

<b>Poster Program</b>
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<b>Poster Session 1</b>
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<b>Sunday, February 11 2018 - 18:20-20:20</b>
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<b>IMMUNITY AT EPITHELIAL BARRIERS/HOST CELL MICROBE INTERACTIONS</b>
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<b>[P1.1.01]</b>	<b>Paneth cells secrete lysozyme via secretory autophagy during bacterial infection of the intestine</b> S. Bel* <sup>1</sup> , M. Pendse <sup>1</sup> , Y. Wang <sup>1</sup> , K.A. Ruhn <sup>1</sup> , B. Hassell <sup>1</sup> , T. Leal <sup>1</sup> , S.E. Winter <sup>1</sup> , R.J. Xavier <sup>2</sup> , L.V. Hooper <sup>1,3</sup> , <sup>1</sup> The University of Texas Southwestern Medical Center, Dallas, TX 75390, USA, <sup>2</sup> Massachusetts General Hospital, Harvard Medical School, Boston, Massachusetts, USA, <sup>3</sup> The Howard Hughes Medical Institute, USA
<b>[P1.1.02]</b>	<b>Sentinel goblet cells: Inflammasome driven guardians of the colonic crypt</b> G.M.H. Birchenough*, G.C. Hansson, <i>Gothenburg University, Sweden</i>
<b>[P1.1.03]</b>	<b>Th17 cells provide both systemic and mucosal immunity protective against an intracellular parasite</b> C.W. Cai*, J.R. Blase, C.S. Eickhoff, D.F. Hoft, <i>Saint Louis University School of Medicine, USA</i>
<b>[P1.1.04]</b>	<b>The macrophage - pericyte axis promotes tissue repair following acute injury</b> C.M. Minutti*, R. Tillu, D.M. Zaiss, <i>Centre for Immunity, Infection and Evolution, and the Institute for Immunology and Infection Research, School of Biological Sciences, University of Edinburgh, UK</i>
<b>[P1.1.05]</b>	<b>Bifidobacterium or fiber protect against diet-induced deterioration of the inner colonic mucus layer</b> B.O. Schroeder*, G.M.H. Birchenough, M. Ståhlman, L. Arike, M.E.V. Johansson, G.C. Hansson, F. Bäckhed, <i>Gothenburg University, Sweden</i>
<b>[P1.1.06]</b>	<b>Role of intestinal permeability and secretory IgA in a murine model of Kawasaki disease vasculitis</b> M. Noval Rivas* <sup>1,2</sup> , D. Wakita <sup>1</sup> , M. Abe <sup>1</sup> , M. Franklin <sup>1</sup> , S. Chen <sup>1,2</sup> , K. Shimada <sup>1,2</sup> , T.R. Crother <sup>1,2</sup> , M. Arditì <sup>1,2</sup> , <sup>1</sup> Cedars-Sinai Medical Center, USA, <sup>2</sup> University of California Los Angeles (UCLA), USA
<b>[P1.1.07]</b>	<b>Recombinant BCG expressing ESX-1 of Mycobacterium marinum combines low virulence with cytosolic Immune Signaling and improved tuberculosis protection</b> M-I. Gröschel* <sup>1,2</sup> , F. Sayes <sup>1</sup> , T-S. van der Werf <sup>2</sup> , L. Majlessi <sup>1</sup> , R. Brosch <sup>1</sup> , <sup>1</sup> Institut Pasteur, France, <sup>2</sup> University Medical Center Groningen, The Netherlands
<b>[P1.1.08]</b>	<b>Runx3 function in resident macrophage is crucial for gut immune tolerance</b> S. Hantisteanu*, Y. Dicken, D. Leshkowitz, J. Lotem, D. Levanon, Y. Groner, <i>Weizmann Institute of Science, Israel</i>
<b>[P1.1.09]</b>	<b>IL10Ra deficient macrophages elicit IL23 and IL22 driven colitis</b> B. Bernshtein*, C. Thaiss, C. Curato, M. Kolesnikov, M. Gross, L. Chappell-Maor, E. David, E. Elinav, S. Jung, <i>Weizmann Institute of Science, Israel</i>
<b>[P1.1.10]</b>	<b>Regulatory circuits governing identity and function of human type 1 ILCs</b> P. Collins*, M. Cella, S. Porter, M. McCullen, M. Cook, J. Germino, M. Colonna, E. Oltz, <i>Washington University School of Medicine, USA</i>
<b>[P1.1.11]</b>	<b>Commensal fungi induce autophagy and LC3-associated phagocytosis in human intestinal epithelial cells</b> S. Cohen-Kedar* <sup>1,2</sup> , H. Elad <sup>2,3</sup> , Y. Ron <sup>2,3</sup> , I. Dotan <sup>1,2</sup> , <sup>1</sup> Rabin Medical Center, Israel, <sup>2</sup> Tel Aviv University, Israel, <sup>3</sup> Tel Aviv Sourasky Medical Center, Israel
<b>[P1.1.12]</b>	<b>Stromal cell-derived factor 1 mediates immune cell attraction upon urinary tract infection</b> B. Isaacson*, O. Mandelboim, <i>Hebrew University of Jerusalem, Israel</i>
<b>[P1.1.13]</b>	<b>Atg9b orchestrates epithelial-immune crosstalk during gut regeneration</b> A. Lasry*, Y. Ben-Neriah, <i>Hebrew University, Israel</i>
<b>[P1.1.14]</b>	<b>Th17 cells produce heterodimer IL-17A+/F+ protein and create neutrophilia in leprosy reversal reactions</b> C. Saini* <sup>1</sup> , A. Sharma <sup>1</sup> , V. Ramesh <sup>3</sup> , I. Nath <sup>2</sup> , <sup>1</sup> All India institute of Medical Sciences, India, <sup>2</sup> National Institute of Pathology, India, <sup>3</sup> Safdarjung hospital, India
<b>[P1.1.15]</b>	<b>Menstrual blood NK cells and memory of human pregnancy</b> M. Gamliel* <sup>1</sup> , D. Goldman-Whol <sup>1</sup> , S. Yagel <sup>1</sup> , O. Mandelboim <sup>1</sup> , <sup>1</sup> Hebrew university, Israel, <sup>2</sup> hadassah medical center, Israel
<b>[P1.1.16]</b>	<b>ATP released by intestinal bacteria limits the generation of protective IgA against enteropathogens</b> L. Perruzza* <sup>1</sup> , M. Proietti <sup>6</sup> , D. Scribano <sup>2,3</sup> , F. Strati <sup>1</sup> , M. Raffaelli <sup>1</sup> , W.D. Hardt <sup>4</sup> , E. Slack <sup>4</sup> , M. Nicoletti <sup>2</sup> , F. Grassi <sup>1,5</sup> , <sup>1</sup> Institute for Research in Biomedicine, Switzerland, <sup>2</sup> University Gabriele D'Annunzio, Italy, <sup>3</sup> University La Sapienza of Rome, Italy, <sup>4</sup> Institute of Microbiology, Switzerland, <sup>5</sup> Università degli Studi di Milano, Italy, <sup>6</sup> Universitätsklinikum Freiburg, Germany
<b>[P1.1.17]</b>	<b>PTEN regulates pulmonary inflammatory signaling through interactions with the cystic fibrosis transmembrane conductance regulator channel (CFTR)</b> S.A. Riquelme* <sup>1</sup> , B.D. Hopkins <sup>2</sup> , A.L. Wolfe <sup>3</sup> , E. DiMango <sup>1</sup> , K. Kitur <sup>1</sup> , R. Parsons <sup>3</sup> , A. Prince <sup>1</sup> , <sup>1</sup> Columbia University, USA, <sup>2</sup> Weill Cornell Medicine, USA, <sup>3</sup> Icahn School of Medicine at Mount Sinai, USA

[P1.1.18]	<b>Barrier dysfunction in human type 2 immunity arises from an altered basal cell state and reduced epithelial cellular diversity</b> J. Ordovas-Montanes <sup>*1,2</sup> , D.F. Dwyer <sup>3,4</sup> , S. Nyquist <sup>1,2</sup> , K.M. Buchheit <sup>3,4</sup> , C. Deb <sup>1</sup> , N. Bhattacharyya <sup>3,4</sup> , J.A. Boyce <sup>3,4</sup> , N.A. Barrett <sup>3,4</sup> , A.K. Shalek <sup>1,2</sup> , <sup>1</sup> Massachusetts Institute of Technology, USA, <sup>2</sup> Ragon Institute of MGH, MIT and Harvard, USA, <sup>3</sup> Brigham and Women's Hospital, USA, <sup>4</sup> Harvard Medical School, USA
[P1.1.19]	<b>Bcl6 interacting corepressor contributes to T helper 17 cell formation by repressing foxo1 and CD27 signaling</b> J.A. Kotov <sup>*</sup> , M.D. Gearhart, D.I. Kotov, V.J. Bardwell, M.K. Jenkins, <i>University of Minnesota, USA</i>
[P1.1.20]	<b>ezh2 regulates langerhans cell migration and host protection against allergic contact dermatitis</b> J.T. Loh <sup>1</sup> , B. Janela <sup>1,3</sup> , M. Gunawan <sup>1,3</sup> , L.G. Ng <sup>1,3</sup> , F. Ginhoux <sup>1,3</sup> , K.P. Lam <sup>1,2</sup> , I-H. Su <sup>*1</sup> , <sup>1</sup> Nanyang Technological University, Singapore, <sup>2</sup> Bioprocessing Technology Institute, Singapore, <sup>3</sup> Singapore Immunology Network, Singapore
[P1.1.21]	<b>Mouse colonic stromal cells induce a protective ILC3 phenotype in the absence of Nkx2.3 transcription factor</b> Z. Kellermayer <sup>*1</sup> , D. Vojkovic <sup>1</sup> , B. Kajtar <sup>1</sup> , G. Berta <sup>1</sup> , A. Schippers <sup>2</sup> , N. Wagner <sup>2</sup> , I. Nagy <sup>3,4</sup> , E. Boros <sup>3</sup> , B. Balint <sup>4</sup> , P. Balogh <sup>1</sup> , <sup>1</sup> University of Pecs, Hungary, <sup>2</sup> University of Aachen, Germany, <sup>3</sup> Biological Research Center, Hungary, <sup>4</sup> Seqomics Biotechnology Ltd, Hungary
[P1.1.22]	<b>NK cell activity during viral infection is modulated by non-apoptotic TRAIL function</b> L. Cardoso Alves, M. Berger, N. Kirschke, C. Lauer, N. Corazza, P. Krebs <sup>*</sup> , <i>University of Bern, Switzerland</i>
[P1.1.23]	<b>A follow-up analysis of the early dynamics of lung resident memory T cell responses in recurring influenza infection</b> A. Bencsik <sup>*1</sup> , B. Ersek <sup>1</sup> , N. Lupsa <sup>1</sup> , I. Jankovics <sup>1,2</sup> , J. Matko <sup>1,3</sup> , E.I. Buzas <sup>1</sup> , Z. Pos <sup>1</sup> , <sup>1</sup> Semmelweis University, Hungary, <sup>2</sup> National Center for Epidemiology, Hungary, <sup>3</sup> Eötvös Loránd University, Hungary
[P1.1.24]	<b>Interleukin-25 enables small intestinal adaptability to eukaryotic pathosymbionts</b> C. Schneider <sup>*1</sup> , C.E. O'Leary <sup>1</sup> , J. von Moltke <sup>1,2</sup> , H. Liang <sup>1</sup> , Q.Y. Ang <sup>1</sup> , P.J. Turnbaugh <sup>1</sup> , S. Radhakrishnan <sup>3</sup> , M. Pellizzon <sup>3</sup> , A. Ma <sup>1</sup> , R.M. Locksley <sup>1</sup> , <sup>1</sup> University of California San Francisco, USA, <sup>2</sup> University of Washington, USA, <sup>3</sup> Research Diets, Inc., USA
[P1.1.25]	<b>Cell-type specific long ncRNA dysregulation in the ileum of treatment naïve early onset crohn disease</b> Y. Haberman <sup>1,2</sup> , M. BenShoshan <sup>*2,3</sup> , A. Di Segni <sup>2</sup> , P.J. Dexheimer <sup>1</sup> , T. Braun <sup>2</sup> , G. Efroni <sup>2</sup> , B. Weiss <sup>2</sup> , I. Barshack <sup>2,3</sup> , Y. Anikster <sup>2,3</sup> , L.A. Denson on behalf of the Crohn's & Colitis Foundation (CCF)-sponsored RISK study <sup>1</sup> , <sup>1</sup> Cincinnati Children's Hospital Medical Center, USA, <sup>2</sup> Sheba Medical Center, Israel, <sup>3</sup> Tel Aviv University, Israel, <sup>4</sup> Connecticut Children's Medical Center, USA, <sup>5</sup> Emory University, USA
[P1.1.26]	<b>Immunoglobulin A as a critical regulator of demyelinating neuroinflammation</b> A-K. Pröbstel <sup>*1</sup> , E. Cekanaviciute <sup>1</sup> , R. Baumann <sup>1</sup> , H. Miller <sup>2</sup> , J. Bisanz <sup>1</sup> , S. Sing <sup>1</sup> , R. Gomez <sup>1</sup> , B.A. Cree <sup>1</sup> , S.L. Hauser <sup>1</sup> , S.E. Baranzini <sup>1</sup> , <sup>1</sup> University of California San Francisco, San Francisco, USA, <sup>2</sup> University of California, Davis, USA
[P1.1.27]	<b>Origin and potentiation of tissue-resident type 2 innate lymphoid cells</b> J. Lee <sup>*1</sup> , C. Schneider <sup>1</sup> , J.C. Nussbaum <sup>1</sup> , H-E. Liang <sup>1</sup> , R. Ricardo-Gonzalez <sup>1</sup> , L.K. Smith <sup>1</sup> , S.A. Villeda <sup>1</sup> , R.M. Locksley <sup>1,2</sup> , <sup>1</sup> University of California, San Francisco, USA, <sup>2</sup> Howard Hughes Medical Institute, USA
[P1.1.28]	<b>Probing the immuno-regulatory function of Lipocalin 2 in viral infections</b> M.L. Watzenböck <sup>*1,2</sup> , P. Starkl <sup>1,2</sup> , B. Drobits <sup>1,2</sup> , A.D. Gorki <sup>1,2</sup> , K. Lakovits <sup>1,2</sup> , A. Hladik <sup>1,2</sup> , S. Knapp <sup>1,2</sup> , <sup>1</sup> CeMM, Research Center for Molecular Medicine of the Austrian Academy of Sciences, Austria, <sup>2</sup> Medical University of Vienna, Austria
