

# Scientific Program

Saturday, 27 October 2018

<b>17:00 – 19:25</b>	<b>OPENING CEREMONY</b>	<b>Grand Ballroom A-B</b>
17:00 – 17:05	<b>Welcome and Opening Remarks</b> <i>Chris Hunter (for the organizers)</i>	
17:05 – 18:45	<b>Awards Ceremony – Presentations of Milstein Award Lectures</b> <i>Chair: Nancy Reich</i>	
17:10 – 17:15	Milstein Awardee(s) Introduction <i>Nancy Reich</i>	
17:15 – 17:50	<u>Milstein Awardee(s) Lecture I:</u> Krebs Cycle drives signals for inflammation <i>Luke O'Neill (Trinity College Dublin, Ireland)</i>	
17:50 – 18:25	<u>Milstein Awardee(s) Lecture II:</u> Regulation of inflammasome activation and cell death <i>Thirumala Kanneganti (St. Judes, Memphis)</i>	
18:25 – 18:45	<u>Awardee Ceremony</u> <i>Chairs: Bryan Williams and Kate Fitzgerald</i>	
	<b>ICIS BioLegend William E. Paul Awardee:</b> <i>Giorgio Trinchieri, NCI, NIH</i>	
	<b>ICIS Distinguished Service Awardee:</b> <i>Tadamitsu Kishimoto (Osaka, Japan)</i>	
	<b>ICIS Honorary Lifetime Member Awardee:</b> <i>Robert Fleischmann</i>	
	<b>Milstein Young Investigator Awardee(s):</b> <i>Cristina Bergamaschi (NIH, DC)</i> <i>Ricardo Rajsbaum (UTMB, TX)</i> <i>Vijay Rathinam (UConn, CT)</i> <i>Gregory Sonnenberg (Weill Cornell, NY, USA)</i> <i>Munir Akkaya (NIH)</i>	
	<b>Christina Fleischmann Awardee:</b> <i>Sophia Davidson (WEHI Australia)</i>	
	<b>Sidney &amp; Joan Pestka Graduate Awardee:</b> <i>Erika Engelowski (Dusseldorf, Germany)</i>	
	<b>Sidney &amp; Joan Pestka Post Graduate Award:</b> <i>Christoph Schneider (UCSF, USA)</i>	
18:45 – 19:25	<b>Keynote Lecture 1</b> The Diverse Functions of the PD-1 Pathway <i>Arlene Sharpe (Harvard Medical School, USA)</i>	
19:30 – 20:30	<b>WELCOME MIXER</b>	<b>Grand Ballroom Foyer</b>
20:30 – 22:30	<b>POSTER SESSION I &amp; RECEPTION</b>	<b>Pavillon</b>

