

DAY 1 - AM

08:30 - 08:50 Registration & coffee

08:50 - 09:00 Welcome

## OPENING KEYNOTE

09:00 - 09:45 From inborn errors of immunity to (physio)pathology and therapy.  
The case of « SCID-X1 »  
**Alain Fischer**, Collège de France, Imagine Institute, AP-HP Hôpitaux de Paris, FR

## SESSION I: LYMPHOCYTE IMMUNE REGULATION

09:45 - 10:15 The Identification of precursors of tissue resident memory T Cells  
**Klaas van Gisbergen**, Sanquin, NL

10:15 - 10:45 Harnessing innate immunity in cancer therapy  
**Eric Vivier**, CIML (Center of Immunology of Marseille-Luminy), FR

10:45 - 11:15 Stromal cell-centric bone marrow inflammation in multiple myeloma  
**Tom Cupedo** - ErasmusMC Cancer Institute, NL

11:15 - 11:45 Coffee break

11:45 - 12:15 Stress-induced local tissue priming in the joints  
**Georg Schett**, Friedrich-Alexander University Erlangen-Nürnberg, DE

12:15 - 12:45 Tissue- and inflammation-specific imprinting of human innate lymphoid cells  
**Jenny Mjösberg**, Karolinska Institute, SE

12:45 - 13:00 **Abstract 36** Selected Talk: GTF3A mutations in a patient with herpes simplex encephalitis reveals a novel role in viral immunity by transcribing 5S rRNA pseudogenes serving as RIG-I ligands  
**Leslie Naesens**, Ghent University, Primary Immunodeficiency Research Lab, BE

13:00 - 13:05 Sponsored talk - Uncovering infectious disease mechanisms through immunogenomics  
**Koen De Galas** - Science and Technology Advisor, 10x Genomics

13:05 - 13:45 Lunch

13:45 - 14:45 Poster session 1 (All odd numbers)

DAY 1 - PM Session

## SESSION 2: FUNDAMENTAL IMMUNOLOGY FOR BETTER INTERVENTION DESIGN

- 14:45 - 15:15** Rebalancing immune responses in COVID-19  
**Mihai Netea**, Radboud University Medical Center
- 15:15 - 15:45** Dissecting human antibody responses: useful, basic and surprising findings  
**Antonio Lanzavecchia**, ETH Zurich, CH
- 15:45 - 16:15** Targeting FcRn for therapy  
**Sally Ward**, University Of Southampton, UK
- 16:15 - 16:45** Coffee break
- 16:45 - 17:00** *Abstract 59* Selected Talk: From bench to bedside: the preclinical development of BYON4228, a selective pan-allelic SIRPα blocking antibody designed to improve efficacy of therapeutic anti-tumor antibodies  
**Mary Van Helden**, Byondis BV, Nijmegen, NL
- 17:00 - 17:15** *Abstract 7* Selected Talk: Anti-CD45RC antibody immunotherapy for the treatment of the Autoimmune Polyendocrinopathy Candidiasis Ectodermal Dystrophy (APECED) syndrome  
**Carole Guillonnet**, Université de Nantes, Inserm, Centre de Recherche en Transplantation et Immunologie, UMR 1064, FR
- 17:15 - 17:30** *Abstract 2* Selected Talk: Protein crystals as a therapeutic target for Type 2 inflammation  
**Helena Aegerter**, VIB-UGent Center for Inflammation Research, BE
- 17:30 - 18:00** Therapeutic Complement C3 Inhibition: Misconceptions, Myths, and Novel Insight  
**Dimitrios Mastellos** - National Center for Scientific Research 'Demokritos', GR
- 18:00 - 19:00** Reception
- 19:00 - 20:00** Guided tour + conference dinner (Restaurant Volta)

DAY 2 - AM Session

**08:30 - 09:00** Welcome coffee

## SESSION 3: TISSUE-SPECIFIC IMMUNITY

- 09:00 - 09:30** Early remission induction as gateway to restoring immune homeostasis in arthritis  
**Dirk Elewaut**, VIB-UGent Center for Inflammation Research, BE
- 09:30 - 10:00** Translating Immunology into new treatments for Inflammatory Bowel Disease  
**Fiona Powrie**, Kennedy Institute of Rheumatology, University of Oxford, UK
- 10:00 - 10:15** *Abstract 28* Selected Talk: A systems immunology approach reveals distinct roles of non-genetics and genetics factors in shaping variation of immune responses in cattle  
**Shifang Li**, ULiege, BE
- 10:15 - 10:45** Coffee break
- 10:45 - 11:15** Resolving the spatial architecture of the liver at single-cell resolution  
**Martin Guillems**, VIB-UGent Center for Inflammation Research, BE
- 11:15 - 11:45** Macrophage heterogeneity in cancer  
**Florent Ginhoux**, Singapore Immunology Network (SigN) Agency for Science, Technology and Research (A\*STAR), SG
- 11:45 - 11:50** Sponsored Talk: Versatility and Rigor in Immunobiology  
**Anis Labri**, Beckman Coulter, FR
- 11:50 - 12:30** Lunch
- 12:30 - 13:30** Poster session (All even numbers)

### SESSION 4: BUGS AND DRUGS IN IMMUNOLOGY

- 13:30 - 14:00** TGF- $\beta$  mimics from parasites - new insights and potential for immune regulation  
**Rick Maizels**, *University of Glasgow, UK*
- 14:00 - 14:30** Exploring gut mycobiota function at high resolution: new implications for inflammatory diseases  
**Iliyan Iliev**, *Weill Cornell Medicine, US*
- 14:30 - 15:00** Microbes and metabolites in immune regulation  
**Kathy McCoy**, *University of Calgary, CA*
- 15:00 - 15:05** **Sponsored talk:** Uncovering infectious disease mechanisms through immunogenomics  
**Matthieu Pesant** - *Takara Bio Europe, FR*
- 15:05 - 15:35** Coffee break

### SESSION 5: COVID-19

- 15:35 - 16:05** Fighting coronavirus spikes with nanobodies  
**Xavier Saelens**, *VIB-UGent Center for Medical Biotechnology, BE*
- 16:05 - 16:35** Molecular Phenotypes of COVID-19 Acute Respiratory Distress Syndrome  
**Carolyn Calfee**, *UCSF, US*
- 16:35 - 16:50** **Abstract 24** Selected talk: IFN $\gamma$  mediates interactions of TIM-3 expressing TRBV11-2+ T cells, CD16+ NK cells and patrolling monocytes in MIS-C  
**Levi Hoste**, *Ghent University Hospital, BE*
- 16:50 - 17:20** Covid-19 : from Grand Challenge to opportunity  
**Bart Lambrecht**, *VIB-UGent Center for Inflammation Research, BE*
- 17:20 - 17:30** Poster prize ceremony & closing remarks