Cytokines 2018

International Cytokine & Interferon Society ICIS

ICIS International Cytokine & Interferon Society

6TH ANNUAL MEETING OF THE INTERNATIONAL CYTOKINE & INTERFERON SOCIETY

27-30 October 2018
Westin Boston Waterfront, Boston, USA

FINAL PROGRAM

THE MILSTEIN AWARDS

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WELCOME MESSAGE

Dear Colleagues,

We would like to welcome you to the 6th Annual Meeting of the International Cytokine & Interferon Society (ICIS) in Boston.

The ICIS Annual Meetings have typically attracted more than 500 registrants and have a distinguished history of presenting cutting edge research from internationally-recognized scientists. The objective of the meeting is to promote interactions between scientists performing basic and translational studies on the molecular mechanisms of cytokine and interferon function, signal transduction, and gene expression in the context of health and disease. Working with our scientific advisory committee, a diverse scientific program has been prepared that is composed of outstanding trainees, junior and senior scientists that cover the breadth of cytokine biology.

The ICIS annual meeting has become the world's most important annual conference on basic, clinical and translational research on cytokines and their roles in host defense, inflammation, tissue repair and cancer.

The dissemination of knowledge that takes place at such meetings and the interactions and collaborations that are established are essential for future advances in biomedical research.

We believe this will be a fantastic meeting in a great city, with many networking opportunities and hope that you make the most of the opportunities it provides.

We wish you a successful meeting!

Christopher Hunter
Katherine Fitzgerald
Anne O'Garra

COMMITTEE MEMBERS

Meeting Chairs

Christopher Hunter (USA)
Katherine Fitzgerald (USA)
Anne O'Garra (UK)

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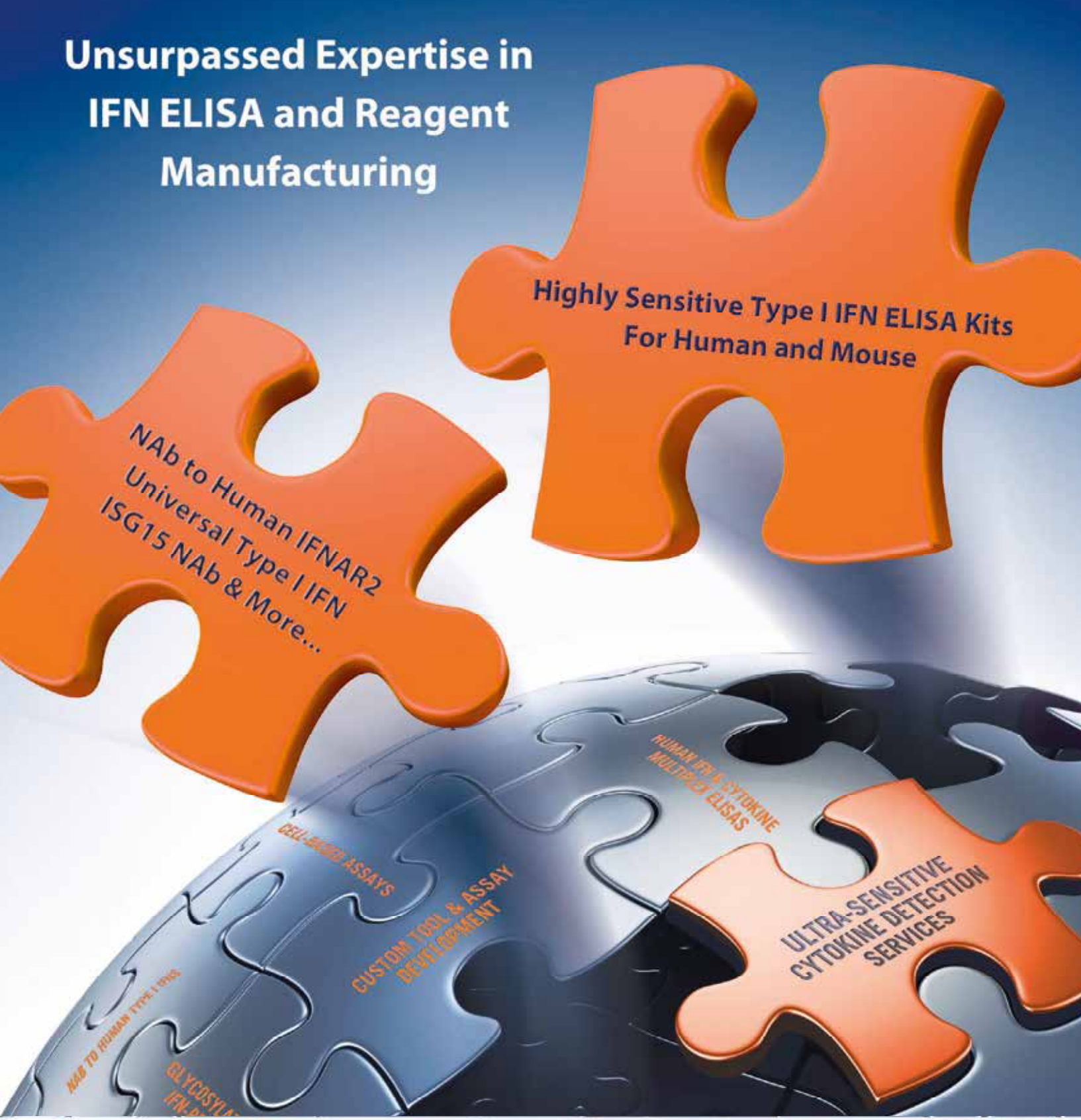

pbl
ASSAY
SCIENCE

PBL Assay Science, your trusted source for interferon ELISAs, proteins, antibodies, and assay services is proud to be a sponsor for the 6th Annual Meeting of the International Cytokine & Interferon Scoiety (ICIS)! As PBL's product lines expand to include additional cytokine targets, new technologies, and expanded assay services, our scope is broadening. We invite you to visit with our scientists (Booth 4/5) at the ICIS exhibition to see how we can address your challenging assay problems.

GENERAL INFORMATION

MEETING VENUE AND LOCATION

The Westin Boston Waterfront
425 Summer Street
Boston, MA, 02210
Phone: +1 (617) 532-4600

MEETING ORGANIZER

MCI Suisse SA has been selected by ICIS as the official meeting organizer to process registrations, abstract management, exhibition and sponsorship. All correspondence should be sent to:

Cytokines 2018
c/o MCI Suisse SA
9 Rue de Pré-Bouvier
1242 Satigny, Geneva, Switzerland
General contact: cytokines@mci-group.com

ICIS HEADQUARTERS

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www.cytokinesociety.org
E-mail: joefner@cytokinesociety.org

MEETING DOCUMENTS AND BADGES

Meeting documents should be collected on-site at the registration desk at the Westin Boston Waterfront - Grand Ballroom Foyer - Ground Level. Name badges must be worn visibly all times during the meeting and in the exhibition area.

MOBILE APPLICATION

Get all information you need at your fingertips with the Cytokines 2018 Mobile Application.
It is available for free on iOS and Android.

Android iOS

CELLULAR PHONES AND PAGERS

As a courtesy to all meeting attendees and speakers, cellular phones, pagers and other electronic devices must be operated in silent or vibration mode during sessions. No cellular phone conversations are permitted during sessions. Picture taking, filming or recording of the sessions is forbidden.

CERTIFICATE OF ATTENDANCE

A certificate of attendance will be sent by email after the meeting to all duly registered participants who attended the meeting.

FOOD AND BEVERAGE

Complimentary coffee, tea and snacks is served in the exhibition during official coffee breaks. Lunch will be provided to the attendees of the lunchtime sessions only. For other delegates, there are several restaurants within walking distance of the Westin Boston Waterfront building. Check out restaurants in the surroundings by scanning the QR code.

INTERNET

Free wireless internet access is available in the meeting spaces. WiFi Name: **Westin Conference**
Password: **Cytokines2018**

OFFICIAL LANGUAGE

The official meeting language is English. No simultaneous interpretation will be available.

SMOKING POLICY

The meeting venue is entirely non-smoking.

SURVEY/MEETING EVALUATION

We would be grateful if you can take a few minutes to answer an online survey that will be sent to you shortly after the meeting. Your valuable feedback will help us to improve the organization and quality of future Cytokines meetings.

REGISTRATION DESK OPENING HOURS

Saturday, 27 October	14:00 - 20:30
Sunday, 28 October	07:30 - 19:00
Monday, 29 October	08:00 - 19:00
Tuesday, 30 October	08:00 - 18:00

EXHIBITION OPENING HOURS

Saturday, 27 October	14:00 - 20:30
Sunday, 28 October	10:00 - 16:30
Monday, 29 October	10:00 - 16:30
Tuesday, 30 October	10:00 - 16:00

TRAVEL INSURANCE

It is recommended that participants obtain adequate cover for travel, health and accident insurance before they depart from their countries. Cytokines 2018 and MCI Suisse S.A. as organizers cannot accept responsibility for personal injuries, or loss of, or damage to, private property belonging to the delegates and accompanying persons.

WEBSITE

www.boston.cytokinesociety.org

NETWORKING EVENTS

Saturday, 27 October

19:30-20:30

Welcome Mixer

Grand Ballroom Foyer

Join your colleagues, meet new friends to celebrate a great start of the Cytokines 2018 meeting!

Saturday, 27 October

20:30-22:30

Poster session 1 & Light Reception

Pavilion & Grand Ballroom Foyer

Do not miss poster presentations of the selected abstracts.

Sunday, 28 October

20:30-22:30

Poster session 2 & Light Reception

Pavilion & Grand Ballroom Foyer

Join us for the 2nd round of poster presentations.

Monday, 29 October

19:00-23:00

Conference Dinner - Spirit of Boston Cruise

Cast off with new friends and long-time colleagues aboard the Spirit of Boston for a dinner cruise with a

great view of Boston harbor on Monday night, reserved exclusively for Cytokines 2018!

Enjoy breathtaking views, unlimited beverages, a delicious buffet dinner, music and dancing. The Metabollix live band led by Luke O'Neill will be our special guests for this memorable evening.

Please do not forget your Boston Spirit Ticket. Tickets must be purchased in advance and are on a space available basis. Further information at the registration counter.

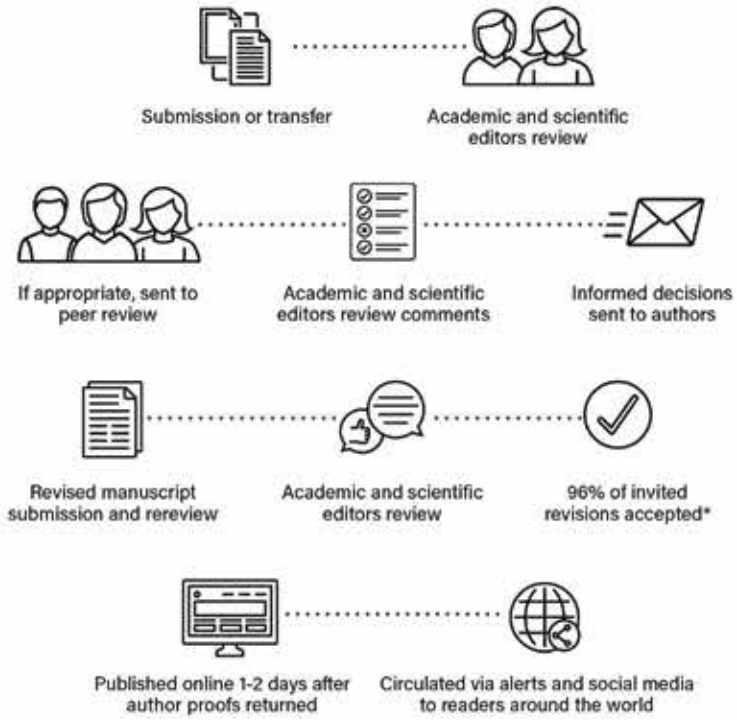
Schedule of the evening:

19:00-20:00	Boarding at WTC Harbor, Beer & Wine Open Bar Reception, Music at Dockside
20:00-22:00	Cruise, Dinner, Beer & Wine Open Bar, Live Music
22:00-23:00	Dockside at the WTC Harbor, Beer & Wine Open Bar, Music at Dockside (disembarking from the ship is possible beginning at 22:00)

WHY SUBMIT TO JEM?

AN EDITORIAL PROCESS GUIDED BY YOUR COMMUNITY

At *Journal of Experimental Medicine*, all editorial decisions on research manuscripts are made through collaborative consultation between professional scientific editors and the academic editorial board.



