 - 16:30	The gut-lung axis: how early life perturbation of the microbiome influences Type 2 inflammation Benjamin Marsland, <i>Monash University, AU</i>
	11:45 - 12:15	Regulation of DC2 differentiation and function by dermal cytokines Franca Ronchese, Malaghan Institute of Medical Research, NZ	KEYNOTE	
	12:15 - 13:15	Lunch	16:30 - 17:15	Human T lymphocytes: differentiation, migration and immune regulation
	13:15 - 14:15	Poster Session - Even numbers		Federica Sallusto, Institute of Microbiology, ETH Zurich and Institute for Research in Biomedicine, Università della Svizzera Italiana, CH
			17:15 - 17:25	Closing remarks by Bart Lambrecht

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PROGRAM | WEDNESDAY | 4 DECEMBER

SATELLITE: FROM BASIC SCIENCE IN TYPE 2 IMMUNITY TO THE CLINIC

08:15 - 08:40 Registration & coffee

08:40 - 08:45 Welcome

SESSION I: MUCUS PLUGGING		SESSION 3: EOS	SESSION 3: EOSINOPHILS	
08:45 - 09:30	Keynote: Clinical and molecular phenotypes of type 2 high forms of asthma John Fahy , <i>University of California San Francisco</i> , <i>UCSF</i> , <i>US</i>	14:15 - 14:45	Targeting eosinophils in systemic eosinophilic conditions: achievements and challenges Florence Roufosse, ULB, BE	
09:30 - 10:00	Mucus Plugging in Asthma – more than an obstruction to breathing Benjamin Medoff, Mass General Brigham & Harvard Medical School, US	14:45 - 15:15	Modeling human lung disease using iPSC derived airway epithelium	
10:00 - 10:30	Epithelial Barrier Theory and Type 2 Immune Response Cezmi Akdis, University of Zurich, CH	15:15 - 15:30	Engi Ahmed, VIB Center for Inflammation Research, BE Selected Talk: High-dimension flow cytometric screening resolves	
10:30 - 11:00	Coffee break	Abstract 36	distinct stages of eosinophil development and Interleukin-5-driven transit amplification in eosinophilia Christophe Desmet , <i>Liege University, BE</i>	
SESSION 2: BIOLOGIC INTERVENTIONS		15:30 - 16:00	15:30 - 16:00 Airway Mucus: Production and Secretion of Glycopolymers in Health and Disease	
11:00 - 11:30	Choosing Biologics Wisely for Severe Asthma: Complex Interplay between Eosinophils and Mucus	16:00 - 16:10	Christopher Evans, University of Colorado, US Closing of the conference	
	Parameswaran Nair, McMaster University, CA	10.00 - 10.10	Closing of the comerence	
11:30 - 12:00	Is targeting the eosinophil sufficient in eosinophilic asthma? David Jackson, King's Centre for Lung Health, UK			
12:00 - 12:45	Keynote: Specific B cell responses in natural and induced B cell tolerance Mübecell Akdis, Swiss Institute of Allergy and Asthma Research, University Zurich, CH			
12:45 - 14:15	Lunch & poster session			

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