

June 18-21



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SCIENTIFIC PROGRAM



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Dear Colleagues,

Greetings and welcome to FOCIS's highly anticipated 24th annual meeting - the leading event in translational immunology! We are pleased to announce that we are expecting nearly 1,000 delegates this week, a testament to the unwavering popularity of this event.

The FOCIS 2024 Annual Meeting will showcase groundbreaking scientific achievements and current issues in translational immunology. The meeting will kick off with 12 Member Society symposia, many of which will focus on principles and applications of adaptive immunity. We are honored to have three highly respected keynote speakers this year: Dr. Robert Montgomery, NYU Langone Transplant Institute; Dr. Bana Jabri, University of Chicago; and Dr. Aviv Regev, Genentech, and I have the honor and privilege of presenting the Robert B. Nussenblatt Presidential Lecture. I eagerly anticipate the morning plenaries and the afternoon thematic and oral abstract sessions that will provide exceptional opportunities to explore pathologies across many diseases and research areas.

Our evening receptions provide unique opportunities to mingle and exchange ideas with poster presenters, exhibitors, and industry associates. With over 300 posters on display, FOCIS takes great pride in featuring the contributions of our colleagues from around the world, representing the diverse and interdisciplinary nature of immunology.

Please join me in thanking the Scientific Program Committee, session chairs, speakers, supporters, and exhibitors for this outstanding program. Together, they have created an ideal environment for collaboration, learning, and scientific advancement.

Thank you for joining us in San Francisco. Your presence is greatly appreciated as we continue to advance translational immunology through FOCIS.



Sincerely,

Megan Sykes, MD
Columbia University
FOCIS President



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Table of Contents

FOCIS 2024 Sponsors.....	Inside Front Cover
President Welcome Letter.....	3
Program Committee	4
General Information.....	5
Scientific Program	7-20
Exhibitors	22
Hotel Maps	23
Speaker Disclosures	26

FOCIS 2024 General Information

Evaluations

After the meeting, delegates will receive an email with a link to the meeting evaluation. The evaluations are also linked to the mobile app.

Wi-Fi

There is free, basic Wi-Fi access in the FOCIS meeting spaces. Please limit use to online browsing and email checking; downloading and uploading files is not permitted due to bandwidth constraints.

Network: FOCIS_2024

Password: immunology

Exhibit & Poster Hall Hours

Salon 9, Lower B2 Level

Tuesday, June 18	6:00 PM – 7:30 PM
Wednesday, June 19	7:30 AM – 7:30 PM
Thursday, June 20	7:30 AM – 7:45 PM

Member Lounge (FOCIS Members Only)

South Registration Desk Area, Lower B2 Level

FOCIS members enjoy a place to come and sit down, charge their phones and other electronics, enjoy handcrafted espresso drinks, and socialize with other members. Visit the Member Lounge anytime from 7:00 am to 4:00 pm Tuesday through Thursday and 7:00 am to 2:30 pm on Friday.

Poster Set-Up and Take-Down Hours

Salon 9, Lower B2 Level

Tuesday, June 18	Set up: 1:00 PM – 5:00 PM	Take down: 7:30 PM – 8:00 PM
Wednesday, June 19	Set up: 7:00 AM – 8:00 AM	Take down: 7:30 PM – 8:00 PM
Thursday, June 20	Set up: 7:00 AM – 8:00 AM	Take down: 7:45 PM – 8:15 PM

Registration and Speaker Check-In Hours

North Registration Desk, Lower B2 Level

Monday, June 17	7:00 AM – 5:00 PM
Tuesday, June 18	7:00 AM – 5:00 PM
Wednesday, June 19	7:00 AM – 5:00 PM
Thursday, June 20	7:00 AM – 5:00 PM
Friday, June 21	7:00 AM – 3:45 PM

Speakers

Speakers must check in at the speaker-ready area at the North Registration Desk on the lower B2 level at least 24 hours before the session begins. On Tuesday, June 18, speakers in the Member Society Symposia must bring their slides directly to the presentation room.

Photography Policy

Please refrain from taking pictures during the sessions, exhibits, or poster hall. FOCIS has a professional photographer who will capture the meeting, and the photos will be shared with attendees after it concludes.

Release

Registration and attendance at, or participation in, FOCIS meetings and other activities signify the delegates' consent to FOCIS' use and distribution (both now and in the future) of their voice or image in pictures, electronic recordings, and other media.

By attending, you acknowledge that there is an inherent risk of exposure to COVID-19 and other communicable diseases in any public place where people are present. You voluntarily assume all risks related to exposure and agree not to hold the Federation of Clinical Immunology Societies (FOCIS) or any of its affiliates, directors, officers, employees, agents, contractors, or volunteers liable for any illness or injury.