<b>08:30 – 10:30</b>	<b>PLENARY 1: IMMUNOREGULATION</b> <i>Sponsored by Pfizer</i> <i>Chairs: Anne O'Garra and Maria Grazia Roncarolo</i>	<b>Grand Ballroom A-B</b>
08:30 – 08:55	Transcriptional regulation of IL-10 versus proinflammatory cytokines and consequences for the immune response - <i>Anne O'Garra (Francis Crick Institute, UK)</i>	
08:55 – 09:20	The development and function of IL-10 producing Type 1 regulatory T cells - <i>Maria Grazia Roncarolo (Stanford, USA)</i>	
09:20 – 09:45	Cytokine cues in regulatory T cell differentiation and function - <i>Alexander Rudensky (Memorial Sloan Kettering, USA)</i>	
09:45 – 10:00	O01 - Treatment with heterodimeric IL-15 shapes the cytokine and chemokine milieu of the tumor, promoting tumor infiltration by cytotoxic lymphocytes: a general method for lymphocyte entry in tumors - <i>Cristina Bergamaschi (NIH, MD)</i>	
10:00 – 10:15	O02 - Regulation of novel pattern recognition receptor signaling and IFN induction by unanchored K48-linked polyubiquitin chains - <i>Ricardo Rajsbaum (UTMB, TX)</i>	
10:15 – 10:30	O03 - Delineation of the inflammatory pathway behind proteasome-associated autoinflammatory syndrome - <i>Sophia Davidson (WEHI, Australia)</i>	
<b>10:30 – 11:00</b>	<b>COFFEE BREAK &amp; VISIT OF THE EXHIBITION</b>	<b>Grand Ballroom Foyer</b>
<b>11:00 – 12:35</b>	<b>SYMPOSIUM 1: INNATE SENSING AND SIGNALING</b> <i>Sponsored by Takeda</i> <i>Chairs: Kate Fitzgerald and James Chen</i>	<b>Grand Ballroom A</b>
11:00 – 11:25	Cytokine gene regulation - <i>Kate Fitzgerald (UMass Medical School, USA)</i>	
11:25 – 11:50	A novel receptor involved in the recognition of DAMPs and cell death - <i>Ken Rock, (UMass Medical School, USA)</i>	
11:50 – 12:15	DNA sensing by cGAS - <i>James Chen (UTSW)</i>	
12:15 – 12:25	O04 - Di- and trimeric biological switches made of nanobody-cytokine receptor fusion proteins simulate natural signal transduction - <i>Erika Engelowski (Heinrich-Heine-University, Germany)</i>	
12:25 – 12:35	O05 - A metabolite-triggered tuft cell-ilc2 circuit drives small intestinal remodelling - <i>Christoph Schneider (UCSF, CA)</i>	
<b>11:00 – 12:35</b>	<b>SYMPOSIUM 2: ANTIVIRAL RESPONSES</b> <i>Chairs: Carolina Lopez and Elina Zuniga</i>	<b>Grand Ballroom B</b>
11:00 – 11:25	Type I interferon exhaustion - <i>Elina Zuniga (UCSD, USA)</i>	
11:25 – 11:50	Defective (interfering) viral genomes re-explored: Impact on antiviral immunity and virus persistence - <i>Carolina Lopez (UPenn, USA)</i>	
11:50 – 12:15	The good, the bad, and the ugly consequences of CD8 T cell memory to RSV - <i>Steve Varga (U. Iowa, USA)</i>	
12:15 – 12:25	O06 - Type I interferon signaling attenuates regulatory T cell function in viral infection and in the tumor microenvironment - <i>Arunakumar Gangaplara (NIAID, USA)</i>	
12:25 – 12:35	O07 - Gap-junction dependent trans-activation of human monocytes by CGAMP - <i>Genevieve Pepin (Hudson Institute, Australia)</i>	

