FCCIS2017 CHICAGO JUNE 14-17 Precision in Immunology

SCIENTIFIC PROGRAM





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Thank you to the FOCIS 2017 Travel Award Supporters:



















Dear Colleagues,

Welcome to the 17th annual meeting of the Federation of Clinical Immunology Societies, FOCIS 2017. I am particularly excited about this year's meeting. The scientific program reflects the core tenets of FOCIS by bridging the gap between basic and clinical immunology and discussing novel translational therapies.

We value the participation of each of you who have touched FOCIS in one way or another over the past 17 years, and we hope that you will join us as we move into the future. FOCIS introduced individual membership in 2012, and I invite you to join FOCIS and collaborate with us to promote education, research and patient care around the theme of translational immunology. Memberships run on a calendar year basis and are available at the conference. At FOCIS 2017, membership also gains you exclusive access to a Members-only Lounge complete with a complimentary espresso bar as well as a festive Members-only Reception at Kitty O'Sheas on Thursday, June 16.

Please join me in extending my most heartfelt thanks to the members of the FOCIS 2017 Scientific Program Committee for their time, energy and expertise. I hope you enjoy the fruits of their labor - FOCIS 2017. Welcome to Chicago!



Sincerely,

Jeffrey Bluestone, PhD, FOCIS President University of California, San Francisco

FOCIS 2017 SUPPORTERS

ACKNOWLEDGEMENTS:

FOCIS gratefully acknowledges the support that allows FOCIS to fulfill its mission to foster interdisciplinary approaches to both understand and treat immunebased diseases, and ultimately to improve human health through immunology.

EXHIBITORS:

Arcus Biosciences Beckman Coulter BioLegend Cellular Technology Limited **Immudex** iRepertoire, Inc. JPT Peptide Technologies Merck Myriad RBM Nanostring Technologies Science Immunology

MOBILE APP

Use your mobile phone/tablet to view the program, make a personal schedule, view the exhibits and much more!





FOCIS 2017 PROGRAM COMMITTEE



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FOCIS 2017 GENERAL INFORMATION

EVALUATIONS:

Daily online evaluations are available through the mobile app. Delegates will also receive an email reminder and link to the evaluations daily during the meeting. Delegates are asked to complete an evaluation for each session attended. If you are eligible for a travel award, you must complete the evaluations before receiving a reimbursement.

CME CERTIFICATES AND CERTIFICATES OF ATTENDANCE:

In the past, FOCIS has made it possible for meeting participants to obtain CME credit for attending the annual meeting. In order to enable all those involved in the research and treatment of immune-mediated diseases to participate in the exchange of ideas that contribute to the forward motion of the field, FOCIS will not offer CME credit for FOCIS 2017. Certificates of attendance will be available upon request.

EXHIBIT HALL HOURS:

Located in Stevens Salon A (lower level)
Wednesday, June 14 4:00 pm – 7:45 pm
Thursday, June 15 8:00 am – 7:00 pm
Friday, June 16 8:00 am – 7:30 pm

POSTER HALL HOURS:

Located in Stevens Salon A (lower level)
Wednesday, June 14 4:00 pm – 7:45 pm
Thursday, June 15 8:00 am – 7:00 pm
Friday, June 16 8:00 am – 7:30 pm

POSTER SET-UP AND TAKE-DOWN HOURS:

Wednesday, June 14 Set-up: 12:00 pm – 12:45 pm

Take-down: 7:45 pm – 8:00 pm

Thursday, June 15 Set-up: 7:00 am – 8:00 am

Take-down: 7:00 pm – 7:15 pm

Friday, June 16 Set-up: 7:00 am – 8:00 am Take-down: 7:30 pm – 7:45 pm

REGISTRATION AND SPEAKER CHECK-IN HOURS:

Located in Normandie Lounge (2nd Floor)

Tuesday, June 13 1:00 pm – 5:00 pm

*FOCISed Course Registration Located on 3rd Floor

(7:00 am – 12:00 pm) - Williford Foyer

Wednesday, June 14 7:00 am – 5:00 pm Thursday, June 15 7:00 am – 5:00 pm Friday, June 16 7:00 am – 5:00 pm

SPEAKERS:

Speakers are asked to report to the speaker check-in area located at the Registration Desk (Normandie Lounge, 2nd Floor) of the Hilton Chicago Hotel at least 24 hours prior to the start of their session.

PHOTOGRAPHY POLICY:

Please refrain from photography in the sessions and poster hall.

RELEASE:

Registration and attendance at, or participation in, FOCIS meetings and other activities constitutes an agreement by the registrant to FOCIS' use and distribution (both now and in the future) of the registrant or attendee's image or voice in photographs, videotapes, electronic reproductions and audio tapes of such events and activities.

You're Invited to join FOCIS





Member Perks at FOCIS 2017

Grow your network

Member Lounge

Normandie Lounge open daily during FOCIS 2017 Work, relax and mingle

Member Reception

Kitty O'Sheas

Thursday, June 15, 7:00 - 8:00 p.m.

Join FOCIS at the Registration Desk







Tuesday, June 13

7:00 am - 12:00 pm

FOCISed Course Registration Open

Williford ABC Foyer (3rd Floor)

8:00 am - 5:15 pm

Basic Immunology in Medicine: Update 2017

(separate registration required) Williford A (3rd Floor)

7:30 gm - 4:30 pm

Computational Immunology Course

(separate registration required) Williford C (3rd Floor)

1:00 pm - 5:00 pm

Registration Desk Open

Normandie Lounge (2nd Floor)



7:00 gm - 5:00 pm

Registration Desk Open

Normandie Lounge (2nd Floor)

7:30 am - 5:00 pm

Cancer Immunity and **Immunotherapy Course**

(separate registration required) **Stevens Salon A-5** (lower level)

Member Society Symposia

(included in FOCIS 2017 registration)

8:00 am - 10:00 am

IL-1b in Health and Disease

Organized by the Canadian Society

for Immunology (CSI)

Stevens Salon A-1 (lower level)

8:00 am Overview on IL-1beta in Health and

Autoinflammatory Disease Kelly Brown, PhD, University of

British Columbia

8:30 am Clinical Phenotypes of

> **Autoinflammatory Diseases** Rosie Scuccimarri, MD, McGill

University

9:00 am Regulation of Inflammation During Ontogeny

Pascal Lavoie, MD, PhD, University

of British Columbia

Inflammasomes and Cell Death Pathways in 9:30 am

Inflammatory Diseases and Cancer

Maya Saleh, PhD, McGill University

8:00 am - 12:00 pm

Cytokines and Interferons in Basic and Clinical

Immunology: Reports from the ICIS

Organized by the International Cytokine and Interferon Society

Stevens Salon A-2 (lower level)



