Day 1 Saturday October 27th

5-5:05	Welcome and Opening Remarks: Chris Hunter (for the organizers)
5:05-7:25	Opening Lectures & Awards Presentations:
5:05-6:45	Awards Ceremony – Presentations and Milstein Award Lectures: (Chair, Nancy Reich)
5:10-15	Milstein Awardee(s) Introduction
5:15-5:50	Milstein Awardee(s) Lecture I Luke O'Neill (Trinity College Dublin, Ireland) Krebs Cycle drives signals for inflammation
5:50-6:25	Milstein Awardee(s) Lecture II Thirumala Kanneganti (St. Judes, Memphis) Regulation of inflammasome activation and cell death
6:25-6:45	Awardee Ceremony ICIS BioLegend William E. Paul Awardee; Giorgio Trinchieri (NCI, NIH) ICIS Honorary member Awardee; Robert Fleischmann ICIS Distinguished Service Awardee; Tadamitsu Kishimoto (Osaka, Japan) Milstein Young Investigator Awardee(s) Cristina Bergamaschi, NIH,DC Ricardo Rajsbaum, UTMB, TX Vijay Rathinam, UConn, CT Gregory Sonnenberg, Weill Cornell, NY Munir Akkaya, NIH Christina Fleischmann Awardee Sophia Davidson, WEHI Australia Sidney & Joan Pestka Graduate Awardee Erika Engelowski, Dusseldorf, Germany Sidney & Joan Pestka Post Graduate Award; Christoph Schneider, UCSF, CA
6:45-7:25	Keynote Speaker 1: Arlene Sharpe PhD (Harvard Medical School, USA) The Diverse Functions of the PD-1 Pathway
7:30-8:30 8:30 – 10:30	Welcome Mixer POSTER SESSION I

Day 2 Sunday October 28th

8.30-10:30	Plenary I: Immunoregulation I
8:30-8:55	Anne O'Garra (Francis Crick Institute, UK) Transcriptional regulation of II, 10 versus proinflammatory sytakings and consequences for the
	Transcriptional regulation of IL-10 versus proinflammatory cytokines and consequences for the immune response
8:55-9:20	Maria Grazia Roncarolo (Stanford, USA)
0.55 5.20	The Development and Function of IL-10 Producing Type 1 Regulatory T Cells
9:20-9:45	Alexander Rudensky (Memorial Sloan Kettering, USA)
	Cytokine cues in regulatory T cell differentiation and function
9:45:-10:00	Cristina Bergamaschi (NIH, MD)
	Milstein Young Investigator Awardee – short talk
	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
10:00-10:15	Ricardo Rajsbaum (UTMB, TX)
	Milstein Young Investigator Awardee – short talk
	O02 - Regulation of novel pattern recognition receptor signaling and IFN induction by unanchored
10.15 10.20	K48-linked polyubiquitin chains
10:15-10:30	Sophia Davidson (WEHI, Australia) Christina Fleischmann Awardee – short talk
	O03 - Delineation of the inflammatory pathway behind proteasome-associated autoinflammatory
	syndrome
	Syndronie
10:30-11:00	COFFEE BREAK
11:00-12.35	Symposium 1 (Parallel): Innate Sensing and Signaling
11:00-11:25	Kate Fitzgerald (UMass Medical School, USA)
	Cytokine Gene Regulation
11:25-11:50	Ken Rock, (UMass Medical School, USA)
	A novel receptor involved in the recognition of DAMPs and Cell Death
11:50-12:15	James Chen (UTSW)
	DNA sensing by cGAS
12:15-12:25	Erika Engelowski (Dusseldorf, Germany)
	Sidney & Joan Pestka Graduate Awardee
	O04 - Di- and trimeric biological switches made of nanobody-cytokine receptor fusion proteins
42.25.42.25	simulate natural signal transduction
12:25-12:35	Christoph Schneider (UCSF, CA)
	Sidney & Joan Pestka Post Graduate Award
	O05 - A metabolite-triggered tuft cell-ilc2 circuit drives small intestinal remodeling
11:00-12.35	Symposium 2 (Parallel): Antiviral responses
11:00-11:25	Elina Zuniga (UCSD, USA)
	Type I Interferon Exhaustion
11:25-11:50	Carolina Lopez (UPenn, USA)
	Defective (Interfering) Viral Genomes Re-Explored: Impact on Antiviral Immunity and Virus
	Persistence
11:50-12:15	Steve Varga (U. Iowa, USA)
	The Good, the Bad, and the Ugly Consequences of CD8 T cell Memory to RSV
12:15-12:25	Short Talk; Arunakumar Gangaplara
	O06 - Type I interferon signaling attenuates regulatory T cell function in viral infection and in the
	tumor microenvironment

