### Oral Program

**Sunday, February 11 2018**

| 08:00-11:00 | Registration | The David Lopatie Conference Centre |
| 11:00-11:20 | Welcome and Introduction |
| 11:20-12:00 | **Session 1: Cellular and Organisinal Homeostasis** | The Michael and Anna Wix Auditorium |
| 12:00-12:30 | **With a little help from our friends** |
| 12:30-13:00 | **Phagocyte responses to dying cells** |
| 13:00-14:20 | Lunch | The David Lopatie Conference Centre |
| 14:20-14:35 | **Human dendritic cells: From development to functions** |
| 14:35-15:05 | **Host genetics and barrier function in gut inflammation** |
| 15:05-15:35 | **Human Lupus: Adding new pieces to the puzzle** |
| 15:35-16:05 | **Western diet triggers a NLRP3-dependent persistent functional reprogramming of myeloid cells** |
| 16:05-16:35 | Refreshment Break | The David Lopatie Conference Centre |
| 16:35-16:50 | **Ubiquitin-dependent regulation of Golgi homeostasis** |
| 16:50-17:05 | **Spatiotemporal dynamics of naïve CD8+ T cells undergoing intrahepatic priming** |
| 17:05-17:35 | **Gut reactions: Immune pathways in the intestine in health and disease** |
| 17:35-17:50 | **Immunoregulation of microbial-driven liver inflammation** |
| 17:50-18:20 | **Immune regulation at barrier surfaces** |
| 18:20-20:20 | Poster Session 1 | The David Lopatie Conference Centre |
| 18:20-21:30 | Drinks Reception and Dinner | The David Lopatie Conference Centre |

**Monday, February 12 2018**

| 09:00-09:30 | **Intestinal microbiota and infection: The listeria paradigm** |
| 09:30-10:00 | **An ancient arm of adaptive immunity controls microbiota impact on skin immunity and tissue repair** |
| 10:00-10:30 | **The gut-liver axis in immunological disorders** |
| 10:30-11:00 | Refreshment Break | The David Lopatie Conference Centre |
| 11:00-11:30 | **Host-microbiome interactions in health and disease** |

---

**Session 1: Cellular and Organisinal Homeostasis** |
**Chairs:** Yehudit Bergman, *The Hebrew University of Jerusalem, Israel*; Scott Plevy, *Janssen Pharmaceuticals, Inc, USA*

**Session 2: Host-microbe Interactions** |
**Chairs:** Shulamit Michaeli, *Bar Ilan University, Israel*; Dirk Gevers, *Janssen Human Microbiome Institute, USA*
11:30-12:00 RNA regulation of the immune system
Jorge Henao-Mejia, University of Pennsylvania, USA [INV14]

12:00-12:15 Post-transcriptional regulation is critical for controlling innate immune response to infection
Noam Stern-Ginossar, Weizmann Institute of Science, Israel [INV15]

12:15-12:45 The gut microbiome: A master regulator of metabolism
Lora Hooper, University of Texas Southwestern Medical Center, USA [INV16]

12:45-14:15 Lunch | The David Lopatie Conference Centre

Session 3: Microbiome in Health & Disease | The Michael and Anna Wix Auditorium
Chairs: Naama Geva-Zatorsky, Technion, Israel; Omry Koren, Bar Ilan University, Israel

14:15-14:45 The role of the microbiota in asthma
Brett Finlay, The University of British Columbia, Canada [INV17]

14:45-15:15 Modulation of the immune system by the gut microbiota
Kenya Honda1,2, T. Tanoue1,2, 1Keio University School of Medicine, Japan, 2RIKEN Center for Integrative Medical Sciences, Japan [INV18]

15:15-15:45 Microbiota-mediated defense against intestinal infection
Eric Pamer, Memorial Sloan Kettering Cancer Center, USA [INV19]

15:45-16:00 Dietary influences on the microbiota: New insights thanks to gnotobiology and next-generation sequencing
Catherine Mooser1,2, S.C. Ganal-Vonarburg1, M. Gomez de Águero1, K.D. McCoy2, A.J. Macpherson3
1University of Bern, Switzerland, 2University of Calgary, Canada [ST03]

16:00-16:30 Refreshment Break | The David Lopatie Conference Centre

Session 3: Microbiome in Health & Disease cont. | The Michael and Anna Wix Auditorium
Chairs: Naama Geva-Zatorsky, Technion, Israel; Omry Koren, Bar Ilan University, Israel

16:30-17:00 Small molecules from the human microbiota
Michael Fischbach, University of California, San Francisco, USA [INV20]

17:00-17:15 Longitudinal, single-cell evaluation of the immune state to define the mechanism of B cell depletion therapy in Multiple Sclerosis
Jenna Pappalardo1,2, B. Goods2, Y. Cao1, C. Zografo1, C. Love1, A. Shalek3, D. Hafler4, Yale University, USA, 1Massachusetts Institute of Technology, USA [ST04]

17:15-17:45 The intestinal crypt: Deciphering a cryptic ecosystem
Philippe Sansonetti, Institut Pasteur, France [INV21]

17:45-18:15 Loosely, in the gut with microbes
Richard Flavell, Yale University, USA [INV22]

18:15-20:15 Poster Session 2 | The David Lopatie Conference Centre

18:15-22:00 Drinks Reception and Meet the Speakers Dinner | The David Lopatie Conference Centre

Tuesday, February 13 2018

Session 4: Neuro-immune Axis | The Michael and Anna Wix Auditorium
Chairs: Idit Shachar, Weizmann Institute of Science, Israel; Benny Geiger, Weizmann Institute of Science, Israel