8:00 am

8:10 am

8:35 am

9:00 am

9:25 am

10:00 am

10:30 am

10:55 am

11:20 am

Welcome and Introductions

Necrotizing Enterocolitis

Autoimmune Disease

Northwestern University

in Multiple Sclerosis

of Health

Coffee Break

at Birminaham

Foundation

11:45 am Closing Remarks

8:00 am - 12:00 pm

Clinical Development of Cancer

Chemokine Receptors and T Cells

Immuno-therapeutics Targeting

Loop Involving IL-24, and Limits

Leonidas C. Platanias, MD, PhD,

Complexes on Human Cells

Curt M. Horvath, PhD, Northwestern University

Kouji Matsushima, MD, PhD, University of Tokyo

The Pro-Inflammatory Cytokine Response in

Misty Good, MD, MS, Washington University

IL-17A Controls Expression of IL-17 Lineage

Cytokines through a Negative Feedback

Rachel R. Caspi, PhD, National Institutes

Description of the IFN Receptor Pathway

Signaling and Its Relevance to Cancer

Highly Disregulated Type I IFN System

Anthony T. Reder, University of Chicago

Specific Detection of IFNa and IFNB Signaling

Mark R. Walter, PhD, University of Alabama

Negative Regulation of Type I IFN Signaling

by Phosphorylation of STAT2 on T387 Yuxin Wang, PhD, Cleveland Clinic









and Allergology (SIICA)

Monitorina Immunotherapy in Cancer

Immunology, Clinical Immunology Stevens Salon C-1 (lower level)

Organized by the Italian Society of

Immune Monitoring in Cancer: 8:00 am

What Did We Learn from Animal Models? Gilberto Filaci, PhD, Universitá deali Studi

di Genova

9:00 am How Easy Can We Detect Markers of Immune

Response in Cancer? A Single Center **Experience in NSLC Patients Undergoing** Therapy with Anti-immune Checkpoint Drugs

Raffaele De Palma, MD, PhD, Second

University of Naples

10:00 am 28-Color, 30-Parameter Flow Cytometry to Dissect the Complex Heterogeneity of Tumor

Infiltrating Lymphocytes in Human Cancer

Enrico Lugli, PhD, Humanitas

11:00 am **Effectively Rendering Functional Single Cell**

Immune Monitoring Assays Ready for Use

in Clinical Trials

Sylvia Janetzki, MD, ZellNet Consulting



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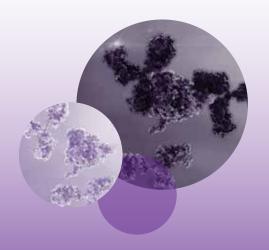
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- 20:40 Serum to Beads ratio option
- A new blocker added to LSA II to reduce background reactivity

CONTACT YOUR IMMUCOR REPRESENTATIVE TODAY AND SCHEDULE AN EVALUATION.





Wednesday, June 14 (continued)

8:00 am - 12:00 pm

Translational Immunology at the NIH: A Look at the Future Organized by the National Institutes of Health Immunology Interest Group (IIG)



Stevens Salon C-2 (lower level)

8:00 am The Coming of Age of JAK Inhibitors: From Targets to Treatments Massimo Gadina, PhD, National Institutes of Health

8:30 am An Immunodeficiency and Autoimmunity
Disease Caused by Mutations in BACH2
Behdad Afzali, PhD, National Institutes
of Health

9:00 am Altered Dendritic Cell Function in Autoimmune Diabetes

Kristin Tarbell, PhD, National Institutes of Health

9:30 am

IL-18 at the Intersection of Autoand Hyper-inflammation

Scott Canna, MD, National Institutes
of Health

10:00 am Coffee Break

10:15 am Primary Biliary Cholangitis: The Dark Side of Interferon-gamma
Howard Young, PhD, National Institutes of Health

10:45 am Application of Heterodimeric IL-15 Cytokine in Cancer Immunotherapy
Cristina Bergamaschi, PhD, National
Cancer Institute

11:15 am The Y_c Family of Cytokines:
Immunodeficiency, STAT Tetramerization,
and the Fine-tuning of Cytokine Signals
Warren Leonard, MD, National Institutes
of Health

The AMP RA/Lupus Network: Deconstructing RA and SLE Through Single Cell Analysis Organized by the Accelerating Medicines Partnership (AMP)



Stevens Salon C-3 (lower level)

8:00 am Approach and Goals of the RA/Lupus Network

Michael Brenner, MD, Brigham and Women's Hospital

8:15 am Developing Standard Operating Procedures for RA Target Tissue Processing and Analysis Across the Network

Deepak Rao, MD, PhD, Brigham and

Women's Hospital

8:30 am Patient Selection for RA Phase 1 and Synovial Biopsy Program

Jennifer Anolik, MD, PhD, University

of Rochester

8:50 am CyTOF as an Approach for Deconvolution of Immune Cell Infiltrates in the Synovium and Blood

Jim Lederer, PhD, Brigham and Women's Hospital

9:10 am Insights into RA Pathogenesis from Single Cell Transcriptomics of Synovial Tissue

Kamil Slowikowski, Harvard University

9:40 am
Integrating Immune Insights Learned from
Phase 1 and Anticipating Technical and
Clinical Approaches for RA AMP Phase 2
Michael Brenner, MD, Brigham and

Women's Hospital

10:00 am Coffee Break

10:15 am Developing Standard Operating Procedures for SLE Target Tissue Processing and Analysis Across the Network

Celine Berthier PhD, University of Michigan

10:30 am Patient Selection and Characteristics for SLE Phase 1

Jill Buyon MD, New York University

10:45 am Insights from Comparison of the Renal and

Skin Single Cell Transcriptome in SLEJill Buyon MD, New York University
Tom Tuschl, PhD, Rockefeller University

11:15 am Cellular and Molecular Heterogeneity in Lupus Nephritis

Arnon Arazi, PhD, Broad Institute

11:45 am Integrating Immune Insights Learned from Phase 1 and Anticipating Technical and Clinical Approaches for SLE AMP Phase 2 Deepak Rao, MD, PhD, Brigham and

Women's Hospital

8:00 am - 12:00 pm

Exosomes and Cross-presentation in Transplantation

Organized by the American Society for Transplantation, The Transplantation Society, and American Society for Histocompatibility and Immunogenetics Stevens Salon C-4 (lower level)





8:00 am Apoptosis in Exosome Generation
Marie Josée Herbert, PhD, University

of Montreal

8:30 am Transfer of Donor Exosomes: A Novel System to Promote Allo-reactivity in Transplantation

Adrian Morelli, MD, PhD, University of Pittsburgh

9:00 am Tissue Specific Exosomes as Biomarkers

Prashanth Vallabhajosyula, MD, University of Pennsylvania

Francis Des Client in Land of T

9:30 am Exosomal Profiling in Lung Transplantation
Thalachallour Mohanakumar, PhD, St. Joseph's

Hospital and Medical Center

The Lupus Research Alliance presents the

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Special thanks to:



The Lupus Research Alliance unites the global lupus community in bold determination to free the world of lupus through the power of science.

We will transform the lives of people affected by lupus as we welcome and embrace a new scientific era, pioneer innovation, push the frontiers of knowledge, enlist diverse new scientific talent, and lead the drive to new treatments, prevention and cure.