<b>12:45 – 13:45</b>	<b>INDUSTRY SPONSORED LUNCH SYMPOSIUM</b> <i>Chair: Simon Jones</i>	<b>Grand Ballroom B</b>
12:45 – 13:15	The anti-TNF success story and the new challenges ahead - <i>Jochen Salfeld (Abbvie, USA)</i>	
13:15 – 13:45	Dupilumab confirms the role of IL-4 and IL-13 as central drivers of type 2 immunity in human disease - <i>Jamie Orengo (Regeneron, USA)</i>	
<b>14:00 – 16:00</b>	<b>SYMPOSIUM 3: INFLAMMASOMES, INTERFERONS AND BEYOND</b> <i>Sponsored by Sanofi</i> <i>Chairs: Clare Bryant and Igor Brodsky</i>	<b>Grand Ballroom A</b>
14:00 – 14:25	Pathogenic effects of IFIT2 and IFN- $\beta$ during fatal systemic <i>C.albicans</i> infection - <i>Nancy Reich (Stony Brook University, NY, USA)</i>	
14:25 – 14:50	Control of inflammatory gene expression by caspase-8 - <i>Igor Brodsky (UPenn, USA)</i>	
14:50 – 15:15	Following the speck: pattern recognition receptors in bacterial infections - <i>Clare Bryant (Cambridge, UK)</i>	
15:15 – 15:40	Pyroptosis: from innate immunity to cancer - <i>Feng Shao (Beijing, China)</i>	
15:40 – 15:50	O08 - GSDMD is critical for autoinflammatory pathology in a mouse model of familial Mediterranean fever - <i>Apurva Kanneganti (Harvard College, USA)</i>	
15:50 – 16:00	O09 - The AIM2 innate immune DNA sensor facilitates STAT3-driven gastric tumorigenesis - <i>Virginie Deswaerte (Hudson Institute, Australia)</i>	
<b>14:00 – 16:00</b>	<b>SYMPOSIUM 4: INFECTION AND INFLAMMATION IN THE LUNG</b> <i>Sponsored by Regeneron</i> <i>Chairs: Andrew McKenzie and Clare Lloyd</i>	<b>Grand Ballroom B</b>
14:00 – 14:25	Immune regulation in the allergic lung - <i>Clare Lloyd (Imperial College London, UK)</i>	
14:25 – 14:50	IL-33 and ILCs - <i>John Silver (Medimmune, MD, USA)</i>	
14:50 – 15:15	IL-33 and ILC2 in the regulation of adaptive immunity and metabolism - <i>Andrew McKenzie (MRC, UK)</i>	
15:15 – 15:40	Multifaceted roles of type I interferons in respiratory infections - <i>Andreas Wack (Crick Institute, UK)</i>	
15:40 – 15:50	O10 - Modulation of interleukin-22 alleviate respiratory viral infection by promoting epithelial intrinsic type I interferon response - <i>Ran Wang (The University of Queensland, Australia)</i>	
15:50 – 16:00	O11 - ADAM17/IL-6 trans-signalling axis: a promising therapeutic target for lung adenocarcinoma - <i>Mohamed I Saad (Hudson Institute, Australia)</i>	
<b>16:00 – 16:30</b>	<b>COFFEE BREAK &amp; VISIT OF THE EXHIBITION</b>	<b>Grand Ballroom Foyer</b>
<b>16:30 – 18:30</b>	<b>SYMPOSIUM 5: CYTOKINES IN NEURONAL INFLAMMATION</b> <i>Sponsored by Biogen</i> <i>Chairs: Douglas Golenbock and Burkhard Becher</i>	<b>Grand Ballroom A</b>
16:30 – 16:55	GM-CSF in tissue inflammation: Central communication conduit between T cells and phagocytes in immunopathology - <i>Burkhard Becher (U of Zurich, Switzerland)</i>	
16:55 – 17:20	The role of Interleukin-18 in Alzheimer's-related seizure disorder - <i>Douglas Golenbock (Umass Medical School, USA)</i>	
17:20 – 17:45	Atypical signaling pathways induced by interferon gamma following viral infection of neurons - <i>Glenn Rall (Fox Chase Cancer Center, USA)</i>	
17:45 – 18:10	TREM2 and regulation of neuronal inflammation - <i>Marco Colonna, (Washington University, USA)</i>	

18:10 – 18:20	O12 - Decoupling IL-6 biological effects using protein engineering - <i>Ignacio Moraga Gonzalez (University Of Dundee, UK)</i>	
18:20 – 18:30	O13 - Demystifying the mechanism of mitochondrial STAT3 activity - <i>Daniel Gough (Hudson Institute, Australia)</i>	
<b>16:30 – 18:30</b>	<b>SYMPOSIUM 6: INTESTINAL HOMEOSTASIS</b> <i>Sponsored by Eli Lilly and Company</i> <i>Chairs: Greg Sonnenberg and Manuela Raffatellu</i>	<b>Grand Ballroom B</b>
16:30 – 16:55	Cytokine regulation of intestinal health - <i>Greg Sonnenberg (Weil Cornell, USA)</i>	
16:55 – 17:20	Type III interferons control intestinal inflammation - <i>Ivan Zanoni (HMS, USA)</i>	
17:20 – 17:45	Evasion of IL-22-mediated antimicrobial responses by bacterial pathogens - <i>Manuela Raffatellu (UCSD, USA)</i>	
17:45 – 18:10	Functional heterogeneity of IL-22 and IL-10 producing CD4 T cells - <i>Nicola Gagliani (Hamburg, Germany)</i>	
18:10 – 18:20	O14 - Critical role of IFNS in gastro-intestinal injury repair - <i>Constance McElrath (Rutgers University, USA)</i>	
18:20 – 18:30	O15 - NLRP1 inflammasome exacerbates inflammatory bowel disease through IL-18 production and dysbiosis of butyrate producing commensal clostridiales - <i>Chien-Hsiung Yu (Walter and Eliza Hall Institute, Australia)</i>	
<b>18:30 – 20:30</b>	<b>BREAK</b>	
<b>20:30 – 22:30</b>	<b>POSTER SESSION II with Wine, Beer and Snacks</b>	<b>Pavillon</b>