[P1.1.29]	<b>Novel antimicrobial proteins in <i>eisenia andrei</i> earthworms: implications for immunity, development and regeneration</b> K. Bodó <sup>*1</sup> , A. Boros <sup>2</sup> , E. Rumpel <sup>3</sup> , P. Németh <sup>1</sup> , P. Engelmann <sup>1</sup> , <sup>1</sup> University of Pécs, Hungary, <sup>2</sup> Baranya County Institute of State Public Health Service, Hungary
[P1.1.30]	<b>Group 1 Innate lymphoid cell lineage identity is determined by a cis-regulatory element marked by a long non-coding RNA</b> W.K. Mowel <sup>*1</sup> , S.J. McCright <sup>1</sup> , J.J. Kotzin <sup>1</sup> , A. Williams <sup>2</sup> , R.A. Flavell <sup>3</sup> , J. Henao-Mejia <sup>1</sup> , <sup>1</sup> University of Pennsylvania, USA, <sup>2</sup> The Jackson Laboratory, USA, <sup>3</sup> Yale University, USA
[P1.1.31]	<b>Mucus secreted from inter-crypt goblet cells is required for proper mucus layer formation in colon and protection against colitis</b> E. Nyström <sup>*</sup> , G. Birchenough, B. Martinez Abad, M. Johansson, <i>Gothenburg University, Sweden</i>
[P1.1.32]	<b>Long-lived TRM Th17 cells develop after bacterial immunization</b> M.C. Amezcua Vesely <sup>*1,3</sup> , P. Pallis <sup>1</sup> , P. Bielecki <sup>1</sup> , N. Gagliani <sup>1,2</sup> , R.A. Flavell <sup>1,3</sup> , <sup>1</sup> Yale University, USA, <sup>2</sup> University Medical Center Hamburg-Eppendorf, Germany, <sup>3</sup> Howard Hughes Medical Institute, USA
[P1.1.33]	<b>Mucosal infection induces innate lymphoid cell plasticity leading to intestinal pathology</b> W.T. Muraoka <sup>1,2</sup> , Q. Xia <sup>2</sup> , E.P. Koroleva <sup>1</sup> , L.W. Kummer <sup>2</sup> , C.M. Spencer <sup>2</sup> , J.S. Lin <sup>2</sup> , M. Mohrs <sup>2</sup> , A.V. Tumanov <sup>*1,2</sup> , <sup>1</sup> University of Texas Health San Antonio, USA, <sup>2</sup> Trudeau Institute, USA

[P1.1.34]	<b>Stromal cell – Neutrophil interactions in Inflammatory bowel disease</b> E. Kvedaraitė <sup>*1,3</sup> , M. Lourda <sup>1</sup> , A. Van Acker <sup>1</sup> , D. Unnersjö Jess <sup>2</sup> , R. Nadisauskaite <sup>1,3</sup> , D. Gavhed <sup>1</sup> , J. Mjösberg <sup>1</sup> , M. Idestrom <sup>1,3</sup> , J.-I. Henter <sup>1,3</sup> , M. Svensson <sup>1</sup> , <sup>1</sup> Karolinska Institute, Sweden, <sup>2</sup> Royal Institute of Technology, Sweden, <sup>3</sup> Karolinska University Hospital, Sweden
[P1.1.35]	<b>Study of the role of Interleukin 9 in basophil differentiation and function</b> A. Marcelino-Vega, J.L. Ramos Balderas, P. Licona-Limón*, UNAM, Mexico
[P1.1.36]	<b>ILC2s and type 2 immunity influence hair follicle stem cell proliferation and skin homeostasis</b> R.R. Ricardo-Gonzalez <sup>*1</sup> , R.M. Locksley <sup>1,2</sup> , <sup>1</sup> University of California San Francisco, USA, <sup>2</sup> Howard Hughes Medical Institute, USA
[P1.1.37]	<b>Defining group 2 innate lymphoid cell tissue niches</b> A.B. Molofsky*, S. Jones, M. Dahlgren, K. Cautivo-Reyes, S. Nozzari, UCSF, USA
[P1.1.38]	<b>Carbapenem-resistant <i>Klebsiella pneumoniae</i> exploit IFN-λ signaling to invade across the airway epithelium</b> M. Wickersham <sup>*1,2</sup> , D. Ahn <sup>1</sup> , H. Peñaloza <sup>3</sup> , S. Bueno <sup>3</sup> , A. Prince <sup>1</sup> , <sup>1</sup> Columbia University College of Physicians and Surgeons, USA, <sup>2</sup> Weill Cornell Medical College, USA, <sup>3</sup> Pontificia Universidad Católica de Chile, Chile
[P1.1.39]	<b>COMM1D10 regulates bacteria-specific innate immune response in monocytes and macrophages</b> S. Ben shlomo <sup>1</sup> , O. Mouhadeb <sup>*1</sup> , S. Gruber <sup>1</sup> , I. Farkash <sup>1</sup> , Z. Halpern <sup>1</sup> , E. Burstein <sup>2</sup> , C. Varol <sup>1</sup> , N. Gluck <sup>1</sup> , <sup>1</sup> Tel-Aviv University, Israel, <sup>2</sup> University of Texas, USA
[P1.1.40]	<b>An atlas of the mosquito immune system at single cell resolution</b> G. Raddi <sup>*1,3</sup> , C. Barillas Mury <sup>3</sup> , O. Billker <sup>1</sup> , <sup>1</sup> Wellcome Trust Sanger Institute, UK, <sup>2</sup> University of Cambridge, UK, <sup>3</sup> National Institutes of Health, USA, <sup>4</sup> National Institutes of Health / David Geffen School of Medicine at UCLA, USA
[P1.1.41]	<b>Single cell analysis of human tissue CD3+ T cells in allergic inflammation</b> T. Wen <sup>1</sup> , B.J. Aronow <sup>1</sup> , P. Dexheimer <sup>1</sup> , P. Putnam <sup>1</sup> , V. Mukkada <sup>1</sup> , M. Rochman <sup>1</sup> , S. Darko <sup>2</sup> , D. Douek <sup>2</sup> , M.E. Rothenberg <sup>*1</sup> , <sup>1</sup> Cincinnati Childrens, USA, <sup>2</sup> NIH, USA
[P1.1.42]	<b>Single cell analysis reveals novel subsets of cells infected by salmonella at early infection</b> D. Hoffman*, N. Bossel, S. Hen-Avivi, R. Avraham, Weizmann institute of Science, Israel
[P1.1.43]	<b>IL-10 producing non-pathogenic Th17 cells and their contribution to intestinal inflammation</b> J. Wolbert*, D. Schafflick, G. Meyer zu Hörste, University Hospital Muenster, Germany
[P1.1.44]	<b>The role of ripk1 in t lymphocytes and epithelial homeostasis</b> J. Huysentruyt <sup>*1,2</sup> , N. Thiault <sup>3</sup> , S. Kourula <sup>1,2</sup> , F. Ghazavi <sup>1,2</sup> , P. Tougaard <sup>1,2</sup> , T. Oltean <sup>1,2</sup> , T. Vanden Berghe <sup>1,2</sup> , N. Takahashi <sup>1,2</sup> , H. Cheroutre <sup>3</sup> , P. Vandenabeele <sup>1,2</sup> , <sup>1</sup> Ghent University, Belgium, <sup>2</sup> VIB Center for Inflammation Research, Belgium, <sup>3</sup> La Jolla Institute for Allergy and Immunology, USA
[P1.1.45]	<b>Single cell analysis of CD4+ T cells in the colon</b> E. Kiner*, D. Mathis, C. Benoist, Harvard Medical School, USA
[P1.1.46]	<b>TL1A exacerbates cytokine-induced acute gut inflammation and potentiates infiltration of intraepithelial NK cells in mice</b> P. Tougaard <sup>*1,2</sup> , L.O. Martinsen <sup>2</sup> , L.S.F. Andersen <sup>2</sup> , L. Krych <sup>2</sup> , D.S. Nielsen <sup>2</sup> , T.B. Buus <sup>2</sup> , A.E. Pedersen <sup>2</sup> , A.K. Hansen <sup>2</sup> , S. Skov <sup>2</sup> , C.H.F. Hansen <sup>2</sup> , <sup>1</sup> University of Ghent, Belgium, <sup>2</sup> University of Copenhagen, Denmark
[P1.1.47]	<b>Validated transcriptional regulatory models for innate lymphoid cells</b> M.V. Pokrovskii <sup>*1</sup> , E.R. Miraldi <sup>1,2</sup> , J.A. Hall <sup>1</sup> , A. Watters <sup>2</sup> , S.N. Waggoner <sup>4</sup> , R. Bonneau <sup>2,3</sup> , D.R. Littman <sup>1,5</sup> , <sup>1</sup> The Kimmel Center for Biology and Medicine of the Skirball Institute, New York University School of Medicine, USA, <sup>2</sup> Simons Center for Data Analysis, USA, <sup>3</sup> New York University, USA, <sup>4</sup> Cincinnati Children's Hospital Medical Center, USA, <sup>5</sup> Howard Hughes Medical Institute, USA
[P1.1.48]	<b>Human monocytes and macrophages regulate immune tolerance via integrin αvβ8-mediated TGFβ activation</b> A. Kelly <sup>1</sup> , E.E. Shuttleworth <sup>1</sup> , C. Smedley <sup>1</sup> , S.A. Houston <sup>1</sup> , T.M. Fenton <sup>1</sup> , S. Levison <sup>3</sup> , E.R. Mann <sup>2</sup> , M.A. Travis <sup>*1</sup> , <sup>1</sup> University of Manchester, UK, <sup>2</sup> University of Glasgow, UK, <sup>3</sup> Central Manchester University Hospital NHS Foundation Trust, UK
[P1.1.49]	<b>Lactobacillus plantarum modulates MR1-dependent activation of MAIT cells</b> J. Emgård*, J. Dias, C. Boulouis, E. Leeansyah, J.K. Sandberg, Karolinska Institute, Sweden
[P1.1.50]	<b>Targeting of antigen toward M cell enhances T cell activation in the Peyer's patches</b> M. Kolesnikov <sup>*1</sup> , C. Curato <sup>1</sup> , H. Florindo <sup>2</sup> , H. Ohno <sup>3</sup> , S. Jung <sup>1</sup> , G. Shakhari <sup>1</sup> , <sup>1</sup> Weizmann Institute of Science, Israel, <sup>2</sup> Lisbon University, Portugal, <sup>3</sup> RIKEN Center, Japan
[P1.1.51]	<b>Natural variants of methicillin-resistant Staphylococcus aureus differ in biofilm formation</b> H. Bergsten*, J. Snäll, S. Mairpady Shambat, P. Chen, N. Siemens, M. Svensson, A. Norrby-Teglund, Karolinska Institutet, Sweden
[P1.1.52]	<b>A novel locally maintained macrophage population in the intestine is defined by Tim-4 and CD4</b> T.N. Shaw <sup>*1</sup> , S.A. Houston <sup>1</sup> , K. Wemyss <sup>1</sup> , H.M. Bridgeman <sup>1</sup> , T.A. Barbera <sup>1</sup> , T. Zangerle-Murray <sup>1</sup> , P. Strangward <sup>1</sup> , A.J.L. Ridley <sup>1</sup> , P. Wang <sup>1</sup> , J.R. Grainger <sup>1</sup> , <sup>1</sup> University of Manchester, UK, <sup>2</sup> National Institutes of Health, USA
[P1.1.53]	<b>Antigen presenting group 3 innate lymphoid cells regulate T-dependent IgA responses to colonic bacteria</b> F. Melo-Gonzalez, M. Papadopoulou, M.R. Hepworth*, University of Manchester, UK

[P1.1.54]	<b>Social stress increases the risk for microbiota-dependent autoimmunity</b> M. Werbner, Y. Barsheshet, N. Werbner, I. Averbuch, O. Ziv, B. Brant, S. Gelberg, M. Titelbaum, O. Koren, O. Avni*, <i>Bar-Ilan University, Israel</i>
[P1.1.55]	<b>Functionally specialized tissue resident MAIT cell populations in human oral mucosa</b> M.J. Sobkowiak, H. Davanian, A. Gibbs, A. Tjernlund, J. Dias, S. Aleman, E. Leeansyah, R. Heymann, M. Sällberg-Chen, J.K. Sandberg*, <i>Karolinska Institutet, Sweden</i>
[P1.1.56]	<b>Cross talk between the Wnt and MAPK signals in intestine homeostasis and cancer</b> B. Su <sup>*1,2</sup> , N. Wu <sup>1</sup> , H. Sun <sup>1</sup> , X. Zhao <sup>1</sup> , Z. Liu <sup>1</sup> , Y. Qi <sup>1</sup> , X. Niu <sup>1</sup> , Q. Wang <sup>1</sup> , D. Liu <sup>2</sup> , <sup>1</sup> <i>Shanghai Jiao-Tong University School of Medicine, China</i> , <sup>2</sup> <i>Yale University School of Medicine, USA</i>
[P1.1.57]	<b>Alveolar macrophages are migratory cells that actively patrol the alveolar lumen</b> A.S. Neupane <sup>*1,2</sup> , A. Thanabalasuriar <sup>1,2</sup> , P. Kubes <sup>1,2</sup> , <sup>1</sup> <i>University of Calgary, Canada</i> , <sup>2</sup> <i>Calvin, Phoebe, and Joan Snyder Institute for Chronic Diseases, Canada</i>
[P1.1.58]	<b>Sensing of microbiota-derived natural products by host GPCRs</b> A. Jarret*, R. Jackson, R.A. Flavell, <i>Yale University, USA</i>
[P1.1.59]	<b>Missense variants in NOX1 and p22phox in a case of very-early-onset inflammatory bowel disease are functionally linked to NOD2</b> S. Lipinski <sup>*1</sup> , B.S. Petersen <sup>1</sup> , M. Barann <sup>1</sup> , <sup>1</sup> <i>Christian-Albrechts-University Kiel, Germany</i> , <sup>2</sup> <i>University Hospital Schleswig-Holstein, Germany</i>
[P1.1.60]	<b>C-type lectin receptors orchestrate anti-fungal immunity in the gut</b> I.M. Dambuja*, G.D. Brown, <i>Institute of Medical Sciences, UK</i>
[P1.1.61]	<b>T cell regulation of gut IgA responses</b> I. Gribonika*, K. Schön, N. Lycke, <i>University of Gothenburg, Sweden</i>
[P1.1.63]	<b>Deletion of (NF-κB1) subunit increases innate immune response and protects host from <i>H. pylori</i> colonization</b> S. Gupta <sup>*1</sup> , K. Ponnusamy <sup>1</sup> , T. Habib <sup>2</sup> , R. Chaturvedi <sup>1</sup> , <sup>1</sup> <i>Jawaharlal Nehru University, India</i> , <sup>2</sup> <i>Biomedical Informatics Division, Sidra Medical and Research Center, Qatar</i>
<b>THE META-ORGANISM: MICROBIOME AND ITS HOST</b>	