Share Your Experience!

Share photos, comments on the sessions, changes you want to make because of what you learned, or engage with other attendees across all social media platforms! Use the hashtags **#FOCIS** or **#FOCIS2024** so your post can be shared across our networks!

- Facebook: @focisimmunology
- X (Formerly Twitter): @focisimmunology and @Focis_FCE
- FCE X: @Focis_FCE
- LinkedIn: Federation of Clinical Immunology Societies (FOCIS)

Certificate of Attendance

After the meeting, an online evaluation is available. After completing the evaluation, you will receive a link to the attendance certificate request online form. Following submission, an electronic certificate (PDF file) will be sent to you. If needed, you can email info@focisnet.org to follow up on your request for a certificate of attendance.

Questions

Contact the FOCIS staff at info@focisnet.org or visit the registration desk.





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Monday – Tuesday

SCIENTIFIC PROGRAM SCHEDULE



Monday, June 17

7:00 AM – 5:00 PM

Registration Desk Open

North Registration Desk, Lower B2 Level

7:30 AM – 5:00 PM

Systems Immunology Course

(separate registration required)

Salons 10/11, Lower B2 Level



Tuesday, June 18

7:00 AM – 5:00 PM

Registration Desk Open

Registration Desk, Lower B2 Level

8:00 AM – 5:15 PM

Basic Immunology in Medicine Course

(separate registration required)

Nob Hill A-D, Lower B2 Level

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This activity was supported by
an educational grant from Grifols.

7:30 AM – 12:00 PM

Big Data in Immunology Workshop

(separate registration required)

Salons 10/11, Lower B2 Level

Organized by



8:00 AM – 9:30 AM

Immunity at the Intestinal Barrier

Salons 3/4, Lower B2 Level

Chair: Jennifer Bando, PhD, Stanford University

Organized by



8:00 AM

Regulating Cell Activation in Innate Lymphocyte Aggregates

Jennifer Bando, PhD, Stanford University

8:30 AM

Small Intestinal Lymphatics and their Dual Role in Metabolism and Immunity

Daria Esterhazy, PhD, University of Chicago

9:00 AM

Metabolic Control of Intestinal Humoral Immunity

Andrea Reboldi, PhD, University of Massachusetts

8:00 AM – 11:30 AM

Crosstalk Between Stress and Immunity

Salons 5/6, Lower B2 Level

Co-Chairs: Jean-Francois Lauzon-Joset, PhD, Laval University and
Chao Wang, PhD, University of Toronto

Organized by



8:00 AM

Neurovascular Adaptations and Biomarkers Underlie Stress Vulnerability vs Resilience and Human Depression

Caroline Ménard, PhD, Laval University

8:45 AM

The Regulation of Stress by IL-17

Chao Wang, PhD, University of Toronto

9:30 AM

Coffee Break

10:00 AM

Microglial Remodeling of the Extracellular Matrix: Outcomes on Synaptic Plasticity and Behavior During Stress

Marie-Eve Tremblay, PhD, University of Victoria

10:30 AM

Sex-specific Impact of Early Life Stress on Lung Immunity

Jean-Francois Lauzon-Joset, PhD, Laval University

11:00 AM

Stress-activated Brain-gut Circuits Disrupt Intestinal Barrier Integrity and Social Behavior and Th1 Polarized Immune Response in Mice

Kenny Chan, PhD, Icahn School of Medicine at Mount Sinai

8:00 AM – 11:30 AM

Investigating Common Mechanisms of Autoimmunity

Salon 7, Lower B2 Level

Chair: Joshua Vieth, PhD, JDRF International

Organized by



8:00 AM **Welcome Remarks & Program Overview**

Joshua Vieth, PhD, JDRF International

8:20 AM **Characterizing Dysregulated B Cell Subsets in Systemic Lupus Erythematosus**

William Robinson, MD, PhD, Stanford University

8:55 AM **Somatic Genetic Variation in Autoimmunity**

Siva Kasinathan, PhD, Stanford University

9:30 AM **Coffee Break**

10:00 AM **Single-cell Genomics Dissection of Common Immune Networks Driving Autoimmunity**

Alexandra-Chloe Villani, PhD, Harvard University

10:35 AM **Analysis of Antigen-specific T Cells in Response to Immune Therapies in MS and T1D**

Kevan Herold, MD, Yale University

11:10 AM **Panel Discussion / Group Q&A**

8:00 AM – 11:30 AM

New Frontiers in B Cell/Antibody Responses

Salons 12/13, Lower B2 Level

Co-Chairs: Jonathan Maltzman, MD, PhD, Stanford University, and Elaine Reed, PhD, University of California, Los Angeles