## Monday, 29 October 2018

<b>08:30 – 10:35</b>	<b>PLENARY 2: ADVANCES IN PATHOGENIC TH17 AXIS OF EVIL</b> <i>Sponsored by Janssen Pharmaceuticals</i> <i>Chairs: John O'Shea and Sarah Gaffen</i>	<b>Grand Ballroom A-B</b>
08:30 – 09:05	<b>Keynote Lecture 2</b> Oh to be seventeen again: IL-17 signaling in fungal immunity and autoimmune disease - <i>Sarah Gaffen (UPMC)</i>	
09:05 – 09:30	Cytokine instruction of gene expression: a genomic view - <i>John O'Shea (NIAMS, USA)</i>	
09:30 – 09:55	Crosstalk between tissue-Tregs and mesenchymal stromal cells - <i>Diane Mathis (HMS, USA)</i>	
09:55 – 10:20	Environmental influences on intestinal homeostasis - <i>Brigitta Stockinger (Francis Crick Institute, UK)</i>	
10:20 – 10:35	O16 - Type I interferons regulate B cell development and differentiation - <i>Munir Akkaya (NIH, MD)</i>	
<b>10:35 – 11:00</b>	<b>COFFEE BREAK &amp; VISIT OF THE EXHIBITION</b>	<b>Grand Ballroom Foyer</b>
<b>11:00 – 12:35</b>	<b>SYMPOSIUM 7: TYPE II IMMUNITY</b> <i>Chairs: Judith Allen and De'broski Herbert</i>	<b>Grand Ballroom A</b>
11:00 – 11:25	Cytokine control of macrophage dynamics during helminth infection - <i>Judith Allen (U. Manchester, UK)</i>	
11:25 – 11:50	Type 2 cytokine release from cDC2 critically regulates host protection and immunopathology - <i>De'broski Herbert (UPenn, USA)</i>	
11:50 – 12:15	Comparative immunology to dissect immune responses during heminth infection and allergy - <i>Elia Tait Wojno (Cornell, USA)</i>	

12:15 – 12:25	O17 - Allergic inflammatory memory of type 2 cytokines in human respiratory epithelial progenitor cells - <i>Jose Ordovas-Montanes (Mit/Broad Institute/Ragon Institute, USA)</i>	
12:25 – 12:35	O18 - Tissue signals imprint ILC2 transcriptional identity and preemptive function - <i>Steven Van Dyken (Washington University School of Medicine, USA)</i>	
<b>11:00 – 12:35</b>	<b>SYMPOSIUM 8: INNATE CYTOKINES AND CANCER</b> <i>Sponsored by Surface Oncology</i> <i>Chairs: Brendan Jenkins and Andy Minn</i>	<b>Grand Ballroom B</b>
11:00 – 11:25	HMGB1 and other DAMPs in cancer and other diseases; therapeutic implication - <i>Hideyuki Yanai (U. Tokyo, Japan)</i>	
11:25 – 11:50	Dichotomous functions of pattern recognition receptor and interferon signaling in cancer - <i>Andy Minn (UPenn, USA)</i>	
11:50 – 12:15	Uncovering the pro-tumourigenic role of innate immune DNA sensors in cancer - <i>Brendan Jenkins (Hudson Institute, Australia)</i>	
12:15 – 12:25	O19 - STAT3 suppresses primary tumour growth, but increases metastasis in MYC-driven small cell lung cancer - <i>Aleks Camille Guanizo (Hudson Institute, Australia)</i>	
12:25 – 12:35	O20 - Successful anti-PD-1 cancer immunotherapy requires T cell-dendritic cell crosstalk involving IFN- $\gamma$ and IL-12 - <i>Christopher S Garris (Massachusetts General Hospital - Harvard Medical School, USA)</i>	
<b>12:45 – 13:45</b>	<b>BIOTECH/VENTURE CAPITAL PANEL DISCUSSION</b> <i>Chair: Luke O'Neil</i>  <i>David Grayzel (Atlas Ventures)</i> <i>Samantha Truex (CEO of Quench)</i> <i>Ben Auspitz (Five Prime Capital Partners)</i>  <b>Lunch provided</b>	<b>Grand Ballroom A</b>
<b>12:45 – 13:45</b>	<b>MEET THE EDITORS</b> <i>Chair: Sri Devi Narasimhan (Cell Press)</i>  <i>Sri Devi Narasimhan (Cell Press)</i> <i>Seth Scanlon (AAAS Science International, Inc.)</i> <i>Kavitha Scranton (Immunity)</i> <i>Teodoro Pulvirenti (Journal Experimental Medicine)</i> <i>Laurie Dempsey (Nature Immunology)</i>  <b>Lunch provided</b>	<b>Grand Ballroom B</b>
<b>14:00 – 16:00</b>	<b>SYMPOSIUM 9: IMMUNOREGULATION II</b> <i>Chairs: Carla Rothlin and Mandy McGeachy</i>	<b>Grand Ballroom A</b>
14:00 – 14:25	Regulating cytokine production and inflammation to control tuberculosis - <i>Christina Stallings (Washington University, USA)</i>	
14:25 – 14:50	Energizing the troops: Th17 cell functions beyond classical inflammation - <i>Mandy McGeachy (U. Pittsburg Medical School, USA)</i>	
14:50 – 15:15	Death begets a new beginning - <i>Carla Rothlin (Yale, USA)</i>	
15:15 – 15:40	Neuronal regulation of innate lymphoid cells - <i>Henrique Veiga-Fernandes (Lisbon, Portugal)</i>	
15:40 – 15:50	O21 - Interleukin-11 signaling induces a unique pathogenic CD4+ T helper-17 cell population - <i>Ka Yee Fung (Walter and Eliza Hall Institute, Australia)</i>	
15:50 – 16:00	O22 - The stromal tissue compartment as an orchestrator of IL-6-driven anti-microbial host defence - <i>Javier Uceda (Cardiff University, UK)</i>	