[P1.2.01]	<b>An intestinal organ culture system uncovers a role for the nervous system in microbe-immune crosstalk</b> N. Yissachar <sup>*1,2</sup> , I.M. Chiu <sup>2</sup> , D. Mathis <sup>2</sup> , C. Benoist <sup>2</sup> , <sup>1</sup> <i>Bar-Ilan University, Israel</i> , <sup>2</sup> <i>Harvard Medical School, USA</i>
[P1.2.02]	<b>Fixed antibody repertoire results in a complete abrogation of allergic airway responses via changes in microbiota composition</b> T.P. Wypych <sup>*1</sup> , C. Pattaroni <sup>1</sup> , A. Rapin <sup>2</sup> , N.L. Harris <sup>2</sup> , B.J. Marsland <sup>1</sup> , <sup>1</sup> <i>University of Lausanne, Switzerland</i> , <sup>2</sup> <i>École Polytechnique Fédérale de Lausanne (EPFL), Switzerland</i>
[P1.2.03]	<b>A gut commensal controls pulmonary mycobacterial infection through targeting gut-lung axis</b> C.S. Lin*, H.C. Lai, <i>Chang Gung University, Taiwan</i>
[P1.2.04]	<b>Herbal mushroom polysaccharides counteract obesity through a novel commensal-rewired gut microbiome and intestinal integrity</b> T.R. Wu, C.S. Lin, C.J. Chang, H.C. Lai*, <i>Chang Gung University, Taiwan</i>
[P1.2.05]	<b>IgA-targeted gut microbiota by defective purinergic control of T follicular helper cells in altered host metabolism</b> L. Perruzza <sup>1</sup> , F. Strati <sup>*1</sup> , G. Gargari <sup>2</sup> , A.M. D'Erchia <sup>3</sup> , B. Fosso <sup>3</sup> , G. Pesole <sup>3</sup> , S. Guglielmetti <sup>2</sup> , F. Grassi <sup>1</sup> , <sup>1</sup> <i>Institute for Research in Biomedicine, Switzerland</i> , <sup>2</sup> <i>niversità degli Studi di Milano, Italy</i> , <sup>3</sup> <i>National Research Council, Italy</i>
[P1.2.06]	<b>Impaired AhR ligands production by the gut microbiota is a key factor in metabolic syndrome</b> J.M. Natividad <sup>1</sup> , B. Lamas <sup>1,2</sup> , A.C. Jarry <sup>3</sup> , R. Martin <sup>1</sup> , M.L. Michel <sup>1</sup> , M.L. Richard <sup>1</sup> , P. Langella <sup>1</sup> , R.J. Xavier <sup>4</sup> , H. Duboc <sup>3,5</sup> , H. Sokol <sup>*1,3</sup> , <sup>1</sup> <i>INRA, France</i> , <sup>2</sup> <i>UPMC, France</i> , <sup>3</sup> <i>INSERM, France</i> , <sup>4</sup> <i>Harvard, USA</i> , <sup>5</sup> <i>APHP, France</i>
[P1.2.07]	<b>A lantibiotic-producing, commensal <i>Blautia</i> species confers colonization resistance against vancomycin-resistant <i>Enterococcus</i>.</b> S. Kim*, R. Seok, E. Littmann, I. Leiner, L. Ling, R. Carter, S. Caballero, S. Becattini, D. Banh, Z. Wang, <i>Sloan Kettering Institute, USA</i>
[P1.2.08]	<b>dbBact: A bacterial community knowledge base</b> A. Amir <sup>2</sup> , E. Ozel <sup>1</sup> , R. Knight <sup>2</sup> , N. Shental <sup>*1</sup> , <sup>1</sup> <i>The Open University of Israel, Israel</i> , <sup>2</sup> <i>UCSD, USA</i>
[P1.2.09]	<b>Within-subject variation in gut microbial composition precede Crohns disease flares</b> T. Braun <sup>1</sup> , A. DiSegni <sup>1</sup> , N. Levhar <sup>1,3</sup> , M. Bubis <sup>1,3</sup> , D. Shouval <sup>1</sup> , R. Eliakim <sup>1,3</sup> , S. Ben-Horin <sup>1,3</sup> , U. Kopylov <sup>1,3</sup> , Y. Haberman <sup>*1,2</sup> , <sup>1</sup> <i>Sheba Medical Center, Israel</i> , <sup>2</sup> <i>Cincinnati Children's Hospital Medical Center, USA</i> , <sup>3</sup> <i>Israeli IBD Research Nucleus, Israel</i>
[P1.2.10]	<b>Probing the human skin virome in primary immunodeficiency using shotgun metagenomics</b> O. Tirosh*, S. Conlan, C. Deming, C. Ng, S. Lee-Lin, N.I.S.C. Comparative Sequencing Program, J.A. Segre, H.H. Kong, <i>National Institutes of Health Bethesda, USA</i>
[P1.2.11]	<b>Pathogen diversity drives the evolution of promiscuous peptide binding of human mhc-ii alleles</b> M. Manczinger <sup>*1,2</sup> , G. Boross <sup>2</sup> , L. Kemény <sup>1</sup> , T. Lenz <sup>3</sup> , B. Papp <sup>2</sup> , C. Pál <sup>2</sup> , <sup>1</sup> <i>University of Szeged, Hungary</i> , <sup>2</sup> <i>Hungarian Academy of Sciences, Hungary</i> , <sup>3</sup> <i>Max Planck Institute for Evolutionary Biology, Germany</i>

[P1.2.12]	<b>Staphylococcal phenol-soluble modulins are functional ligands for signal inhibitory receptor on leukocytes-1</b> M. Rumpret*, M. van der Linden, J. van Strijp, N.M. van Sorge, L. Meyaard, <i>University Medical Center Utrecht, The Netherlands</i>
[P1.2.13]	<b>Compositional change of the gut microbiota in HIV infected humanized mice</b> S. Nakaoka* <sup>1,2</sup> , Y. Koyanagi <sup>3</sup> , K. Sato <sup>3</sup> , <i>1JST PRESTO, Japan, 2The University of Tokyo, Japan, 3Kyoto University, Japan</i>
[P1.2.14]	<b>Dual OxidaseE (DUOX) 2 upregulation alters mucus composition in patients with ulcerative colitis after pouch surgery</b> K.M. Rabinowitz* <sup>1,2</sup> , S. Cohen-Kedar <sup>1,2</sup> , K. Chait <sup>3</sup> , E. Contijoch <sup>4</sup> , J. Faith <sup>4</sup> , M. Pasmanik-Shorr <sup>2</sup> , S. Shen-Orr <sup>3</sup> , I. Dotan <sup>1,2</sup> , <i>1Rabin Medical Center, Israel, 2Tel Aviv University, Israel, 3Technion, Israel, 4Mount Sinai School of Medicine, USA</i>
[P1.2.15]	<b>Linking diet, gut immunity and microbiota in the pathogenesis of type 1 diabetes</b> I. Cosorich*, L. De Giorgi, C. Sorini, A. Mario Bolla, E. Bosi, R. Ferrarese, R. Zupparado, D. Esposito, F. Canducci, M. Falcone, <i>San Raffaele Scientific Institute, Italy</i>
[P1.2.16]	<b>Dact3-JNK pathway plays a key role in the anti-inflammatory effects of the commensal bacterium Faecalibacterium prausnitzii</b> M. Lenoir <sup>1</sup> , R. Martin <sup>1</sup> , H. Sokol <sup>2</sup> , P. Langella* <sup>1</sup> , F. Chain <sup>1</sup> , L. Bermudez-Humaran <sup>1</sup> , <i>1Université Paris-Saclay, France, 2Sorbonne Universités, France</i>
[P1.2.17]	<b>The clinical determinants shape gut microbial profile of inflammatory bowel disease patients</b> B. Yilmaz* <sup>1</sup> , P. Juillerat <sup>2</sup> , R. Wiest <sup>2</sup> , A.J. Macpherson <sup>1,2</sup> , <i>1University of Bern, Switzerland, 2Inselspital, Switzerland</i>
[P1.2.18]	<b>The identification of a novel secreted bacterial sialidase that enables intestinal mucus degradation by commensal bacteria</b> G.H. van Muijlwijk*, J.P.M. van Putten, M.R. de Zoete, <i>Utrecht University, The Netherlands</i>
[P1.2.19]	<b>Early life microbial colonization of the skin may play a role in the development of allergies</b> A. Rapin* <sup>1</sup> , E.M. Rehbinder <sup>2</sup> , C. Pattaroni <sup>3</sup> , J.T. Lunde <sup>4</sup> , B. Nordlund <sup>5</sup> , H.O. Skjerven <sup>2</sup> , N.L. Harris <sup>1</sup> , K.C. Lødrup Carlsen <sup>2</sup> , B.J. Marsland <sup>3</sup> , <i>1EPFL, Switzerland, 2University of Oslo, Norway, 3Centre Hospitalier Universitaire Vaudois (CHUV), Switzerland, 4Østfold Hospital, Norway, 5Karolinska University Hospital, Sweden</i>
[P1.2.20]	<b>Gut microbiota-brain axis shift in pulmonary tuberculosis patients.</b> S. Sahu* <sup>1</sup> , M. Das <sup>1</sup> , S.C. Bishwal <sup>1</sup> , S. Debnath <sup>2</sup> , R. Bhowmick <sup>2</sup> , R. Debnath <sup>2</sup> , A. Das <sup>2</sup> , R.K. Nanda <sup>1</sup> , <i>1International Centre for Genetic Engineering and Biotechnology, India, 2Agartala Government Medical College, India</i>
[P1.2.21]	<b>Gut microbiota influences the toxicity to platinum compounds by orchestrating drug pharmacokinetics</b> S. Roy* <sup>1</sup> , R. Das Neves <sup>1</sup> , L. Amable <sup>2</sup> , C. Smith <sup>1</sup> , A. Dzutsev <sup>1</sup> , R. Costa <sup>1</sup> , A. Huang <sup>1</sup> , B. Edwards <sup>1</sup> , Y. Kim <sup>1</sup> , G. Trinchieri <sup>1</sup> , <i>1NCI-Bethesda, NIH, USA, 2NIMHD, NIH, Bethesda, USA, 3NCI, NIH, Shady Grove, USA</i>
[P1.2.22]	<b>Unraveling microbial driving factors of hyperglycemia</b> I. Kalka*, M. Pevsner-Fischer, E. Soffer, T. Korem, D. Zeevi, N. Godneva, E. Elinav, E. Segal, <i>Weizmann Institute of Science, Israel</i>
[P1.2.23]	<b>The importance of the combinatorial effect of diet and probiotics interactions in the context of colorectal cancer therapy</b> K.G. Greenhalgh* <sup>1</sup> , J.R.G. Ramiro Garcia <sup>1</sup> , A.H. Heinken <sup>1</sup> , J.B. Baginska <sup>1</sup> , E.L. Letellier <sup>2</sup> , R.H. Halder <sup>1</sup> , A.F. Frachet <sup>1</sup> , P.U. Ullman <sup>2</sup> , S.H. Haan <sup>2</sup> , P.W. Wilmes <sup>1</sup> , <i>1Luxembourg Centre of Systems Biomedicine, Luxembourg, 2Life Science Research Unit, Luxembourg</i>
[P1.2.24]	<b>The high-resolution landscape microbial ecology of the human face</b> M. Brandwein* <sup>1,2</sup> , G. Fuks <sup>4</sup> , A. Israel <sup>2</sup> , E. Hodak <sup>5</sup> , M. Harari <sup>2</sup> , D. Steinberg <sup>1</sup> , Z. Bentwich <sup>2</sup> , A. Szitenberg <sup>2</sup> , N. Shental <sup>3</sup> , S. Meshner <sup>2</sup> , <i>1The Hebrew University of Jerusalem, Israel, 2The Dead Sea and Arava Science Center, Israel, 3The Open University of Israel, Israel, 4The Weizmann Institute of Science, Israel, 5Rabin Medical Center, Israel</i>
[P1.2.25]	<b>Human-derived bacterial species that can affect CD8 T cells in intestinal lamina propria</b> M. Furuichi*, T. Tanoue, K. Atarashi, K. Honda, <i>Keio university, Japan</i>
[P1.2.26]	<b>Intestinal colonization by oral origin <i>Klebsiella</i> induces TH1 responses and inflammation.</b> K. Atarashi* <sup>1,2</sup> , W. Suda <sup>2</sup> , T. Kawaguchi <sup>1,2</sup> , M. Hattori <sup>2</sup> , K. Honda <sup>1,2</sup> , <i>1Keio University School of Medicine, Japan, 2RIKEN Center for Integrative Medical Sciences, Japan</i>
[P1.2.27]	<b>Nlrp6 links intestinal dysbiosis with atherosclerotic disease</b> P. Duewell* <sup>1,2</sup> , A. Christ <sup>2,4</sup> , C. Thaiss <sup>3</sup> , M. Schnurr <sup>1</sup> , E. Elinav <sup>3</sup> , E. Latz <sup>2,4</sup> , <i>1Klinikum der Universität München, Germany, 2University of Massachusetts Medical School, USA, 3Weizmann Institute of Science, Israel, 4Universität Bonn, Germany</i>
[P1.2.28]	<b>The gut microbiota regulates intestinal macrophage homeostasis to prevent T-cell dysfunction</b> E.R. Mann* <sup>1</sup> , P. Andersen <sup>1,2</sup> , C. Alcon-Giner <sup>1,4</sup> , C. Leclaire <sup>1,4</sup> , S. Caim <sup>1,4</sup> , H. Wessel <sup>1,3</sup> , A. Bravo-Blas <sup>1,3</sup> , C. Thomson <sup>1,3</sup> , V. Kästele <sup>1,3</sup> , J. Connolly <sup>1,3</sup> , <i>1University of Manchester, UK, 2Johns Hopkins Medicine, USA, 3University of Glasgow, UK, 4Quadram Institute, UK, 5Eli Lilly, USA</i>

[P1.2.29]	<b>A gut pathobiont breaches both gut lymphatic and vascular barriers to initiate systemic autoimmunity</b> R. Fine*, S.M. Vieira, N. Khan, C. Dehner, D.Z. Ruiz, V. Kumar, A.L. Goodman, M.A. Kriegel, <i>Yale University, USA</i>
[P1.2.30]	<b>Dynamic transition of the human skin microbial patterns associated with atopic dermatitis pathology</b> E. Kawakami <sup>1,2</sup> , H. Kawasaki <sup>1,2</sup> , S. Obata <sup>2</sup> , A. Honda <sup>2</sup> , A. Fukushima <sup>2</sup> , T. Sasaki <sup>2</sup> , W. Suda <sup>2</sup> , K. Honda <sup>1,2</sup> , T. Ebihara <sup>2</sup> , M. Amagai <sup>1,2</sup> , <i>1RIKEN, Japan, 2Keio University, Japan</i>