Wednesday, June 14 (continued) 12:00 pm – 2:00 pm FOCIS Centers of Excellence Fusion: Careers. Collaboration. Connection.		2:25 pm	Multimodal Non-invasive for Quantitative Assessment of Inflammation in Animal Models		
			of Uveitis Kathryn Pepple, MD, PhD, University of Washington		
(Invitation (2:50 pm	Coffee Break		
Boulevard AB (2nd Floor) 12:45 pm – 4:45 pm Type I Interferon Pathogenic Mediator and		3:20 pm	Chasing Immune Cells in the Eye: From Mouse to Man Colin Chu, PhD, University of Bristol		
of Rheumo	American College of Rheumatology (ACR) of Rheumatology (alon A-1 (lower level)	3:45 pm	Therapeutic Targeting of Pathogenic Lymphocytes that Mediate Uveitis Charles Egwuagu, PhD, MPH, National Institutes of Health		
12:45 pm	Plasmacytoid Dendritic Cells – Regulation and Role in Autoimmune Disease Pathogenesis Boris V. Reizis, PhD, Columbia University	4:10 pm	Predicting the Future of Uveitis Treatment: Top Targets and Therapies on the Horizon Phoebe Lin, MD, PhD, Casey Eye Institute		
1:30 pm	Immune Dysfunction and Tissue Pathology Mediated by Type I Interferon: Studies in	4:45 pm	Panel Discussion		
	Murine Lupus Models Dwight H. Kono, MD, The Scripps Research Institute	12:45 pm – 4:45 pm Molecular Signatures: Providing Clues for Manage			
2:15 pm	Type I Interferon in the Immunopathogenesis of Chronic Virus Infection David G. Brooks, PhD, University of California, Los Angeles	and Canc Organized Laborator American	and Therapy in Transplantation, Autoimmune Disease and Cancer Organized by the Association of Medical Laboratory Immunologists (AMLI) and the American Society for Histocompatability		
3:00 pm	Coffee Break		unogenetics (ASHI) alon C-1 (lower level)		
3:30 pm	Type I Interferons in Inflammatory Myopathies Steven A. Greenberg, MD, Brigham and Women's Hospital	12:45 pm	Introduction Barbara Detrick, PhD, Johns Hopkins University		
4:15 pm	Opportunities for Therapeutic Targeting of Type I Interferon	12:55 pm	Biomarkers of Transplant Injury Elaine Reed, PhD, University of California, Los Angeles		
for Immun	A Animal Models and Pre-clinical Targets e Mediated Uveitis by the American AMERICAN O LIVETTIS SOCIETY	1:30 pm	Gene Expression Profiling of the Tumor Microenvironment as a Biomarker for Anti-tumor Immunity Thomas F. Gajewski, MD, PhD, University of Chicago		
	alon A-2 (lower level)	2:05 pm	New Molecular Markers for Type 1 Diabetes Martin J. Hessner, PhD, Medical College		
12:45 pm	Introduction and Welcome		of Wisconsin		
12:50 pm	Mirroring the Clinical and Immunological Complexity of Autoimmune Uveitis in Animal Models	2:40 pm	Antibodies and Graft Injury Chris Wiebe, MD, University of Manitoba		
	Rachel Caspi, PhD, National Institutes of Health	3:15 pm	Coffee Break		
1:15 pm	The Role for PD-1 in Experimental Autoimmune Uveitis Lynn Gordon, MD, PhD, University of California,	3:30 pm	Dendritic Cell Based Immunotherapy in Cancer Willie Hildebrand, PhD, University of Oklahoma		
	Los Angeles	4:05 pm	Strategies for Therapy in SLE and RA Based		
1:40 pm	Dysregulation of Innate Pathways in Ocular Autoimmunity Holly Rosenzweig, PhD, Oregon Health and Science University	on Laboratory Evaluation of the Interferons Timothy B. Niewold, MD, Mayo Clinic 12:45pm – 3:30 pm Immune Cells as Therapies			
2:05 pm	Ontogeny and Characterization of Eye Macrophages in Health and Disease Daniel Saban, PhD, Duke University	Immune Cells as Therapies Organized by the American Society for Blood and Marrow Transplantation (ASBMT) and the Center for International Blood and Marrow Transplant Research (CIBMTR) Stevens Salon C-2 (lower level)			





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Wednesday, June 14 (continued)

12:45 pm Introduction

Marcela Maus, MD, PhD, Massachusetts

General Hospital

Update on CD19 CART Cells in B Cell 1:00 pm

Malianancies

Stephen Grupp, MD, PhD, Children's Hospital

of Philadelphia

CAR T Cells in Non-B Cell Hematologic 1:30 pm

Malianancies

Marcela Maus, MD, PhD, Massachusetts

General Hospital

CAR T Cells in Solid Tumors 2:00 pm

Prasad Adusumilli, MD, Memorial Sloan

Kettering Cancer Center

Managing Complications of CAR 2:30 pm

T Cell Therapies

Sarah Nikiforow, MD, PhD, Dana Farber

Cancer Institute

3:00 pm **Panel Discussion**

12:45pm - 4:45 pm

Insights into the Immunology of Chronic Fatique Syndrome

Organized by the Division of Allergy, Immunology & Transplantation, National Institute of Alleray and Infectious Diseases, National Institutes of Health Stevens Salon C-3 (lower level)



Welcome and Objectives 12:45 pm

> Joseph Breen, PhD, National Institutes of Health and Vicky Whittemore, PhD, National Institute

of Neurological Disorders and Stroke

The Public Health Problem of ME/CFS 12:50 pm

Elizabeth Unger, MD, Centers for Disease

Control and Prevention

Evidence of T Cell Activity in ME/CFS 1:15 pm

Mark Davis, PhD, Stanford University

Immunological Characterization of 1:45 pm

ME/CFS Cases and Controls from the

UK ME/CFS Biobank

Eleanor Riley, PhD, University of London

2:35 pm Coffee Break

2:55 pm Pathobiology of ME/CFS

Ian Lipkin, MD, Columbia University

Circulating Cytokine Signatures Associated 3:35 pm

with ME/CFS Severity and Duration

Jose Montoya, MD, Stanford University

Question/Answer Forum 4:15 pm

5:30 pm - 6:15pm

Opening Keynote Address: Tracking the Fate of Natural Killer Cells During Viral Infection

Lewis Lanier, PhD, University of California, San Francisco Grand Ballroom (2nd Floor)

Chair: Jeffrey Bluestone, PhD, University of California,

San Francisco

6:15 pm - 7:45 pm

Opening Reception

Stevens Salon A (lower level)

Network with attendees while visiting exhibits and posters with authors present. Complimentary light hors d'oeuvres and wine served.