12:25-12:35	Short Talk; Genevieve Pepin O07 - Gap-junction dependent trans-activation of human monocytes by CGAMP
12:45-1:45	INDUSTRY SPONSORED SYMPOSIUM with LUNCH Jochan Salfeld (Abbvie, USA): The anti-TNF success story and the new challenges ahead Jamie Orengo (Regeneron, USA): Dupilumab confirms the role of IL-4 and IL-13 as central drivers of type 2 immunity in human disease
2:00-4.00	Symposium 3: Inflammasomes, Interferons and beyond
2:00-2:25	President's Lecture; Nancy Reich (Stony Brook University, NY, USA)
	Pathogenic Effects of IFIT2 and IFN-β During Fatal Systemic C.albicans Infection
2:25-2:50	Igor Brodsky (UPenn, USA)
	Control of inflammatory gene expression by caspase-8
2:50-3:15	Clare Bryant (Cambridge, UK)
3 :15-3:40	Following the speck: pattern recognition receptors in bacterial infections. Feng Shao (Beijing, China)
3 .13-3.40	Pyroptosis: from innate immunity to cancer
3:40-3:50	Short Talk; Apurva Kanneganti
	O08 - GSDMD is critical for autoinflammatory pathology in a mouse model of familial Mediterranean fever
3:50-4:00	Short Talk; Virginie Deswaerte
	O09 - The AIM2 innate immune DNA sensor facilitates STAT3-driven gastric tumorigenesis
2:00-4.00	Symposium 4 (Parallel): Infection and Inflammation in the Lung
2:00-2:25	Clare Lloyd (Imperial College London, UK)
	Immune regulation in the allergic lung
2:25-2:50	John Silver (Medimmune, MD, USA)
2:50-3:15	IL-33 and ILCs Andrew McKenzie (MRC, UK)
2.50-5.15	IL-33 and ILC2 in the regulation of adaptive immunity and metabolism
3:15-3:40	Andreas Wack (Crick Institute, UK)
	Multifaceted roles of type I interferons in respiratory infections
3:40-3:50	Short Talk; Ran Wang
	O10 - Modulation of interleukin-22 alleviate respiratory viral infection by promoting epithelial
2.50.4.00	intrinsic type I interferon response
3:50-4:00	Short Talk; Mohamed I Saad
	O11 - ADAM17/IL-6 trans-signalling axis: a promising therapeutic target for lung adenocarcinoma
4:00-4:30	COFFEE BREAK
4:30-6.30	Symposium 5: Cytokines in Neuronal Inflammation
4:30-4:55	Burkhard Becher (U of Zurich, Switzerland)
	GM-CSF In Tissue Inflammation: Central Communication Conduit Between T Cells and Phagocytes In
4 55 5 30	Immunopathology
4:55-5:20	Douglas Golenbock (Umass Medical School, USA) The role of Interleukin-18 in Alzheimer's-related seizure disorder.
5:20-5:45	Glen Rall (Fox Chase Cancer Center, USA)
J.20 ⁻ J. 4 J	Atypical signaling pathways induced by interferon gamma following viral infection of neurons
5:45-6:10	Marco Colonna, (Washington University, USA)
-	TREM2 and regulation of neuronal inflammation.
6.10-6.20	Short Talk; Ignacio Moraga Gonzalez

	O12 - Decoupling IL-6 biological effects using protein engineering
6:20-6:30	Short Talk; Daniel Gough
	O13 - Demystifying the mechanism of mitochondrial STAT3 activity.
4:30-6.30	Symposium 6 (Parallel): Intestinal Homeostasis
4:30-4:55	Greg Sonnenberg (Weil Cornell, USA)
	Milstein Young Investigator Awardee
	Cytokine regulation of intestinal health
4:55-5:20	Ivan Zanoni (HMS, USA)
	Type III interferons control intestinal inflammation
5:20-5:45	Manuela Rafatellu (UCSD, USA)
	Evasion of IL-22-mediated antimicrobial responses by bacterial pathogens
5:45-6:10	Nicola Gagliani (Hamburg, Germany)
	Functional heterogeneity of IL-22 and IL-10 producing CD4 T cells
6.10-6.20	Short Talk; Constance McElrath
	O14 - Critical role of IFNS in gastro-intestinal injury repair
6:20-6:30	Short Talk; Chien-Hsiung Yu
	O15 - NLRP1 inflammasome exacerbates inflammatory bowel disease through IL-18 production and
	dysbiosis of butyrate producing commensal clostridiales
7:00-9:00	Awardee and Young Investigator Mixer (invitation only)
9:00-11:00	POSTER SESSION II