96% OF INVITED REVISIONS ARE ACCEPTED.

INITIAL DECISION IN 5 DAYS

TIME IN PEER REVIEW 35 DAYS

*Median 2017

Format Neutral
You may submit your papers in ANY format.

Transfer Policy
We welcome submissions that include reviewer comments from another journal. You may also request manuscript transfer between Rockefeller University Press journals, and we can confidentially send reviewer reports and identities to another journal beyond RUP.

Fair and Fast
We limit rounds of revision, and we strive to provide clear, detailed decisions that illustrate what is expected in the revisions. Articles appear online one to two days after author proofs are returned.

Open Access Options
Our options include Immediate Open Access (CC-BY) and open access six months after publication (CC-BY-NC-SA).

PROGRAM OVERVIEW

Saturday, 27 October 2018

GRAND BALLROOM AB	
17:00 – 19:30	Opening Ceremony President's Lecture Awards Ceremony Keynote Lecture
GRAND BALLROOM FOYER	
19:30 – 20:30	Welcome Mixer
PAVILION & GRAND BALLROOM FOYER	
20:30 – 22:30	POSTER SESSION I with Wine, Beer and Snacks

Sunday, 28 October 2018

GRAND BALLROOM AB		
08:30 – 10:30	Plenary Session 1 Immunoregulation	
GRAND BALLROOM FOYER		
10:30 – 11:00	Coffee Break & Visit of the Exhibition	
	GRAND BALLROOM A	**GRAND BALLROOM B**
11:00 – 12:35	Symposium 1 Innate Sensing & Signaling	Symposium 2 Antiviral Responses
12:35 – 14:00	Lunch break - On own	
GRAND BALLROOM B		
12:45 – 13:45	LUNCH SYMPOSIUM TARGETED CYTOKINE THERAPY	
	GRAND BALLROOM A	**GRAND BALLROOM B**
14:00 – 16:00	Symposium 3 Inflammasomes, Interferons and Beyond	Symposium 4 Infection and Inflammation in the Lung
GRAND BALLROOM FOYER		
16:00 – 16:30	Coffee Break & Visit of the Exhibition	
	GRAND BALLROOM A	**GRAND BALLROOM B**
16:30 – 18:30	Symposium 5 Cytokines in Neuronal Inflammation	Symposium 6 Intestinal Homeostasis
18:30 – 20:30	Dinner break - On own	
PAVILION & GRAND BALLROOM FOYER		
20:30 – 22:30	POSTER SESSION II with Wine, Beer and Snacks	

Monday, 29 October 2018

	GRAND BALLROOM AB	
07:45 – 08:30	ICIS Members Business Meeting / Milstein Travel Awards	
08:30 – 10:35	Plenary Session 2 Advances in Pathogenic Th17 Axis of Evil	
	GRAND BALLROOM FOYER	
10:35 – 11:00	Coffee Break & Visit of the Exhibition	
	GRAND BALLROOM A	**GRAND BALLROOM B**
11:00 – 12:35	Symposium 7 Type II Immunity	Symposium 8 Innate Cytokines and Cancer
12:35 – 14:00	Lunch break - On own	
	GRAND BALLROOM A	**GRAND BALLROOM B**
12:45 – 13:45	Biotech/Venture Capital Panel Discussion	Meet the Editors
	GRAND BALLROOM A	**GRAND BALLROOM B**
14:00 – 16:00	Symposium 9 Immunoregulation II	Symposium 10 Type III and other IFNs
	GRAND BALLROOM FOYER	
16:00 – 16:30	Coffee Break & Visit of the Exhibition	
	GRAND BALLROOM A	**GRAND BALLROOM B**
16:30 – 18:10	Symposium 11 Cytokines and Cancer II	Symposium 12 Type I IFNs in Disease
19:00 – 23:00	CONFERENCE DINNER – SPIRIT OF BOSTON CRUISE	

Tuesday, 30 October 2018

	GRAND BALLROOM A		GRAND BALLROOM B
08:30 – 10:30	Symposium 13 Philip I. Marcus Symposium		Symposium 14 Dermal Responses, Cytokines
	GRAND BALLROOM FOYER		
10:30 – 11:00	Coffee Break & Visit of the Exhibition		
	GRAND BALLROOM A		**GRAND BALLROOM B**
11:00 – 12:35	Symposium 15 Inflammasome and IL1 Family members II		Symposium 16 Infection and Immunity
12:35 – 14:00	Lunch break - On own		
	GRAND BALLROOM A	**GRAND BALLROOM B**	**GRAND BALLROOM C**
12:55 – 13:50	Trainee workshop A: CANCER	Trainee workshop B: INNATE IMMUNITY	Trainee workshop B: CYTOKINE REGULATION
	GRAND BALLROOM A		**GRAND BALLROOM B**
14:00 – 15:40	Symposium 17 T cell regulation in Cancer		Symposium 18 Cytokines: Beyond the Age of Discovery
	GRAND BALLROOM FOYER		
15:40 – 15:55	Coffee Break & Visit of the Exhibition		
	GRAND BALLROOM A		
15:55 – 17:25	Plenary Session 3 Tissue specific responses - Gut, Lung and Lymph nodes		
17:25 – 17:30	CONFERENCE WRAP UP – Invitation to Cytokines 2019 in Vienna		

SCIENTIFIC PROGRAM

Saturday, 27 October 2018

17:00 – 19:25	OPENING CEREMONY	Grand Ballroom AB
17:00 – 17:05	**Welcome and Opening Remarks** *Chris Hunter (for the organizers)*	
17:05 – 18:45	**Awards Ceremony – Presentations and Milstein Award Lectures** *Chair: Nancy Reich*	
17:05 – 17:15	**Milstein Awardees Introduction** *Nancy Reich*	
17:15 – 17:50	**MILSTEIN AWARDEE LECTURE I:** Krebs Cycle drives signals for inflammation *Luke O'Neill (Trinity College Dublin, Ireland)*	
17:50 – 18:25	**MILSTEIN AWARDEE LECTURE II:** Regulation of inflammasome activation and cell death *Thirumala Kanneganti (St. Judes, USA)*	
18:25 – 18:45	**AWARDEES CEREMONY** *Chairs: Bryan Williams and Kate Fitzgerald*	
	ICIS Honorary Lifetime Member Awardee: *Robert Fleischmann (Central Michigan University College of Medicine, USA)*	
	ICIS BioLegend William E. Paul Awardee: *Giorgio Trinchieri (NCI, NIH, USA)*	
	ICIS Distinguished Service Awardee: *Tadamitsu Kishimoto (Osaka University, Japan)*	
	Milstein Young Investigator Awardees: *Cristina Bergamaschi (NIH,DC)* *Ricardo Rajsbaum (UTMB, TX)* *Vijay Rathinam (UConn, CT)* *Gregory Sonnenberg (Weill Cornell, NY, USA)* *Munir Akkaya (NIH, USA)*	
	Christina Fleischmann Awardee: *Sophia Davidson (WEHI, Australia) - presented by Robert Fleischmann*	
	Sidney & Joan Pestka Graduate Awardee: *Erika Engelowski (Heinrich-Heine-University, Germany) - Presented by Rob Pestka*	
	Sidney & Joan Pestka Post Graduate Awardee: *Christoph Schneider (UCSF, USA) - Presented by Rob Pestka*	
18:45 – 19:25	**Keynote Lecture 1 - The Diverse Functions of the PD-1 Pathway** *Arlene Sharpe (Harvard Medical School, USA)*	
19:30 – 20:30	**WELCOME MIXER** *Sponsored by Pfizer*	**Grand Ballroom Foyer**
20:30 – 22:30	**POSTER SESSION I with Wine, Beer and Snacks**	**Pavilion & Grand Ballroom Foyer**

Sunday, 28 October 2018

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

* Sponsored sessions are organized by the scientific committee and the industry sponsor provides support without influence on topic, content or speakers.

12:15 – 12:25	O06 - Type I interferon signaling attenuates regulatory T cell function in viral infection and in the tumor microenvironment - *Arunakumar Gangaplara (NIAID, USA)*
12:25 – 12:35	O07 - Gap-junction dependent trans-activation of human monocytes by CGAMP - *Genevieve Pepin (Hudson Institute, Australia)*

12:35 – 14:00	**LUNCH BREAK - ON OWN**	
12:45 – 13:45	**LUNCH SYMPOSIUM: TARGETED CYTOKINES THERAPY**	**Grand Ballroom B**
	Chair: Simon Jones	
12:45-13:15	The anti-TNF success story and the new challenges ahead - Jochen Salfeld (Abbvie, USA)	
13:15-13:45	Dupilumab confirms the role of IL-4 and IL-13 as central drivers of type 2 immunity in human disease - *Jamie Orengo (Regeneron, USA)*	
	Lunch provided to session attendees only	
14:00 – 16:00	**SYMPOSIUM 3: INFLAMMASOMES, INTERFERONS AND BEYOND** *Sponsored by Sanofi**	**Grand Ballroom A**
SANOFI	*Chairs: Clare Bryant and Igor Brodsky*	
14:00 – 14:25	Pathogenic effects of IFIT2 and IFN-β during fatal systemic C.albicans infection - *Nancy Reich (Stony Brook University, NY, USA)*	
14:25 – 14:50	It's in the CARDs - understanding the distinction between pyroptosis and hyper activation - *Igor Brodsky (UPenn, USA)*	
14:50 – 15:15	Following the speck: pattern recognition receptors in bacterial infections - *Clare Bryant (Cambridge, UK)*	
15:15 – 15:40	Pyroptosis: from innate immunity to cancer - *Feng Shao (Beijing, China)*	
15:40 – 15:50	O08 - GSDMD is critical for autoinflammatory pathology in a mouse model of familial Mediterranean fever - *Apurva Kanneganti (Harvard College, USA)*	
15:50 – 16:00	O09 - The AIM2 innate immune DNA sensor facilitates STAT3-driven gastric tumorigenesis - *Virginie Deswaerte (Hudson Institute, Australia)*	
14:00 – 16:00	**SYMPOSIUM 4: INFECTION AND INFLAMMATION IN THE LUNG** *Sponsored by Regeneron**	**Grand Ballroom B**
REGENERON SCIENCE TO MEDICINE	*Chairs: Andrew McKenzie and Clare Lloyd*	
14:00 – 14:25	Immune regulation in the allergic lung - Clare Lloyd (Imperial College London, UK)	
14:25 – 14:50	IL-33 and ILCs - *John Silver (Medimmune, MD, USA)*	
14:50 – 15:15	IL-33 and ILC2 in the regulation of adaptive immunity and metabolism - *Andrew McKenzie (MRC, UK)*	
15:15 – 15:40	Multifaceted roles of type I interferons in respiratory infections - *Andreas Wack (Crick Institute, UK)*	
15:40 – 15:50	O10 - Modulation of interleukin-22 alleviate respiratory viral infection by promoting epithelial intrinsic type I interferon response - *Ran Wang (The University of Queensland, Australia)*	
15:50 – 16:00	O11 - ADAM17/IL-6 trans-signalling axis: a promising therapeutic target for lung adenocarcinoma - *Mohamed I Saad (Hudson Institute, Australia)*	

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16:00 – 16:30	**COFFEE BREAK & VISIT OF THE EXHIBITION**	**Grand Ballroom Foyer**
16:30 – 18:30	**SYMPOSIUM 5: CYTOKINES IN NEURONAL INFLAMMATION** *Sponsored by Biogen**	**Grand Ballroom A**

Chairs: Douglas Golenbock and Burkhard Becher

16:30 – 16:55	GM-CSF in tissue inflammation: Central communication conduit between T cells and phagocytes in immunopathology - *Burkhard Becher (University of Zurich, Switzerland)*
16:55 – 17:20	The role of Interleukin-18 in Alzheimer's-related seizure disorder - *Douglas Golenbock (Umass Medical School, USA)*
17:20 – 17:45	Atypical signaling pathways induced by interferon gamma following viral infection of neurons - *Glenn Rall (Fox Chase Cancer Center, USA)*
17:45 – 18:10	TREM2 and regulation of neuronal inflammation - *Marco Colonna, (Washington University, USA)*
18:10 – 18:20	O12 - Decoupling IL-6 biological effects using protein engineering - *Ignacio Moraga Gonzalez (University Of Dundee, UK)*
18:20 – 18:30	O13 - Demystifying the mechanism of mitochondrial STAT3 activity - *Daniel Gough (Hudson Institute, Australia*