<b>14:00 – 16:00</b>	<b>SYMPOSIUM 10: TYPE III AND OTHER IFNS</b> <i>Chairs: Paul Hertzog and Carolyn Coyne</i>	<b>Grand Ballroom B</b>
14:00 – 14:25	Molecular pathways that bifurcate type I and III interferon responses - Ram Savan (U. Washington, USA)	
14:25 – 14:50	Regulation of mucosal immunity to infection and cancer by interferon epsilon - Paul Hertzog (Hudson Institute, Australia)	
14:50 – 15:15	Antiviral signaling at the maternal-fetal interface - Carolyn Coyne (U. Pittsburg Medical School, USA)	
15:15 – 15:40	Combining TLR agonists for cancer therapy - Bryan Williams (Hudson Institute, Victoria, AU)	
15:40 – 15:50	O23 - IFN-lambda facilitates protective T cell immunity by modulation of migratory dendritic cell function during influenza virus infection - Emily A Hemann (University Of Washington, USA)	
15:50 – 16:00	O24 - Inactivation of type I interferon responses in the tumor microenvironment triggers the stromagenic switch and desmoplasia - Christina Cho (University Of Pennsylvania, USA)	
<b>16:00 – 16:30</b>	<b>COFFEE BREAK &amp; VISIT OF THE EXHIBITION</b>	<b>Grand Ballroom Foyer</b>
<b>16:30 – 18:10</b>	<b>SYMPOSIUM 11: CYTOKINES AND CANCER II</b> <i>Chairs: Steve Ziegler and Xiaoxia Li</i>	<b>Grand Ballroom A</b>
16:30 – 16:55	IL-17 signaling in autoimmunity and cancer - Xiaoxia Li (Cleveland Clinic, USA)	
16:55 – 17:20	Epithelial cytokines and cancer - Steve Ziegler (Benaroya Research Institute, USA)	
17:20 – 17:45	Modulation of the Src/JAK/STAT3 axis within the complex tumour microenvironment: optimizing drug targeting in pancreatic cancer - Marina Pajic (Garvan Institute, Australia)	
17:45 – 18:10	Anti-IL-1b in cancer immunotherapy - Reshma Singh (Novartis, USA)	
<b>16:30 – 18:10</b>	<b>SYMPOSIUM 12: TYPE I IFNS IN DISEASE</b> <i>Sponsored by Boehringer Ingelheim</i> <i>Chairs: Daniel Stetson and Yanick Crow</i>	<b>Grand Ballroom B</b>
16:30 – 16:55	Induction of the type I interferon response - Daniel Stetson (U. Washington, USA)	
16:55 – 17:20	Nucleic acid driven inflammation in humans - Yanick Crow (U. Manchester, UK)	
17:20 – 17:45	The role of Interferon alpha in CNS lupus - Michael Carroll (HMS, USA)	
17:45 – 18:10	Blockade of Type I IFNs in SLE - Kerry Casey (Medimmune)	
<b>19:00 – 22:00</b>	<b>CONFERENCE DINNER – SPIRIT OF BOSTON CRUISE</b>	