Day 3	Monday October 29 th
8.30-10:35	Plenary 2: Advances in Pathogenic Th17 axis of evil
8:30-9:05	KEYNOTE SPEAKER 2; Saah Gaffen (UPMC)
0.05 0.20	Oh To Be Seventeen Again: IL-17 signaling in fungal immunity and autoimmune disease
9:05-9:30	John O'Shea (NIAMS, USA) Cytokine instruction of gene expression: a genomic view
9:30-9:55	Diane Mathis (HMS, USA)
9.50 9.55	Crosstalk between tissue-Tregs and mesenchymal stromal cells.
9:55:-10:20	Gitta Stockinger (Francis Crick Institute, UK)
	Environmental influences on intestinal homeostasis
10:20-10:35	Short Talk; Munir Akkaya (NIH, MD)
	Milstein Young Investigator Awardee
	O16 - Type I interferons regulate B cell development and differentiation
10:35-11:00	COFFEE BREAK
11:00-12.35	Symposium 7: Type II Immunity
11:00-11:25	Judith Allen (U. Manchester, UK)
	Cytokine control of macrophage dynamics during helminth infection
11:25-11:50	De'broski Herbert (UPenn, USA)
11:50-12:15	Type 2 cytokine release from cDC2 critically regulates host protection and immunopathology Elia Tait Wojno (Cornell, USA)
11.30-12.13	Comparative Immunology to dissect immune responses during heminth infection and allergy
12:15-12:25	Short Talk; Jose Ordovas-Montanes
	O17 - Allergic inflammatory memory of type 2 cytokines in human respiratory epithelial progenito
	cells
12:25-12:35	Short Talk; Steven Van Dyken
	O18 - Tissue signals imprint ILC2 transcriptional identity and preemptive function
11:00-12.35	Symposium 8 (Parallel): Innate Cytokines and Cancer
11:00-11:25	Tadatsugu Tanguchi (U. Tokyo, Japan)
	HMGB1 and other DAMPs in cancer and other diseases; therapeutic implication
11:25-11:50	Andy Minn (UPenn, USA)
11:50-12:15	Dichotomous Functions of Pattern Recognition Receptor and Interferon Signaling in Cancer Brendan Jenkins (Hudson Institute, Australia)
11.30-12.13	Uncovering the pro-tumourigenic role of innate immune DNA sensors in cancer
12:15-12:25	Short Talk; Aleks Camille Guanizo
	O19 - STAT3 suppresses primary tumour growth, but increases metastasis in MYC-driven small cell
	lung cancer
12:25-12:35	Short Talk; Christopher S Garris
	O20 - Successful anti-PD-1 cancer immunotherapy requires T cell-dendritic cell crosstalk involving
	IFN- γ and IL-12
12:45-1:45	BIOTECH/VC PANEL (Atlas Ventures)
2:00-4.00	Symposium 9: Immunoregulation II
2:00-2:25	Christina Stallings (Washington University, USA)
	Regulating Cytokine Production and Inflammation to Control Tuberculosis
2:25-2:50	Mandy McGeechy, (U. Pittsburg Medical School, USA)
2.50 2.45	Energizing the troops: Th17 cell functions beyond classical inflammation
2:50-3:15	Carla Rothlin (Yale, USA)