16:30 – 18:30	**SYMPOSIUM 6: INTESTINAL HOMEOSTASIS** *Sponsored by Eli Lilly and Company**	**Grand Ballroom B**

Chairs: Greg Sonnenberg and Manuela Raffatellu

16:30 – 16:55	Cytokine regulation of intestinal health - *Greg Sonnenberg (Weil Cornell, USA)*
16:55 – 17:20	Type III interferons control intestinal inflammation - *Ivan Zanoni (HMS, USA)*
17:20 – 17:45	Evasion of IL-22-mediated antimicrobial responses by bacterial pathogens - *Manuela Raffatellu (UCSD, USA)*
17:45 – 18:10	Functional heterogeneity of IL-22 and IL-10 producing CD4 T cells - *Nicola Gagliani (Hamburg, Germany)*
18:10 – 18:20	O14 - Critical role of IFNS in gastro-intestinal injury repair - *Constance McElrath (Rutgers University, USA)*
18:20 – 18:30	O15 - NLRP1 inflammasome exacerbates inflammatory bowel disease through IL-18 production and dysbiosis of butyrate producing commensal clostridiales - *Chien-Hsiung Yu (Walter and Eliza Hall Institute, Australia)*

18:30 – 20:30	**DINNER BREAK - ON OWN**	
20:30 – 22:30	**POSTER SESSION II with Wine, Beer and Snacks**	**Pavilion & Grand Ballroom Foyer**

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Monday, 29 October 2018

08:30 – 10:35	**PLENARY 2: ADVANCES IN PATHOGENIC TH17 AXIS OF EVIL** *Sponsored by Janssen Pharmaceuticals**	**Grand Ballroom AB**
	Chairs: John O'Shea and Sarah Gaffen	
08:30 – 09:05	Keynote Lecture 2: Oh to be seventeen again: IL-17 signaling in fungal immunity and autoimmune disease - *Sarah Gaffen (UPMC)*	
09:05 – 09:30	Cytokine instruction of gene expression: a genomic view - *John O'Shea (NIAMS, USA)*	
09:30 – 09:55	Crosstalk between tissue-Tregs and mesenchymal stromal cells - *Diane Mathis (HMS, USA)*	
09:55 – 10:20	Environmental influences on intestinal homeostasis - *Brigitta Stockinger (Francis Crick Institute, UK)*	
10:20 – 10:35	O16 - Type I interferons regulate B cell development and differentiation - *Munir Akkaya (NIH, MD)*	
10:35 – 11:00	**COFFEE BREAK & VISIT OF THE EXHIBITION**	**Grand Ballroom Foyer**
11:00 – 12:35	**SYMPOSIUM 7: TYPE II IMMUNITY**	**Grand Ballroom A**
	Chairs: Judith Allen and De'broski Herbert	
11:00 – 11:25	Cytokine control of macrophage dynamics during helminth infection - *Judith Allen (U. Manchester, UK)*	
11:25 – 11:50	Type 2 cytokine release from cDC2 critically regulates host protection and immunopathology - *De'broski Herbert (UPenn, USA)*	
11:50 – 12:15	Comparative immunology to dissect immune responses during heminth infection and allergy - *Elia Tait Wojno (Cornell, USA)*	
12:15 – 12:25	O17 - Allergic inflammatory memory of type 2 cytokines in human respiratory epithelial progenitor cells - *Jose Ordovas-Montanes (Mit/Broad Institute/Ragon Institute, USA)*	
12:25 – 12:35	O18 - Tissue signals imprint ILC2 transcriptional identity and preemptive function - *Steven Van Dyken (Washington University School of Medicine, USA)*	
11:00 – 12:35	**SYMPOSIUM 8: INNATE CYTOKINES AND CANCER** *Sponsored by BioLegend**	**Grand Ballroom B**
	Chairs: Brendan Jenkins and Andy Minn	
11:00 – 11:25	HMGB1 and other DAMPs in cancer and other diseases; therapeutic implication - *Hideyuki Yanai (U. Tokyo, Japan)*	
11:25 – 11:50	Dichotomous functions of pattern recognition receptor and interferon signaling in cancer - *Andy Minn (UPenn, USA)*	
11:50 – 12:15	Uncovering the pro-tumourigenic role of innate immune DNA sensors in cancer - *Brendan Jenkins (Hudson Institute, Australia)*	
12:15 – 12:25	O19 - STAT3 suppresses primary tumour growth, but increases metastasis in MYC-driven small cell lung cancer - *Aleks Camille Guanizo (Hudson Institute, Australia)*	
12:25 – 12:35	O20 - Successful anti-PD-1 cancer immunotherapy requires T cell-dendritic cell crosstalk involving IFN-y and IL-12 - *Christopher S Garris (Massachusetts General Hospital - Harvard Medical School, USA)*	

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12:35 – 14:00	**LUNCH BREAK - ON OWN**	
12:45 – 13:45	**BIOTECH/VENTURE CAPITAL PANEL DISCUSSION**	**Grand Ballroom A**

Chair: Luke O'Neil

David Grayzel (Atlas Ventures), Samantha Truex (CEO of Quench), Ben Auspitz (Five Prime Capital Partners)

Lunch provided to session attendees only

12:45 - 13:45	**MEET THE EDITORS**	**Grand Ballroom B**

Chair: Sri Devi Narasimhan

Sri Devi Narasimhan (Cell Press), Seth Scanlon (AAAS Science International, Inc.), Kavitha Scranton (Immunity), Teodoro Pulvirenti (Journal Experimental Medicine), Laurie Dempsey (Nature Immunology)

Lunch provided to session attendees only

14:00 – 16:00	**SYMPOSIUM 9: IMMUNOREGULATION II**	**Grand Ballroom A**

Chairs: Carla Rothlin and Mandy McGeachy

14:00 – 14:25	Regulating cytokine production and inflammation to control tuberculosis - *Christina Stallings (Washington University, USA)*
14:25 – 14:50	Energizing the troops: Th17 cell functions beyond classical inflammation - *Mandy McGeachy (U. Pittsburg Medical School, USA)*
14:50 – 15:15	Death begets a new beginning - *Carla Rothlin (Yale, USA)*
15:15 – 15:40	Neuronal regulation of innate lymphoid cells - *Henrique Veiga-Fernandes (Instituto de Medicina Molecular, Portugal)*
15:40 – 15:50	O21 - Interleukin-11 signaling induces a unique pathogenic CD4+ T helper-17 cell population - *Ka Yee Fung (Walter and Eliza Hall Institute, Australia)*
15:50 – 16:00	O22 - The stromal tissue compartment as an orchestrator of IL-6-driven anti-microbial host defence - *Javier Uceda (Cardiff University, UK)*

14:00 – 16:00	**SYMPOSIUM 10: TYPE III AND OTHER IFNS**	**Grand Ballroom B**

Chairs: Paul Hertzog and Carolyn Coyne

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)*	
16:00 – 16:30	**COFFEE BREAK & VISIT OF THE EXHIBITION**	**Grand Ballroom Foyer**
16:30 – 18:10	**SYMPOSIUM 11: CYTOKINES AND CANCER II**	**Grand Ballroom A**
	Chairs: Steve Ziegler and Xiaoxia Li	
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)*	
16:30 – 18:10	**SYMPOSIUM 12: TYPE I IFNS IN DISEASE** *Sponsored by Boehringer Ingelheim**	**Grand Ballroom B**
	Chairs: Daniel Stetson and Yanick Crow	
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)*	
19:00 – 23:00	**CONFERENCE DINNER – SPIRIT OF BOSTON CRUISE** *Sponsored by Janssen Pharmaceuticals*	

Tuesday, 30 October 2018

08:30 – 10:30	**SYMPOSIUM 13: PHILIP I. MARCUS SYMPOSIUM** *Sponsored by Mary Ann Liebert, Inc.**	**Grand Ballroom A**
	Chairs: Ganes Sen and Michael Gale	
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 - *Senad Divanovic (Cincinnati Children's Hospital Medical Center, USA)*	
10:20 – 10:30	O26 - The long non-coding RNA LUCAT1 transcriptionally regulates type-I interferon responses - *Shiuli Agarwal (University of Massachusetts, USA)*	

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08:30 – 10:30	**SYMPOSIUM 14: DERMAL RESPONSES, CYTOKINES** *Sponsored by PBL Assay Science**	**Grand Ballroom B**

Chairs: John Harris and Jennifer Towne

08:30 – 08:55 Cytokines promote the localization and survival of autoreactive T cells in skin lesions of vitiligo patients - *John Harris (UMass Medical School, USA)*

08:55 – 09:20 Neuroimmune regulation of skin inflammation - *Brian Kim (Washington University, USA)*

09:20 – 09:45 To ubiquitinate or deubiquitinate, that is the question - *Daniel Kastner (NIH, USA)*

09:45 – 10:10 Regulation and function of interleukin-36 - *Jennifer Towne (Janssen Pharmaceuticals, USA)*

10:10 – 10:20 O27 - A long noncoding RNA attenuates dendritic cell cytokine production and decreases autoimmune disease susceptibility - *Tom Brodnicki (St Vincent's Institute, Australia)*

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 - *Keitaro Fukuda (University Of Massachusetts Medical School, USA)*

10:30 – 11:00	**COFFEE BREAK & VISIT OF THE EXHIBITION**	**Grand Ballroom Foyer**

11:00 – 12:35	**SYMPOSIUM 15: INFLAMMASOME AND IL1 FAMILY MEMBERS II** *Sponsored by Surface Oncology**	**Grand Ballroom A**

Chairs: Jonathan Kagan and Cem Gabay

11:00 – 11:25 O29 - The expanding functions of inflammasomes complexes - *Vijay Rathinam (UConn, USA)*

11:25 – 11:50 Regulation of innate immune signaling - *Jonathan Kagan (Childrens Hospital Boston, USA)*

11:50 – 12:15 IL18 and IL18BP in macrophage activation syndrome - *Cem Gabay (University of Geneva, Switzerland)*

12:15 – 12:25 O30 - The NLRC4 inflammasome requires IRF8-dependent production of NAIPS - *Rajendra Karki (St. Jude Children's Research Hospital, USA)*

12:25 – 12:35 O31 - Germ-cell specific inflammasome component NLRP14 negatively regulates cytosolic nucleic acid sensing to promote fertilization - *Sagi Shapira (Columbia University,USA)*

11:00 – 12:35	**SYMPOSIUM 16: INFECTION AND IMMUNITY** *Sponsored by AAAS**	**Grand Ballroom B**

Chairs: Hiroki Yoshida and Katrin Mayer-Barber

11:00 – 11:25 Novel immune evasion strategy of P. gingivalis via inhibitory receptor, siglec - Hiroki Yoshida *(Saga University, Japan)*

11:25 – 11:50 IL-27 - Still inhibiting after all these years - *Chris Hunter (UPenn, USA)*

11:50 – 12:15 Innate inflammatory cytokines and effector cells in host resistance to tuberculosis - *Katrin Mayer-Barber (NIAID, NIH)*

12:15 – 12:25 O32 - The multifaceted M152 protein selectively modulates sting-dependent signaling to enhance murine cytomegalovirus replication - *Melanie M Brinkmann (Helmholtz Centre For Infection Research, Germany)*

12:25 – 12:35 O33 - Activation of mitochondrial apoptotic signaling triggers NLRP3 inflammasome activation - *Kate E Lawlor (Hudson Institute, Australia)*

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12:35 – 14:00	**LUNCH BREAK - ON OWN**
12:55 – 13:50	**TRAINEE WORKSHOPS – 3 Parallel Sessions**
	Lunch provided to session attendees only

	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, Japan)*	

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)*

14:00 – 15:35	**SYMPOSIUM 17: T CELL REGULATION IN CANCER**	**Grand Ballroom A**
	Chairs: Ananda Goldrath and Wenjun Ouyang	
14:00 – 14:25	Transcriptional regulation of T cell residency in tissues and tumors - *Ananda Goldrath (UCSD, USA)*	
14:25 – 14:50	Chemokines in cancer immunotherapy - *Andrew Luster (HMS, USA)*	
14:50 – 15:15	Cytokine pathways on tumor infiltrating T cells revealed by single cell RNAseq - *Wenjun Ouyang (Amgen, USA)*	
15:15 – 15:25	O49 - Cytokine and transcriptional regulation of stem cell-like CD8 T cells - *Tuoqi Wu (NIH, USA)*	
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 - *Saikat Majumder (University of Pittsburgh, USA)*	