Thursday, June 15

7:00 am - 5:00 pm

Registration Desk Open

Normandie Lounge (2nd Floor)

8:00 am - 5:45 pm

Posters Available for Viewing (authors optional)

Stevens Salon A (lower level)

8:00 am - 9:30 am

T Cell Subsets and Their Responses to Pathogens and Autoantigens

Grand Ballroom (2nd Floor)

Chair: Elaine Reed, PhD, University of California,

Los Angeles

8:00 am Aneray Induction in Self-reactive CD4 T-Cells

Generates FoxP3+ Treg Progenitors

Daniel Mueller, MD, University of Minnesota

T Cell and Innate Subsets in Chronic Immune 8:30 am

Mediated Disease

Vijay Kuchroo, PhD, Brigham and Women's Hospital

Is Narcolepsy an Autoimmune Disease? 9:00 am

Federica Sallusto, MD, Institute for Research

in Biomedicine

9:30 am - 10:00 am

Networking Break

Stevens Salon A (lower level)

10:00 am - 11:30 am

Fueling the Immune Response

Grand Ballroom (2nd Floor)

Chair: Angela Colmone, PhD, Science Immunology

Understanding the Crosstalk Between Lipid 10:00 am

Metabolism and Innate Immunity

Steven Bensinger, MD, PhD, University

of California, Los Angeles

Fueling T Cell in Immunity 10:30 am

Jeff Rathmell, PhD, Vanderbilt University

Immunometabolism of Regulatory T Cells 11:00 am

Laurence Turka, MD, Harvard University

11:30 am - 1:00 pm

Lunch Break

Delegates on their own for lunch

11:45 am - 1:00 pm

Biolegend Industry Workshop

Stevens Salon A-1 (lower level)

Beckman Coulter Industry Workshop

Stevens Salon A-5 (lower level)



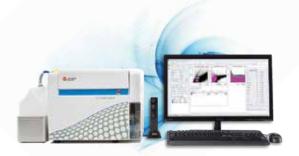


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Thursday, June 15 (continued)

11:45 am - 1:00 pm

Lupus Insight Prize Award Presented by the Lupus Research Alliance **Boulevard AB** (2nd Floor)



1:00 pm - 2:45 pm

Strategies for Antigen Specific Tolerance

Stevens Salon A-1 (lower level)

Chair: Daniel Rotrosen, MD, National Institutes of Health

Next Generation Regulatory T Cell Therapy

Megan Levings, PhD, University of

British Columbia

1:25 pm **Abstract Presentation: Transient Antibody**

> Targeting of CD45RC Induces Transplantation Tolerance and Potent Donor Antigen-specific

Regulatory Cells (Poster # T.83)

Ignacio Anegon, MD, Nantes University

1:40 pm Antigen-based Immunotherapy for

Type 1 Diabetes

Mark Peakman, PhD, King's College London

Abstract Presentation: The Effects of Oral 2:05 pm

Insulin in Individuals at Risk of Type 1 Diabetes:

A TrialNet Randomized Clinical Trial

(Poster # T.68)

Carla Greenbaum, MD, Benaroya

Research Institute

2:20 pm Antigen-specific Tolerance in Allergic Disease

Mark Larche, PhD, McMaster University

1:00 pm - 2:45 pm

Macrophage Subsets in Normal and Abnormal Human **Immune Function**

Stevens Salon A-2 (lower level)

Chair: Tim Niewold, MD, Mayo Clinic

1:00 pm Macrophages in Tissue Repair, Regeneration,

and Fibrosis

Thomas A. Wynn, PhD, National Institute of

Allergy and Infectious Diseases

Abstract Presentation: Hematoma-infiltrating 1:25 pm

> Macrophages Transition from Inflammatory to Reparative Programs in Intracerebral

Hemorrage Patients (Poster # T.58) Michael Askenase, PhD, Yale University

Modulation of Innate Immune Receptor 1:40 pm

Outcomes in Human Disease

Clara Abraham, MD, Yale University

Abstract Presentation: Cross-talk Between 2:05 pm

MS Disease-relevant B Cell Subsets and Microglia/macrophage: Implication in MS Disease Progression (Poster # T.4)

Hanane Touil, PhD, McGill University

Epigenetics of Tissue Resident Macrophages 2:20 pm

in Health and Disease

Christopher Glass, MD, PhD, University

of California, San Diego

1:00 pm - 2:45 pm

Microbiome/Immune Interactions

Stevens Salon A-5 (lower level)

Chair: Alexander Chervonsky, MD, PhD, University

of Chicago

1:00 pm Microbiota and Cancer

Laurence Zitvogel, MD, PhD, Institut

Gustave Roussy

Abstract Presentation: A Human Gut 1:25 pm

> Commensal as a Cross-reactive Triager of Autoantigen-specific CD4+ Memory T Cells in Antiphospholipid Syndrome (Poster # T.28)

Carina Dehner, MD, Yale University

1:40 pm Influence of Microbial Metabolites

on Disease Pathogenesis

Thaddeus Stappenbeck, MD, PhD,

Washington University

2:05 pm **Abstract Presentation: Bacterial Dysbiosis**

> Associates with Functional Intraepithelial Lymphocyte Changes in Inflammatory Bowel Disease and Spondyloarthritis (Poster # T.29) Neha Ohri, MD, MS, Mount Sinai Hospital

Regulation of Allergic Responses to Food 2:20 pm

by Commensal Bacteria

Cathryn Nagler, PhD, University of Chicago

2:45 pm - 3:00 pm

Networking Break

Stevens Salon A (lower level)

3:00 pm - 4:45 pm

Oral Abstract Sessions

Environmental Effects on the Immune System

Stevens Salon A-1 (lower level)

Chair: James Lord, MD, PhD, Benaroya Research Institute

Metabolite Regulation of Human T Cell 3:00 pm

Immunity (Poster # T.45)

Maria Matias, MSc, University of Montpellier

3:13 pm Molecular and Cellular Mechanisms for

B Cell Defects in Elderly and Obese Subjects

(Poster # T.49)

Bonnie Blomberg, PhD, University of Miami,

James Lord, MD, PhD, Benaroya

Research Institute

Aging of Adaptive Immunity Driven by 3:26 pm

Chronic Antigen Exposition has a Major Impact on the Course of Regenerative Processes Which are Overlooked in Our Commonly Used Mouse Models (Poster # T.50)

Hans-Dieter Volk, Charité University

Comparison of IgA+ Plasma Cells in the 3:39 pm

Intestinal Mucosa Compartment Versus the Periphery in a Healthy Kenyan Cohort

(Poster # T.46)

Tian Sun, University of Toronto

Autophagic Memory in Stress Experienced 3:52 pm

Human T Cells (Poster # T.27)