	Death begets a new beginning
3:15-3:40	Henrique Veiga-Fernandez (Lisbon, Portugal)
	Neuronal regulation of innate lymphoid cells
3:40-3:50	Short Talk; Ka Yee Fung
	O21 - Interleukin-11 signaling induces a unique pathogenic CD4+ T helper-17 cell population
3:50-4:00	Short Talk; Javier Uceda
	O22 - The stromal tissue compartment as an orchestrator of IL-6-driven anti-microbial host defence
2:00-4.00	Symposium 10 (Parallel): Type III and other IFNs
2:00-2:25	Ram Savan (U. Washington, USA)
	Molecular pathways that bifurcate type I and III interferon responses
2:25-2:50	Paul Hertzog (Hudson Institute, Australia)
	Regulation of Mucosal immunity to infection and cancer by Interferon epsilon.
2:50-3:15	Caroline Coyne (U. Pittsburg Medical School, USA)
	Antiviral signaling at the maternal-fetal interface
3:15-3:40	Bryan Williams (Hudson Institute, Victoria, AU)
	Combining TLR agonists for cancer therapy
3:40-3:50	Short Talk; Emily A Hemann
	O23 - IFN-lambda facilitates protective T cell immunity by modulation of migratory dendritic cell
	function during influenza virus infection
3:50-4:00	Short Talk; Christina Cho
	O24 - Inactivation of type I interferon responses in the tumor microenvironment triggers the
	stromagenic switch and desmoplasia
4:00-4:30	COFFEE BREAK
4:30-6.10	Symposium 11: Cytokines and Cancer II
4:30-4:55	Xiaoxia Li (Cleveland Clinic, USA)
	IL-17 signaling in autoimmunity and cancer
4:55-5:20	
	Steve Ziegler (Benaroya Research Institute, USA)
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5:20-5:45	
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Day 4	Tuesday October 30 th
8.30-10:30	Symposium 13: Philip I. Marcus Symposium
8:30-8;55	Michael Gale (U. Washington, USA Immune programming by RIG-I-like receptors and cytokine crosstalk
8:55-9:20	Michaela Gack (U. Chicago, USA)
	Mechanisms of Innate Sensing and Signaling by RIG-I-like Receptors
9:20-9:45	Ganes Sen (Cleveland Clinic, USA)
	EGFR is needed for eliciting innate immune signaling by intracellular nucleic acid recognizing
9:45-10:10	receptors John Schoggins (UTSW, USA)
5.45 10.10	Inhibition of viral replication by interferon stimulated genes
10:10-10:20	Short Talk; Senad Divanovic
	O25 - Type I interferon sensing unlocks dormant adipocyte inflammatory potential
10:20-10:30	Short Talk; Shiuli Agarwal
	O26 - The long non-coding RNA LUCAT1 transcriptionally regulates type-I interferon responses
8.30-10:30	Symposium 14 (Parallel): Dermal Responses, Cytokines
8:30-8:55	John Harris (UMass Medical School, USA)
	Cytokines promote the localization and survival of autoreactive T cells in skin lesions of vitiligo
8:55-9:20	patients Brian Kim (Washington University, USA)
0.55 5.20	Neuroimmune Regulation of Skin Inflammation
9:20-9:45	Daniel Kastner (NIH, USA)
	To Ubiquitinate or Deubiquitinate, That is the Question
9:45-10:10	Jennifer Towne (Janssen Pharmaceuticals, USA)
10:10-10:20	Regulation and function of interleukin-36
10:10-10:20	Short Talk; Tom Brodnicki O27 - A long noncoding RNA attenuates dendritic cell cytokine production and decreases
	autoimmune disease susceptibility
10:20-10:30	Short Talk; Keitaro Fukuda
	O28 - AIM2-deficient dendritic cell vaccine facilitates adoptive T-cell therapy and anti-PD-1
	immunotherapy via the activation of sting-type I IFN signaling
10:30-11:00	COFFEE BREAK
11:00-12.45	Symposium 15 (Parallel): Inflammasome and IL1 Family members II
11:00-12:45	Vijay Rathinam (UConn, USA)
11.00 11.15	Milstein Young Investigator Awardee
	O29 - The Expanding Functions of Inflammasomes complexes
11:25-11:50	Jonathan Kagan (Childrens Hospital Boston, USA)
11.50 12.15	Regulation of Innate immune Signaling.
11:50-12:15	Cem Gabay (University of Geneva, Switzerland) IL18 and IL18BP in macrophage activation syndrome.
12:15-12:25	Short Talk; Rajendra Karki
	O30 - The NLRC4 inflammasome requires IRF8-dependent production of NAIPS
12:25-12:35	Short Talk; Sagi Shapira
	O31 - germ-cell specific inflammasome component NLRP14 negatively regulates cytosolic nucleic acid
	sensing to promote fertilization

11:00-12.45	Symposium 16 (Parallel) Infection and Immunity
11:00-11:25	Hiroki Yoshida (Saga University, Japan)
	Novel immune evasion strategy of P. gingivalis via inhibitory receptor, Siglec
11:25-11:50	Chris Hunter (UPenn, USA)
	IL-27 - still inhibiting after all these years
11:50-12:15	Katrin Mayer-Barber (NIAID, NIH)
	Innate Inflammatory Cytokines and effector cells in Host Resistance to Tuberculosis
12:15-12:25	Short Talk; Melanie M Brinkmann
	O32 - The multifaceted M152 protein selectively modulates sting-dependent signaling to enhance
	murine cytomegalovirus replication
12:25-12:35	Short Talk; Kate E Lawlor
	O33 - Activation of mitochondrial apoptotic signaling triggers NLRP3 inflammasome activation