14:00 – 15:40	**SYMPOSIUM 18: CYTOKINES: BEYOND THE AGE OF DISCOVERY** *Sponsored and organized by Japanese Society for Interferon and Cytokine Research (JSICR)**	**Grand Ballroom B**
	Chairs: Akinori Takaoka and Chris Hunter	
14:00 – 14:25	Th2 cytokines in allergic responses; from Th2 to ILC2 - *Masato Kubo (Tokyo University of Science, Japan)*	
14:25 – 14:50	Gateway reflex, a new concept in Neuroimmunology coming from IL-6 discovery - *Daisuke Kamimura (Hokkaido University, Japan)*	
14:50 – 15:15	Resolution of inflammation and tissue repair by immunoregulatory monocytes - *Masato Tanaka (Tokyo University, Japan)*	
15:15 – 15:40	Interferons and innate immunity - *Akinori Takaoka (Hokkaido University, Japan)*	

15:40 – 15:55	**COFFEE BREAK & VISIT OF THE EXHIBITION**	**Grand Ballroom Foyer**

15:55 – 17:25	**PLENARY 3: TISSUE SPECIFIC RESPONSES - GUT, LUNG AND LYMPH NODES** *Sponsored by The Kenneth Rainin Foundation**	**Grand Ballroom A**
	Chair: Eleanor Fish	
15:55 – 16:25	ICIS BioLegend William E. Paul Awardee Lecture From cytokines to bugs - *Giorgio Trinchieri (NCI, NIH, USA) Bill Paul Awardee*	
16:25 – 16:50	Control of tissue immunity and repair by the microbiota - *Yasmine Belkaid (NIH, USA)*	
16:50 – 15:25	Keynote Lecture 3 Cytokine regulation of chronic inflammation - *David Artis (Cornell, NY, USA)*	

17:25 – 17:30	**CONFERENCE WRAP UP – Invitation to Cytokines 2019 in Vienna**	**Grand Ballroom A**

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POSTER SESSIONS

Poster session 1 - Saturday, 27 October 2018

Anti-cytokine therapy

P001 RUXOLITINIB SUPPRESSES INNATE AND ADAPTIVE IMMUNE ACTIVATION IN HEMOPHAGOCYTIC LYMPHOHISTIOCYTOSIS THROUGH BOTH INTERFERON-GAMMA DEPENDENT AND INDEPENDENT MECHANISMS / S. Albeituni* - K. Verbist - P. E. Tedrick - H. Tillman - K. E. Nichols

P002 TRANSCRIPTIONAL PROFILES OF SYNOVIAL BIOPSIES PREDICT THERAPEUTIC RESPONSE TO BIOLOGICS IN RHEUMATOID ARTHRITIS / B. Cossins* - R. Andrews - J. Twohig - N. Williams - G. Jones - S. Jones

P003 THERAPEUTIC TARGETING OF THE LATENT TRANSCRIPTION FACTOR STAT3 IN INFLAMMATORY ARTHRITIS / A. Derrac Soria* - X. Liu - B. Cossins - R. Andrews - B. Szomolay - H. Yu - M. Kortylewski - G. W. Jones - S. A. Jones

P004 PREDICTING TNFALPHA INHIBITOR TREATMENT RESPONSE USING CYTOKINES IN PATIENTS WITH RHEUMATOID ARTHRITIS / M. N. Lassere* - J. Gu - S. Baker

P005 CCL17 BLOCKADE AS A THERAPY FOR OSTEOARTHRITIS PAIN AND DISEASE / M.-C. Lee* - R. Salem - A. Achuthan - A. Fleetwood - J. Hamilton - A. Cook

P006 BARICITINIB INHIBITS B CELL ACTIVATION AND AMELIORATES MURINE LUPUS / J. Lee* - S. Jang - S.-M. Hong - S. Baek - S.-H. Park - S. Kwok

P007 IDENTIFICATION AND CHARACTERIZATION OF A NOVEL MULTI-STAT INHIBITORY COMPOUND C01L_F03 WITH ANTI-ATHEROSCLEROTIC POTENTIAL / M. Plens-Galaska* - M. Szelag - A. Collado - P. Marques - S. Vallejo - M. Ramos-González - J. Wesoly - M. Jesus Sanz - C. Peiró - H. Bluyssen

P008 TOWARDS THE STRUCTURE OF INTERLEUKIN-27, MEMBER OF THE IL-12 FAMILY / K. Skladanowska* - Y. Bloch - S. Savvides

P008.A A BISPECIFIC ANTIBODY STRATEGY TO TARGET MULTIPLE TYPE 2 CYTOKINES IN ASTHMA / M. Godar* - K. Deswarte - K. Vergote - M. Saunders - H. De Haard - H. Hammad - C. Blanchetot - B. N. Lambrecht

P008.B DIRECT INHIBITION OF IL-17A WITH SMALL MOLECULE COMPOUNDS / S. Nielsen* - J. Andersson - M. Bengtsson - S. Cowland - T. Franch - S. Glad - A. Gouliaev - L. Moretti - N. Nørager - S. Rast - G. Smith - L. Stasi

P008.C A COMPARISON OF THE ANTI-INFLAMMATORY EFFECTS OF COMBINED STATIN AND ANTIPLATELET THERAPIES ON TNF-MEDIATED ACUTE INFLAMMATION IN VIVO / O. Cho* - K.-Y. Park - Y.-J. Jang - H.-S. Kim - T.-H. Heo

Autoinflammation and autoimmunity

P009 GASTROINTESTINAL HELMINTH INFECTION IMPROVED INSULIN SENSETIVITY AND DECREASED SYSTEMIC INFLAMMATION IN A MOUSE MODEL OF T2D / Z. Agha* - R. Alhallaf - L. Jones - R. Eichenberger - M. Field - J. Sotillo - A. Loukas on behalf of Zainabagha

P010 MULTI-OMICS ANALYSIS REVEALS THE INTEGRATIVE ROLE OF IFNG ON THE MICROBIOME, LIPID METABOLISM, AND AUTOIMMUNITY IN A MURINE AUTOIMMUNE DISEASE MODEL / H. R. Bae* - D. L. Hodge - S.-M. Jeon - J. C. Valencia - J. M. Fenimore - A. Dzutsev - G. Trinchieri - H. A. Young

P011 GENOMIC DISRUPTION OF INTERFERON RECEPTORS IN NOD MICE RESULTS IN AUTOIMMUNE DIABETES WITH LOSS OF ADAPTIVE TOLERANCE / T. Brodnicki* - S. Akazawa - B. Krishnamurthy - G. Jhala - L. Mackin - S. Fynch - L. Hawkey - I. Smyth - P. Trivedi - K. Graham - T. Kay - H. Thomas

P012 AN OCULAR SURFACE COMMENSAL AS A POSSIBLE PATHOBIONT IN AUTOINFLAMMATORY DISEASE / A. J. St. Leger - K. Raychaudhuri - F. Almaghrabi - I. J. Fuss - W. Strober - R. T. Goldbach-Mansky - R. J. Bishop - C. Okeagu - M. J. Mattapallil - R. R. Caspi*

P013 NON-REDUNDANT REQUIREMENT FOR CXCR3 SIGNALING FOR EFFECTIVE TREATMENT OF CNS AUTOIMMUNE EYE DISEASE WITH TYPE I INTERFERON / J. Chen* - W. Wang - H. Zhou - M. Zhou - W. P. Chong - I. Gery - R. R. Caspi

P014 IL-17A SIGNALING TO SCA-1+ CARDIAC FIBROBLASTS INDUCES GM-CSF AND PROMOTE DEVELOPMENT OF HEART FAILURE / D. Cihakova* on behalf of Cihakova lab

P015 CONGENITAL MUTATION IN JAK1 LEADS TO PATHWAY AND CELL-TYPE- SPECIFIC GAIN-OF-FUNCTION / C. N. Gruber* - G. Evrony - S. Buta - D. Dunkin - L. Jarchin - J. Saland - B. Webb - B. Gelb - D. Bogunovic

P016 THE IMMUNE CHECKPOINT PROTEIN PDL1 IS AN ESSENTIAL DOWNSTREAM EFFECTOR OF THE INTERFERON-DRUG RESPONSE IN A MOUSE MODEL OF MULTIPLE SCLEROSIS / D. Harari* - S. Reich-Zeliger - A. Dov - T. M. Salame - N. Friedman - G. Schreiber

P017 COMMON CYTOKINE NETWORKS LINK THE DEVELOPMENT, MAINTENANCE AND ACTIVITY OF TERTIARY LYMPHOID STRUCTURES ACROSS AUTOIMMUNITY, CANCER AND INFECTION / D. Hill* - A. Cardus - D. Lucchesi - L. Yu - B. Cossins - E. Pontarini - L. McLeod - R. Andrews - N. Williams - C. Pitzalis - M. Bombardieri - B. Jenkins - S. Jones - G. Jones

P018 AIM2 INFLAMMASOME IS ACTIVATED IN THE SALIVARY GLAND DERIVED FROM PATIENTS WITH PRIMARY SJOGREN'S SYNDROME / S.-M. Hong* - J. Lee - S. G. Jang - S. Kwok - S.-H. Park

P019 COLLAGEN-INDUCED ARTHRITIS, AN ANIMAL MODEL OF RHEUMATOID ARTHRITIS, IS AMELIORATED BY INJECTION OF AN ENZYME CAPABLE OF MODIFYING TERMINAL SUGARS / T. Kaifu* - S.-H. Chung - Y. Iwakura

P020 THE HEDGEHOG PATHWAY SUPPRESSES CD4 T CELL PATHOGENICITY DURING NEUROINFLAMMATION / R. Kapoor* - M. C. Miller - T. Ochoa - L. Dragin - L. Cheslow - J. I. Alvarez

P020.A MONOCYTES DRIVE TYPE I INTERFERONOPATHY IN PATIENTS WITH MUTATIONS IN ISG15 / M. Martin-Fernandez* - C. Gruber - S. Buta - A. Nieto-Patlan - X. Qiu - J. Desai - E. Ferre - A. K. Sood - A. Alakeel - R. Halwani - J. Bustamante - M. Hernandez - F. Alsohime - J.-L. Casanova - M. Lionakis - D. Bogunovic

P020.B THE ROLE OF EPIGENETIC MODIFICATIONS IN DIABETIC COMPLICATIONS / M. Chattopadhyay - C. Levin* - V. Thankur

P020.C INHIBITION OF ERAD PLAYERS P97 AND SEC61 MODULATES PROINFLAMMATORY CYTOKINES PRODUCTION IN PRIMARY T CELLS / A. P. Yeola* - P. I. A. D. Mercy - J. Baillargeon - M. Rangachari

Cytokine regulation

P021 MOLECULAR MECHANISM OF IL4-INDUCED CCL17 PRODUCTION IN HUMAN MONOCYTES AND MURINE MACROPHAGES / A. Achuthan* - A. Hsu - T. Lupancu - M.-C. Lee - A. Fleetwood - A. Cook - J. Hamilton

P022 B CELL SPECIFIC IL-6 PRODUCTION PLAYS A PARADOXICAL ROLE IN B CELL DIFFERENTIATION / M. Akkaya* - S. K. Pierce

P023 ACTIVE TYPE I IFN SIGNALING IN ABSENCE OF DETECTABLE CYTOKINE / J. Altman* - J. Taft - D. Bogunovic

P024 THE RNA-BINDING PROTEIN ARID5A ORCHESTRATES IL-17-MEDIATED INFLAMMATION THROUGH POST-TRANSCRIPTIONAL CONTROL OF MRNA / N. Amatya* - J. A. Cruz - F. E. Y. Aggor - E. E. Childs - A. V. Garg - A. Berman - U. Atasoy - S. Gaffen

P025 IL-33 STIMULATING HUMAN MAST CELL CHEMOKINE VIA MAPK ACTIVATION, AND INHIBITION BY TETRAMETHOXYLUTEOLIN / M. Bawazeer* - T. Theoharides

P026 A NOVEL MECHANISM OF IMMUNE RESPONSE REGULATION IN HUMAN PLASMACYTOID DENDRITIC CELLS BY TOLL-LIKE RECEPTOR 10 / P. Deb* - S. Singh - N. Hess - R. Tapping - P. Fitzgerald-Bocarsly

P027 MECHANISM OF GP130 ACTIVATION AND REGULATION OF ITS DOWNSTREAM SIGNALLING / F. Dehkhoda* - N. Durisic - Y. Chhabra - A. Brooks

P028 CRTAM IS REGULATED BY IL-6 AND IL-27 IN INFLAMMATORY ARTHRITIS / A. Derrac Soria* - X. Liu - A. Cardus Figueras - J. Twohig - R. Andrews - B. Jenkins - R. Benson - C. Prendergast - P. Garside - G. W. Jones - S. A. Jones