Pavanish Kumar, PhD, SingHealth Translational

Immunology and Inflammation Centre



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Thursday, June 15 (continued) 3:00 pm - 4:45 pm 4:05 pm Distinct Role of Estrogen Receptor a Agonist Therapeutic Immunomodulation and Antagonist on Urinary Tract Infection Stevens Salon A-5 (lower level) Outcome in Bladder Versus Kidnev Chairs: Amit Bar-Or, MD, University of Pennsylvania (Poster # T.44) 3:00 pm Modulating IL-6/STAT3 Signaling Pathway Ayantika Sen, MS, Oklahoma State University for Multiple Sclerosis Therapy (Poster # T.4) Gut-derived TNF as Risk Factor for the 4:18 pm Saba Agel, BS, Ohio State University **Development of Sacroiliac Inflammation** 3:15 pm Interleukin-34, a New and Potent Regulatory (Poster # T.18) Cytokine Involved in Treg Function and Karlijn Debusschere, DVM, Ghent University Transplant Tolerance (Poster # T.88) Tolerance Induction by Teplizumab is 4:31 pm Carole Guillonneau, PhD, Nantes University Modulated by Gut Microbiota (Poster # T.32) Selective Expansion of PD-1+TIGIT+ CD4 T Cells 3:30 pm Elke Gulden, PhD, Yale University Following Depletion of CD2high Cells with Alefacept in Recent Onset T1D (Poster # T.74) 3:00 pm - 4:45 pm Duangchan Suwannasaen, PhD, Benaroya Cellular Mechanisms in Autoimmunity Research Institute Stevens Salon A-2 (lower level) Chair: Jonathan Maltzman, MD, PhD, Stanford University Perturbations within the T Cell Immunome 3:45 pm in Polyarticular Juvenile Idiopathic Arthritis 3:00 pm The Paracaspase MALT1 Plays a Central Role Patients Who Relapse Upon Withdrawal in the Pathogenesis of Rheumatoid Arthritis of Biologic Therapy (Poster # T.26) (Poster # T.16) Jing Yao Leong, PhD, Singapore Health Elisabeth Gilis, MSc, Ghent University Services Pte Ltd **Unaffected Relatives of Systemic Lupus** 3:13 pm 4:00 pm Complement C1q Limits Osteoarthritis Erythematosus (SLE) Patients are Discerned Pathology by Regulating Macrophage by Soluble Mediators, Autoantibodies, and Activation (Poster # T.25) **Connective Tissue Disease Questionnaire** Bryan Cannon, MSc, Stanford University Scores from SLE Patients and Controls in a Confirmatory Cohort (Poster # T.37) 4:15 pm Initial Data from a Phase 2 Multiple Ascending Melissa Monroe, MD, PhD, Oklahoma Medical Dose Clinical Trial of SEL-212 Indicates That Research Foundation the Addition of Tolerogenic Nanoparticles to **Pegylated Uricase Enables Sustained Control B Cell Specific TLR9 Modulates Disease** 3:26 pm of Serum Uric Acid in Symptomatic Gout in Murine Lupus (Poster # T.20) Patients (Poster # T.65) Jeremy Tilstra, MD, PhD, University of Pittsburgh Earl Sands, MD, Selecta Biosciences Role and Regulation of CD11chi T-bet+ B Cells 3:39 pm T Cell Immunotherapies Trigger Innate 4:30 pm in SLE (Poster # T.41) Immunity and Aseptic Inflammation Leading Shu Wana, Medimmune LLC to Potent Anti-tumor and Off-targets Effects 3:52 pm Myositis from Mouse to Man: New Insight (Poster # T.53) from a Unique Experimental Paradigm Daniel Hirschhorn Cymerman, PhD, Memorial (Poster # T.19) Sloan Kettering Cancer Center Olivier Boyer, Inserm U1234 3:00 pm - 5:00 pm T Cell Recognition of Hybrid Insulin Peptides 4:05 pm Principles of Flow Cytometry for Immune Monitoring Course in Human Subjects with Type 1 Diabetes **Boulevard AB** (2nd Floor) (Poster # T.78) Co-Sponsored by NIAID's Development of Sample David Arribas-Layton, MS, Benaroya Sparking Assays Program Research Institute Panel Discussion: Standard Guidelines for Flow **Broad Repertoire of Autoreactive T Cells** Cytometry Gating 4:18 pm from the Islets of Donors with Type 1 Diabetes Panelists: Janet Staats, BS, Duke University (Poster # T.79) Anagha Divekar, PhD, Biolegend, Inc. J. Philip McCoy, PhD, National Institutes of Health Sally Kent, PhD, University of Massachusetts Holden Maecker, PhD, Stanford University Identification and Functional Characterization 4:31 pm of T Cell Reactive to Citrullinated Tenascin-C 5:00 pm - 5:05 pm in HLA-DRB1*0401-Positive Rheumatoid Arthritis

Presentation of the FCE Fusion Award

Grand Ballroom (2nd Floor)

Megan Levings, PhD, University of British Columbia

Patients (Poster # T.17)

Jing Song, Benaroya Research Institute



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Thursday, June 15 (continued)

5:05 pm - 5:10 pm

Presentation of the C. Garrison Fathman Fellows Fund Trainee Travel Award

Grand Ballroom (2nd Floor)

Megan Levings, PhD, University of British Columbia

5:00 pm - 5:55 pm

Keynote Address: Dissecting the Tumor Ecosystem with Single Cell Genomics

Aviv Regev, PhD, Broad Institute Grand Ballroom (2nd Floor)

Chair: Maria-Grazia Roncarolo, MD, Stanford University

5:55 pm - 7:00 pm

Exhibits and Poster Reception

Stevens Salon A (lower level)

Network with attendees while visiting exhibits and posters with authors present. Complimentary light hors d'oeuvres and wine served.

7:00 pm - 8:00 pm

FOCIS Member Reception (FOCIS members only)

Kitty O'Sheas (lobby level)

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Congratulations! Elisabeth Gilis, Ghent University

Winner of the fifth annual C. Garrison Fathman Fellows Fund Trainee Travel Award!

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Friday, June 16

7:00 am – 5:00 pm

Registration Open

Normandie Lounge (2nd Floor)

7:30 am - 6:15 pm

Posters Available for Viewing

(authors optional)

Stevens Salon A (lower level)

8:00 am - 9:30 am

Cancer Immunotherapy: Have We Reached a Checkpoint or the End?

Grand Ballroom (2nd Floor)

Chair: Arlene Sharpe, MD, PhD, Harvard University

8:00 am Anti-PD-1 in Cancer Immunotherapy: State of the Art and What Lies Ahead

Suzanne Topalian, MD, Johns Hopkins University

8:30 am Immune Checkpoint Blockade in Cancer

Therapy: New Insights and Opportunities

James Allison, PhD, MD Anderson

Cancer Center

9:00 am Measuring the T-Cell Repertoire in Checkpoint

Inhibitor-induced Cancer Regression

Drew Pardoll, MD, PhD, Johns

Hopkins University

9:30 am - 10:00 am

Networking Break

Stevens Salon A (lower level)

9:55 am - 10:00 am

Scientific Program Committee Awards Presentation

Grand Ballroom (2nd Floor)

10:00 pm - 11:30 pm

Genomics in Health and Disease

Grand Ballroom (2nd floor)

Chair: Ignacio Anegon, MD, Nantes University

10:00 am Identification of New Syndromic Forms

of Severe Combined Immune Deficiency Luigi Notarangelo, MD, National Institutes

of Health

10:30 am Genomic Analyses of Primary

Immunodeficiencies Yield Precision

Medicine Treatments

Michael J. Lenardo, MD, National Institute

of Allergy and Infectious Disease

11:00 am Genetic and Genomic Approaches

to Asthma Gene Discovery

Carole Ober, PhD, University of Chicago

11:30 gm - 1:00 pm

Lunch Break

Delegates on their own for lunch

11:45 am - 1:00 pm Lunch Programs

NIH Grant Applications: Common Pitfalls and Tips for Writing Successful Applications

Stevens Salon A-1 (lower level)

Rising Stars Showcase Symposium

Stevens Salon A-5 (lower level)