[P1.2.31]	<b>Host genetics and gut microbiome underlie the variance of regulatory proteins circulating in the blood</b> A. Kurilshikov <sup>1</sup> , D. Zhernakova <sup>1,2</sup> , T. Le <sup>1</sup> , B. Atanasovska <sup>1</sup> , M.J. Bonder <sup>1</sup> , S. Sanna <sup>1</sup> , F. Kuipers <sup>1</sup> , C. Wijmenga <sup>1</sup> , A. Zhernakova <sup>1</sup> , J. Fu <sup>1</sup> , <i>1University Medical Center Groningen, The Netherlands, 2St. Petersburg State University, Russia</i>
[P1.2.32]	<b>Autoantibody cross-reactivity with a microbial protein from a prevalent human gut commensal in antiphospholipid syndrome</b> W.E. Ruff*, C. Dehner, A.S. Roth, A. Goodman, M.A. Kriegel, <i>Yale University, USA</i>
<b>CELLULAR AND ORGANISMAL HOMEOSTASIS</b>	
[P1.3.01]	<b>Engineered specific human T regulatory cells suppress via contact-dependent and -independent pathways</b> D.W. Scott*, Y.C. Kim, J.H. Yoon, A.H. Zhang, <i>Uniformed Services University, USA</i>
[P1.3.02]	<b>Balancing autoimmunity and immunity: The role[s] of ADAR1 in viral infection</b> M.M. Maurano*, D.B. Stetson, <i>University of Washington, USA</i>
[P1.3.03]	<b>IL-1b production by immune cells is regulated by platelets</b> V. Rolfes <sup>1</sup> , L. Böttcher <sup>1</sup> , S. Maasewerd <sup>1</sup> , L.S. Ribeiro <sup>1</sup> , S. Schmidt <sup>1</sup> , H.J. Stunden <sup>1</sup> , E. Latz <sup>1,2</sup> , B.S. Franklin <sup>1</sup> , <i>1University of Bonn, Germany, 2University of Massachusetts Medical School, USA</i>
[P1.3.04]	<b>Retinoic acid receptor alpha directly represses a Th9 transcriptional and epigenomic program</b> D.M. Schwartz <sup>1</sup> , T. Farley <sup>1</sup> , N. Richoz <sup>1</sup> , H-Y. Shih <sup>1</sup> , F.P. Davis <sup>1</sup> , Y. Kanno <sup>2</sup> , R. Siegel <sup>1</sup> , A. Laurence <sup>1</sup> , F. Meylan <sup>1</sup> , J.J. O'Shea <sup>1</sup> , <i>1NIAMS, NIH, USA, 2John Radcliffe Hospital, University of Oxford, UK</i>
[P1.3.05]	<b>Uncovering the role of the inflammatory response in promoting mammalian digit tip regeneration</b> K.R. Mesa <sup>1,2</sup> , D.R. Littman <sup>1</sup> , <i>1New York University, USA, 2Howard Hughes Medical Institute, USA</i>
[P1.3.06]	<b>Pre-conditioning of naive T cells is required to maintain their effector differentiation potential</b> T. Kreuzberg <sup>1</sup> , C. Schmitt-Mbamunyo <sup>1</sup> , G.J. Hämmerling <sup>2</sup> , N. Garbi <sup>1</sup> , <i>1University of Bonn, Germany, 2German Cancer Research Center, Germany</i>
[P1.3.07]	<b>A chloride sensing pathway regulates phagocyte homeostasis during apoptotic cell clearance</b> J.S.A. Perry*, S. Morioka, C. Medina, M. Raymond, C. Robertson, L. Shankman, S. Onengut-Gumuscu, K.S. Ravichandran, <i>University of Virginia School of Medicine, USA</i>
[P1.3.08]	<b>Quantitative shotgun proteomics to solve identity issues of human regulatory T cells</b> E. Cuadrado <sup>1</sup> , S. de Kivit <sup>1</sup> , R. Opstelten <sup>2</sup> , M. Slot <sup>2</sup> , A. Meijer <sup>1</sup> , R. van Lier <sup>1</sup> , M. van den Biggelaar <sup>1</sup> , J. Borst <sup>1</sup> , D. Amsen <sup>1</sup> , <i>1Sanquin, The Netherlands, 2The Netherlands Cancer Institute, The Netherlands</i>
[P1.3.09]	<b>Regulation of human T cells by tonicity signals</b> J. Matthias, R. Noster, C.E. Zielinski*, <i>Technical University of Munich, Germany</i>
[P1.3.10]	<b>Toll-like receptor signaling in thymic epithelial cells increases cooperative antigen transfer and enforces the induction of immune tolerance</b> M. Voboril <sup>1,2</sup> , J. Dobes <sup>1</sup> , M. Dobešová <sup>1</sup> , T. Brabec <sup>1</sup> , A. Cepkova <sup>1</sup> , V. Benes <sup>3</sup> , D. Filipp <sup>1</sup> , <i>1Institute of Molecular Genetics of the ASCR, Czech Republic, 2Charles University in Prague, Czech Republic, 3European Molecular Biology Laboratory (EMBL), Germany</i>
[P1.3.11]	<b>The transcription factor BCL6 regulates the developmental program of innate-like T lymphocytes</b> M. Verykokakis, <i>BSRC Alexander Fleming, Greece</i>
[P1.3.12]	<b>New identity of extrathymic aire-expressing cells involved in peripheral T-cell tolerance</b> J. Dobeš <sup>1,2</sup> , T. Yamano <sup>3</sup> , M. Voboril <sup>1,2</sup> , M. Dobešová <sup>1</sup> , L. Klein <sup>3</sup> , D. Filipp <sup>1</sup> , <i>1Institute of Molecular Genetics, AS CR, Czech Republic, 2Charles University, Czech Republic, 3Institute for Immunology, LMU Munich, Germany</i>
[P1.3.13]	<b>Study of regulated intron retention in immune system</b> Z. Zeng <sup>1</sup> , Y. Tian <sup>1</sup> , Y. Zhao <sup>1</sup> , N. Weng <sup>2</sup> , J. Zhu <sup>2</sup> , W. Peng <sup>1</sup> , <i>1George Washington University, USA, 2NIH, USA</i>
[P1.3.14]	<b>N-Glycolylneuraminic acid (Neu5Gc) and anti-Neu5Gc antibodies promote calcification in native and bioprosthetic heart valves</b> A. Paul <sup>1</sup> , S. Leviatan Ben-Arye <sup>1</sup> , L. Govani <sup>1</sup> , H. Yu <sup>2</sup> , I. Fella-Hebia <sup>3</sup> , B. Tomaso <sup>4</sup> , G. Cesare <sup>5</sup> , J. Christian Roussel <sup>3</sup> , X. Chen <sup>2</sup> , V. Padler-Karavani <sup>1</sup> , <i>1Tel Aviv University, Israel, 2University of California-Davis, USA, 3University Hospital, INSERM UMR1087, France, 4University of Padua, Italy, 5Avantea, Via Porcellasco, Italy</i>
[P1.3.15]	<b>Immune cellular homeostasis is determined by genetic variants of cellular production and turnover</b> T. Dubovik <sup>1</sup> , E. Starosvetsky <sup>1</sup> , B. Leroy <sup>2</sup> , R. Normand <sup>1</sup> , Y. Admon <sup>1</sup> , A. Ziv-Kennet <sup>1</sup> , M. G'Sell <sup>2</sup> , S. Shen-Orr <sup>1</sup> , <i>1Technion, Israel, 2Carnegie Mellon University, USA</i>
[P1.3.16]	<b>A computational model of the inter-cellular immune network reveals novel signaling targets</b> K. Kveler <sup>1</sup> , E. Starosvetsky <sup>1</sup> , A. Ziv-Kenet <sup>1</sup> , Y. Kalugny <sup>1</sup> , Y. Gorelik <sup>1</sup> , G. Shalev-Malul <sup>1</sup> , N. Aizenbud-Reshef <sup>1</sup> , T. Dubovik <sup>1</sup> , J. Campbell <sup>2</sup> , S.S. Shen-Orr <sup>1</sup> , <i>1Technion-Israel Institute of Technology, Israel, 2Northrop Grumman IT Health Solutions, USA, 3Max Planck Institute of Biochemistry, Germany, 4Bnai Zion Medical Center, Israel</i>

[P1.3.17]	<b>Zmynd8, a repressor of metastasis-linked genes, facilitates efficient AID targeting of immunoglobulin switch regions to promote class switch recombination</b> D. Rosen* <sup>1</sup> , V.D. Benito <sup>2</sup> , M.C. Nussenzweig <sup>1</sup> , M. Di Virgilio <sup>2</sup> , <sup>1</sup> The Rockefeller University, USA, <sup>2</sup> Max Delbruck Center for Molecular Medicine, USA
[P1.3.18]	<b>Design features of macrophage-fibroblast cell circuit</b> X. Zhou* <sup>1,2</sup> , R.A. Franklin <sup>1,2</sup> , M. Adler <sup>3</sup> , J.B. Jacox <sup>1,2</sup> , A. Mayo <sup>3</sup> , U. Alon <sup>3</sup> , R. Medzhitov <sup>1,2</sup> , <sup>1</sup> Yale School of Medicine, USA, <sup>2</sup> Howard Hughes Medical Institute, USA, <sup>3</sup> Weizmann Institute of Science, Israel
[P1.3.19]	<b>Sexual dimorphism in the immune system transcriptome</b> S. Gal-Oz* <sup>1</sup> , H. Yoshida <sup>2</sup> , N. Elbaz <sup>1</sup> , H. Ner-Gaon <sup>1</sup> , C. Benoist <sup>2</sup> , T. Shay <sup>1</sup> , <sup>1</sup> Ben-Gurion University, Israel, <sup>2</sup> Harvard Medical School, USA
[P1.3.20]	<b>Elevated glucocorticoid signaling in pancreatitis promotes Kras-driven pancreatic tumorigenesis associated with Cachexia</b> C.N. Shen* <sup>1,3</sup> , C.R. Huang <sup>1</sup> , C.C. Su <sup>1</sup> , C.C. Hsieh <sup>1</sup> , Y.M. Shyr <sup>2</sup> , S.E. Wang <sup>2</sup> , T.H. Chen <sup>2,3</sup> , <sup>1</sup> Academia Sinica, Taiwan, <sup>2</sup> Taipei Veterans General Hospital, Taiwan, <sup>3</sup> National Yang-Ming University, Taiwan
[P1.3.21]	<b>Identifying differentially spliced genes in the mouse immune system</b> H. Ner-Gaon*, A. Magen, T. Shay, T. ImmGen Consortium, Ben-Gurion University of the Negev, Israel
[P1.3.23]	<b>Disarming the alarm button: Salmonella disrupts host response via sphingolipid metabolism</b> O. Zucker*, N. Bossel Ben-Moshe, S. Hen Avivi, R. Avraham, Weizmann Institute of Science, Israel
[P1.3.24]	<b>High resolution longitudinal immune profiling reveals immunosenescence dynamics and attractor states</b> Y. Pickman* <sup>1</sup> , D. Furman <sup>2</sup> , A. Alpert <sup>1</sup> , E. Starosvetsky <sup>1</sup> , S. Schaffert <sup>2,3</sup> , R. Gaujoux <sup>1</sup> , P. Khatr <sup>2,3</sup> , H. T.Maecker <sup>2</sup> , S. Shen-Orr <sup>1</sup> , M. Davis <sup>2,4</sup> , <sup>1</sup> Technion institute of technology, Israel, <sup>2</sup> Stanford University, USA, <sup>3</sup> Biomedical Informatics Research, USA, <sup>4</sup> The Howard Hughes Medical Institute, USA
[P1.3.25]	<b>Do autoimmune susceptibility alleles, such as PTPN22, play a role in the development of autoimmunity linked to homeostatic T cell expansion?</b> J.A. Knipper*, R. Zamoyska, University of Edinburgh, UK
[P1.3.26]	<b>Macrophages sense extracellular matrix mechanics to regulate tissue repair</b> M.L. Meizlish* <sup>1</sup> , L. Meyaard <sup>3</sup> , R. Medzhitov <sup>1,2</sup> , <sup>1</sup> Yale University, USA, <sup>2</sup> Howard Hughes Medical Institute, USA, <sup>3</sup> University Medical Center Utrecht, The Netherlands
[P1.3.27]	<b>Antracyclines inhibit NF-κB-dependent transcription by blocking p65</b> A.B. Barros*, A.N. Costa, D. Pedroso, L.F. Moita, Instituto Gulbenkian de Ciência, Portugal
[P1.3.28]	<b>Single Cell RNA-sequencing reveals distinct clusters of kidney-infiltrating T cells in patients with ANCA-associated Glomerulonephritis</b> C.F. Krebs*, H.J. Paust, C. Kilian, A. Borchers, J.E. Turner, T.B. Huber, N. Gagliani, S. Huber, U. Panzer, University Medical Center Hamburg-Eppendorf, Germany
[P1.3.29]	<b>Understanding the role of specific immune cell populations in IBD pathophysiology using paired blood and intestinal samples</b> N. Maimon* <sup>1,2</sup> , H. Bar-Yosef <sup>2</sup> , E. Starosvetsky <sup>1</sup> , Y. Chowers <sup>2</sup> , S. Shen-Orr <sup>1</sup> , <sup>1</sup> Technion, Israel, <sup>2</sup> Rambam Health Care Campus, Israel
[P1.3.30]	<b>Prevention of melanoma brain colonization by inhibiting cytokine secretion from activated astrocytes</b> S. Pozzi*, P. Ofek, A. Scomparin, E. Yeini, D. Ben-Shushan, A. Eldar-Boock, R. Satchi-Fainaro, Tel Aviv University, Israel

<b>Poster Session 2</b>	
<b>Monday, February 12 2018 18:15-20:15</b>	
<b>IMMUNITY IN CANCER AND OTHER DISEASED TISSUES</b>	
<b>[P2.1.01]</b>	<b>Enhancing antibody-mediated immune response against tumor-associated carbohydrate antigens</b> P. Weitzenfeld*, J.V. Ravetch, <i>Rockefeller University, USA</i>
<b>[P2.1.02]</b>	<b>CD74 is a novel transcription regulator</b> N. Gil-Yarom*, L. Radomir, L. Sever, <i>Weizmann, Israel</i>
<b>[P2.1.03]</b>	<b>HNRNPR regulates the expression of classical and nonclassical MHC class I proteins</b> A. Rechtes*, O. Mandelboim, <i>Hebrew University Hadassah Medical School, Israel</i>
<b>[P2.1.04]</b>	<b>Innate immune landscape in early stage lung adenocarcinoma by paired single cell analysis</b> Y. Lavin* <sup>1</sup> , S. Kobayashi <sup>1</sup> , A. Leader <sup>1</sup> , E.D. Amir <sup>1</sup> , N. Elefant <sup>2</sup> , C. Bigenwald <sup>1</sup> , R. Remark <sup>1</sup> , R. Sweeney <sup>1</sup> , A. Rahman <sup>1</sup> , M. Merad <sup>1</sup> , <sup>1</sup> <i>Icahn School of Medicine at Mount Sinai, USA</i> , <sup>2</sup> <i>Weizmann Institute of Science, Israel</i>