P029 INTERFERON INCREASES TGF-B-INDUCED CASPASE 8 ACTIVATION AND APOPTOSIS / F. ElAsmi* - L. Dianoux - M. K. Chelbi-Alix

P030 THE ROLE OF AUTOCRINE MEDIATORS IN THE METABOLIC REPROGRAMMING OF LPS ACTIVATED MACROPHAGES / A. J. Fleetwood* - D. P. De Souza - M. K. S. Lee - A. Achuthan - M.-C. Lee - D. Tull - A. D. Cook - A. J. Murphy - J. A. Hamilton

P031 DIFFERENTIAL INFLAMMATORY RESPONSES TO TYPE I AND III INTERFERONS ARE REGULATED BY INTERFERON REGULATORY FACTOR 1 / A. Forero* - S. Ozarkar - C. Heng-Lee - L. So - E. A. Hemann - M. Nadjsombati - R. Green - S. N. Sarkar - J. von Moltke - M. Gale Jr. - R. Savan

P032 DNA METHYLATION IMPAIRS MONOCYTE FUNCTION IN TUBERCULOSIS LEADING TO DISEASE PROGRESSION / F. A. Zambuzi - M. S. Espindola - L. S. Soares - L. J. Galvão-Lima - R. C. Castro - F. G. Frantz* on behalf of Laboratory of Immunology and Epigenetic

P033 CRANIOSYNOSTOSIS IS CAUSED BY DEFECTIVE MATURATION OF THE INTERLEUKIN-11 RECEPTOR / C. Garbers* - M. Agthe - J. Bruegge - Y. Garbers - M. Wandel - B. Kespohl - P. Arnold - C. M. Flynn - J. Lokau - S. Aparicio-Siegmund - C. Bretscher - S. Rose-John - G. H. Waetzig - T. Putoczki - J. Groetzinger

P034 MANIPULATING IL-10 IMMUNO-MODULATORY PROPERTIES BY FINE-TUNING ITS RECEPTOR BINDING PROPERTIES / C. Gorby* - P. Fyfe - J. Martinez-Fabregas - E. Pohler - S. Wilmes - I. Moraga-Gonzalez

P035 REGULATION OF IL-17A EXPRESSION DURING TOXOPLASMA GONDII INFECTION IN RETINAL CELLS / F. Fahmi-Bittich - V. Greigert* - A. W. Pfaff - E. Candolfi - J. Brunet

P036 STAT3 SUPPRESSES PRIMARY TUMOUR GROWTH, BUT INCREASES METASTASIS IN MYC-DRIVEN SMALL CELL LUNG CANCER / A. C. Guanizo* - J. Chen - S. Jayasekara - D. N. Watkins - D. J. Gough

P037 MOLECULAR MECHANISM OF CYTOKINE RECEPTOR ACTIVATION AND DYSREGULATION BY ONCOGENIC MUTATIONS / S. Wilmes - M. Hafer* - I. Moraga - J. Vuorio - J. Tucker - S. Löchte - S. Hubbard - I. Vattulainen - K. C. Garcia - I. Hitchcock - J. Piehler

P038 CYTOKINE EXPRESSION VARIABILITY ACROSS CELLS AND SPECIES SHAPES INNATE IMMUNITY / T. Hagai* - S. A. Teichemann

P039 THE GESTATIONAL CYTOKINE LEUKEMIA INHIBITORY FACTOR (LIF) CAN DEACTIVATE GAMMA-INTERFERON (IFNG)-TREATED MACROPHAGES, PROMOTING TROPHOBLAST MIGRATION AND INVASION IN VITRO / J. Hamelin Morrissette* - C. Vaillancourt - C. Reyes-Moreno

P040 THE INFLUENCE OF IFNL4 SINGLE NUCLEOTIDE POLYMORPHISMS ON IFNL3 EXPRESSION / R. Hartmann* - M. Møhlenberg - E. Terczynska-Dyla

P041 HISTONE H2A.Z SUPPRESSION OF INTERFERON-STIMULATED TRANSCRIPTION AND ANTIVIRAL IMMUNITY IS MODULATED BY GCN5 AND BRD2 / C. M. Horvath* - N. Au-Yeung

P042 ADENOSINE MONOPHOSPHATE-ACTIVATED PROTEIN KINASE REGULATES MITOCHONDRIAL METABOLIC CHANGES CRITICAL TO THE PRODUCTION OF TYPE I INTERFERON BY PRIMARY HUMAN PLASMACYTOID DENDRITIC CELLS / H. J. Hurley* - P. Fitzgerald-Bocarsly

P043 IL-27 TRIGGERS AUTOPHAGY IN MACROPHAGES VIA A MTOR AND LC3-INDEPENDENT MANNER / S. Laverdure - Z. Wang - K. Nagashima - H. C. Lane - T. Imamichi*

P044 REGULATION OF ENDOGENOUS INTERLEUKIN-36 ACTIVITY / A. Jaafar*

P045 METFORMIN ENHANCES ANTI-INFLAMMATION EFFECTS OF ADIPOSE-DERIVED MESENCHYMAL STEM CELLS BY ACTIVATING AMPK/MTOR SIGNALING: THERAPEUTIC POTENTIAL TO MRL/LPR LUPUS MODEL / S. Jang* - J. Lee - S.-M. Hong - S. Kwok - S.-H. Park

P046 THE OPPOSING EFFECTS OF IFN-GAMMA VS. IFN-ALPHA ON IL-12 AND TNF SECRETION BY HUMAN PRIMARY MONOCYTES / A. Muglia Thomaz da Silva Amancio - L. Mittereder - L. Carletti - A. Sher - D. Jankovic*

P047 CROHN'S DISEASE-ASSOCIATED EPIGENETIC READER SP140 ORCHESTRATES IMMUNE CELL IDENTITY THROUGH REPRESSION OF CHROMATIN ACCESSIBILITY / K. Jeffrey* - H. Amatullah - S. Digumarthi

P048 CD28 DIMER INTERFACE CONTROLS B7/CD28 COSTIMULATORY RECEPTOR ENGAGEMENT AND INFLAMMATORY CYTOKINE STORM ELICITED BY INFLUENZA A VIRUSES / R. Kaempfer* - Z. Rotfogel - A. Popugailo - D. Hillman - R. Levy - G. Arad - T. Shpilka - D. L. Barnard

P048.A GLOBAL LANDSCAPE OF MOUSE AND HUMAN CYTOKINE TRANSCRIPTIONAL REGULATION / S. Carrasco Pro - A. Dafonte Imedio - C. Santoso - K. A. Gan - J. Sewell - M. Martinez - R. Sereda - S. Mehta - J. Fuxman Bass*

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P116 INTRACELLULAR CALCIUM REGULATES THE STING SIGNALING PATHWAY / D. Kwon* - H. Sesaki - S.-J. Kang

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P119.D NK CELLS CONTRIBUTE TO THE ANTI-TUMOUR RESPONSE ELICITED BY PD-1/PD-L1 BLOCKADE IMMUNOTHERAPY. / J. J. Hodgins* - J. Hsu - M. Marathe - C. J. Nicolai - M.-C. Bourgeois-Daigneault - T. N. Trevino - C. S. Azimi - A. K. Scheer - H. E. Randolph - T. W. Thompson - L. Zhang - A. Iannello - N. Mathur - K. E. Jardine - G. A. Kirn - J. C. Bell - M. W. McBurney - D. H. Raulet - M. Ardolino

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P119.H IGA NEPHROPATHY: ENDOGENOUS GALECTIN-3 PROMOTES NLRP3 INFLAMMASOME BY ENHANCING NLRP3 ASSEMBLY AND REDUCING AUTOPHAGY / C.-Y. Wu* - K.-F. Hua - S.-R. Yang - F.-T. Liu - H.-L. Chen - H.-Y. Chen - C.-C. Wu - S.-M. Ka - A. Chen

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P122 INTESTINAL CD4 T-CELL RESPONSES TO ORAL VACCINATION / A. Bhattacharjee* - J. Ji - J. Tometich - N. Rittenhouse - A. Poholek - O. Harrison - J. Linehan - Y. Belkaid - T. Hand

P123 CLEC-2 REGULATES INNATE IMMUNE ACTIVATION IN THE LUNG / P. Burkett* - S.-J. Kim - A. Wallrapp - S. Riesenfeld - R.-E. Abdulnour - B. Levy - V. Kuchroo

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P125 HUMANIZED CEREBLON MICE REVEALED DIFFERENT THERAPEUTIC PATHWAYS OF IMMUNOMODULATORY DRUGS FOR MALIGNANCY AND INFLAMMATION / Y. G. Hailu* - D. Millrine - T. Kishimoto

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P129 THE SHORT-CHAIN FATTY ACID BUTYRATE PREVENTS ANTIBIOTIC-INDUCED INTESTINAL MACROPHAGE DYSFUNCTION BY METABOLIC REPROGRAMMING / N. Scott - P. Andersen - C. Alcon-Giner - C. Leclaire - S. Caim - D. Peterson - A. Bancroft - X. Li - A. Mowat - L. Hall - M. Travis - S. Milling - E. Mann*

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P131 TUFT CELL DEVELOPMENT AND FUNCTION IN THE BILIARY SYSTEM / C. O'leary* - C. Schneider - R. Locksley

P132 THE PROSTAGLANDIN D2 RECEPTOR CRTH2 SUPPRESSES INTESTINAL EPITHELIAL RESPONSES DURING HELMINTH INFECTION / O. O. Oyesola* - L. Webb - D. Pham - S. Solouki - P. Campioli - S. Frueh - S. Peng - R. Cubitt - E. Tait Wojno

P133 MICROBIOTA DEPENDENT EFFECTS OF INTERLEUKIN-22 IN COLITIS / P. Pelczar* - M. Sabihi - M. Böttcher - N. Gagliani - S. Huber

P134 IFN-Λ PROMOTES RHESUS ROTAVIRUS-INDUCED DIARRHEA IN MICE / J. Peng* - J.-D. Lin - C. Sy - C. McElrath - S. Smirnov - H.-C. Tseng - Y.-J. Chang - R. R. Sridhar - R. Durbin - J. Durbin - S. Kotenko

P134.A CARBAPENEM RESISTANT KLEBSIELLA PNEUMONIAE EXPLOIT IFN-LAMBDA SIGNALING TO INVADE ACROSS THE AIRWAY EPITHELIUM / M. A. Wickersham* - D. Ahn - A. Prince

P134.B CHOLECYSTOKININ (CCK) INCREASES SIGA AND IGA+ B CELLS IN SMALL INTESTINE OF MICE / J. Morales Magaña* - I. M. Arciniega Martinez - A. A. Resendiz Albor - R. A. Jarillo Luna - R. Campos Rodriguez - J. D. C. Pacheco Yepez

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P135 NKG2D MODULATES THE PROINFLAMMATORY FEATURES OF TH1 AND TH17 CELLS AND CONTRIBUTES TO THEIR PATHOGENICITY IN VIVO / M. Babic Cac* - F. Heinrich - Q. Hammer - B. Polic - C. Romagnani

P136 THE TRANSCRIPTIONAL REGULATION OF INTERLEUKIN-10 VERSUS INTERFERON GAMMA BY C-MAF AND BLIMP-1 IN INTERLEUKIN-27-DRIVEN CD4+ T-HELPER CELLS / L. S. Cox* - L. Gabryšová - A. O'Garra

P137 TGF-B1 SIGNALING PROMOTES IL-22 PRODUCTION BY TH17 CELLS / L. Garcia Perez* - P. Pelzcar - J. Kempski - N. Gagliani - S. Huber

P138 TEMPORAL REGULATION OF ITK EXPRESSION REVEALS COMPLEX ROLES IN TH9 DIFFERENTIATION / J. Gomez-Rodriguez* - F. Meylan - R. Handon - T. Farley - R. M. Siegel - P. L. Schwartzberg

P139 CCDC134 FACILITATES T CELL ACTIVATION AND INFLAMMATORY RESPONSES BY REGULATING T-CELL RECEPTOR SIGNALING / J. Huang* - T. Zhang - B. Yu - Y. Wang - S. Yin - X. Qiu

P140 SINGLE-CELL RNA-SEQ REVEALS A DISTINCT TRANSCRIPTOMIC SIGNATURE OF CD32+ CD4+ T CELLS FROM HIV+ INDIVIDUALS ON SUPPRESSIVE THERAPY / M. Abdel-Mohsen - A. Kossenkov - C. Tomescu - S. K. Vadrevu - L. B. Giron - K. M. Lynn - K. Mounzer - P. Tebas - L. J. Montaner*