Chairs: Angela Colmone, PhD, Science Immunology and

Priscilla Kelly, PhD, Science

11:45 am The Role of Batf3 DC in the Recruitment of

Tumor-specific Effector T Cells

Stefani Spranger, PhD, Massachusetts Institute

of Technology

12:00 pm Human CD8+CD45RClowFoxp3+ Tregs with

High Tolerogenic Activity in Humanized Mice

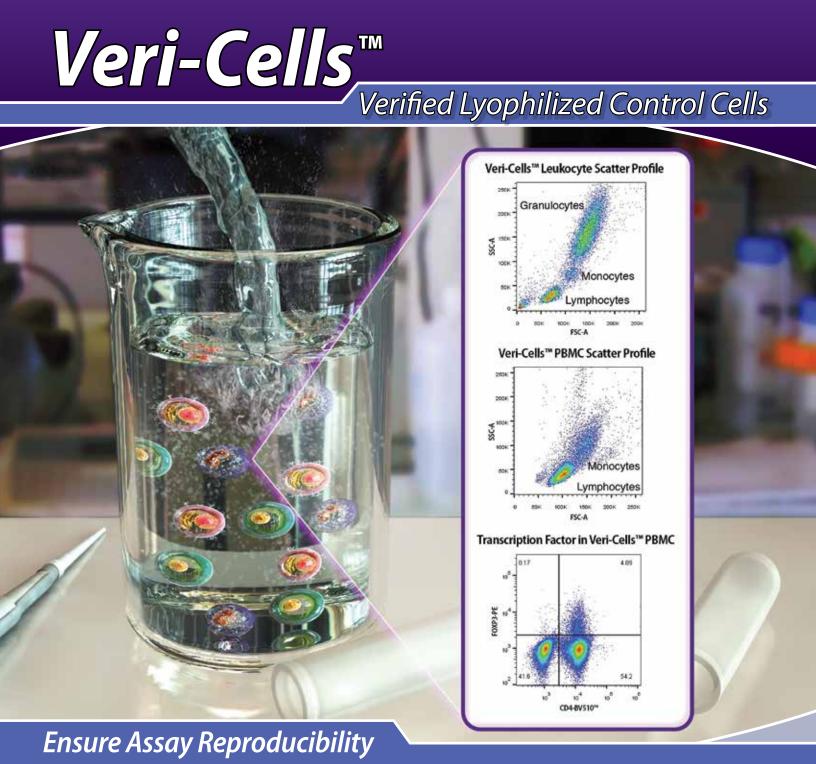
and Defined Alloantigen Specificity

Carole Guillonneau, PhD, Université de Nantes

12:15 pm IL-33 and ST2: Therapeutic Targets and

Emerging Biomarkers in Solid Organ and Bone Marrow Transplantation

Heth Turnquist, PhD, University of Pittsburgh



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	SCIENTIFIC PROGR	AW			
Friday,	June 16 (continued) Massively Multiplexed Single Cell Analysis	1:00 pm	Assessing the Engines of Affinity Maturation to Vaccines: Germinal Centers and Tfh Cells Shane Crotty, PhD, La Jolla Institute for		
	in Human Immune Homeostasis Seth Bendall, PhD, Stanford University	1:25 pm	Allergy and immunology Abstract Presentation: Adenosine DeAminase		
Stevens Sc	s Immune Targets alon A-1 (lower level)		(ADA) as an Adjuvant Molecule for Human HIV-1 Vaccine (Poster # F.55) Virginie Tardif, Drexel University		
Chair: Med	n Sykes, MD, Columbia University nvironmental Effects on Immunity and	1:40 pm	Dissecting in Situ Adaptive Cell Networks in Human Inflammation		
	Asthma and Atopy Risk: Lessons from Amish and Hutterite Farm Children Anne Sperling, PhD, University of Chicago	2:05 pm	Marcus Clark, MD, University of Chicago Abstract Presentation: Sequencing the		
1:25 pm	Abstract Presentation: Expression and Regulation of Amphiregulin in Human Regulatory T Cells (Poster # F.20) Avery Lam, PhD, University of British Columbia		Plasmablast Antibody Repertoire at Serial Time Points Reveals Affinity Maturation that Drives Epitope Spreading in Rheumatoid Arthritis (Poster # F.14) Serra Elliott, PhD, Stanford University		
1:40 pm	Neutrophils as Players and Therapeutic Targets in Systemic Autoimmunity Mariana Kaplan, MD, National Institute of Arthritis and Musculoskeletal and Skin Diseases	2:20 pm 2:45 pm –			
2:05 pm	Abstract Presentation: Increased Levels of Sputum Antibodies to a Subset of Citrullinated Peptide Antigens Correlate with Sputum Neutrophil Extracellular Trap Levels in Subjects	Networking Break Stevens Salon A (lower level) 3:15 pm – 5:15 pm Oral Abstract Sessions			
	At-risk for Future RA (Poster # F.11) Kristen Demoruelle, MD, University of Colorado	Stevens So	Immunology alon A-1 (lower level) iam Robinson, MD, PhD, Stanford University		
2:20 pm	Coincident Detection Mechanism in Tissue Repair Responses Carla Rothlin, PhD, Yale University	3:15 pm	The 10,000 Immunomes Project: A Data Resource of Human Immunology (Poster # F.27)		
	Epigenetic Control of Immune Responses		Kelly Zalocusky, PhD, University of California, San Francisco		
Stevens Salon A-2 (lower level) Chair: David A. Hafler, MD, Yale University 1:00 pm ATAC-ing Gene Regulatory Variation in		3:30 pm	Altered IL-2 and IL-7 Networks in T1D are Revealed Through Systems Analyses (Poster # F.77)		
1.00 pm	the Blood William Greenleaf, PhD, Stanford University	3:45 pm	S. Alice Long, PhD, Benaroya Research Institute Impact of Age, Sex and Genetics on		
1:25 pm	Abstract Presentation: Exhaustion-associated de Novo DNA Methylation Restrains PD-1 Blockade-Mediated T-Cell Rejuvenation (Poster # F.68)		Transcriptional Immune Responses to Bacterial, Viral and Fungal Challenges (Poster # F.35) Darragh Duffy, Institute Pasteur		
	Hazem Ghoneim, PhD, St. Jude Children's Research Hospital	4:00 pm	Low Natural Killer Cells Counts are Associated with Relapse After Imatinib Discontinuation in Chronic Myeloid Leukemia Patients:		
1:40 pm	Drivers and Targets of Immunity in Humans Nir Hacohen, PhD, Harvard University		The IMMUNOSTIM Study (Poster # F.65) Antoine Toubert, MD, PhD, Hôpital Saint-Louis		
2:05 pm	Abstract Presentation: Rapid Functional Characterization of Rare and Common Immune Variants (Poster # F.30) Theodore Roth, University of California, San Francisco	4:15 pm	Distinct Single Cell Gene Expression Signatures of Monocyte Subsets Differentiate Between TNF-alpha Inhibitor Treatment Response Groups in Rheumatoid Arthritis (Poster # F.9) Theresa Wampler Muskardin, MD, Mayo Clinic		
2:20 pm 1:00 pm - 2	Engineering Human T Cell Circuitry Alex Marson, MD, PhD, University of California, San Francisco 2:45 pm	4:30 pm	B Cell Subsets as Potential Biomarkers for Fingolimod Treatment in Multiple Sclerosis (Poster # F. TBD) Rui Li, MD, PhD, University of Pennsylvania		
Manipulati Germinal (Stevens Sc Chair: Terri	ing T Follicular Helper Cells and the Center Ilon A-5 (lower level) Laufer, MD, University of Pennsylvania	4:45 pm	Phosphatidylinositol 3-Kinase Delta Gain of Function (GOF) Mutations Cause Impaired B Cell Development and Function (Poster # F.60) Alisa Kane, PhD, Garvan Institute		
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	SCIENIIFIC PROGR	AW		
Friday, 5:00 pm	DOCK8 Deficient Germinal Center B Cells Rescued by a Vav-Bcl2 Transgene Undergo Affinity Maturation (Poster # F.57) Katrina Randall, MBBS, PhD, Australian	3:30 pm	Phenotypic and Functional Defects Underlie Ineffective Control of EBV in Patients with Distinct Primary Immunodeficiencies (Poster # F.56) Emily Edwards, Garvin Institute of Medical Research	
Stevens Sc	National University 5:15 pm ont of Immune Regulation alon A-2 (lower level) gan Sykes, MD, Columbia University	3:45 pm	The Epigenetic Landscape of T Cell Subsets in SLE Identifies Known and Potential Novel Drivers of the Autoimmune Response (Poster # F.8) Jozsef Karman, Syros Pharmaceuticals	
3:15 pm	3:15 pm Suppression of Regulatory T Cells by Exosomes in Multiple Sclerosis (Poster # F.1) Kimitoshi Kimura, MD, National Institute of Neuroscience		Enhancer Connectome in Primary Human T Cells Reveals Target Genes of Autoimmune Disease-associated DNA Elements (Poster # F.24)	
3:30 pm	Long Non-coding RNA and Methylome Profiles of Human Regulatory T Cells in Health and Disease (Poster # F.43) Laura Passerini, PhD, San Raffaele Hospital	4:15 pm	Ansuman Satpathy, Stanford University Enhancing Adoptive Cancer Immunotherapy with Vy2V22 T Cells through Pulse Zoledronate Stimulation (Poster # TBD)	
3:45 pm	Rebooting Autoimmunity after Autologous Hematopoietic Stem Cell Transplantation in Systemic Sclerosis Patients by Newly- generated Regulatory T- and B-Cells (Poster # F.18) Lucas Arruda, PharmD, MSc, University of São Paulo	4:30 pm	Craig Morita, University of Iowa Modulation of Cbl-b in CD8+ T Cells Induces IFN-y Dependent Resistance Against Regulatory T Cell Immune Suppression (Poster # F.63) Douglas Chung, Princess Margaret Hospital	
4:00 pm Distinct Alloimmune Stimulatory Profile of Monocyte-derived Dendritic Cells and CD40L-stimulated B Cells (Poster # F.80)		3:15 pm – 5:15 pm Principles of Flow Cytometry for Immune Monitoring Course Williford A (3rd Floor)		
	Linda Lee, PhD, University of California, San Francisco	3:15 pm	Curiox System for Luminex Phil McCoy, PhD, National Institutes of Health	
4:15 pm Tolerance Induction with Hematopoietic Stem Cell for Kidney Transplantation (Poster # F.45)		3:45 pm	High-throughput Assays of Antibody Specificity Ben Larman, PhD, Johns Hopkins University	
4:30 pm	Hyojun Park, Samsung Medical Center Designing the Next Generation of Chimeric Antigen Receptors for Regulatory T Cell	4:15 pm	Analysis of Transcriptomes with Immune Repertoire Steven Bosinger, PhD, Emory University	
	Therapy (Poster # F.74) Leonardo Ferreira, University of California, San Francisco	4:45 pm	A Miniaturized Whole Blood Cell Analysis System Holden Maecker, PhD, Stanford University	
4:45 pm	Generation of Powerful Human Tolerogenic Dendritic Cells by LV-mediated Human IL-10 Gene Transfer (Poster # F.47) Michela Comi, PhD, San Raffaele Hospital	5:30 pm – 5:40 pm State of FOCIS Grand Ballroom (2 nd Floor) Jeffrey Bluestone, PhD, University of California,		
5:00 pm	Permissive Epigenetic Marks at Regulatory T Cell Signature Genes in Fetal Naïve CD4+ T Cells Prime their Differentiation into Regulatory T Cells (Poster # F.70) Melissa Ng, University of California, San Francisco	San Franc 5:40 pm – Robert B. I Decoding Targeted I	6:25 pm Nussenblatt Presidential Lecture: Rules of Tissue Immunity for Immunotherapy	
3:15 pm - 5:15 pm		Frank Nestle, MD, Sanofi Chair: Kevan Herold, MD, Yale University		
Late Breaking Science Stevens Salon A-5 (lower level) Chair: Jordan Pober, MD, PhD, Yale University		6:25 pm – 7:30 pm Exhibits and Poster Reception Stevens Salon A (lower level)		
3:15 pm Identification of Unconventional		Network with attendees while visiting exhibits and posters		