<b>[P2.1.05]</b>	<b>UVB-induced mutational load and tumor heterogeneity dictates anti-tumor immune response against melanoma</b> Y. Wolf* <sup>1</sup> , G. Bar-Eli <sup>1</sup> , A. Jimenez-Sanchez <sup>1,2</sup> , R. Levy <sup>1</sup> , S. Patkar <sup>1,3</sup> , E. Barnea <sup>1,4</sup> , M. Miller <sup>1,2</sup> , A. Admon <sup>1,4</sup> , E. Ruppin <sup>1,3</sup> , Y. Samuels <sup>1</sup> , <sup>1</sup> <i>The Weizmann Institute of Science, Israel</i> , <sup>2</sup> <i>University of Cambridge, UK</i> , <sup>3</sup> <i>University of Maryland, USA</i> , <sup>4</sup> <i>Technion, Israel</i>
<b>[P2.1.06]</b>	<b>Latent HIV reservoirs exhibit inherent resistance to elimination by Cytotoxic T-Lymphocytes</b> S.H. Huang <sup>1</sup> , Y. Ren <sup>1</sup> , S. Patel <sup>1,2</sup> , C. Bollard <sup>1,2</sup> , R.B. Jones* <sup>1</sup> , <sup>1</sup> <i>The George Washington University, USA</i> , <sup>2</sup> <i>Children's National Health System, USA</i>
<b>[P2.1.07]</b>	<b>Chronic inflammation inverts CD200 receptor function and perpetuates type I immune responses</b> M. van der Vlist*, M.I. Ramos, L. van den Hoogen, S. Hiddingh, R.J. Lebbink, T.R.D.J. Radstake, L. Meyaard, <i>UMC Utrecht, The Netherlands</i>
<b>[P2.1.08]</b>	<b>Early growth response gene (Egr) 2 and 3 reciprocally regulate proliferation and effector function of T cells</b> T. Miao, A. Symonds, S. Li, P. Wang*, <i>Blizard Institute - Queen Mary University of London, UK</i>
<b>[P2.1.09]</b>	<b>Development of an anti-NKp46 mAb for the evaluation of NKp46 activities</b> O. Berhani*, O. Mandelboim, <i>The Hebrew University, Israel</i>
<b>[P2.1.10]</b>	<b>Immune evasion by oncogenic fusion proteins of acute myeloid leukemia</b> S. Elias* <sup>1</sup> , S. Kahlon <sup>1</sup> , T. Unger <sup>2</sup> , O. Mandelboim <sup>1</sup> , <sup>1</sup> <i>Hebrew University of Jerusalem, Israel</i> , <sup>2</sup> <i>Weizmann Institute of Science, Israel</i>
<b>[P2.1.11]</b>	<b>Western diet triggers a NLRP3-dependent persistent functional reprogramming of myeloid cells</b> A. Christ* <sup>1,2</sup> , P. Guenther <sup>3</sup> , M. Lauterbach <sup>1</sup> , P. Dueweli <sup>7</sup> , N. Riksen <sup>5</sup> , Y. Li <sup>6</sup> , M. Fitzgerald <sup>4</sup> , M. Netea <sup>5</sup> , J. Schultze <sup>3</sup> , E. Latz <sup>1</sup> , <sup>1</sup> <i>UMass Medical School, USA</i> , <sup>2</sup> <i>Institute of Innate Immunity, Germany</i> , <sup>3</sup> <i>Life and Medical Science Institute, Germany</i> , <sup>4</sup> <i>MGH, USA</i> , <sup>5</sup> <i>Radboud University Medical Center, The Netherlands</i> , <sup>6</sup> <i>University of Groningen Medical Center, The Netherlands</i> , <sup>7</sup> <i>Klinikum der Universitaet Muenchen, Germany</i>
<b>[P2.1.12]</b>	<b>Neoadjuvant chemotherapy induces sample-specific T cell activation in high-grade serous ovarian cancer</b> A. Jiménez-Sánchez* <sup>1</sup> , K. LaVigne <sup>2</sup> , P. Cybulska <sup>2</sup> , T. Walther <sup>2</sup> , E. Sala <sup>2</sup> , A. Snyder <sup>2</sup> , M.L. Miller <sup>1</sup> , <sup>1</sup> <i>University of Cambridge, UK</i> , <sup>2</sup> <i>Memorial Sloan Kettering Cancer Center, USA</i>
<b>[P2.1.13]</b>	<b>IL-5 positive effector innate type 2 lymphoid cells (ILC2) modulate the functions of inflamed adipose tissue (AT) and lung</b> T. Aychek* <sup>1</sup> , D. Moulin <sup>2</sup> , A. Waget <sup>3</sup> , I. Gabanyi <sup>4</sup> , F. Déjardin <sup>1</sup> , S. Dulauroy <sup>1</sup> , R. Burcelin <sup>3</sup> , L. Peduto <sup>5</sup> , G. Eberl <sup>1</sup> , <sup>1</sup> <i>Microenvironment and Immunity unit Institut Pasteur, France</i> , <sup>2</sup> <i>University of Lorraine, France</i> , <sup>3</sup> <i>Paul Sabatier University Toulouse, France</i> , <sup>4</sup> <i>Perception and Memory unit Institut Pasteur, France</i> , <sup>5</sup> <i>Stroma, Inflammation and Tissue Repair Institut Pasteur, France</i>
<b>[P2.1.14]</b>	<b>Engineered switches using nuclear receptors and small molecule ligands to control chimeric antigen receptor T cells</b> J.H. Esensten* <sup>1</sup> , C.Y. Wu <sup>2</sup> , J. Taunton <sup>1</sup> , W.A. Lim <sup>1,3</sup> , <sup>1</sup> <i>University of California, San Francisco, USA</i> , <sup>2</sup> <i>Amgen Inc., USA</i> , <sup>3</sup> <i>Howard Hughes Medical Institute, USA</i>
<b>[P2.1.15]</b>	<b>Tumor glycolysis as a mechanism of immune evasion in breast cancer and melanoma</b> I.J. Cohen*, N. Socci, R. Khanin, R.G. Blasberg, <i>Memorial Sloan Kettering Cancer Center, USA</i>
<b>[P2.1.16]</b>	<b>Identification of a new vascular marker correlating with colorectal cancer metastatization to the liver</b> A. Bertocchi* <sup>1</sup> , I. Spadoni <sup>1</sup> , S. Carloni <sup>1</sup> , S. Ravenda <sup>1</sup> , G. Bertalot <sup>1</sup> , S. Pece <sup>1,2</sup> , P. Di Fiore <sup>3,2</sup> , G. Viale <sup>1,2</sup> , G. Penna <sup>1</sup> , M. Rescigno <sup>1,2</sup> , <sup>1</sup> <i>European Institute of Oncology, Italy</i> , <sup>2</sup> <i>University of Milan, Italy</i> , <sup>3</sup> <i>Istituto FIRC di Oncologia Sperimentale, Italy</i>



[P2.1.17]	<b>The transcriptional profile of synovial macrophages in rheumatoid arthritis reveal distinct disease subtypes</b> A.M. Mandelin <sup>1</sup> , P.J. Homan <sup>1</sup> , A.M. Shaffer <sup>1</sup> , C.M. Cuda <sup>1</sup> , S.T. Dominguez <sup>1</sup> , A.V. Misharin <sup>1</sup> , G.R.S. Budinger <sup>1</sup> , R.M. Pope <sup>1</sup> , H. Perlman <sup>1</sup> , D.R. Winter <sup>*1</sup> , <sup>1</sup> Northwestern University, USA, <sup>2</sup> University of Alabama, USA, <sup>3</sup> Columbia University, USA, <sup>4</sup> Washington University, USA, <sup>5</sup> University of Michigan, USA, <sup>6</sup> Mayo Clinic, USA, <sup>7</sup> University of Birmingham, UK, <sup>8</sup> Queen Mary University of London, UK
[P2.1.18]	<b>Transcriptional dynamics reveals a critical role of the Xcl1-Xcr1 communication axis in chronic virus infection</b> J. Argilaguet <sup>1</sup> , M. Pedragosa <sup>1</sup> , A. Esteve-Codina <sup>3,4</sup> , G. Riera <sup>1</sup> , C. Peligero <sup>1,5</sup> , G. Bocharov <sup>6</sup> , S. Heath <sup>3,4</sup> , A. Meyerhans <sup>*1,2</sup> , <sup>1</sup> Universitat Pompeu Fabra, Spain, <sup>2</sup> Institució Catalana de Recerca i Estudis Avançats, Spain, <sup>3</sup> Centre for Genomic Regulation, Spain, <sup>4</sup> Institute of Science and Technology, Spain, <sup>5</sup> Weizmann Institute of Science, Israel, <sup>6</sup> Russian Academy of Sciences, Russia
[P2.1.19]	<b>TNF primes intestinal regeneration following damage via activation of reserve cell pool</b> U. Das Adhikari <sup>*1</sup> , A. Lasry <sup>1</sup> , N. Amsalem <sup>2</sup> , E. Kadosh <sup>2</sup> , S. May <sup>2</sup> , E. Winter <sup>2</sup> , S. Itzkovitz <sup>2</sup> , Y. Ben Neriah <sup>2</sup> , <sup>1</sup> Hebrew University of Jerusalem, Israel, <sup>2</sup> Weizman Institute of Science, Israel
[P2.1.20]	<b>The effects of IBD biologic drugs on the propagation of lymphomatous transformation of EBV-infected peripheral blood mononuclear cells</b> N. Levhar <sup>*1</sup> , B. Ungar <sup>1</sup> , U. Kopilov <sup>1</sup> , M. Yavzori <sup>1</sup> , E. Fudim <sup>1</sup> , O. Picard <sup>1</sup> , Y. Shemer-Avni <sup>2</sup> , A. Lev <sup>1</sup> , N. Amariglio <sup>1</sup> , S. Ben-Horin <sup>1</sup> , <sup>1</sup> Tel-Aviv University, Israel, <sup>2</sup> Ben-Gurion University, Israel
[P2.1.21]	<b>Oncogene-induced senescence in hematopoietic progenitors promotes inflammation, myeloid skewing and histiocytosis</b> R. Biavasco <sup>*1,2</sup> , E. Lettera <sup>1,2</sup> , M. Norelli <sup>1</sup> , B. Camisa <sup>1</sup> , M. Ponzoni <sup>1</sup> , A. Bondanza <sup>1</sup> , L. Dagna <sup>1</sup> , R. Di Micco <sup>1,2</sup> , E. Montini <sup>1,2</sup> , <sup>1</sup> San Raffaele Scientific Institute, Italy, <sup>2</sup> San Raffaele - Telethon Institute for Gene Therapy, Italy
[P2.1.22]	<b>Shedding light on the dynamics of HIV-1 infection in humanized mouse model through virological and omics approaches</b> K. Sato <sup>*1,2</sup> , S. Nakaoka <sup>3,4</sup> , E. Kawakami <sup>5</sup> , N. Misawa <sup>1</sup> , K. Shiroguchi <sup>4,5</sup> , Y. Koyanagi <sup>1</sup> , <sup>1</sup> Kyoto University, Japan, <sup>2</sup> JST CREST, Japan, <sup>3</sup> The University of Tokyo, Japan, <sup>4</sup> JST PRESTO, Japan, <sup>5</sup> RIKEN, Japan
[P2.1.23]	<b>Defining cell states coupled with response to checkpoint blockade in melanoma</b> K. Yizhak <sup>*1</sup> , M. Sade Feldman <sup>1,2</sup> , S. Bjorgaard <sup>1,2</sup> , J. Ray <sup>1,2</sup> , K. Flaherty <sup>2</sup> , J. Wargo <sup>3</sup> , G. Boland <sup>2</sup> , R. Sullivan <sup>2</sup> , G. Getz <sup>1,2</sup> , N. Hacohen <sup>1,2</sup> , <sup>1</sup> Broad Institute of the Massachusetts Institute of Technology (MIT) and Harvard, USA, <sup>2</sup> Massachusetts General Hospital, USA, <sup>3</sup> University of Texas, USA
[P2.1.24]	<b>Small molecules co-targeting CKI<math>\alpha</math> and P-TEFb control acute myeloid leukemia in a mouse model</b> W. Minzel <sup>*</sup> , A. Venkatachalam, A. Fink, E. Hung, I. Snir-Alkalay, Y. Ben-Neriah, <i>hebrew university, Israel</i>
[P2.1.25]	<b>Lymphotoxin beta receptor signaling inhibits colitis-associated cancer.</b> E.P. Koroleva <sup>1</sup> , E. Macho-Fernandez <sup>3</sup> , N.A. Mitkin <sup>2</sup> , I. Albino Flores <sup>1</sup> , W.T. Muraoka <sup>1</sup> , D.V. Kuprash <sup>2</sup> , A.V. Tumanov <sup>*1,2</sup> , <sup>1</sup> University of Texas Health San Antonio, USA, <sup>2</sup> Engelhardt Institute of Molecular Biology, Russia, <sup>3</sup> Trudeau Institute, USA
[P2.1.26]	<b>Tumor cGAS induces the anti-tumor response of NK cells</b> A. Marcus <sup>*1</sup> , R.E. Vance <sup>1,2</sup> , D.H. Raulet <sup>1</sup> , <sup>1</sup> UC Berkeley, USA, <sup>2</sup> Howard Houghes Medical Institute, USA
[P2.1.27]	<b>Global immunogenomic profiling and discovery of mJOR humoral antigens in gastric cancer.</b> S. Ishikawa <sup>*</sup> , H. Katoh, D. Komura, <i>Tokyo Medical and Dental University, Japan</i>
[P2.1.28]	<b>Myeloid-targeted immunotherapies act in synergy to induce a subpopulation of inflammatory tumor-associated macrophages and anti-tumor immunity</b> A.R. Munoz-Rojas <sup>*</sup> , C.J. Perry, K. Miller-Jensen, S.M. Kaech, <i>Yale University, USA</i>
[P2.1.29]	<b>Unveiling the cellular and molecular immune microenvironment in glioblastoma</b> P. Magod <sup>*1</sup> , L. Ruosso-Noori <sup>1</sup> , L. Agemy <sup>2</sup> , D. Friedman-Morvinski <sup>1</sup> , <sup>1</sup> Tel Aviv University, Israel, <sup>2</sup> Weizmann Institute of Science, Israel
[P2.1.30]	<b>The immune system profoundly restricts tumor clonal heterogeneity</b> I. Milo <sup>*1,2</sup> , M. Bedoura-Faure <sup>1</sup> , Z. Garcia <sup>1,2</sup> , L. Périe <sup>3,4</sup> , G. Shakhar <sup>5</sup> , L. Deriano <sup>1</sup> , P. Bousso <sup>1,2</sup> , <sup>1</sup> Institut Pasteur, France, <sup>2</sup> Inserm, France, <sup>3</sup> Institut Curie, France, <sup>4</sup> CNRS, France, <sup>5</sup> Weizmann Institute, Israel