Organized by



8:00 AM **Endothelial Injury and Antibody-mediated Rejection in Xenotransplantation**

Mohammad Mohiuddin, MD, University of Maryland

8:30 AM **Histocompatibility Testing for Xenotransplantation**

Massimo Mangiola, PhD, New York University Langone Health

9:00 AM **Desensitization: Bench to Bedside**

Marlena Habal, MD, New York University Langone Health

9:30 AM **Coffee Break**

10:00 AM **CAR-T Cell Therapy for Desensitization of Highly Sensitized Transplant Patients**

Sebastiaan Heidt, PhD, Leiden University

10:30 AM **Effector Memory B Cells as Mediators of Systemic and Mucosal Immunity in Humans**

Anoma Nellore, MD, University of Alabama, Birmingham

11:00 AM **Endothelial Cells**

Nicole Valenzuela, PhD, University of California, Los Angeles

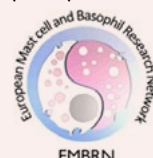
10:00 AM – 11:30 AM

Immune Responses at the Barrier Sites Through the Lenses of New Nomenclature of Allergy and Clinical Immunology

Salons 3/4, Lower B2 Level

Chair: Milena Sokolowska, MD, PhD, University of Zurich

Organized by



10:00 AM **Novel Nomenclature of Allergic Diseases and Hypersensitivity Reactions**

Marek Jutel, MD, PhD, Medical University of Wroclaw

10:15 AM **Autoimmunity in Allergic and Non-allergic Skin Diseases**

Inge Kortekaas Krohn, PhD, Vrije Universiteit Brussel

10:45 AM **Crosstalk Between Allergic and Viral-induced Inflammation in Asthma**

Milena Sokolowska, MD, PhD, University of Zurich

11:15 AM **New EAACI Nomenclature: from Bench to the Clinic**

Ioana Agache, MD, PhD, Transylvania University

11:30 AM – 1:30 PM

Lunch Break

Delegates on their own for lunch

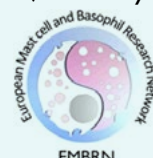
1:30 PM – 3:00 PM

Advances in Mast Cell Research

Salons 3/4, Lower B2 Level

Chair: Adrian M. Piliponsky, PhD, University of Washington

Organized by



1:30 PM **Opening**

1:35 PM **The Allergic Effector Unit and the Mast Cells as Masterminds from Inflammation to its Resolution: Have We Found New Druggable Targets?**

Francesca Levi-Schaffer, PharmD, PhD, The Hebrew University of Jerusalem

2:00 PM **How do Mast Cells Build Themselves? New Insights and Approaches to Investigate the Formation of Mast Cell Granules and Mediator Storage**

Adrian M. Piliponsky, PhD, University of Washington

2:25 PM **Modulation of Mast Cell Granule Composition by the Skin Environment**

Anna Di Nardo, MD, PhD, University of California, San Diego; Experimental Laboratory of Cutaneous Physiopathology San Gallicano (IRCCS)

2:50 PM **Closing Discussion and Questions for the Panel**

1:30 PM – 3:00 PM

Interaction Between Environmental Factors and Immune System in Immune-mediated Diseases

Salons 10/11, Lower B2 Level

Co-Chairs: Yoshiya Tanaka, MD, PhD, University of Occupational and Environmental Health and Isao Matsumoto, MD, PhD, University of Tsukuba

Organized by



1:30 PM **Overview by Chair**

Yoshiya Tanaka, MD, PhD, University of Occupational and Environmental Health

1:35 PM **Metabolic and Epigenetic Reprogramming of T Cells in Autoimmunity Inflammatory Diseases**

Michihito Kono, MD, PhD, Hokkaido University

1:56 AM **Bridging Single Cell Analysis with Clinical Insights for ANCA-associated Vasculitis**

Masayuki Nishide, MD, PhD, Osaka University

2:17 PM **Bacteriophage Therapy Against *Klebsiella Pneumoniae* in Primary Sclerosing Cholangitis**

Nobuhiro Nakamoto, MD, PhD, Keio University

2:38 PM **Commensal Bacteria: Orchestrators of Auto-immune Skin Inflammation and Beyond in SLE**

Yoshihide Asano, MD, PhD, Tohoku University

1:30 PM – 5:00 PM

APS1 and Immune Tolerance: From Basic Biology to Clinical Translation

Salons 5/6, Lower B2 Level

Co-Chairs: Mark Anderson, MD, PhD, University of California, San Francisco, and Mihalios Lionakis, MD, National Institute of Allergy and Infectious Diseases