## Tuesday, 30 October 2018

<b>08:30 – 10:30</b>	<b>SYMPOSIUM 13: PHILIP I. MARCUS SYMPOSIUM</b> <i>Sponsored by Mary Ann Liebert, Inc., publishers</i> <i>Chairs: Ganes Sen and Michael Gale</i>	<b>Grand Ballroom A</b>
08:30 – 08:55	Immune programming by RIG-I-like receptors and cytokine crosstalk - Michael Gale (U. Washington, USA)	
08:55 – 09:20	Mechanisms of innate sensing and signaling by RIG-I-like receptors - Michaela Gack (U. Chicago, USA)	
09:20 – 09:45	EGFR is needed for eliciting innate immune signaling by intracellular nucleic acid recognizing receptors - Ganes Sen (Cleveland Clinic, USA)	
09:45 – 10:10	Inhibition of viral replication by interferon stimulated genes - John Schoggins (UTSW, USA)	

10:10 – 10:20	O25 - Type I interferon sensing unlocks dormant adipocyte inflammatory potential - <i>Senad Divanovic (Cincinnati Children's Hospital Medical Center, USA)</i>	
10:20 – 10:30	O26 - The long non-coding RNA LUCAT1 transcriptionally regulates type-I interferon responses - <i>Shiuli Agarwal (University of Massachusetts, USA)</i>	
<b>08:30 – 10:30</b>	<b>SYMPOSIUM 14: DERMAL RESPONSES, CYTOKINES</b> <i>Sponsored by PBL Bio</i> <i>Chairs: John Harris and Jennifer Towne</i>	<b>Grand Ballroom B</b>
08:30 – 08:55	Cytokines promote the localization and survival of autoreactive T cells in skin lesions of vitiligo patients - <i>John Harris (UMass Medical School, USA)</i>	
08:55 – 09:20	Neuroimmune regulation of skin inflammation - <i>Brian Kim (Washington University, USA)</i>	
09:20 – 09:45	To ubiquitinate or deubiquitinate, that is the question - <i>Daniel Kastner (NIH, USA)</i>	
09:45 – 10:10	Regulation and function of interleukin-36 - <i>Jennifer Towne (Janssen Pharmaceuticals, USA)</i>	
10:10 – 10:20	O27 - A long noncoding RNA attenuates dendritic cell cytokine production and decreases autoimmune disease susceptibility - <i>Tom Brodnicki (St Vincent's Institute, Australia)</i>	
10:20 – 10:30	O28 - AIM2-deficient dendritic cell vaccine facilitates adoptive T-cell therapy and anti-PD-1 immunotherapy via the activation of sting-type I IFN signalling - <i>Keitaro Fukuda (University Of Massachusetts Medical School, USA)</i>	
<b>10:30 – 11:00</b>	<b>COFFEE BREAK &amp; VISIT OF THE EXHIBITION</b>	<b>Grand Ballroom Foyer</b>
<b>11:00 – 12:35</b>	<b>SYMPOSIUM 15: INFLAMMASOME AND IL1 FAMILY MEMBERS II</b> <i>Sponsored by Biolegend</i> <i>Chairs: Jonathan Kagan and Cem Gabay</i>	<b>Grand Ballroom A</b>
11:00 – 11:25	O29 - The expanding functions of inflammasomes complexes - <i>Vijay Rathinam (UConn, USA)</i>	
11:25 – 11:50	Regulation of innate immune signaling - <i>Jonathan Kagan (Childrens Hospital Boston, USA)</i>	
11:50 – 12:15	IL18 and IL18BP in macrophage activation syndrome - <i>Cem Gabay (University of Geneva, Switzerland)</i>	
12:15 – 12:25	O30 - The NLRC4 inflammasome requires IRF8-dependent production of NAIPS - <i>Rajendra Karki (St. Jude Children's Research Hospital, USA)</i>	
12:25 – 12:35	O31 - germ-cell specific inflammasome component NLRP14 negatively regulates cytosolic nucleic acid sensing to promote fertilization - <i>Sagi Shapira (Columbia University, USA)</i>	
<b>11:00 – 12:35</b>	<b>SYMPOSIUM 16: INFECTION AND IMMUNITY</b> <i>Sponsored by AAAS</i> <i>Chairs: Hiroki Yoshida and Katrin Mayer-Barber</i>	<b>Grand Ballroom B</b>
11:00 – 11:25	Novel immune evasion strategy of <i>P. gingivalis</i> via inhibitory receptor, siglec - <i>Hiroki Yoshida (Saga University, Japan)</i>	
11:25 – 11:50	IL-27 - still inhibiting after all these years - <i>Chris Hunter (UPenn, USA)</i>	
11:50 – 12:15	Innate inflammatory cytokines and effector cells in host resistance to tuberculosis - <i>Katrin Mayer-Barber (NIAID, NIH)</i>	
12:15 – 12:25	O32 - The multifaceted M152 protein selectively modulates sting-dependent signaling to enhance murine cytomegalovirus replication - <i>Melanie M Brinkmann (Helmholtz Centre For Infection Research, Germany)</i>	
12:25 – 12:35	O33 - Activation of mitochondrial apoptotic signaling triggers NLRP3 inflammasome activation - <i>Kate E Lawlor (Hudson Institute, Australia)</i>	