[P2.1.31]	<b>Neutrophils are protective in sarcoma carcinogenesis by maintaining unconventional T cell antitumor potential</b> A. Ponzetta <sup>*1</sup> , M. Barbagallo <sup>1</sup> , M. Molgora <sup>1</sup> , M. Galdiero <sup>4</sup> , E. Bonavita <sup>3</sup> , E. Magrini <sup>1</sup> , N. Polentarutti <sup>1</sup> , C. Garlanda <sup>2,1</sup> , A. Mantovani <sup>2,1</sup> , S. Jaillon <sup>2,1</sup> , <sup>1</sup> Humanitas Clinical and Research Center, Italy, <sup>2</sup> Humanitas University, Italy, <sup>3</sup> Cancer Research UK, UK, <sup>4</sup> Federico II University of Naples, Italy
[P2.1.32]	<b>Casein kinase I alpha (CKI<math>\alpha</math>) inhibitors are novel immuno-modulating agents with high therapeutic potential</b> A. Fink <sup>*</sup> , E. Hung, W. Minzel, A. Venkatachalam, A. Zinger, I. Snir-Alkalay, Y. Ben-Neriah, <i>Hebrew University of Jerusalem, Israel</i>
[P2.1.33]	<b>IL-1R8: A novel checkpoint regulating anti-tumor and anti-viral activity of NK cells</b> M. Molgora <sup>*1</sup> , E. Bonavita <sup>1</sup> , A. Ponzetta <sup>1</sup> , F. Riva <sup>1</sup> , M. Barbagallo <sup>1</sup> , S. Jaillon <sup>1</sup> , B. Popovic <sup>2</sup> , G. Bernardini <sup>3</sup> , E. Magrini <sup>1</sup> , F. Gianni <sup>1</sup> , <sup>1</sup> Humanitas Research Hospital, Italy, <sup>2</sup> Faculty of Medicine, University of Rijeka, Croatia, <sup>3</sup> Istituto Pasteur-Fondazione Cenci Bolognetti, Università di Roma, Italy

[P2.1.34]	<b>Natural and induced invariant natural killer T (iNKT) cell regulation of intestinal tumor immunity</b> Y. Wang <sup>1</sup> , S. Sedimbi <sup>2</sup> , L. Löfbom <sup>1</sup> , A.K. Singh <sup>1</sup> , S.A. Porcelli <sup>3</sup> , H. Yagita <sup>4</sup> , S. Cardell* <sup>1</sup> , <sup>1</sup> University of Gothenburg, Sweden, <sup>2</sup> Karolinska Institute, Sweden, <sup>3</sup> Albert Einstein College of Medicine, USA, <sup>4</sup> Juntendo School of Medicine, Japan
[P2.1.35]	<b>Inflammasome-associated cytokines induce antigen-presenting properties in human ILCs</b> A. Rao <sup>1</sup> , M. Bruchard <sup>2</sup> , E. Kokkinou <sup>1</sup> , V. Konya <sup>1</sup> , U. Lindfors <sup>1</sup> , H. Spits <sup>2</sup> , J. Mjösberg* <sup>1</sup> , <sup>1</sup> Karolinska Institutet, Sweden, <sup>2</sup> Academic Medical Center, The Netherlands
[P2.1.36]	<b>Salt-responsive gut commensal modulates TH17 axis and disease</b> N. Wilck* <sup>1,5</sup> , M.G. Matus <sup>3</sup> , S. Kearney <sup>3</sup> , S. Olesen <sup>3</sup> , S. Jörg <sup>2</sup> , K. Forslund <sup>4</sup> , P. Bork <sup>4</sup> , R. Linker <sup>2</sup> , E.J. Alm <sup>3</sup> , D.N. Müller <sup>5</sup> , <sup>1</sup> Charite-Universitätsmedizin, Germany, <sup>2</sup> Friedrich-Alexander-University Erlangen-Nuremberg, Germany, <sup>3</sup> Center for Microbiome Informatics and Therapeutics, and Department of Biological Engineering, Massachusetts Institute of Technology, USA, <sup>4</sup> European Molecular Biology Laboratory, Structural and Computational Biology Unit, Germany, <sup>5</sup> Max Delbrück Center for Molecular Medicine, Germany
[P2.1.37]	<b>Role of inflammation and crosstalk in PCB126-induced metabolic defects</b> A. Caron* <sup>1,2</sup> , C. Aguer <sup>1,2</sup> , <sup>1</sup> University of Ottawa, Canada, <sup>2</sup> Institut du Savoir Montfort, Canada
[P2.1.38]	<b>The heterogeneity of human circulating and tissue mononuclear phagocytes unraveled using single cell omics</b> C.A. Dutertre* <sup>1,2</sup> , A. Bertoletti <sup>2</sup> , F. Ginhoux <sup>1</sup> , <sup>1</sup> Singapore Immunology Network (SIgN), A*STAR, Singapore, <sup>2</sup> Duke-NUS Medical School, Singapore
[P2.1.39]	<b>Autoantibodies against skin antigens favor the development of adverse events during anti-PD1 therapy in non-small cell lung cancer patients</b> O. Hasan Ali <sup>1,2</sup> , D. Bomze <sup>2</sup> , M. Fässler <sup>1</sup> , A. Braun <sup>3</sup> , S. Diem <sup>2</sup> , A. Cozzio <sup>1</sup> , E. Schmidt <sup>1</sup> , D. Zillikens <sup>1</sup> , C. Sadik <sup>1</sup> , L. Flatz* <sup>1</sup> , <sup>1</sup> University of Zurich, Switzerland, <sup>2</sup> Kantonsspital St.Gallen, Switzerland, <sup>3</sup> University of Lübeck, Germany
[P2.1.40]	<b>Immunogenomics and cancer immunotherapy: Single cell analysis of patients developing immune-related adverse events in response to checkpoint blockade</b> S.K. Khan, <i>UT Southwestern Medical Center, USA</i>
[P2.1.41]	<b>The delivery of antigens to dendritic cells is a potent future option for anti-tumor therapies</b> C.H.K. Lehmann* <sup>7</sup> , L. Heger <sup>7</sup> , S. Yamazaki <sup>2</sup> , G.F. Heidkamp <sup>7</sup> , N. Eising <sup>7</sup> , A.B. Krug <sup>4</sup> , J.H.W. Leusen <sup>6</sup> , J. Ravetch <sup>5</sup> , F. Nimmerjahn <sup>3</sup> , D. Dudziak <sup>7</sup> , <sup>1</sup> TU-Munich, Germany, <sup>2</sup> Hokkaido University, Japan, <sup>3</sup> Friedrich-Alexander Universität Erlangen-Nürnberg, Germany, <sup>4</sup> Ludwig-Maximilians-University, Germany, <sup>5</sup> The Rockefeller University, USA, <sup>6</sup> University Medical Center Utrecht, The Netherlands, <sup>7</sup> University Hospital Erlangen, Germany
[P2.1.42]	<b>Antigen targeting of Fc-receptors induces strong T cell responses <i>in vivo</i> independent of ITAM signaling but dependent on dendritic cell subsets</b> C.H.K. Lehmann* <sup>1</sup> , A. Baranska <sup>1,6</sup> , G.F. Heidkamp <sup>1</sup> , M. Seeling <sup>2</sup> , D. Soulat <sup>1</sup> , A.B. Krug <sup>3</sup> , J.V. Ravetch <sup>4</sup> , J.H.W. Leusen <sup>5</sup> , F. Nimmerjahn <sup>2</sup> , D. Dudziak <sup>1</sup> , <sup>1</sup> University Hospital of Erlangen, Germany, <sup>2</sup> Friedrich-Alexander-University Erlangen-Nürnberg, Germany, <sup>3</sup> Ludwig-Maximilians-University Munich, Germany, <sup>4</sup> The Rockefeller University, USA, <sup>5</sup> University Medical Center Utrecht, The Netherlands, <sup>6</sup> Aix Marseille Université, France
[P2.1.43]	<b>Advanced host-directed therapy for new therapeutic insights from the toxoplasma gondii</b> C-S. Yang, <i>Hanyang University, Republic of Korea</i>
[P2.1.44]	<b>Organ-specific co-organization of tumor and T cells in metastatic breast cancer</b> E. Greenstein* <sup>1</sup> , L. De Mattos-Arruda <sup>2</sup> , C. Caldas <sup>2</sup> , N. Friedman <sup>1</sup> , <sup>1</sup> Weizmann Institute of Science, Israel, <sup>2</sup> Cambridge University, UK
[P2.1.45]	<b>(CA)n simple repeat modulates Ctf binding and regulates susceptibility to autoimmunity in a sex-specific manner</b> G. Fernandez Lahore*, M. Johannesson, M. Förster, K.S. Nandakumar, R. Holmdahl, <i>Karolinska Institutet, Sweden</i>
[P2.1.46]	<b>Modeling of NK cell detachment from target cells: Killing as a social effect</b> L. Fidel* <sup>1</sup> , M. Anft <sup>2</sup> , C. Watzl <sup>2</sup> , R. Mehr <sup>1</sup> , <sup>1</sup> Bar-Ilan University, Israel, <sup>2</sup> IfADo - Leibniz Institute for Occupational Research, Germany
[P2.1.47]	<b>Relationships and transitions between B and plasma cell populations in SLE patients</b> R. Goldenberg <sup>1</sup> , C. Tipton <sup>2</sup> , S. Jenks <sup>2</sup> , E.H.F. Lee <sup>2</sup> , I. Sanz <sup>2</sup> , R. Mehr* <sup>1</sup> , <sup>1</sup> Bar-Ilan University, Israel, <sup>2</sup> Emory University, USA
[P2.1.48]	<b>Macrophages from animals with Lewis lung carcinoma enhance the angiogenic potential of endothelial cells</b> T.V. Nikolaienko*, L.V. Garmanchuk, D.V. Shelest, V.V. Nikulina, <i>Taras Shevchenko National University of Kyiv, Ukraine</i>
[P2.1.49]	<b>Integrative analysis reveals CD38 as a therapeutic target for plasma cell-rich pre- and established rheumatoid arthritis and systemic lupus erythematosus</b> S. Cole* <sup>1</sup> , A. Walsh <sup>1</sup> , X. Yin <sup>1</sup> , M. Wechalekar <sup>2</sup> , M. Smith <sup>2</sup> , S. Proudman <sup>3</sup> , D. Veale <sup>4</sup> , U. Fearon <sup>5</sup> , C. Pitzalis <sup>6</sup> , F. Humby <sup>6</sup> , <sup>1</sup> Johnson&Johnson, USA, <sup>2</sup> Flinders University, Australia, <sup>3</sup> University of Adelaide, Australia, <sup>4</sup> Trinity College Dublin, Ireland, <sup>5</sup> University College Dublin, Ireland, <sup>6</sup> Queen Mary University of London, UK

[P2.1.50]	<b>Accelerated aging of monocytes in childhood and adolescent cancer survivors</b> P. Burilova, K. Bendickova, S.S. Jose, T. Kepak, Z. Krenova, J. Fric*, <i>St. Anne's University Hospital Brno, Czech Republic</i>
[P2.1.51]	<b>Omental fat in ovarian cancer induces metabolic and immune alterations</b> M. Suarez-Carmona* <sup>2</sup> , N.A. Valous <sup>1</sup> , M. Hampel <sup>2</sup> , B.M.A. Lenoir <sup>2</sup> , S. Schott <sup>2</sup> , I. Zoernig <sup>2</sup> , D. Jaeger <sup>2</sup> , N. Halama <sup>2</sup> , <sup>1</sup> <i>German Center for Cancer Research (DKFZ), Germany</i> , <sup>2</sup> <i>University Clinics Heidelberg, Germany</i>
[P2.1.52]	<b>Propagating cancer vaccine reprograms the tumor microenvironment by increasing angiogenesis and synergizes with the adaptive immune response</b> S. Ring <sup>1,2</sup> , D. Bomze <sup>2</sup> , L. Onder <sup>2</sup> , J. Cupovic <sup>2</sup> , S. Schmidt <sup>3</sup> , K. Orlinger <sup>3</sup> , T. Bald <sup>4</sup> , D. Speiser <sup>6</sup> , A. Bergthaler <sup>5</sup> , L. Flatz* <sup>1</sup> , <sup>1</sup> <i>University of Zurich, Switzerland</i> , <sup>2</sup> <i>Kantonsspital St.Gallen, Switzerland</i> , <sup>3</sup> <i>Hookipa Biotech, Austria</i> , <sup>4</sup> <i>QIMR Berghofer, Australia</i> , <sup>5</sup> <i>Center for Molecular Medicine CeMM, Austria</i> , <sup>6</sup> <i>University of Lausanne, Switzerland</i>
[P2.1.53]	<b>Analysis of immune biomarkers association with cervical cancer in KwaZulu- Natal, (South Africa)</b> D. Sebastian*, A.G.H. Assounga, <i>University of KwaZulu-Natal, South Africa</i>
[P2.1.54]	<b>Actin retrograde flow controls NK cell cytotoxicity by regulating SHP-1 conformation state</b> O. Matalon, A. Ben-Shmuel*, J. Kivelevitz, B. Sabag, N. Joseph, E. Noy, G. Biber, M. Barda-Saad, <i>Bar-Ilan University, Israel</i>
[P2.1.55]	<b>Live biotherapeutics and immuno-oncology: From discovery to efficacy studies</b> A. Ettorre*, A. Holt, D. Panzica, P. Cowie, S. Yuille, H.M. Savignac, E. Raftis, M. Delday, N. Reichardt, I. Mulder, <i>4D Pharma Research Ltd, UK</i>
[P2.1.56]	<b>SLAMF6 is a regulatory receptor for T cell activation</b> E. Hajaj*, G. Eisenberg, A. Geiger-Maor, S. Frankenburg, M. Lotem, <i>Hadassah Hebrew University Medical Center, Israel</i>
[P2.1.57]	<b>Active EMMPRIN vaccination that reduces tumor growth and metastasis also improves DSS-induced colitis</b> E. Simanovich <sup>1</sup> , V. Brod <sup>1</sup> , M.A. Rahat* <sup>1,2</sup> , <sup>1</sup> <i>Carmel Medical Center, Israel</i> , <sup>2</sup> <i>Ruth and Bruce Rappaport Faculty of Medicine, Israel</i>
[P2.1.58]	<b>Posttranscriptional control by HuR of CD4<sup>+</sup> Foxp3<sup>+</sup> Treg generation and function</b> U. Atasoy* <sup>1,2</sup> , J. Ellis <sup>1,2</sup> , J. Glascock <sup>2</sup> , S. Ridenhour <sup>2</sup> , <sup>1</sup> <i>University of Michigan, USA</i> , <sup>2</sup> <i>University of Missouri, USA</i>