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1:30 PM **Landscape of TEC Development and Differentiation**

Corey Miller, MD, PhD, University of California, San Francisco

1:50 PM **TEC Differentiation**

Matthieu Giraud, PhD, Nantes University

2:10 PM **Dynamics of Thymic Selection**

Ellen Robey, PhD, University of California, Berkeley

2:30 PM **Human TEC Development**

Audrey Parent, PhD, University of California, San Francisco

3:00 PM **Coffee Break**

3:30 PM **High Throughput Screening of APS1 and Translation**

Aaron Bodansky, MD, University of California, San Francisco

3:50 PM **B Cells as Professional APCs in Autoimmunity**

Bill Robinson, MD, PhD, Stanford University

4:10 PM **Genetics of AIRE-deficiency**

Sebastian Ochoa, MD, Baylor University

4:30 PM **Clinical Trial for APS1**

Mihalios Lionakis MD, ScD, NIAID

1:30 PM – 5:00 PM

Expanding and Unlocking the Tools of Immunotherapy to Improve Understanding and Treatment for Cancer, Auto-immune Disease, and Transplantation

Salon 7, Lower B2 Level

Co-Chairs: Barbara Detrick, PhD, The Johns Hopkins University, and Elaine Reed, PhD, University of California, Los Angeles

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1:30 PM **Introduction**

Barbara Detrick, PhD, The Johns Hopkins University

1:35 PM **New Frontiers in Autoimmunity: Mechanistic Insight Triggering Autoimmune Diabetes Gleaned from Regulatory T Cells and Immune Checkpoint Therapy**

Kevan Herold, MD, Yale University

2:15 PM **Are Autologous CAR19 Cell Therapies Eliciting Alloimmune Responses: How Histocompatibility Limit "off the shelf therapies?"**

David Miklos, MD, PhD, Stanford University

3:00 PM **Coffee Break**

3:30 PM **Genome Editing for the Next Frontier in Engineered Cell Therapy: Cancer and Beyond**

Julia Carnevale, MD, University of California, San Francisco

4:10 PM **Genetic Manipulation of NK Cells for Enhancing NK Targeting of Cancer Cells and Immunosuppressive Tumor Microenvironment**

Rizwan Romee, MD, Harvard University

4:50 PM **Final Questions and Closing Remarks**

Elaine Reed, PhD, University of California, Los Angeles





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ORIGINS is a new and exciting global initiative from Sanofi to accelerate **breakthrough research in immunology and inflammation**, supporting researchers with funding, industry-leading expertise and the opportunity to publish results that will further our understanding of **inflammatory pathways in chronic diseases**.

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FOCIS Center of Excellence (by invitation only)

Developing novel image-based cell assays to effectively monitor T cell apoptosis and CAR gene expression

Bo Lin, PhD,
Leader for Strategic Collaborations and Opportunities, Revvity

Monday, June 17, 2024, (3:00 p.m.–6:30 p.m. PT)
at the San Francisco Marriott Marquis

Industry Tutorial

Optimized immunophenotyping with high dimensional spectral flow cytometry panels

(Lunch provided)

Zayda Piedra, PhD, Scientist II, Applications Group, BioLegend

Wednesday, June 19, 2024 (11:45 a.m.–1:00 p.m. PT)
at the San Francisco Marriott Marquis

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1:30 PM – 5:00 PM

Latin-American Immunologists Symposium

Salons 12/13, Lower B2 Level

Co-Chairs: Leandro Carreño, PhD, Universidad de Chile, and Florencia Rosetti MD, PhD, National Institute of Medical Sciences and Nutrition Salvador Zubirán