P141 INVESTIGATION OF POTENTIAL ROLES FOR LNCRNAS IN ESTABLISHMENT AND MAINTENANCE OF T CELL QUIESCENCE / L. Plasek* - C. Dobrowolski - J. Karn - S. Valadkhan

P141.A ADMINISTRATION OF IL-12 AND IL-2 CORRECTS THE AGE-RELATED IMPAIRMENT OF CYTOTOXIC T CELL PRIMING IN LISTERIA MONOCYTOGENES INFECTED MICE / M. Jergovic* - J. Uhrlaub - M. Smithey - J. Nikolich-Zugich

P141.B THERAPEUTIC EX-VIVO EXPANDED CD8+CD25+FOXP3+TREG CELLS PROLONG THE ALLOGENEIC ISLET SURVIVAL / J. S. Kim* - C. G. Park - T.-N. Phuong - H. Chung - S. J. Hong

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Autoinflammation and autoimmunity

P142 INTERLEUKIN 22 AMELIORATES NEUROPATHOLOGY AND PROTECTS FROM CENTRAL NERVOUS SYSTEM AUTOIMMUNITY / M. J. Mattapallil* - J. L. Kielczewski - C. R. Zárate-Bladés - A. J. St.Leger - P. B. Silver - Y. Jittayasothorn - C. C. Chan - R. R. Caspi

P143 SPONTANEOUS DISEASE FEATURES IN SAVI MUTANT MICE OCCUR INDEPENDENTLY OF THE INTERFERON RECEPTOR / M. Motwani* - S. Pawaria - J. Bernier - S. Moses - A. Rothstein - K. A. Fitzgerald

P144 GLYCA AS A NOVEL CANDIDATE BIOMARKER FOR RESPONSE TO INTERFERON-BETA AND NATALIZUMAB TREATMENT IN MULTIPLE SCLEROSIS / D. M. Pineda* - T. Dierckx - B. Pignolet - R. Liblau - D. Brassat - J. Van Weyenbergh

P145 PREFERENTIAL RECOGNITION OF ADVANCED GLYCATION END PRODUCTS BY SERUM ANTIBODIES AND LOW-GRADE SYSTEMIC INFLAMMATION IN DIABETES MELLITUS AND ITS COMPLICATIONS / A. Raghav* - J. Ahmad

P146 CROSSTALK BETWEEN TLR7 AND IFNG SIGNALING VIA STAT1 IN B CELLS CONTROLS SPONTANEOUS GERMINAL CENTER AND AUTOIMMUNE RESPONSES / Z. Rahman* - S. B. Chodisetti - P. P. Domeier - N. Choi - T. Decker

P147 IFNAR SIGNALING IN RADIORESISTANT CELLS IS REQUIRED TO SUPPRESSORGAN-SPECIFIC AUTOIMMUNITY IN VITILIGO / R. L. Riding* - J. M. Richmond - K. Fukuda - J. E. Harris

P148 IL-35 ADMINISTRATION PREVENTS THE DEVELOPMENT OF DIABETIC NEPHROPATHY / K. Singh* - Z. Luo - M. Mejia- Cordova - E. Enström - S. Varli - D. Espes - P.-O. Carlsson - M. Blixt - L. Thorvaldson - S. Sandler

P149 LOCAL PRODUCTION OF INTERFERON GAMMA AND FAS LIGAND IN THE SKIN ARE REQUIRED FOR MELANOCYTE CLEARANCE IN VITILIGO / J. P. Strassner* - J. M. Richmond - V. N. Azzolino - X. Fan - J. E. Harris

P150 BCL-3 SUPPRESSES LUPUS-LIKE SYMPTOMS IN BL6/LPR MICE IN A TNFA- DEPENDENT MANNER / W. Tang* - H. Wang - S. Saret - H.-L. Ha - H. Jaiswal - E. Claudio - U. Siebenlist

P151 THE USE OF IL-10 TRANSFECTED CELLS TO FORM THE TOLEROGENIC ACTIVITY OF HUMAN MONONUCLEAR CELLS IN VITRO / J. A. Shevchenko - V. P. Tereschenko* - V. V. Kurilin - A. Z. Maksyutov - S. V. Sennikov

P152 EXTRACELLULAR VESICLES ARE INCREASED IN THE SERUM OF CHILDREN WITH AUTISM SPECTRUM DISORDER, CONTAIN MITOCHONDRIAL DNA, AND STIMULATE HUMAN MICROGLIA TO SECRETE IL-1BETA / I. Tsilioni* - T. C. Theoharides

P153 EXTRACELLULAR ADP/P2Y1 AXIS MEDIATES CXCL-2 INDUCED NEUTROPHIL CHEMOTAXIS IN RHEUMATOID ARTHRITIS / X. Zhang* - M. Qian

Cytokine regulation

P154 SPATIOTEMPORAL ACTIVATING OF A MAMMARY PRIMARY SUPER-ENHANCER CONTROLS SECONDARY ENHANCERS AND GENE EXPRESSION DURING PREGNANCY / H. K. Lee*

P155 A HIGH FAT DIET RESCUES SHORTENED LIFESPAN AND CACHEXIA-LIKE PHENOTYPES BY MODULATING INSULIN SIGNALING IN SIRT6 DEFICIENT MOUSE / Z. Li* - K. Xu - Q. Liu - Z. Wang

P157 THE STABILITY OF INTERLEUKIN-11 IS COMPROMISED BY THE CODING SNP RS4252548 (R112H) / J. Lokau* - S. Göttert - P. Arnold - S. Düsterhöft - D. Massa López - J. Grötzinger - C. Garbers

P158 EPIGENETIC REGULATION OF IL-17 SIGNALING PATHWAY IN AIRWAY EPITHELIAL CELLS / J. Luo* - A. Ferguson - X. An - Z. Sun - T. Wang - Q. Zhang - W. Chen - J. Kolls - K. Chen

P159 MAPPING IL-6 SIGNALING NETWORKS IN HUMAN CD4 T CELLS / J. Martinez-Fabregas* - E. Pohler - S. Mitra - S. Wilmes - P. Fyfe - I. Moraga

P160 RNA BASE MODIFICATIONS REGULATE THE TYPE I INTERFERON RESPONSE / M. Mcfadden* - A. McIntyre - N. Gokhale - C. Mason - S. Horner

P161 CELL-TYPE- AND STIMULUS-SPECIFIC LANDSCAPE OF THE TNF LOCUS / A. Nambu* - L. D. Jasenosky - A. E. Goldfeld

P162 CD206 M2-LIKE MACROPHAGES REGULATE WHITE AND BEIGE PROGENITORS / A. Nawaz* - Y. Igarashi - T. Kado

P163 ENHANCED BINDING OF THE SOCS2-SH2 DOMAIN TO PHOSPHORYLATED TARGETS VIA A NOVEL EXOSITE / S. E. Nicholson* - E. M. Linossi - G. Veggiani - D. Calleja - C. Tan - C. Walters - L. F. Dagley - S. S. Li - N. J. Kershaw - J. J. Babon - S. S. Sidhu

P164 INTERFERON STIMULATION MARKS CHROMATIN AND CREATES EPIGENETIC MEMORY / K. Ozato* - R. Kamada - W. Yang - J. Zhu - R. Oda - T. Fujita - A. Dey

P165 DIVERSE SUPERANTIGENS TRIGGER B7/CD28 COSTIMULATORY RECEPTOR ENGAGEMENT CRITICAL FOR INDUCTION OF INFLAMMATORY CYTOKINE STORM / A. Popugailo* - Z. Rotfogel - E. Supper - D. Hillman - R. Kaempfer

P166 STRUCTURAL CHARACTERIZATION OF A PROTEIN-PROTEIN INTERACTION REQUIRED FOR IL1B GENE TRANSCRIPTION USING COMBINED COMPUTATIONAL AND EXPERIMENTAL APPROACHES / S. H. Pulugulla* - R. Workman - N. W. Rutter - E. X. Esposito - Z. Yang - J. Adamik - D. L. Galson - P. E. Auron

P167 DEMONSTRATION OF THE REGULATORY ROLE OF LEUKEMIA INHIBITORY FACTOR (LIF) AND ONCOSTATIN M (OSM) IN THE RESPONSE OF HUMAN TROPHOBLASTS TO PRO-INFLAMMATORY SIGNALS / M. Ravelojaona* - J. Hamelin-Morrissette - J. Girouard - C. Vailancourt - C. Reyes-Moreno

P168 CALCITRIOL INHIBITS TRIPLE NEGATIVE BREAST CANCER CELL PROLIFERATION THROUGH INDUCING THE SYNTHESIS OF IL-1 BETA AND TNF-ALPHA / I. M. Reza* - R. A. G. Becerra - L. D. Nieto - M. S. Mendoza - D. B. Hernández - F. L. Gallo

P169 IFN-G AND TNF-A SYNERGISE TO KILL INTESTINAL EPITHELIAL CELLS THROUGH A JAK1/2 DEPENDENT PATHWAY / N. Saini* - P. Stamou - M. Bustamante-Garrido - P. Flood - S. Rajaram - J. A. Woznicki - P. Azablanc - K. Nally

P170 INTERLEUKIN-6 AND INTERLEUKIN-11 CLASSIC, TRANS- AND CLUSTER SIGNALING BY SOLUBLE AND MEMBRANE-BOUND HYPER-CYTOKINES / L. Lamertz - J. Scheller*

P171 TYROSINE KINASE 2 IS NOT REQUIRED FOR INTERFERON-LAMBDA MEDIATED SIGNALING AND PROTECTION AGAINST LETHAL INFLUENZA A VIRUS INFECTION IN MICE / D. Schnepf* - L. Polcik - M. Stanifer - A. Ohnemus - H. H. Gad - R. Hartmann - B. Strobl - S. Boulant - P. Stäheli

P172 RE-VISITING THE MOLECULAR BASIS FOR TYPE I INTERFERON SIGNALING USING CRISPR KNOCKOUTS / G. Schreiber* - V. Urin - M. Shemesh

P173 THE ROLE OF TYPE I INTERFERON RECEPTORS IN MEDIATING DIFFERENTIAL ACTIVITY / M. Shemesh* - G. Schreiber

P174 CYTOKINES BOOST TRANSCRIPTIONAL OUTPUT IN NK CELLS VIA CHROMATIN REMODELING AND RAPID REDISTRIBUTION OF TRANSCRIPTION FACTOR BINDING / H.-Y. Shih* - G. Sciume' - J. O'Shea

P176 SERINE 727 PHOSPHORYLATION OF STAT1 MODULATES A TYPE I INTERFERON DRIVEN NEURO-INFLAMMATORY DISEASE / P. Songkhunawej* - M. Hofer

P177 PROTEIN TYROSINE PHOSPHATASES ACT AS RHEOSTAT REGULATORS OF STAT1 ACTIVITY IN CYTOKINE TREATED MEMORY CD4 T-CELLS. / J. P. Twohig* - A. C. Figueras - R. Andrews - B. C. Cossins - A. D. Soria - D. Hill - J. U. Fernandez - D. Millrine - N. M. Williams - T. Tiganis - G. W. Jones - S. A. Jones

P178 TUMOR NECROSIS FACTOR ALPHA AND INTERLEUKINS IL-1, IL-4, IL-6, IL-7, IL-8, IL-10, AND IL-12 WITH COMPLEX INFLAMMATORY, ANTI-INFLAMMATORY AND REGULATORY FUNCTIONS ARE CONTRIBUTING TO THE PATHOGENESIS OF COPD IN LUNG AIRWAYS / Z. Vitenberga* - M. Pilmane - A. Babjoniseva

P179 MAPPING THE INTERLEUKIN-27 SIGNALOSOME – FROM CELL SURFACE RECEPTORS TO T-CELL DIFFERENTIATION / S. Wilmes* - M. Hafer - J. Martinez-Fabregas - E. Pohler - P. Fyfe - C. Gorby - J. Piehler - I. Moraga-Gonzalez

P180 UTX IS AN EPIGENETIC REGULATOR OF IFN-GAMMA AND TNF-ALPHA SYNERGY IN INTESTINAL EPITHELIAL CELLS / J. A. Woznicki* - J. Velmurugan - P. Flood - M. Bustamante-Garrido - M. Aguilera - V. Rossini - M.-L. Hammarström - E. Brint - A. Houston - F. Shanahan - S. Melgar - K. Nally