12:55 – 13:50

**TRAINEE WORKSHOPS – 3 Parallel Sessions**

**SESSION A - CANCER**

**Grand Ballroom A**

- 12:55 – 13:00 *Chairs: Howard Young and Brendan Jenkins*
- 13:00 – 13:10 O34 - IL-38 restricts anti-tumor immunity by limiting IL-17 production from gamma-delta T cells through IL1RAPL1 - *Javier Mora (University of Costa Rica, Costa Rica)*
- 13:10 – 13:20 O35 - Significant reduction of tumor growth and metastasis by intratumor treatment of a SHRNA targeting IL-17RA in a murine B16F10 melanoma mode - *Ya-Shan Chen (Chang Gung University, Taiwan)*
- 13:20 – 13:30 O36 - Mitochondrial double stranded RNA triggers antiviral signalling in human - *Ashish Dhir (University of Oxford, UK)*
- 13:30 – 13:40 O37 - ELF5 regulated interferon signaling in triple negative breast cancer - *Rumela Chakrabarti (University of Pennsylvania, USA)*
- 13:40 – 13:50 O38 - Myeloid P38 MAPK promotes tumorigenesis by suppressing cytotoxic T cell recruitment - *Min-Kyung Choo (Massachusetts General Hospital and Harvard Medical School, USA)*

**SESSION B - INNATE IMMUNITY**

**Grand Ballroom B**

- 12:55 – 13:00 *Chairs: Susan Carpenter and Bryan Williams*
- 13:00 – 13:10 O39 - A programmable signaling complex controls cell fate decisions upon toll-like receptor activation - *Yunhao Tan (Boston Children's Hospital, Harvard Medical School, USA)*
- 13:10 – 13:20 O40 - A new antiviral ISG TDRD7 inhibits cellular autophagy to control virus replication - *Saurabh Chattopadhyay (University of Toledo College of Medicine and Life Sciences, USA)*
- 13:20 – 13:30 O41 - New tricks for an old dog: non-canonical STAT3 mediates TLR4 mitochondrial reprogramming and inflammationhuman - *Ashley Mansell (Hudson Institute, Australia)*
- 13:30 – 13:40 O42 - The moonlighting protein 14-3-3 ETA controls MDA5 activation and the MDA5-dependent antiviral innate immunity - *Helene Minyi Liu (National Taiwan University, Taiwan)*
- 13:40 – 13:50 O43 - Important differences in the IFN-I response to DNA and RNA virus particles - *David Hare (Mcmaster University, Canada)*