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- 1:30 PM **Participation of CD43 in Metabolism Following T Cell Activation**
Luis Eduardo Chiprés, National Autonomous University of Mexico
- 1:50 PM **Role of Neutrophil Subpopulation in the Clearance of Bacterial Pathogens and Tissue Repair During Infections**
Susan Bueno, PhD, Pontifical Catholic University of Chile
- 2:10 PM **Immune Alterations in Patients with Congenital Urea Cycle Disorders**
Ruben Dario Motrich, BSc, PhD, National University of Cordoba, CIBICI-CONICET
- 2:30 PM **Thrombospondin-1 Balances Neutrophil Activation and Protects the Lung Alveolar Barrier During Acute Infection**
Hernán Peñaloza, PhD, Pontifical Catholic University of Chile
- 2:50 PM **IgA Antibodies in Saliva: Recognition of Oral Microbiota and Diagnostic Implications in Patients with Lupus**
José Luis Maravillas, PhD, National Institute of Medical Sciences and Nutrition Salvador Zubirán; National Autonomous University of Mexico
- 3:00 PM **Coffee Break**
- 3:30 PM **Anti-inflammatory NKT Cell Activation Induces Expansion of Regulatory Immune Cells that Ameliorates Inflammation**
Cristian Gutierrez-Vera, PhD, University of Chile
- 3:50 PM **Characterization of a Transcription Factor that Modulates the Function of CD8 T Cells**
Gerardo Suarez, National Institute of Medical Sciences and Nutrition Salvador Zubirán
- 4:10 PM **TMEM176B is a Druggable Intrinsic Driver of Protumoral Th17 Lymphocytes**
Marcelo Hill, MD, PhD, Associate Professor, University of the Republic; Institut Pasteur de Montevideo
- 4:30 PM **Modulation of Dendritic Cell Outcome Upon Herpes Simplex Virus Infection to Recover Antigen Presenting Functions and Elicit Protective Immunity Against Herpetic Skin Disease**
Pablo Gonzalez, PhD, Associate Professor, Millennium Institute on Immunology and Immunotherapy, Pontificia Universidad Católica de Chile

3:30 PM – 5:00 PM

IL-9: From Birth to Breath

Salons 3/4, Lower B2 Level

Co-Chairs: Mark Kaplan, PhD, Indiana University and Daniella Schwartz, MD, University of Pittsburgh

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- 3:30 PM **A Novel Mechanism for Preterm Labor and Birth Driven by IL-9 at the Maternal-fetal Interface**
Nardhy Gomez-Lopez, PhD, Washington University at St. Louis
- 3:45 PM **IL-9-producing CD4 T Cells in Cancer Immunotherapy**
Lionel Apetoh, PhD, Indiana University
- 4:00 PM **Epigenetic Control of IL-9 in Health and Disease**
Daniella Schwartz, MD, University of Pittsburgh
- 4:15 PM **Cooperative Roles of IL-1 and IL-2 in the Differentiation and Function of IL-9-Secreting CD4 T Cells**
Matthew Olson, PhD, Purdue University
- 4:30 PM **Lineage Markers for Th9 Cells: the PKA/PKIB Pathway**
Paula Licona Limon, PhD, Universidad Nacional Autónoma de México
- 4:45 PM **Allergen Induces IL9 Expression In Pathogenic Airway Th2 Cells In Asthma**
Joselyn Cho, MD, University of Iowa

3:30 PM – 5:00 PM

The Environment, Air Pollution, Microbiome and Allergy and Vaccines in Transplant Patients

Salons 10/11, Lower B2 Level

Chair: Ruby Pawankar, MD, PhD, Asia Pacific Association of Allergy, Asthma, and Clinical Immunology

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- 3:30 PM **Exploring Potential Mechanisms Mediating the Effects of Air Pollution on Asthma**
Xiaoying Zhou, PhD, Harvard University
- 4:00 PM **Microbial Signatures in Early Life, Inflammation, and Allergies**
Ruby Pawankar, MD, PhD, Asia Pacific Association of Allergy, Asthma, and Clinical Immunology (APAAACI)
- 4:30 PM **Immune Response to Vaccines in Transplant Patients**
Jonathan Maltzman, MD, PhD, Stanford University

5:30 PM – 6:15 PM

Opening Keynote Address – Xenotransplantation

Salon 8, Lower B2 Level

Robert Montgomery, MD, D.Phil, FACS, NYU Langone Transplant Institute
Chair: Megan Sykes, MD, Columbia University, FOCIS President

6:15 PM – 7:30 PM

Exhibit and Poster Opening Reception

Salon 9, Lower B2 Level

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

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AMGEN'S R&D VISION

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7:00 AM – 5:00 PM

Registration Desk Open

North Registration Desk, Lower B2 Level

7:30 AM – 8:00 AM

Coffee with the Exhibitors

Salon 9, Lower B2 Level

8:00 AM – 7:30 PM

Poster Hall Open (authors optional)

Salon 9, Lower B2 Level

8:00 AM – 9:30 AM

Novel Pathways and Approaches in Allergic Disease

Salon 8, Lower B2 Level

Chair: Stephanie Eisenbarth, MD, PhD, Northwestern University

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8:00 AM Repurposing Approved Bruton's Tyrosine Kinase Inhibitors for the Prevention of Anaphylaxis

Melanie Dispenza, MD, PhD, Johns Hopkins Medicine

8:30 AM Computational Engineering of Major Allergens to Reduce Allergenicity and Maintain Immunogenicity Enables Safe and Effective Immunotherapy for Food Allergy

Yanay Ofran, PhD, Ukko, Inc.

