

PROGRAM

DAY 1: SUNDAY

17.00-17.30 Welcome (M. L. Lukic, J. Nikolich-Zugich, S. Jonjic)

Opening session

Chairs: A. Erdei - J. Nikolich - Zugich

17.30-18.00 Lorenzo Moretta (Institute Giannina Gasilini, Genova, Italy)

- *Natural killer cells: new approaches in the therapy of high risk leukemias*

18.00-18.30 Rene Van Lier (Sanquin Blood Supply Foundation, Amsterdam, The Netherlands)

- *Properties of tissue-resident CD8⁺ memory T cells*

18.30-19.00 Foo Y. Liew (University of Glasgow, Glasgow, UK)

- *The role of cytokines in infections and inflammation*

19.30- **Conference dinner (by invitation)**

DAY 2: MONDAY

07.30-08.30 **Breakfast**

Innate immune response in health and disease

Chairs: R. Van Lier - S. Jonjic

08.30-09.00 Marco Colonna (Washington University, St. Louis, MO, USA) - *Innate lymphoid cells in immunity*

09.00-09.30 Adrian Hayday (Kings College, London, UK) - *Epithelial regulation of intraepithelial T cell repertoires and response*

09.30-10.00 Andrew N. McKenzie (University of Cambridge, Cambridge, UK) - *Type-2 innate lymphoid cells in immunity and disease*

10.00-10.30 Andreas Diefenbach (Spemann Graduate School of Biology and Medicine, Institute of Medical Microbiology & Hygiene, Germany) - *Transcriptional control of innate lymphoid cell fate decisions*

10.30-11.00 **Coffee break**

Lymphocyte repertoire and immune response

Chairs: B. Kyewsky - G. Leposavic

11.30-12.00 Kristin A. Hogquist (University of Minnesota, Minneapolis, MN, USA) - *TCR reactivity in thymic selection*

12.00-12.30 Stephen Jameson (University of Minnesota, Minneapolis, MN, USA) - *The transcription factor KLF2 regulates T cell trafficking and differentiation*

- 12.30-13.00** Yousuke Takahama (Tokushima University, Tokushima, Japan) - *Thymic microenvironments that form T cell repertoire*
- 13.00-13.30** Juan Carlos Zuniga-Pflucker (University of Toronto, Toronto, Canada) - *Initiation of the T-lineage development program in response to Notch signals requires GATA-3 for survival and full commitment of early progenitors*
- 13.30-15.30** **Break and poster viewing**
- 15.30-17.30** **Immunometabolism and glycoimmunology**
Chairs: S. Gay - S. Stosic Grujicic
- 15.30-16.00** Marc Donath (University of Basel, Basel, Switzerland) - *Targeting inflammation in treatment of Type 2 diabetes: time to start*
- 16.00-16.30** Yvette Van Kooyk (University of Amsterdam, Amsterdam, The Netherlands) - *Nanotechnology aimed to design DC targeting vaccines for the induction of tumor-immunity*
- 16.30-17.00** Nada Pejnovic (University of Kragujevac, Kragujevac, Serbia) - *Galectin-3 in type 2 diabetes and immunometabolism*
- 17.00-17.30** Bojan Polic (University of Rijeka, Rijeka, Croatia) - *NK cells link obesity-induced adipose stress to inflammation and insulin resistance*
- 17.30-19.00** **Free time**
- 19.00-20.00** **Dinner**
- 20.00-22.00** **Poster discussion with refreshment**

DAY 3: TUESDAY

- 07.30-08.30** **Breakfast**
- 08.30-12.30** **Mechanism of tolerance, autoimmunity and immunopathology**
Chairs: Y. Van Kooyk - M. L. Lukic
- 08.30-09.00** Bruno Kyewski (German Center for Cancer Research, Heidelberg, Germany) - *Self-antigen diversity in the thymus: what thymocytes see and don't see*
- 09.00-09.30** Steffen Gay (University of Zurich, Zurich, Switzerland) - *Epigenetic regulation of inflammation in autoimmune diseases*
- 09.30-10.00** Sergei Nedospasov (Russian Academy of Science, Moscow, Russia) - *Dissecting pathogenic sources of TNF in disease and cell type-restricted cytokine targeting*
- 10.00-10.30** Anna Erdei (Eotvos Lorand University, Budapest, Hungary) - *Crosstalk between complement and Toll-like receptors; regulation of human B cell responses under physiological and autoimmune conditions*
- 10.30-11.00** **Coffee break**
- 11.00-11.30** Burkhard Becher (University of Zurich, Zurich, Switzerland) - *Cytokine networks in autoimmunity: How helper T cells instruct macrophages*