[P2.1.59]	<b>ASC on the crossroad of dendritic cell metabolism during chlamydia infection</b> D. McKeithen <sup>1</sup> , Y. Omosun <sup>1</sup> , K. Ryans <sup>1</sup> , T. Simoneaux <sup>1</sup> , F. Eko <sup>1</sup> , C. Black <sup>2</sup> , J. Igietseme <sup>2</sup> , Q. He* <sup>1</sup> , <sup>1</sup> <i>Morehouse School of Medicine, USA</i> , <sup>2</sup> <i>Centers for Disease Control &amp; Prevention, USA</i>
[P2.1.60]	<b>ADAR1 is essential for lung CD103<sup>+</sup> dendritic cells, alveolar macrophages and pulmonary host defense</b> H. Hackstein* <sup>1</sup> , S. Cunningham <sup>1</sup> , H.L. Obermann <sup>3</sup> , A. Lippitsch <sup>1</sup> , A. Gruber <sup>2</sup> , A. Kaufmann <sup>3</sup> , G. Bein <sup>1</sup> , S. Bauer <sup>3</sup> , N. Baal <sup>1</sup> , <sup>1</sup> <i>University of Giessen, Germany</i> , <sup>2</sup> <i>Freie Universität Berlin, Germany</i> , <sup>3</sup> <i>Philipps University Marburg, Germany</i>
[P2.1.61]	<b>Graft-versus host-disease leads to systemic elimination of innate lymphoid cells and abolishes their development.</b> P. Vinci* <sup>1</sup> , E. Garcia-Martinez <sup>1,2</sup> , M.H. O'Connor <sup>1</sup> , A. Egorova <sup>1</sup> , C.D. Geary <sup>3</sup> , A.M. Mertelsmann <sup>1</sup> , E. Nicoletti <sup>1</sup> , J.C. Sun <sup>3</sup> , A.M. Hanash <sup>1,3</sup> , <sup>1</sup> <i>Memorial Sloan Kettering Cancer Center, USA</i> , <sup>2</sup> <i>University Hospital Morales Meseguer, Spain</i> , <sup>3</sup> <i>Weill Cornell Medical College, USA</i>
[P2.1.62]	<b>A novel epigenetic program induced in intestinal inflammation</b> I. Ansari* <sup>1</sup> , D. Cohen <sup>1</sup> , G. Raddatz <sup>2</sup> , F. Lyko <sup>2</sup> , Y. Bergman <sup>1</sup> , <sup>1</sup> <i>Institute for Medical Research Israel Canada, Hebrew University Medical School, Israel</i> , <sup>2</sup> <i>DKFZ ZMBH Alliance, German Cancer Research Center, Germany</i>
[P2.1.63]	<b>NGS analysis for PDGFRA and ESR1 mutations in a case with testicular seminoma case</b> A. Atak Yucel* <sup>1</sup> , A. Uner <sup>2</sup> , E.U. Bagriacik <sup>1</sup> , R. Karakus <sup>1</sup> , G. Tahtaci <sup>2</sup> , B. Kurt Inci <sup>2</sup> , F. Gurler <sup>2</sup> , <sup>1</sup> <i>Gazi University, Faculty of Medicine, Department of Immunology, Turkey</i> , <sup>2</sup> <i>Gazi University, Faculty of Medicine, Department of Internal Medicine, Section of Oncology, Turkey</i>
[P2.1.64]	<b>A novel genomic locus involved in intrinsic immune response in macrophages</b> P. Arumugam*, D. Shankaran, K. Joshi, V. Scaria, V. Rao, <i>Institute of Genomics and Integrative Biology, India</i>
<b>TECHNOLOGIES FOR DISCOVERY OF NOVEL IMMUNOLOGICAL INSIGHTS</b>	
[P2.2.01]	<b>Spatial reconstruction of immune niches by combining photoactivatable fluorescent reporter and single-cell RNA-seq</b> C. Medaglia <sup>1</sup> , A. Giladi <sup>1</sup> , L.S. Barak <sup>1</sup> , M. De Giovanni* <sup>2</sup> , T.M. Salame <sup>1</sup> , A. Biram <sup>1</sup> , E. David <sup>1</sup> , M. Iannacone <sup>2</sup> , Z. Shulman <sup>1</sup> , I. Amit <sup>1</sup> , <sup>1</sup> <i>Weizmann Institute of Science, Israel</i> , <sup>2</sup> <i>San Raffaele Scientific Institute, Italy</i>
[P2.2.02]	<b>Synthetic peptides immune checkpoint inhibitors engineering for cancer immunotherapy</b> S.V. Podlesnykh <sup>1</sup> , E.A. Kolosova <sup>1</sup> , D.N. Shcherbakov <sup>1</sup> , S.A. Johnston <sup>2</sup> , A.F. Lazarev <sup>1</sup> , A.I. Chapoval* <sup>1</sup> , <sup>1</sup> <i>Altai State University, Russia</i> , <sup>2</sup> <i>Arizona State University, USA</i> , <sup>3</sup> <i>Altai Regional Cancer Center, Russia</i>
[P2.2.03]	<b>Immunogenicity prediction through repertoire-wide TCR-peptide contact profiles</b> M. Ogishi* <sup>1,2</sup> , H. Yotsuyanagi <sup>1</sup> , <sup>1</sup> <i>The University of Tokyo, Japan</i> , <sup>2</sup> <i>National Center for Global Health and Medicine Hospital, Japan</i>
[P2.2.04]	<b>Regulatory T cell dynamics and diversification revealed by single-cell RNAseq</b> D. Zemmour*, J. DiSpirito, C. Li, R. Zilionis, A. Klein, C. Benoist, D. Mathis, <i>Harvard Medical School, USA</i>

[P2.2.05]	<p><b>Cell-specific metabolic models reveal targets that mitigate pathogenicity in Th17 cells: From single-cell RNA-Seq to actionable metabolic targets</b></p> <p>A. Wagner<sup>*1</sup>, C. Wang<sup>2</sup>, D. DeTomaso<sup>1</sup>, A. Koul<sup>2</sup>, A. Regev<sup>2,4</sup>, V.K. Kuchroo<sup>2,3</sup>, N. Yosef<sup>1</sup>, <sup>1</sup>University of California Berkeley, USA, <sup>2</sup>Broad Institute, USA, <sup>3</sup>Harvard University, USA, <sup>4</sup>Massachusetts Institute of Technology, USA</p>
[P2.2.06]	<p><b>TCR affinity influences helper T cell differentiation by biasing dendritic cell interactions</b></p> <p>D.I. Kotov<sup>*1</sup>, J.S. Mitchell<sup>1</sup>, T. Pengo<sup>1</sup>, J.A. Kotov<sup>1</sup>, C. Ruedl<sup>2</sup>, S.S. Way<sup>3</sup>, R.A. Langlois<sup>1</sup>, B.T. Fife<sup>1</sup>, M.K. Jenkins<sup>1</sup>, <sup>1</sup>University of Minnesota, USA, <sup>2</sup>Nanyang Technological University, Singapore, <sup>3</sup>University of Cincinnati, USA</p>
[P2.2.07]	<p><b>Naturally occurring human knockout genes disclose hidden immunological patterns that are not seen in murine models</b></p> <p>D.M. Mevorach<sup>*1</sup>, N.K. Karbian<sup>1</sup>, O.F. Furman<sup>2</sup>, Y.E. Eisenbach<sup>1</sup>, O.P. Peles<sup>1</sup>, A.T. Tabib<sup>1</sup>, <sup>1</sup>Hadassh-Hebrew University, Israel, <sup>2</sup>Hebrew University, Israel, <sup>3</sup>Weizmann Institute, Israel</p>
[P2.2.08]	<p><b>Unsupervised identification of TCR clonotypes participating in immune response from TCR repertoire data</b></p> <p>M.V. Pogorelyy<sup>*1</sup>, I.Z. Mamedov<sup>1</sup>, D.M. Chudakov<sup>1,3</sup>, Y.B. Lebedev<sup>1</sup>, T. Mora<sup>2</sup>, A.M. Walczak<sup>2</sup>, <sup>1</sup>IBCh RAS, Russia, <sup>2</sup>ENS, France, <sup>3</sup>Skoltech, Russia</p>
[P2.2.09]	<p><b>Open-source RNA-based high-resolution HLA typing system.</b></p> <p>A.A. Minervina<sup>*</sup>, M.V. Pogorelyy, E.A. Komech, M.A. Spektor, Y.B. Lebedev, I.Z. Mamedov, <i>IBCh RAS, Russia</i></p>
[P2.2.11]	<p><b>Proteomic analysis of adipose tissues highlights proteins involved in metabolic inflammation in peripartum cows</b></p> <p>M. Zachut<sup>*1</sup>, G. Kra<sup>1</sup>, Y. Levin<sup>2</sup>, S.R. Montgomery<sup>3</sup>, L.K. Mamedova<sup>3</sup>, B.J. Bradford<sup>3</sup>, <sup>1</sup>Agriculture Research Organization, Israel, <sup>2</sup>The Nancy and Stephen Grand Israel National Center for Personalized Medicine, Israel, <sup>3</sup>Kansas State University, USA</p>
[P2.2.12]	<p><b>CD8+ T-cells with characteristic TCRbeta motif are found in patients with ankylosing spondylitis</b></p> <p>E.A. Komech<sup>*1,3</sup>, M.V. Pogorelyy<sup>1</sup>, E.I. Shmidt<sup>2</sup>, E.S. Egorov<sup>1</sup>, A.G. Bochkova<sup>4</sup>, I.Z. Mamedov<sup>1,3</sup>, Y.B. Lebedev<sup>1,3</sup>, D.M. Chudakov<sup>1,3</sup>, I.V. Zvyagin<sup>1,3</sup>, S.A. Lukyanov<sup>3</sup>, A.A. Klimenko<sup>1</sup>, N.A. Shostak<sup>1</sup>, <sup>1</sup>Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, Russia, <sup>2</sup>Pirogov City Clinical Hospital #1, Russia, <sup>3</sup>Pirogov National Research Medical University, Russia, <sup>4</sup>Agat medical centre, Russia</p>
[P2.2.13]	<p><b>Advancing immuno-oncology with pancancer IO 360™ gene expression panel &amp; services</b></p> <p>S. Ong<sup>*</sup>, P. Danaher, S.E. Warren, J.M. Beechem, A. Cesano, <i>NanoString Technologies, USA</i></p>
[P2.2.14]	<p><b>Immunohumix – an unprecedented coculture model of intestinal epithelial cells, immune populations and clostridium species to study the interactions between anaerobic commensal bacteria and host intestinal tissue</b></p> <p>J. Baginska<sup>*1</sup>, J.V. Fritz<sup>1</sup>, M. Mac Giolla Eain<sup>1</sup>, K. Greenhalgh<sup>1</sup>, A. Frachet-Bour<sup>1</sup>, T. Tanoue<sup>2</sup>, K. Atarashi<sup>2</sup>, K. Honda<sup>2,3</sup>, P. Wilmes<sup>1</sup>, <sup>1</sup>University of Luxembourg, Luxembourg, <sup>2</sup>Keio University School of Medicine, Japan, <sup>3</sup>RIKEN Center for Integrative Medical Sciences, Japan</p>
[P2.2.15]	<p><b>Discovery of broad subtypes of Sjögren's Syndrome using nonlinear, data-driven analysis</b></p> <p>P. Bost<sup>*1</sup>, J.E. Gottenberg<sup>2</sup>, B. Schwikowski<sup>1</sup>, <sup>1</sup>Institut Pasteur, France, <sup>2</sup>University of Strasbourg, France</p>
[P2.2.16]	<p><b>The molecular landscape of anti-drug antibodies following treatment with TNFA antagonist</b></p> <p>A. Vaisman-Mentesh<sup>*</sup>, S. Rosenstein, I. Benhar, Y. Wine, <i>Tel Aviv University, Israel</i></p>
[P2.2.17]	<p><b>Unbiased study of the DC – T cell interactome in the antigen-challenged lymph node</b></p> <p>C. Curato<sup>*1</sup>, E. Zupancic<sup>1,2</sup>, L. Maor<sup>1</sup>, D.A. Jaitin<sup>1</sup>, A. Giladi<sup>1</sup>, H. Florindo<sup>2</sup>, I. Amit<sup>1</sup>, S. Jung<sup>1</sup>, <sup>1</sup>Weizmann Institute of Science, Department of Immunology, Israel, <sup>2</sup>Lisbon University, Portugal</p>
[P2.2.18]	<p><b>Diagnosis and prognosis using next generation sequencing of immune receptor repertoires: A case study of hepatitis C virus</b></p> <p>O. Sharabi<sup>1</sup>, S. Eliahu<sup>1</sup>, F. Vigneault<sup>2</sup>, M. Gal-Tanamy<sup>1</sup>, G. Yaari<sup>*1</sup>, <sup>1</sup>Bar Ilan University, Israel, <sup>2</sup>Abvitro, USA</p>
[P2.2.19]	<p><b>High-throughput paired sequencing of single-cell RNA and T cell receptor variable region</b></p> <p>A.A. TU<sup>*</sup>, T. Gierahn, M. Wardsworth, T. Hughes, A. Shalek, J.C. Love, <i>Massachusetts Institute of Technology, USA</i></p>
[P2.2.20]	<p><b>Live cell imaging in microwell arrays reveals induction of CD4 T cell memory by local cellular collectivity</b></p> <p>M. Polonsky<sup>1</sup>, J. Rimer<sup>1</sup>, A. Kern-Perets<sup>1</sup>, C. Borenstein<sup>1</sup>, E. David<sup>1</sup>, N. Kopelman<sup>1</sup>, Z. Porat<sup>1</sup>, B. Chain<sup>2</sup>, N. Friedman<sup>*1</sup>, <sup>1</sup>Weizmann Institute of Science, Israel, <sup>2</sup>University College London, UK</p>
[P2.2.21]	<p><b>The Impact of previous BCG vaccination in enhancing the effectiveness of tuberculosis drugs to control mycobacterial growth Ex-Vivo</b></p> <p>S.A. Prabowo<sup>*</sup>, A. Zelmer, L. Stockdale, S. Smith, K. Seifert, H.A. Fletcher, <i>London School of Hygiene and Tropical Medicine, UK</i></p>
[P2.2.22]	<p><b>High dimensional immune phenotyping reveal robust recovery of viable and functional cells from frozen gastrointestinal tissue</b></p> <p>L. Konnikova<sup>*1,2</sup>, G. Boschetti<sup>4</sup>, A. Rahman<sup>4</sup>, S. Wall<sup>1</sup>, M. Field<sup>1</sup>, C. Richmond<sup>1</sup>, V. Tomov<sup>3</sup>, M. Bewtra<sup>3</sup>, D. Breault<sup>1</sup>, M. Merad<sup>4</sup>, <sup>1</sup>University of Pittsburgh, USA, <sup>2</sup>Harvard University School of Medicine, USA, <sup>3</sup>University of Pennsylvania School of Medicine, USA, <sup>4</sup>Mount Sinai School of Medicine, USA</p>

[P2.2.23]	<b>Next generation analysis of inflammatory infiltrate in atherosclerosis by mass cytometry and single cell RNA-sequencing</b> H. Winkels* <sup>1</sup> , E. Ehinger <sup>1</sup> , M. Vassallo <sup>1</sup> , K. Buscher <sup>1</sup> , A. Hamers <sup>1</sup> , P.A. Bala <sup>1</sup> , A.K. Ghosh <sup>1</sup> , C. Hedrick <sup>1</sup> , K. Ley <sup>1</sup> , D. Wolf <sup>1,2</sup> , <sup>1</sup> <i>La Jolla Institute for Allergy and Immunology, USA</i> , <sup>2</sup> <i>University of Freiburg, Germany</i>