9:00 AM Regulation of Allergic Responses to Food by Commensal Bacterial Products and Metabolites

Cathryn Nagler, PhD, University of Chicago

9:30 AM – 10:00 AM

Coffee Break

Yerba Buena Grand Assembly, Lower B2 Level

10:00 AM – 11:30 AM

Precision Therapeutics in Mucosal Disorders

Salon 8, Lower B2 Level

Chair: Eynav Klechevsky, PhD, Washington University in St. Louis

10:00 AM Microbial Host Defense and Influence in Cancer

Florencia McAllister, MD, University of Texas MD

Anderson Cancer Center

10:30 AM Precision Therapeutics in Inflammatory Bowel Disease – Defining Disease Subtypes & Therapeutic Goals

Judy Cho, MD, Icahn School of Medicine at Mount Sinai

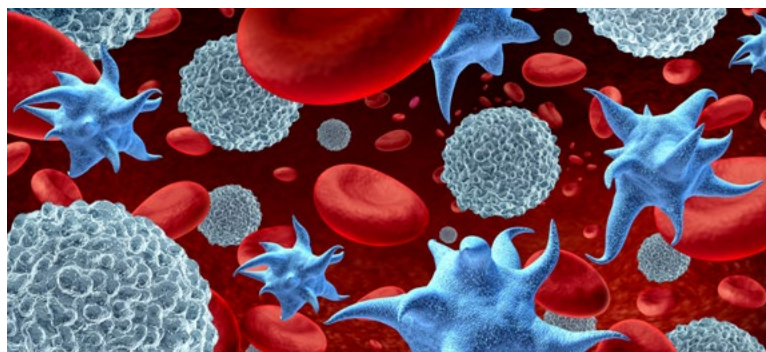
11:00 AM Microbiome Therapies in Food Allergy

Rima Rachid, MD, Boston Children's Hospital

11:30 AM – 1:00 PM

Lunch Break

Delegates on their own for lunch



11:30 AM – 1:00 PM

Partner Program: 2024 Lupus Insight Prize Award Ceremony and Luncheon

Nob Hill A-D, Lower B2 Level

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11:30 AM Introduction

Andrew Chan, MD, PhD, Lupus Research Alliance
Scientific Advisory Board; Genentech

11:40 AM Presentation of the 2024 Lupus Insight Prize to Marko Radic, PhD and Georg Schett, MD

11:45 AM Keynote Presentation: Value of Mouse Models for SLE Cell Therapy Development

Marko Radic, PhD, The University of Tennessee Health Science Center

12:20 PM Keynote Presentation: CAR T Cell Therapy in Autoimmune Disease

Georg Schett, MD, Friedrich-Alexander-Universität Erlangen-Nürnberg

12:55 PM Concluding Remarks

Andrew Chan, MD, PhD, Lupus Research Alliance
Scientific Advisory Board; Genentech

11:45 AM – 1:00 PM

Industry Tutorial: Optimized Immunophenotyping with High-dimensional Spectral Flow Cytometry Panels

Salons 12/13, Lower B2 Level

Speaker: Zayda Piedra, PhD, BioLegend (part of Revvity)

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1:00 PM – 2:45 PM

Inborn Errors of Immunity

Salons 3-6, Lower B2 Level

Chair: Elena Hsieh, MD, University of Colorado

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1:00 PM Human Cytosolic Double-stranded RNA Sensors and SARS-COV-2 Susceptibility

Helen Su, MD, PhD, NIH/NIAID

1:25 PM STAT1 Gain-of-function Leads to Dysfunctional T Regulatory Cells (Poster #W124)

Martin Thelin, MD, PhD, University of California, San Francisco

1:40 PM Gene Therapy for Wiskott-Aldrich Syndrome

Sung-Yun Pai, MD, National Cancer Institute

2:05 PM Human OTULIN Mutations Can Cause Distinct Inflammatory Disease Phenotypes Depending on the Protein Domain that is Mutated (Poster #W126)

Hwi Gil, Vanderbilt University

2:20 PM Genetic Architecture of Inborn Errors of Immunity

Dusan Bogunovic, PhD, Columbia University

1:00 PM – 2:45 PM

Immune Responses to GT/Therapeutics

Salon 7, Lower B2 Level

Chair: Megan Levings, PhD, University of British Columbia

1:00 PM **Human Immune Responses to Viral Gene Therapy Vectors**

Federico Mingozzi, PhD, Nava Therapeutics

1:25 PM **PanTreg: A Cell-therapy, System-biology – Based Approach for Therapy of Autoimmunity (Poster #W118)**