11.30-12.00 Branka Horvat (International Center for Infectiology Research-CIRI, Lyon, France) - *Emerging contagion: immunopathogenesis of henipavirus infection*

12.00-13.30 Short presentations
Chairs: Dj. Miljkovic – M. Colic

Megan Smithey (University of Arizona, College of Medicine, Tucson, USA) - *Aging with MCMV maintains TCR repertoire diversity in late life*

Branka Popovic (Faculty of Medicine, University of Rijeka, Rijeka, Croatia) - *IL-33-dependent immunosuppressive Treg responses to liver damage during MCMV infection*

Vivian Turner (University of Edinburgh, Edinburgh, UK) - *Dysregulated function of marginal zone B cells in aged mice*

Marija Milovanovic (Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia) - *CMV infection in neonatal and adult mice induces susceptibility to EAE in resistant BALB/c mice*

Kamar Sulu Atrekhany (Engelhardt Institute of Molecular Biology, Russian Academy of Sciences, Moscow, Russia) - *Systemic TNF ablation results in delayed tumor growth and reduced MDSC accumulation in transplantable tumor model*

Bojan Jevtic (Institute for Biological Research "Sinisa Stankovic", University of Belgrade, Belgrade, Serbia) - *MicroRNA-155 Contributes to Re-activation of Encephalitogenic T Cells*

13.30-14.30 Break and poster reviewing

14.30-17.00 Persistent and long term infections and their impact on aging
Chairs: M. Colonna – B. Polic

14.30-15.00 Beatrix Grubeck-Loebenstein (University of Innsbruck, Innsbruck, Austria) - *Aging and adaptive immunity in the human bone marrow*

15.00-15.30 Arne Akbar (University College London, London, UK) - *The regulation of T cell senescence and metabolism by p38 MAPkinase signaling*

15.30-16.00 Annette Oxenius (Swiss Federal Institute, Zurich, Switzerland) - *Regulation of T cell Immunity during viral infections*

16.00-16.30 Stipan Jonjic (University of Rijeka, Rijeka, Croatia) - *Vaccines and innate immunity: lessons from cytomegalovirus immunoevasion*

16.30-17.00 Janko Nikolich-Zugich (University of Arizona, Tucson, AZ, USA) - *TGF- β impairs CD4 and antibody responses in old mice to increase Chikungunya virus disease severity and viral persistence*

17.30-24.00 Excursion and conference dinner

DAY 4: WEDNESDAY

07.30-08.30 Breakfast

Short presentation

Chairs: M. Smithey – V. Volarevic

Miljana Momcilovic (Institute for Biological Research “Sinisa Stankovic”, University of Belgrade, Belgrade, Serbia) - *In Vitro Effects of Binuclear (η^6 -p-cymene) Ruthenium (II) Complex Containing Bridging Bis (nicotinate)-Polyethylene Glycol Ester Ligand on Differentiation Pathways of Murine Th Lymphocytes*

Lovro Lamot (University of Zagreb School of Medicine, Zagreb, Croatia) - *TRP channels overexpression contributes to inflammasome activation in clavicular cortical hyperostosis*

Gergely Toldi (Semmelweis University, Budapest, Hungary) - *Impact of aging on calcium influx and potassium channel characteristics of T lymphocytes*

Vladislav Volarevic (Faculty of Medical Sciences, University of Kragujevac, Kragujevac, Serbia) - *Mesenchymal stem cells attenuate acute liver injury mediated by NKT cells*

Microbiota, Autoimmunity Inflammation

Chairs: S. Nedospasov – N. Pejnovic

09.30-10.00 Leo Joosten (University of Nijmegen, Nijmegen, The Netherlands) - *Trained Immunity: consequences for inflammatory diseases?*

10.00-10.30 Hannes Stockinger (Medical University of Vienna, Vienna, Austria) - *Novel macrophage subsets with potential implication in inflammatory diseases*

10.30-11.00 Hartmut Wekerle- (Max Planck Institute for Neurobiology, Munich, Germany) - *Ignitions of brain autoimmune diseases in the gut*

11.00-11.30 Ofer Mandelboim (Immunology and Cancer Research Hebrew University, Faculty of Medicine, Jerusalem, Israel) - *Recognition of bacteria by NK cells*

11.30-12.00 Vishwa Deep Dixit (Yale University, New Haven, CT, USA) - *Immunometabolic control of age-related inflammation*

Chairs: V. Pravica-M. Kataranovski

12.00-12.30 N. Avrion Mitchison (University College London, London, UK)

Closing comments