[P2.2.24]	<b>A novel T-lymphocyte receptor detected by a monoclonal antibody unimab in peripheral blood from cancer patients</b> S.D. Banerjee*, S.B. Kumaraswamy, S. Amingard, D. Manjunath, H.P. Manjunath, A. Thomas, <i>Priti center for Oncology, India</i>
[P2.2.25]	<b>Controlling CD4+ Tcell balance by chemical modification of signaling pathways</b> N. Moret*, A. Palmer, N. Gray, C. Benoist, P.K. Sorger, <i>Harvard Medical School, USA</i>
[P2.2.26]	<b>Individuality and universality in the responses of human hosts to bacterial pathogens</b> S. Hen-Avivi <sup>1</sup> , N. Bossel Ben-Moshe* <sup>1</sup> , M. Doppenberg-Oosting <sup>2</sup> , M. Netea <sup>2</sup> , R. Avraham <sup>1</sup> , <sup>1</sup> <i>Weizmann Institute of Science, Israel</i> , <sup>2</sup> <i>Redboud University, The Netherlands</i>
[P2.2.27]	<b>The human immunopeptidome project</b> A. Admon, <i>Technion, Israel</i>
[P2.2.28]	<b>Found in translation: A statistical model for improving mouse to human inference</b> R. Normand* <sup>1</sup> , W. Du <sup>2</sup> , M. Briller <sup>1</sup> , R. Gaujoux <sup>1</sup> , E. Starosvetsky <sup>1</sup> , G. Shalev-Malul <sup>1</sup> , R. Tibshiran <sup>2</sup> , S. Shen-Orr <sup>1</sup> , <sup>1</sup> <i>Technion, Israel</i> , <sup>2</sup> <i>Stanfords, USA</i>
[P2.2.29]	<b>Adaptation of <i>salmonella typhimurium</i> to the macrophages metabolic switch during host pathogen interaction</b> G. Rosenberg*, N. Bossel, O. Solomn, R. Avraham, <i>Weizmann Institute of Science, Israel</i>
[P2.2.30]	<b>ARPC1B-deficient macrophages have a migratory defect</b> G. Leung*, R. Murchie, S.A. Hutchinson, A.M. Muise, <i>Hospital for Sick Children, Canada</i>
[P2.2.31]	<b>Alignment of single cell trajectories for comparative analysis of cellular expression dynamics</b> A. Alpert*, L. Moore, T. Dubovik, S. Shen-Orr, <i>Technion, Israel</i>
[P2.2.32]	<b>An <i>in vitro</i> model to analyse the immune function of human type 2 dendritic cells</b> G. Anselmi, K. Vaivode, P. Guernonprez*, <i>King's College London, UK</i>
[P2.2.33]	<b>Identity of human lymphoid organ dendritic cells is predominantly dictated by ontogeny, not tissue microenvironment</b> G.F. Heidkamp <sup>1</sup> , J. Sander <sup>2</sup> , J.L. Schultze <sup>2</sup> , D. Dudziak* <sup>1</sup> , <sup>1</sup> <i>University Hospital Erlangen, Germany</i> , <sup>2</sup> <i>University Bonn, Germany</i>
[P2.2.34]	<b>Single cell transcriptomics for characterizing the human immune response to yellow fever vaccination</b> J.J.A. Calis, S.A. Uhl, R. Caron, B.R. Rosenberg*, <i>Icahn School of Medicine at Mount Sinai, USA</i>
[P2.2.35]	<b>Quantitative multi-analyte detection of key cytokine release syndrome biomarkers: Workflow optimization with an automated, microfluidic immunoassay system</b> D. Finkel*, R. Grant, S. Thayer, S. Leske, M. Anderson, T. Munn, P. Johnson, K. Shorter, M. Schwartz, K. Brumbaugh, <i>R&amp;D Systems, USA</i>
[P2.2.36]	<b>Lung interstitial macrophages encompass distinct macrophage subsets</b> J. Schyns <sup>1</sup> , D. Pirottin <sup>1</sup> , F. Bureau <sup>1,2</sup> , T. Marichal* <sup>1,2</sup> , <sup>1</sup> <i>Liege University, Belgium</i> , <sup>2</sup> <i>Welbio, Belgium</i>
[P2.2.37]	<b>Diagnosis of glioma tumors using circulating cell-free DNA</b> V. Palande*, D. Raviv-Shay, M. Frenkel-Morgenstern, <i>Bar-Ilan University, Israel</i>
[P2.2.38]	<b>Systems approaches in humoral immune profiling in tuberculosis</b> L.L. Lu <sup>1</sup> , J. Das* <sup>1,2</sup> , P.S. Grace <sup>1</sup> , S.M. Fortune <sup>3</sup> , D. Lauffenburger <sup>2</sup> , B.I. Restrepo <sup>4</sup> , G. Alter <sup>1</sup> , <sup>1</sup> <i>Ragon Institute of MGH, MIT and Harvard, USA</i> , <sup>2</sup> <i>Massachusetts Institute of Technology, USA</i> , <sup>3</sup> <i>Harvard School of Public Health, USA</i> , <sup>4</sup> <i>University of Texas School of Public Health, USA</i>
[P2.2.39]	<b>Placenta-derived mesenchymal stromal-like cells promote neutrophil and monocyte migration, neutrophil differentiation, and macrophage phenotypic switch to an M2 phenotype</b> N. Sher*, R. Shaked-Nitzan, H. Allen, T. Prezma, Z. Aberman, R. Ofir, <i>Pluristem, Israel</i>
[P2.2.40]	<b>A modular platform for targeted RNAi therapeutics</b> N. Veiga*, R. Kedmi, I. Benhar, D. Peer, <i>Tel Aviv University, Israel</i>
<b>THE IMMUNE SYSTEM AND ITS NEURO-METABOLIC INTERACTIONS</b>	
[P2.3.01]	<b>The role of EB12 for T cell-mediated autoinflammation</b> F. Wanke <sup>7</sup> , F.C. Kurschus* <sup>7</sup> , <sup>1</sup> <i>Max Planck Institute for Heart and Lung Research, Germany</i> , <sup>2</sup> <i>Novartis Institutes for BioMedical Research, Switzerland</i> , <sup>3</sup> <i>The Weizmann Institute of Science, Israel</i> , <sup>4</sup> <i>University Hospital Münster, Germany</i> , <sup>5</sup> <i>Max-Delbrueck-Center for Molecular Medicine, Germany</i> , <sup>6</sup> <i>The FIRC Institute of Molecular Oncology, Italy</i> , <sup>7</sup> <i>University Medical Center of the Johannes Gutenberg-University Mainz, Germany</i>
[P2.3.02]	<b>NK cells' metabolism affect their function</b> T. Toledano*, A.J. Zacharia, N.M. Kogan, A. Moussaieff, O. Mandelboim, <i>Hebrew University, Israel</i>
[P2.3.03]	<b>Sympathetic crosstalk with the immune system in obesity</b> C.M. Larabee* <sup>1</sup> , D.A. Jaitin <sup>2</sup> , I. Amit <sup>2</sup> , A.I. Domingos <sup>1</sup> , <sup>1</sup> <i>Instituto Gulbenkian de Ciência, Portugal</i> , <sup>2</sup> <i>Weizmann Institute, Israel</i>

[P2.3.04]	<b>Role of phospholipase C in inflammasome activation</b> T. Prochnicki* <sup>1</sup> , M.S. Mangan <sup>1,3</sup> , D. Wachten <sup>1,2</sup> , E. Latz <sup>1,3</sup> , <sup>1</sup> University of Bonn, Germany, <sup>2</sup> Research Center caesar, Germany, <sup>3</sup> German Center of Neurodegenerative Diseases (DZNE), Germany
[P2.3.05]	<b>Influences of microenvironmental cues on the metabolic function of Th17 cells</b> M. Villa*, E.L. Pearce, Max Planck Institute of Immunobiology and Epigenetics, Germany
[P2.3.06]	<b>Characterisation of the inflammasome-mediated secretome on bystander cells</b> M.S. Mangan* <sup>1,2</sup> , S. Herthals <sup>3</sup> , J.L. Schultze <sup>2,3</sup> , E. Latz <sup>1,2</sup> , <sup>1</sup> Institute of Innate Immunity, Germany, <sup>2</sup> German Centre for Neurodegenerative diseases, Germany, <sup>3</sup> Life & Medical Sciences-Institute, Germany
[P2.3.07]	<b>An insular engram of the gut inflammatory response</b> T. Koren*, M. Krot, B. Korin, H. Azulay-Debby, T.L. Ben-Shaanan, M. Schiller, N.T. Boshnak, T. Bergman, F. Hakim, A. Rolls, Rappaport Faculty of Medicine, Technion, Israel
[P2.3.08]	<b>Spatial and temporal dynamics of adipose lymphocyte dysregulation in obesity</b> N. Yudanin*, T. Mahlakoiv, L.C. Rankin, D.A. Artis, Weill Cornell Medicine, USA
[P2.3.09]	<b>Deciphering the neuro-immune network and its effects on immune responses</b> K.R. Berman*, S. Shen-Orr, Technion, Israel
[P2.3.10]	<b>Tracking adipose-tissue treg provenance, dependencies, and activities via T cell receptor transgenic mice</b> C. Li*, J. DiSpirito, D. Zemmour, R.G. Spallanzani, W. Kuswanto, C. Benoist, D. Mathis, Harvard Medical School, USA
[P2.3.11]	<b>Differential reliance on lipid metabolism as a salvage pathway underlies functional differences of T cell subsets in poor nutrient environments</b> C. Ecker* <sup>1</sup> , L. Guo <sup>1</sup> , S. Voicu <sup>1</sup> , L. Gil-de-Gómez <sup>1</sup> , J. Pajda <sup>2</sup> , A. Varela-Rohena <sup>2</sup> , I. Blair <sup>1</sup> , J. Riley <sup>1</sup> , <sup>1</sup> University of Pennsylvania, USA, <sup>2</sup> Thermo Fisher Scientific, USA
[P2.3.12]	<b>Single cell transcriptomics identifies the disease-specific expression profile of cerebrospinal fluid cells</b> T. Lautwein, D. Schafflick, C. Gross, S.G. Meuth, H. Wiendl, G. Meyer zu Hörste*, University Clinic Münster, Germany
[P2.3.13]	<b>Stimulus dependent gene repression</b> S. Pope*, R. Medzhitov, Yale University, USA
[P2.3.14]	<b>High-throughput analysis of metabolic regulation in B cell activation using CRISPR/Cas9 screening</b> H.R. Steach* <sup>1</sup> , W. Bailis <sup>1</sup> , J.A. Shyer <sup>1</sup> , J.E. Craft <sup>1</sup> , R.A. Flavell <sup>1,3</sup> , <sup>1</sup> Yale University School of Medicine, USA, <sup>2</sup> Howard Hughes Medical Institute, Yale University School of Medicine, USA
[P2.3.15]	<b>TREM2 maintains microglial metabolic fitness in Alzheimer's disease</b> T.K. Ulland* <sup>1</sup> , W.M. Song <sup>1</sup> , S.C. Huang <sup>1</sup> , J.D. Ulrich <sup>1</sup> , A. Sergushichev <sup>2</sup> , W.L. Beatty <sup>1</sup> , A.A. Loboda <sup>2</sup> , Y. Zhou <sup>1</sup> , N.J. Cairns <sup>1</sup> , A. Kambal <sup>1</sup> , <sup>1</sup> Washington University in St. Louis, USA, <sup>2</sup> ITMO University, Russia
[P2.3.16]	<b>How to avoid allergens? Characterizing the neuroimmune mechanisms of food aversion</b> E.B. Florsheim*, M. Dietrich, R. Medzhitov, Yale University School of Medicine, USA
[P2.3.17]	<b>The phagocytic receptor MSR1 promotes a M2/M1 macrophage phenotypic switch in adipose tissue macrophage polarization</b> A.S. Hartlova* <sup>1,2</sup> , M. Guo <sup>2</sup> , J. Peltier <sup>1,2</sup> , N Martinez-Lopez <sup>1</sup> , M. Trost <sup>1,2</sup> , <sup>1</sup> Newcastle University, UK, <sup>2</sup> University of Dundee, UK
[P2.3.18]	<b>Host resistance to endotoxic shock requires the neuro-endocrine regulation of group 1 innate lymphoid cells</b> L. Quattrini, S. Ugolini*, Aix Marseille Univ, CNRS, INSERM, France
[P2.3.19]	<b>Hepatic cellular stress induces periportal ductal progenitor cells proliferation which contributes to inflammatory response and hypermetabolism after severe trauma injury</b> L. Diao* <sup>1,2</sup> , Y. Yousuf <sup>1,2</sup> , S. Amini-Nik <sup>1,2</sup> , M.G. Jeschke <sup>1,2</sup> , <sup>1</sup> Sunnybrook Research Institutue, Canada, <sup>2</sup> University of Toronto, Canada
[P2.3.20]	<b>Understanding mast cell decision-making process in response to action signals of different nature.</b> N. Gaudenzio* <sup>1,2</sup> , R. Sibilano <sup>1</sup> , T. Marichal <sup>3</sup> , P. Starkl <sup>1</sup> , L. Reber <sup>1</sup> , N. Cenac <sup>4</sup> , B. McNeil <sup>5</sup> , X. Dong <sup>5,6</sup> , J. Hernandez <sup>1</sup> , R. Sagi-Eisenberg <sup>7</sup> , <sup>1</sup> Stanford University, USA, <sup>2</sup> UDEAR - UMR 1056 Inserm, France, <sup>3</sup> University of Liège, Belgium, <sup>4</sup> INSERM, France, <sup>5</sup> The Solomon H. Snyder Department of Neuroscience, USA, <sup>6</sup> Johns Hopkins University, USA, <sup>7</sup> Tel-Aviv University, Israel, <sup>8</sup> Stanford University School of Medicine, USA
[P2.3.21]	<b>Mitochondrial hyperpolarization induced by complex-V restriction maintains naïve CD8<sup>+</sup> T-cells at check</b> M. Berger*, A. Saragovi, Hebrew University Medical School, Israel
[P2.3.22]	<b>Characterizing the roles of the cutaneous neuroimmune interface in modulating host-microbiota dialog</b> W. Kulalert*, Y. Belkaid, National Institutes of Health, USA