09:00-09:30 Induction and regulation of Th17 Cells
Vijay Kuchroo, Harvard University, USA [INV23]

09:30-10:00 Microbiota and immune regulation in the gut mucosa
Dan Littman, New York University, USA [INV24]

10:00-10:30 Microglia: From last-gen to next-gen
Richard Ransohoff, Biogen Inc, USA [INV25]

10:30-11:00 Refreshment Break | The David Lopatie Conference Centre

Session 4: Neuro-immune Axis cont. | The Michael and Anna Wix Auditorium
Chairs: Idit Shachar, Weizmann Institute of Science, Israel; Benny Geiger, Weizmann Institute of Science, Israel

11:00-11:30 Immune cells mind the brain: Fighting Alzheimer’s disease by unleashing the innate and adaptive immune cells
Michal Schwartz, Weizmann Institute of Science, Israel [INV26]

11:30-12:00 Sympathetic neuroimmunity for obesity
Ana Domingos, Instituto Gulbenkian de Ciência (IGC), Portugal [INV27]

12:00-12:15 IL-17A controls expression of IL-17 lineage cytokines through a negative feedback loop involving IL-24, and limits autoimmune disease
Rachel R. Caspi1,2, W-P. Chong1,2, K. Raychaudhuri2, R. Horai3, P.B. Silver3, Y. Jittayasothorn2, C-C. Chan3, J. Chen1,1NIH, NEI, USA, 2ZOC, Sun-yat-Sen Univ., China [ST05]

12:15-12:45 Gene regulatory pathways for human innate versus adaptive lymphoid cells
Marco Colonna, Washington University in St Louis, USA [INV28]
12:45-14:15  Lunch | The David Lopatie Conference Centre  
Session 5: Immunity & Metabolism | The Michael and Anna Wix Auditorium  
Chairs: Klaus Rajewsky, The Max Delbrück Center for Molecular Medicine, Germany; Michael Sela, Weizmann Institute of Science, Israel

14:15-14:45  Molecular and functional memory in human uterine NK cells following pregnancy  
1 Hebrew University Faculty of Medicine, Israel, 2 Hadassah Hebrew University Medical Center, Israel, 3 Hebrew University Hadassah Medical School, Israel, 4 Weizmann Institute of Science, Israel, 5 Hadassah University Hospital, Israel [INV29]

14:45-15:15  Oxysterol restraint of cholesterol synthesis prevents AIM2 inflammasome activation  

15:15-15:45  Personalizing treatments using microbiome and clinical data  
Eran Segal, Weizmann Institute of Science, Israel [INV31]

15:45-16:00  Quantitative analysis of protein-protein interactions and post-translational modifications in rare immune populations  
Jakub Abramson, Weizmann Institute of Science, Israel [INV04]

16:00-16:30  Refreshment Break | The David Lopatie Conference Centre  
Session 5: Immunity & Metabolism cont. | The Michael and Anna Wix Auditorium  
Chairs: Klaus Rajewsky, The Max Delbrück Center for Molecular Medicine, Germany; Michael Sela, Weizmann Institute of Science, Israel

16:30-17:00  Understanding the T cell proteomic landscape: A new discovery tool  
Doreen Cantrell, University of Dundee, UK [INV32]

17:00-17:15  Germinal centers: Arrivals, departures and the T cell border control  
Ziv Shulman, Weizmann Institute of Science, Israel [INV33]

17:15-17:45  Mitochondrial priming by CD28  
Erika L. Pearce*, R.K. Geltink, Max Planck Institute of Immunobiology and Epigenetics, Germany [INV34]

17:45-18:15  Tissue-treg nurturing-cells  
Diane Mathis, Harvard University, USA [INV35]

18:15-22:30  Dinner and Party in Tel Aviv (transport will be provided)

Wednesday, February 14 2018

Session 6: Immunity to Cancer | The Michael and Anna Wix Auditorium  
Chairs: Dan Peer, Tel Aviv University, Israel; Yinon Ben-Neriah, The Hebrew University of Jerusalem, Israel

09:00-09:30  The yin yang of innate immunity and cancer: IL-1R8 as a checkpoint for NK cell-mediated resistance to carcinogenesis and metastasis  
Alberto Mantovani, Humanitas Clinical and Research Center, Italy [INV36]

09:30-10:00  From the clinic to the lab: Investigating response and resistance mechanisms to immune checkpoint therapy  
Padmanee Sharma, MD Anderson Cancer Center, USA [INV37]

10:00-10:15  The tumor microbiome and its effects on chemoresistance  
Ravid Straussman, Weizmann Institute of Science, Israel [INV38]

10:15-10:30  Innate lymphoid cells and cancer  
Eric Vivier, Aix Marseille University, CNRS, INSERM, France; Hôpital de la Timone, France [ST07]

10:30-11:00  Refreshment Break | The David Lopatie Conference Centre  
Session 6: Immunity to Cancer cont. | The Michael and Anna Wix Auditorium  
Chairs: Dan Peer, Tel Aviv University, Israel; Yinon Ben-Neriah, The Hebrew University of Jerusalem, Israel

11:00-11:30  Immune-mediated effects of chemopreventive and anticancer agents  
Guido Kroemer, INSERM, Institut Gustave Roussy, France [INV39]

11:30-12:00  Cancer neoantigens as targets for natural and therapeutic anti-tumor responses  
Robert Schreiber, Washington University in St Louis, USA [INV40]

12:00-12:40  Immune checkpoint blockade in cancer therapy: Insights, opportunities, and prospects for cures  
James P. Allison, MD Anderson Cancer Center, USA [INV41]

12:40-13:00  Closing Remarks and End of Meeting