Salvatore Albani, MD, PhD, SingHealth

1:40 PM **Preclinical and Clinical Development of Tolerogenic ImmTOR Nanoparticles to Mitigate Immunogenicity of Biologic and Gene Therapies**

Kei Kishimoto, PhD, Selecta Biosciences

2:05 PM **CAR-Ts are Getting Viral! A New Method for Allogenic CAR-T Cell Therapy Development (Poster #W139)**

Mario Vazquez, IDIBAPS

2:20 PM **Derivation of Clinically Relevant T-lymphocytes from Human iPSC**

Gustavo Mostoslavsky, MD, PhD, Boston University

1:00 PM – 2:45 PM

Systems Immunology & AI

Salon 8, Lower B2 Level

Chair: Deepak Rao, MD, PhD, Brigham and Women's Hospital

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1:00 PM **Conserved Spatial Programs of Immune Regulation in Human Health and Disease**

Michael Angelo, MD, PhD, Stanford University

1:25 PM **Epigenetic Signature and Key Transcriptional Regulators of Human Antigen-inducible Regulatory T Cells Medicine (Poster #W192)**

Alma-Martina Cepika, MD, PhD, Stanford University

1:40 PM **Single-cell to Tissue-scale Memory in the Nose**

José Ordoñas-Montanes, PhD, Harvard University

2:05 PM **Unsupervised and Supervised Machine Learning Promotes Translational Research of Autoimmune Diseases (Poster #W125)**

Martin Wasser, PhD, Translational Immunology Institute/ SingHealth DukeNUS Academic Medical Centre

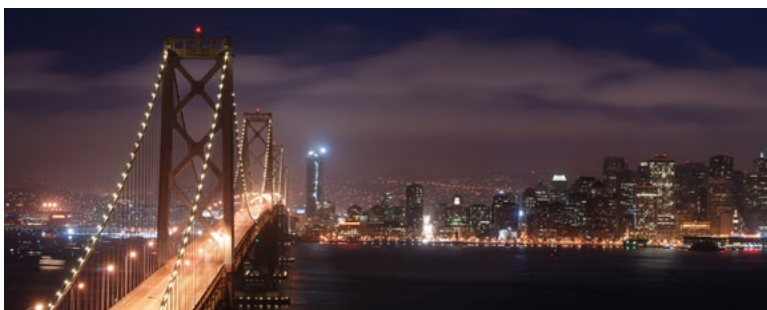
2:20 PM **T Cell Immunity in the Acute Myeloid Leukemia Bone Marrow**

Susan De Wolf, MD, Memorial Sloan Kettering Cancer Center

2:45 PM – 3:15 PM

Coffee Break

Yerba Buena Grand Assembly, Lower B2 Level



3:15 PM – 5:15 PM

Immunogenetics

Salon 7, Lower B2 Level

Chair: Elaine Reed, PhD, D(ABHI), University of California, Los Angeles

3:15 PM **Local Intestinal Eosinophilic Activation Triggered by Defective Epithelial TGF- β Signaling Underlies IPO8 Deficiency (Poster #W101)**

Marianna Parlato, PhD, Institut Imagine

3:30 PM **CLEC16A-driven Mitophagy Limits Astrocyte Proinflammatory Activities (Poster #W181)**

Atsushi Kadowaki, MD, PhD, Osaka University

3:45 PM **Single-cell RNAseq Analysis of PBMCs of Three Cameroonian Populations Reveals Differences in Cell Type Distribution as Well as Differentially Expressed Genes (Poster #W198)**

Etiena Basner Tschakarjan, MD, PhD, University of Pennsylvania

4:00 PM **Intra-clonal Diversity of Donor Specific B Cell IgH is Associated with Pathogenic Allo-immunity (Poster #W190)**

Marilia Cascalho, MD, PhD, University of Michigan

4:15 PM **Oral Pathobionts Promote CRC Development by Alteration of the Host Epigenome and Immunomic Microenvironment (Poster #W178)**

Shirin Eyvazi Khasraghi, MSc, PhD, Mayo Clinic

4:30 PM **Mechanistic Investigation of Human DPP9 Deficiency (Poster #W149)**

Tianli Xiao, PhD, Yale University

4:45 PM **Abnormal STAT3 Signaling in Fibroblasts Promotes Staphylococcal Growth and Abnormal Tissue Response to Infection (Poster #W166)**

Miao Chen, PhD, Columbia University

5:00 PM **Genome-wide Autoimmune Genetic Variant Perturbations Connect Genetic Risk to Primary T Cell Expression And Function (Poster #W148)**

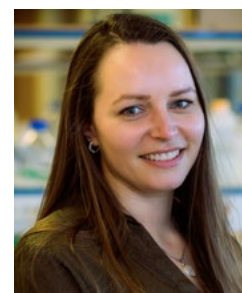
John Ray, PhD, Benaroya Research Institute

Congratulations!