P181 CHARACTERIZATION OF A SMALL PEPTIDE WITH UNKNOWN FUNCTION THAT IS LIKELY INVOLVED IN THE HOST INNATE AND ADAPTIVE IMMUNE RESPONSE / H. Young* - N. Tarasova - M. Sanford - W. Hu

P181.A DISSECTING IMMUNE CELL VARIABILITY IN CYTOKINE SIGNALLING BY SINGLE CELL MASS CYTOMETRY AND COMPUTATIONAL MODELLING / R. Mukherjee* - G. Altan-Bonnet

P181.B MODULATION OF TREG BY IL-2 AS A REVIVED THERAPEUTIC STRATEGY FOR AUTOIMMUNE DISEASES / L. Xu - X. Song - L. Su - Y. Zheng - J. Sun*

P181.C SIMULTANEOUS QUANTIFICATION OF INFLAMMATORY DISEASE BIOMARKERS USING COMMON LAB FLOW CYTOMETERS / P. Rughwani - B. Sun - J. Lehmann - S. Ji - W. Jiang*

Cytokines in allergy and Th2 immunity

P182 PYROPTOSIS IS A NOVEL MECHANISM OF IL-33 RELEASE FROM AIRWAY EPITHELIAL CELLS / O. Bernard* - M. Lachowicz-Scroggins - L. Sharp - E. Gordon

P183 TYPE 2 INFLAMMATORY CELLULAR IMMUNE MECHANISMS IN CANINE ATOPIC DERMATITIS / S. Frueh* - J. Eule - M. Saikia - L. M. Webb - O. Oyesola - D. Shiroor - R. L. Cubitt - M. G. Castelhano - W. H. Miller - E. D. Tait Wojno

P184 AMPHIREGULIN-PRODUCING PATHOGENIC MEMORY T HELPER-2 CELLS DRIVE AIRWAY FIBROSIS VIA ACTIVATION OF EOSINOPHILS / K. Hirahara* - Y. Morimoto - M. Kiuchi - M. Okano - K. Kokubo - A. Onodera - D. Sakurai - Y. Okamoto - T. Nakayama

P185 TEMPORAL ABROGATION OF IL-4R-SIGNALING IS DETRIMENTAL FOR AMELIORATION OF TH2 AND TH17 INFLAMMATION IN OVALBUMIN INDUCED ALLERGIC ASTHMA. / J. Khumalo* - F. Kirstein - S. Hadebe - M. Scibiorek - F. Brombacher

P187 FIZZ-1/RELMA AND IL-33 REGULATION BY ONCOSTATIN M IN MOUSE LUNG / C. D. Richards* - F. Botelho - L. Ho - A. Yip - F. Lao - A. Dubey - R. Park - A. Humbles - R. Kolbeck

P188 IL-36G PROMOTES AIRWAY INFLAMMATION AND HYPERRESPONSIVENESS DURING RESPIRATORY INFECTION / H. L. Tay* - A. Hsu - T. Nguyen - C. Donovan - A. Collison - A. Lochrin - N. Bartlett - J. Mattes - P. Wark - P. Hansbro - M. Yang - P. S. Foster

P189 CHRONIC ETHION EXPOSURES AND ENDOTOXIN INTERACTION INDUCE PULMONARY DAMAGE AND GENOTOXICITY IN MICE / G. Verma* - C. S. Mukhopadhyay - R. Verma - B. Singh - R. S. Sethi

P189.A A UNIQUE ROLE FOR B CELL IGM ISOTYPE IN ALLERGIC AIRWAY DISEASE / S. Hadebe* - J. Khumalo - M. Scibiorek - F. Kirstein - F. Brombacher

P189.B REGULATION OF THE ALLERGIC INFLAMMATION BY NON-CANONICAL TYPE I INTERFERON SIGNALING / T. Kobayashi* - H. Tsutsui - N. Toyama-Sorimachi

Cytokines in cancer development and antitumor immune therapy

P190 IFNL4-DG ALLELE IS ASSOCIATED WITH AN INTERFERON SIGNATURE IN TUMORS AND SURVIVAL OF AFRICAN-AMERICAN MEN WITH PROSTATE CANCER / W. Tang - T. Wallace - M. Yi - C. Magi-Galluzzi - T. Dorsey - O. O. Onabajo - A. Obajemu - S. V. Jordan - C. A. Loffredo - R. M. Stephens - R. Silverman - G. R. Stark - E. A. Klein - L. Prokunina-Olsson* - S. Ambs

P191 THE RXR AGONIST LG100268 ALTERS POLARIZATION OF BONE MARROW-DERIVED MACROPHAGES / N. Raychaudhuri* - K. Liby

P192 IL-6 TRANS-SIGNALING AND ADAM17 REQUIRED FOR EGF-R–INDUCED INTESTINAL TUMORS: NOVEL THERAPEUTIC PERSPECTIVES / S. Rose-John*

P193 UNIQUE MECHANISMS OF ACTION OF PEGYLATED HUMAN IL-15 (NKTR-255) / K. S. Schluns* - T. O. Robinson - S. M. Hegde - A. Gangadharan - T. Miyazaki

P195 DARK SIDE OF INTERFERON GAMMA SIGNALING IN TRIPLE NEGATIVE BREAST CANCER / S. Singh* - R. Chakrabarti

P196 NLRS ARE POTENTIAL BIOMARKERS FOR CARCINOGENESIS, AND ERS PARTICIPATE IN NLR-ASSOCIATED SIGNALING PATHWAYS BY DIRECTLY REGULATING NLRS / W. Fan - X. Gao - S. Song*

P197 BLYS ANTAGONIST DESIGNED BY CADD AMELIORATES COLLAGEN-INDUCED ARTHRITIS / W. Zhu - X. Sun - Z. Li - R. Li - J. Sun*

P198 PREDICTING CANCER SURVIVAL: IFN PRODUCTION VALUES DIFFER IN SHORT-TERM AND LONG-TERM CANCER SURVIVORS / K. Uno* - K. Yagi

P199 CROSS-REGULATION OF IFNG AND IL-27 ENHANCES IMMUNOTHERAPY-INDUCED IMMUNE-RELATED ADVERSE EVENTS IN A PRE-CLINICAL MOUSE MODEL OF AUTOIMMUNE DISEASE / J. C. Valencia* - R. Erwin-Cohen - M. Sandford - K. Tsuneyama - H. Young

P200 MURINE GUANYLATE-BINDING PROTEIN-2 (MGBP-2) INHIBITS TRIPLE-NEGATIVE BREAST CANCER MIGRATION IN VITRO / D. Vestal* - G. Nyabuto

P201 EXPLORING THE POSSIBLE ROLE OF IFNL4 IN LIVER CANCER / F. Wang* - O. O. Onabajo - A. Obajemu - O. Florez-Vargas - L. Prokunina-Olsson

P201.A IFNL4-DG PREDISPOSES TO PROSTATE CANCER AMONG MEN AT INCREASED RISK OF SEXUALLY TRANSMITTED INFECTIONS / L. Prokunina-Olsson* - T. Zewdu Minas - W. Tang - C. J. Smith - O. O. Onabajo - A. Obajemu - T. Dorsey - S. Jordan - O. Obadi - B. M. Ryan - C. A. Loffredo - S. Ambs

P201.B MIGRATION AND PROLIFERATION OF HEP3B CELLS IN 3D IN RESPONSE TO THE PRESENCE OF GROWTH FACTORS PRINTED ON A 384-PILLAR PLATE WITH SIDEWALLS / N. Janto* - A. Roth - M.-Y. Lee

Cytokines in skin inflammatory diseases

P202 IL-17A IS ANTI-FIBROTIC IN SYSTEMIC SCLEROSIS SKIN WHERE IT MAY SYNERGIZE OR ANTAGONISE TGF-B / A. M. Dufour* - M. Alvarez - S. Lemeille - M.-E. Truchetet - N. C. Brembilla - C. Chizzolini

P203 IL-23 ACTIVATION OF MDL-1+ CELLS IS CRITICAL IN THE PATHOGENESIS OF PSORIATIC ARTHRITIS / C. Nguyen* - D. Hui - I. Adamopoulos

P204 PROSTAGLANDIN E2 AMPLIFIES IL-17 SECRETION BY GAMMA DELTA T CELLS / B. Polese* - C. Leung Soo - H. Zhang - G. Fontes - I. King

P205 PHENOTYPIC AND FUNCTIONAL CHARACTERIZATION OF AUTOREACTIVE RESIDENT AND RECIRCULATING MEMORY T CELLS IN VITILIGO REVEALS LOCAL IFNG AND CHEMOKINE PRODUCTION IN SKIN ARE USED TO COORDINATE AUTOIMMUNITY / J. M. Richmond* - M. Rashighi - P. Agarwal - J. P. Strassner - M. Garg - K. I. Essien - L. S. Pell - J. E. Harris

P206 ASSOCIATION OF JAK-STAT SIGNALING ACTIVITY WITH IMMUNE CELLS INFILTRATION IN SKIN TISSUE IN PATIENT WITH ATOPIC DERMATITIS / A. Sekita* - H. Kawasaki - E. Kawakami - A. Fukushima - S. Obata - T. Ebihara - M. Amagai - H. Koseki

P207 ZEARALENONE (ZEA) CAN RELIEVE DEXTRAN SULPHATE SODIUM (DSS)-INDUCED INFLAMMATORY REACTION / C. Ding - S. Song*

P207.A A NOVEL, POTENT, ORALLY BIOAVAILABLE ROR-GAMMA-T INVERSE AGONIST INHIBITS IL-17 PRODUCTION AND ATTENUATES DISEASE IN PRECLINICAL INFLAMMATORY DISEASE MODELS / A. Symons* - K. Gaida - R. Ngo - J. Hirata - A. Baba - Y. Enomoto - E. Kada - A. Takeuch - J. Zhang

P207.B TYPE I INTERFERONS MODULATE ULTRAVIOLET RADIATION INDUCED SUPPRESSION OF IMMUNE RESPONSES / N. Yusuf* - M. A. Sherwani - I. Ahmad - C. Raman

Innate immunity

P072 THE PRODUCTION AND MATURATION OF INTERLEUKIN-18 IN ALZHEIMER'S DISEASE / S. M. Becker* - D. Golenbock - M. Heneka - E. Latz - B. S. Franklin - T.-C. Tzeng - T. Dierkes

P208 RELEASED IFP53 FUNCTIONS AS A CYTOKINE ON VIRUS INFECTION / H.-C. Lee* - T.-H. Kim - K. Chathuranga - J.-S. Lee

P209 EXACERBATED FIBROSIS IN PPAR GAMMA KO MICE INSTILLED WITH MYCOBACTERIAL ANTIGEN TOGETHER WITH MULTIWALL CARBON NANOTUBES (MWCNT) IN A MODEL OF CHRONIC PULMONARY SARCOIDOSIS / N. Leffler* - A. Malur - D. E. Vargas - B. Barna - G. Murray - A. Mohan - M. J. Thomassen

P211 A FUNCTIONAL ROLE FOR CELLULAR HETEROGENEITY IN THE TYPE I INTERFERON RESPONSE TO VIRAL INFECTION / S. Leviyang* - I. Griva

P212 INTERFERON SUPPRESSION BY FIBROBLAST GROWTH FACTOR 2 ENHANCES ZIKA VIRUS INFECTION OF HUMAN FETAL BRAIN CELLS / D. Limonta* - J. Jovel - A. Kumar - J. Lu - W. Branton - C. Power - T. C. Hobman

P213 REGULATION OF INNATE IMMUNE RESPONSES AND VIRUS REPLICATION BY PACT / P. Luthra* - C. F. Basler

P214 IFN-BETA INDUCED EPIGENETIC MEMORY IN HUMAN BRONCHIAL EPITHELIAL CELLS / S. V. Mayer* - E. R. Winkelmann - B. B. Leitao - S. Shapira

P215 CHARACTERIZATION OF THE GLOBAL CELLULAR TRANSCRIPTOMICS OF TYPE I IFN RESPONSE IN GUINEA PIGS AND INHIBITORY EFFECTS OF KEY GUINEA PIG ISGS TO CYTOMEGALOVIRUS / A. McGregor* - M. Markert - K. Y. Choi

P216 IDENTIFYING KEY HOST FACTORS FOR IMMUNITY BASED ON CROSS-VIRUS COMPARISONS / V. D. Menachery* - L. Gralinski - J. F. Kocher - E. T. McAnarney - B. A. Johnson - A. C. Sims - A. Eisfeld - M. S. Diamond - Y. Kawaoka - R. S. Baric