12:45-1:45 TRAINEE WORKSHOPS (3 Parallel Sessions)

Session	Δ:	Can	cer
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12:55-1:00	Chair
1:00-1:10	Javier Mora
	O34 - IL-38 restricts anti-tumor immunity by limiting IL-17 production from gamma-delta T cells
	through IL1RAPL1
1:10-1:20	Ya-Shan Chen
	O35 - Significant reduction of tumor growth and metastasis by intratumor treatment of a SHRNA
	targeting IL-17RA in a murine B16F10 melanoma model
1:20-1:30	Ashish Dhir
	O36 - Mitochondrial double stranded RNA triggers antiviral signalling in human
1:30-1:40	Rumela Chakrabarti
	O37 - ELF5 regulated interferon signaling in triple negative breast cancer
1:40-1:50	Min-Kyung Choo CYT18-ABS-1301
	O38 - Myeloid P38 MAPK promotes tumorigenesis by suppressing cytotoxic T cell recruitment

Session B; Innate Immunity

12:55-1:00	Chair
1:00-1:10	Yunhao Tan
	O39 - A programmable signaling complex controls cell fate decisions upon toll-like receptor activation
1:10-1:20	Saurabh Chattopadhyay
	O40 - A new antiviral ISG TDRD7 inhibits cellular autophagy to control virus replication
1:20-1:30	Ashley Mansell
	O41 - New tricks for an old dog: non-canonical STAT3 mediates TLR4 mitochondrial reprogramming
	and inflammation
1:30-1:40	Helene Minyi Liu
	O42 - The moonlighting protein 14-3-3 ETA controls MDA5 activation and the MDA5-dependent
	antiviral innate immunity
1:40-1:50	David Hare
	O43 - Important differences in the IFN-I response to DNA and RNA virus particles

Session C; Cytokine Regulation 12:55-1:00 Chair

12:55-1:00	Chair
1:00-1:10	Jeongho Park
	O44 - IL-27P28 is an antagonist of B cell response during toxoplasmosis
1:10-1:20	Eirini Giannoudaki

D45 - IL-36 cytokines alter the composition of the intestinal microbiome to protect against obesity and metabolic dysfunction Chris D Slade
Ryoji Kawakami
O47 - Epigenetic landscape of FOXP3 enhancer sites during thymic FOXP3+ TREG development of
CNSO- and cNS3-deficient mice
Xingrong Du
O48 - HIPPO/MST signaling couples metabolic state and function of CD8A+ dendritic cells for cytotoxic T-cell priming
Symposium 17: T cell regulation in Cancer
Ananda Goldrath (UCSD, USA)
Transcriptional Regulation of T cell residency in tissues and tumors
drew Luster (HMS, USA)
Chemokines in cancer immunotherapy
Wenjun Ouyang (Amgen, USA)
Cytokine pathways on tumor infiltrating T cells revealed by single cell RNAseq
Short Talk; Tuoqi Wu
O49 - Cytokine and transcriptional regulation of stem cell-like CD8 T cells
Short Talk; Saikat Majumder O50 - IL-17 drives the bio-energetic activity of lymph node fibroblastic reticular cells to promote
expansion during TH17 cell activation
Symposium 18 (Parallel): Sponsored Symposium - Japanese Society for Interferon and Cytokine Research (JSICR)
Masato Kubo (Tokyo University of Science, Japan)
Th2 cytokines in allergic responses; from Th2 to ILC2
Masaaki Murakami (Hokkaido University, Japan)
Gateway Reflex, a new concept in Neuroimmunology coming from IL-6 discovery
Masato Tanaka (Tokyo University, Japan)
Resolution of inflammation and tissue repair by immunoregulatory monocytes
Akinori Takaoka (Hokkaido University, Japan)
Interferons and innate immunity
COFFEE BREAK
Plenary III: Tissue specific responses - Gut, Lung and Lymph nodes
Giorgio Trinceri (NCI, NIH, USA) Bill Paul Awardee
[Title]
Yasmine Belkaid (NIH, USA)
Control of tissue immunity and repair by the microbiota
KEYNOTE SPEAK 3. David Artis (Cornell, NY, USA)
Cytokine Regulation of Chronic Inflammation
CONFERENCE WRAP UP invitation to Cytokines 2019 in Vienna