Network with attendees while visiting exhibits and posters with authors present. Complimentary light hors d'oeuvres & wine served.

Immunosuppressive CD4+Foxp3-PD-1hi T Cells

Roberta Zappasodi, Memorial Sloan Kettering

as a Biomarker of Immune Checkpoint

Blockade Activity (Poster # F.64)

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		AW			
Saturd 8:00 am -	ay, June 17 9:30 am	2:05 pm	Abstract Presentation: Tissue-reservoirs of Anti-viral T Cell Immunity in Persistent Human CMV Infection		
Cell Signal			Michelle Miron, BA, Columbia University		
Grand Ballroom (2 nd Floor) Chair: Jordan Pober, MD, PhD, Yale University		2:20 pm	Human Circulating and Tissue-resident T Cells Donna Farber, PhD, Columbia University		
8:00 am	Regulating Basal and Inducible TCR Signaling Arthur Weiss, MD, PhD, University of California, San Francisco	g			
8:30 am	Cell Signaling Pathways Controlling HIV Infection and Latency Jonathan Karn, PhD, Case Western	Williford B			
9:00 am	Reserve University New Insights into B Cell Responses During Viral Infection	1:00 pm	A Defined Structure for the Immune System that Reflects Immune Surveillance and Mechanistic Processes		
	Facundo Batista, PhD, Massachusetts		Garry Nolan, PhD, Stanford University		
		1:25 pm	Abstract Presentation: Core Transcriptional and Functional Signatures Define Human Tissue-resident Memory T Cells in Lymphoid and Mucosal Sites Brahma Kumar, Columbia University		
Grand Ball Chair: Mar	imune Therapies Iroom (2 nd Floor) ia-Grazia Roncarolo, PhD, Stanford University	1:40 pm	Sequencing Antibody Repertoires to Decipher Pathogenic Mechanisms in Rheumatoid Arthritis William Robinson, MD, PhD, Stanford University		
10:00 am	Next-Gen T Cell-based Cancer Immunotherapies Nicholas Restifo, MD, National Institutes of Health	2:05 pm	Abstract Presentation: T Cell Library Assay Identified Functional ZnT8-specific Memory CD8+ T Cells in Patients with Type 1 Diabetes Hideki Ogura, Yale University		
10:30 am	Regulatory Cellular Therapy in Renal Transplantation: The Phase IIb TWO Study Fadi Issa, MRCS, MSc, DPhil, University of Oxford	2:20 pm	Single Cell Analysis of Inflammatory Central Nervous Disease David Hafler, MD, Yale University		
11:00 am	11:00 am Virus T Cells Post-transplant: Broadening Applicability Catherine M. Bollard, MD, Children's Research Institute		1:00pm – 2:45 pm Next Generation Cytokine Modulation, Effector Tregs Williford C (3rd Floor) Chair: Brian Kotzin, MD		
11:30 am - Lunch Bred Delegates		1:00 pm	Control of Effector Treg Maintenance and Function		
1:00 pm – : Tissue Resi	2:45 pm dent Immune Cells: Targets for		Daniel Campbell, PhD, Benaroya Research Institute		
Immune Th Williford A	(3 rd Floor)	1:25 pm	Abstract Presentation: IL-17A Dampens Autoimmune Disease by Inhibiting the Expression of IL-17 Lineage Cytokines through		
1:00 pm	Molecular Programming of Tissue-resident Lymphocytes Laura K. Mackay, PhD, University of Melbourne		a Negative Feedback Loop Involving IL-24 Wai Po Chong, National Institutes of Health		
1:25 pm	Abstract Presentation: Chemotaxis of Terminally Differentiated CD8+ Cells (Temra) to the Sites of Sterile Infection: IL8-Receptors as an Answer?	1:40 pm	Impact of IL-27 on Infection-induced Inflammatory Processes Christopher A. Hunter, PhD, University of Pennsylvania		
1:40 pm	Iuliia Kotko, Charite University Resident Memory T Cells in Peripheral Tissues Thomas Kupper, MD, Brigham and Women's Hospital	2:05 pm	Abstract Presentation: IL-2 Therapy Restores Regulatory T Cell Dysfunction Induced by Calcineurin Inhibitors Gavin Whitehouse, MD, King's College London		
24 FOCIS 26	217	2:20 pm	Genomic Views of Lymphocyte Activation and Differentiation John O'Shea, MD, National Institutes of Health		