P217 ARID5A EXPRESSION IS INDUCED THROUGH MYD88-INDEPENDENT PATHWAY IN RESPONSE TO TLR4 STIMULATION IN IFN-GAMMA-SENSITIZED HUMAN MACROPHAGES / H. Metwally* - T. Kishimoto

P218 N-TERMINAL CYSTEINES OF NLRP3 DETERMINE AGONIST SPECIFICITY / A. Nagar* - T. Rahman - J. A. Harton

P219 REACTIVE OXYGEN SPECIES REGULATE CALCINEURIN-TFEB PATHWAY DURING BACTERIAL PHAGOCYTOSIS / M. Najibi* - J. Irazoqui

P220 HEPATOCYTE-INTRINSIC NF-KB SIGNALING IS ESSENTIAL TO CONTROL A SYSTEMIC VIRAL INFECTION / S. Namineni* - T. O. Connor - P. Johannsen - P. Shinde - K. Borst - T. Riedl - A. Pandyra - S. Kurz - D. Wohlleber - J. Lucifora - P. Lang - K. S. Lang - U. Kalinke - M. Karin - P. Knolle - M. Heikenwaelder

P221 MECHANISTIC EXPLORATION OF IFNL4 FUNCTION USING SITE-DIRECTED MUTAGENESIS / A. Obajemu* - O. Onabajo - J. Vargas - N. Rao - B. Muchmore - N. Earland - L. Prokunina-Olsson

P222 DEVELOPMENT OF A HOMOGENEOUS, BIOLUMINESCENT IMMUNOASSAY FOR RELEASED IL-1 BETAb / M. O'Brien* - J. Cali - D. Lazar

P223 NRF2 IS A NEGATIVE REGULATOR OF STING DURING METABOLIC REPROGRAMMING / D. Olagnier* - A. M. Brandtoft - C. Gunderstofte - N. V. Villadsen - C. Krapp - A. L. Thielke - A. Laustsen - S. Peri - A.-L. Hansen - L. Bonefeld - J. Thyrsted - V. Bruun - M. B. Iversen - V. M. Artegoitia - R. Lin - S. Balachandran - Y. Luo - M. Nyegaard - B. Marrero - R. Goldbach-Mansky - K. Fitzgerald - L. O'Neill - F. V. de Paoli - H. C. Bertram - M. R. Jakobsen - T. B. Poulsen - C. K. Holm

P224 EBOLAVIRUS GLYCOPROTEIN-MEDIATED INFLAMMATORY RESPONSES / J. Olejnik* - D. Cantoni - J. S. Rossman - E. Muhlberger

P225 AN ANTIVIRAL BRANCH OF THE IL-1 SIGNALING PATHWAY RESTRICTS IMMUNE-EVASIVE VIRUS REPLICATION / M. H. Orzalli* - A. Smith - K. A. Jurado - A. Iwasaki - J. Garlick - J. Kagan

P226 ASIAN AND AFRICAN LINEAGE ZIKA VIRUSES SHOW DIFFERENTIAL ABILITY TO REPLICATE AND REGULATE INNATE IMMUNITY IN HUMAN MONOCYTE-DERIVED DENDRITIC CELLS AND MACROPHAGES / P. Osterlund* - M. Jiang - V. Westenius - S. Kuivanen - R. Järvi - L. Kakkola - R. Lundberg - K. Melen - M. Korva - T. Avsic - O. Vapalahti - I. Julkunen

P227 GEF-H1 REGULATES TYPE I AND TYPE III INTERFERON EXPRESSIONS FOR ANTIVIRAL HOST DEFENSES IN THE INTESTINE / Y.-C. Peng* - Y.-C. Chen - H.-S. Chiang

P228 AUTOCRINE PROSTAGLANDIN E2 FEEDBACK THROUGH THE EP4 RECEPTOR RESTRICTS ENDOSOMAL TLR4/TRIF SIGNALING AND TYPE I INTERFERON PRODUCTION / D. Perkins* - K. Richard - A.-M. Hansen - W. Lai - S. Nallar - B. Koller - S. Vogel

P229 TYPE I INTERFERON IS IMPORTANT FOR ACINETOBACTER BAUMANNII RESOLUTION IN A PNEUMONIA MODEL / S. Pires* - D. Parker

P230 INFLAMMASOME-INDEPENDENT ACTIVATION OF IL-1B IN THE LUNG IN RESPONSE TO TAPHYLOCOCCUS AUREUS INFECTION / S. Pires* - D. Parker

P231 IFITS, A FAMILY OF INTERFERON STIMULATED GENES, ALLEVIATE EXPERIMENTAL ACUTE COLITIS / D. Poddar* - G. Sen

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P286 THE INSUFFICIENCY OF METABOLIC HORMONE LEPTIN IMPAIRS 1 THE FUNCTION OF TFH CELLS AND CONFERS A RISK OF POOR VACCINE RESPONSES / D. Yu* - J. Deng - L. Lu

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Luke O'Neill (Trinity College Dublin, Ireland)
Presentation on Saturday, 27 October, 17:15 – 17:50 in Opening Ceremony

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Presentation on Tuesday, 30 October 15:55 - 16:25 in Plenary 3

ICIS Distinguished Service Awardee:

Tadamitsu Kishimoto (Osaka University, Japan)

Milstein Young Investigator Awardees:

Cristina Bergamaschi (National Cancer Institute at Frederick, Frederick, USA)
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
Presentation on Sunday, 28 October, 09:45 – 10:00 in Plenary Session I

Ricardo Rajsbaum (University of Texas Medical Branch, Galveston, USA)
REGULATION OF NOVEL PATTERN RECOGNITION RECEPTOR SIGNALING AND IFN INDUCTION BY UNANCHORED K48-LINKED POLYUBIQUITIN CHAINS
Presentation on Sunday, 28 October, 10:00-10:15 in Plenary Session I

Vijay Rathinam (UConn Health School of Medicine, Farmington, USA)
THE EXPANDING FUNCTIONS OF THE INFLAMMASOME COMPLEXES
Presentation on Tuesday, 30 October, 11:00 – 11:25 in Symposium 15: Inflammasome and IL1 Family members II

Gregory F. Sonnenberg (Weil Cornell, New York City, USA)
CYTOKINE REGULATION OF INTESTINAL HEALTH
Presentation on Sunday, 28 October, 16:30 – 16:55 in Symposium 6: Intestinal Homeostasis

Munir Akkaya (NIAID, NIH, Bethesda, MD, USA)
TYPE I INTERFERONS REGULATE B CELL DEVELOPMENT AND DIFFERENTIATION
Presentation on Monday, 29 October, 10:20-10:35 in Plenary 2: Advances in Pathogenic Th17 axis of evil

Christina Fleischmann Awardee:

Sophia Davidson (Walter and Eliza Hall Institute for Medical Research, Parkville, Australia)
DELINEATION OF THE INFLAMMATORY PATHWAY BEHIND PROTEASOME-ASSOCIATED AUTOINFLAMMATORY SYNDROME
Presentation on Sunday, 28 October, 10:15 – 10:30 in Plenary Session I

Sidney & Joan Pestka Graduate Awardee:

Erika Engelowski (Heinrich-Heine-University, Duesseldorf, Germany)
DI- AND TRIMERIC BIOLOGICAL SWITCHES MADE OF NANOBODY-CYTOKINE RECEPTOR FUSION PROTEINS SIMULATE NATURAL SIGNAL TRANSDUCTION
Presentation on Sunday 28 October, 12:15-12:25 in Symposium 1: Innate Sensing and Signaling

Sidney & Joan Pestka Post Graduate Awardee:

Christoph Schneider (University of California, San Francisco, San Francisco, USA)
A METABOLITE-TRIGGERED TUFT CELL-ILC2 CIRCUIT DRIVES SMALL INTESTINAL REMODELING
Presentation on Sunday 28 October, 12:25-12:35 in Symposium 1: Innate Sensing and Signaling

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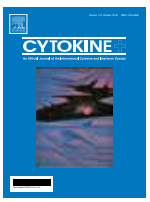

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Eli Lilly

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The Mucosal Immunology Studies Team (MIST) comprises the grant recipients of the NIAID's Mucosal Immunology Studies Group Initiative, RFA-AI-15-023. The goal of MIST is to discover and define novel basic immune mechanisms, cells, mediators, and pathways that provide a more sophisticated understanding of mucosal immune defense mechanisms; to explore innovative hypotheses; and to address difficult unsolved questions in mucosal immunity. The ultimate goal is to develop the knowledge base needed to facilitate future development of vaccines and immunotherapies to protect mucosal surfaces from infection and immune-mediated pathology.

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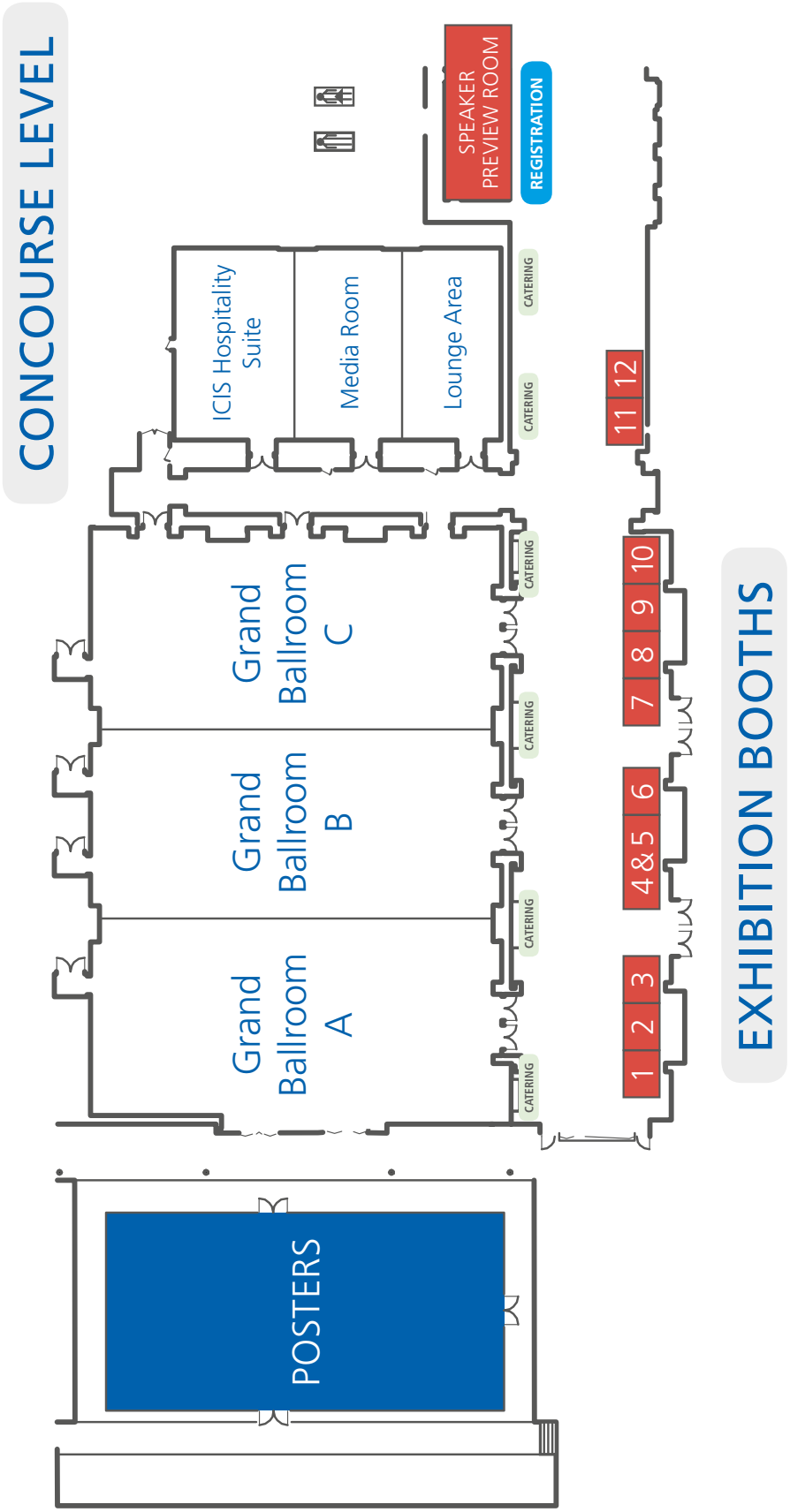
LAYOUT OF VENUE & EXHIBITION AREA



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