**SESSION C - CYTOKINE REGULATION**

**Grand Ballroom C**

- 12:55 – 13:00 *Chairs: Carl Richards and Vijay Rathinam*
- 13:00 – 13:10 O44 - IL-27P28 is an antagonist of B cell response during toxoplasmosis - *Jeongho Park (University Of Pennsylvania, USA)*
- 13:10 – 13:20 O45 - IL-36 cytokines alter the composition of the intestinal microbiome to protect against obesity and metabolic dysfunction - *Eirini Giannoudaki (Trinity College Dublin, Ireland)*
- 13:20 – 13:30 O46 - Placenta-specific 8 suppresses interferon gamma production by TH1 cells - *Chris D Slade (University of Georgia, USA)*
- 13:30 – 13:40 O47 - Epigenetic landscape of FOXP3 enhancer sites during thymic FOXP3+ TREG development of CNS0- and cNS3-deficient mice - *Ryoji Kawakami (Osaka university, USA)*
- 13:40 – 13:50 O48 - HIPPO/MST signaling couples metabolic state and function of CD8A+ dendritic cells for cytotoxic T-cell priming - *Xingrong Du (St. Jude Children's Research Hospital, USA)*



<b>14:00 – 15:35</b>	<b>SYMPOSIUM 17: T CELL REGULATION IN CANCER</b> <i>Chairs: Ananda Goldrath and Wenjun Ouyang</i>	<b>Grand Ballroom A</b>
14:00 – 14:25	Transcriptional regulation of T cell residency in tissues and tumors - <i>Ananda Goldrath (UCSD, USA)</i>	
14:25 – 14:50	Chemokines in cancer immunotherapy - <i>Andrew Luster (HMS, USA)</i>	
14:50 – 15:15	Cytokine pathways on tumor infiltrating T cells revealed by single cell RNAseq - <i>Wenjun Ouyang (Amgen, USA)</i>	
15:15 – 15:25	O49 - Cytokine and transcriptional regulation of stem cell-like CD8 T cells - <i>Tuoqi Wu (NIH, USA)</i>	
15:25 – 15:35	O50 - IL-17 drives the bio-energetic activity of lymph node fibroblastic reticular cells to promote expansion during TH17 cell activation - <i>Saikat Majumder (University of Pittsburgh, USA)</i>	
<b>14:00 – 15:40</b>	<b>SYMPOSIUM 18: GUEST SYMPOSIUM</b> <i>Sponsored by the Japanese Society for Interferon and Cytokine Research (JSICR)</i> <i>Chairs: Akinori Takaoka and Chris Hunter</i>	<b>Grand Ballroom B</b>
14:00 – 14:25	Th2 cytokines in allergic responses; from Th2 to ILC2 - <i>Masato Kubo (Tokyo University of Science, Japan)</i>	
14:25 – 14:50	Gateway reflex, a new concept in Neuroimmunology coming from IL-6 discovery - <i>Daisuke Kamimura (Hokkaido University, Japan)</i>	
14:50 – 15:15	Resolution of inflammation and tissue repair by immunoregulatory monocytes - <i>Masato Tanaka (Tokyo University, Japan)</i>	
15:15 – 15:40	Interferons and innate immunity - <i>Akinori Takaoka (Hokkaido University, Japan)</i>	
<b>15:40 – 15:55</b>	<b>COFFEE BREAK &amp; VISIT OF THE EXHIBITION</b>	<b>Grand Ballroom Foyer</b>
<b>15:55 – 17:25</b>	<b>PLENARY 3: TISSUE SPECIFIC RESPONSES – GUT, LUNG AND LYMPH NODES</b> <i>Sponsored by The Kenneth Rainin Foundation</i> <i>Chair: Eleanor Fish</i>	<b>Grand Ballroom A</b>
15:55 – 16:25	<b>ICIS BioLegend William E. Paul Awardee Lecture</b> From cytokines to bugs - <i>Giorgio Trinchieri (NCI, NIH, USA) Bill Paul Awardee</i>	
16:25 – 16:50	Control of tissue immunity and repair by the microbiota - <i>Yasmine Belkaid (NIH, USA)</i>	
16:50 – 17:25	<b>Keynote Lecture 3</b> Cytokine regulation of chronic inflammation - <i>David Artis (Cornell, NY, USA)</i>	
<b>17:25 – 17:30</b>	<b>CONFERENCE WRAP UP – Invitation to Cytokines 2019 in Vienna</b>	<b>Grand Ballroom A</b>