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Greenleaf, William: EpiNomics (1, 4, 5)

Hacohen, Nir: Neon Therapeutics (1, 4, 5)

Hunter, Christopher: Janssen (1), Surface Oncology (1, 6)

Karman, Joszef: Syros Pharmaceuticals (2, 4)

Larche, Mark: Adiga Life Sciences (1, 6), Aravax Pty (1, 6), Circassia

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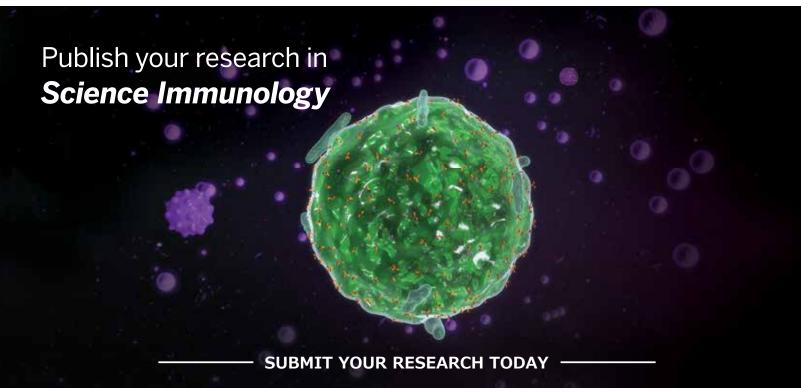
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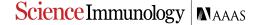
Turka, Laurence: Third Rock Ventures (2, 4)

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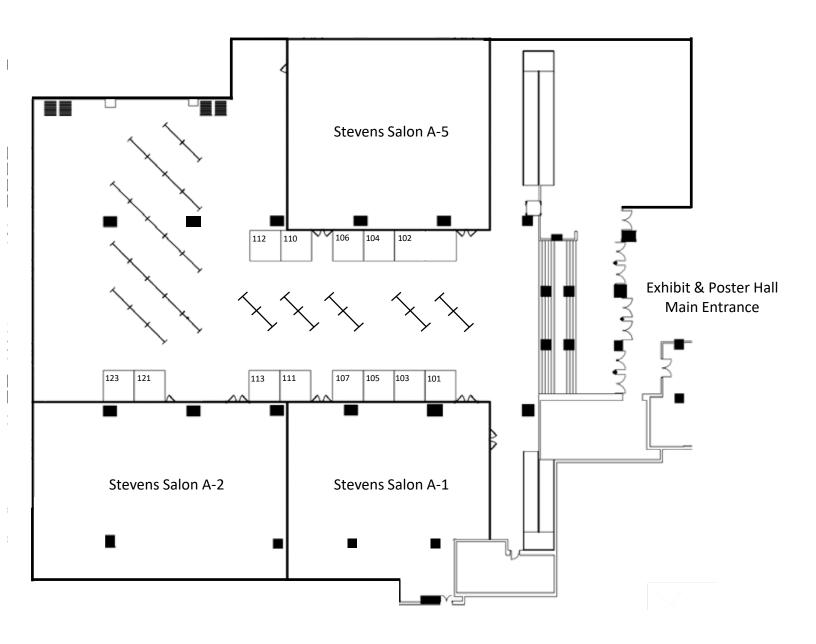
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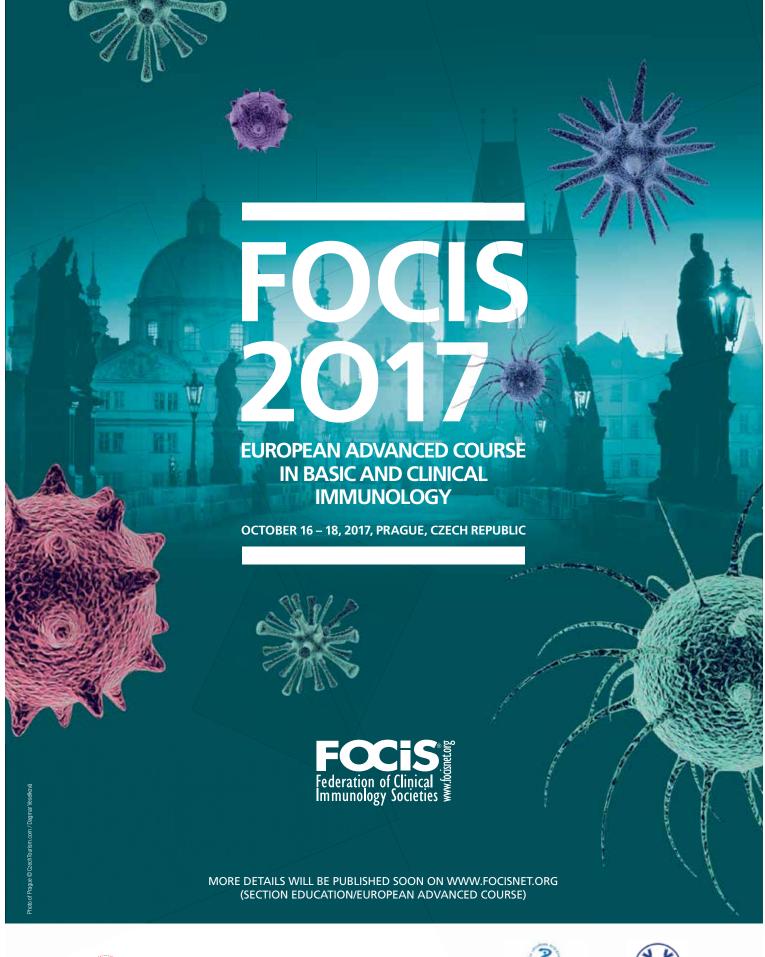




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