Maaïke L. Suuring,

Nantes University

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3:15 PM – 5:15 PM

Autoimmunity and Transplantation

Salon 8, Lower B2 Level

Chair: Olivier Boyer, MD, PhD, University of Rouen Normandy

3:15 PM **The Role of Recipient $\gamma\delta$ T Cells in Graft Rejection After Human Intestinal Transplantation (Poster #W191)**

Jianing Fu, PhD, Columbia University

3:30 PM **Inferring Disease Mechanisms in Lupus Nephritis: Lessons from the Accelerating Medicines Partnership (AMP) in SLE Consortium (Poster #W104)**

Arnon Arazi, PhD, The Feinstein Institutes for Medical Research

3:45 PM **High-dimensional, Single Cell Analysis of Epstein Barr Virus (EBV)-Specific T Cells from Pediatric Transplant Recipients with EBV DNAemia or Controlled Infection**

Edward Vizcarra, PhD, Stanford University

4:00 PM **Immunophenotypic Profiling Reveals Novel T Cell Subset Associated with "Tolerance" in Pediatric Transplant Recipients (Poster #W187)**

Wenming Zhang, PhD, Stanford University

4:15 PM **Pharmacodynamic Demonstration of Immunological Tolerance Induced by KAN-101, a Novel Liver-targeted Therapy for Celiac Disease (Poster #W120)**

Kristie Grebe, PhD, Anokion

4:30 PM **Single Cell Analysis of CD8 T-cells Reveals Autoantigen Specific Signatures of Teplizumab Treatment in At Risk Subjects from the Trialnet-10 Study (Poster #W123)**

Hai Nguyen, PhD, Benaroya Research Institute

4:45 PM **BiTEing Multi-drug Resistant Rheumatoid Arthritis with CD19-T Cell Engagers (Poster #W103)**

Richardo Grieshaber-Bouyer, MD, University of Erlangen-Nuremberg and University Hospital Erlangen

5:00 PM **Donor-specific T Cell Activation and Expansion Following a Pig-to-human Decedent Kidney Transplant (Poster #W185)**

Farshid Fathi, PhD, Columbia University

3:15 PM – 5:15 PM

Late-Breaking Abstracts

Salons 3-6, Lower B2 Level

Chair: Shachi Bhatt, PhD, Journal of Experimental Medicine

3:15 PM **Cellular Iron Is a Critical Regulator of ILC2 Metabolic Function and Development of Airway Hyperreactivity (Poster #W100)**

Benjamin Hurrell, PhD, University of Southern California

3:30 PM **A Bispecific CD8-dependent Immunoconjugate to Crosslink and Eliminate Antigen-specific B Cells (Poster #W138)**

David Scott, PhD, Uniformed Services University of Health Sciences

3:45 PM **A Multi-modal Longitudinal Model of Sepsis Reveals Immune Dynamics Associated with Mild, Severe and Fatal Disease (Poster #W165)**

Tsili Regev-Paska, MD, Technion Faculty of Medicine

4:00 PM **Repeated Exposure to SARS-CoV-2 Antigens Induces Exceptionally Broad and Potent Neutralizing Immunity to Major Sarbecoviruses in Humans Including SARS-CoV-1 (Poster #W177)**

Linqi Zhang, PhD, Tsinghua University

4:15 PM **A Novel Inhibitor of cGAS-STING-TBK1 Pathway with Broad Application in Autoimmune and Fibrotic Diseases (Poster #W102)**

Bhavatari Vangamudi, PhD, Exo Therapeutics

4:30 PM **NK-mediated Protection Against Tumor Recurrence in CMV+ Bladder Cancer Patients Upon BCG Treatment (Poster #W163)**

Berengere Salome, PharmD, PhD, Icahn School of Medicine at Mount Sinai, Genentech

4:45 PM **Unraveling TIM-3 as a Myeloid Immune Checkpoint in Autoinflammatory Diseases (Poster #W184)**

Alice Yi, Yale University

5:00 PM **Engineering Stable and Lymphodepletion-resistant T Regulatory Cells for Inducing Immune Tolerance During Transplantation (Poster #W140)**

Sameena Nikhat, PhD, Mayo Clinic

3:15 PM – 5:15 PM

Flow Cytometry Course: Day 1

Salons 10/11, Lower B2 Level

Automation and Single-cell Omics Enhancements

Chair: Holden Maecker, PhD, Stanford University

Workflow Automation in Spatial Biology and Flow Cytometry

Nikolay Samusik, Parhelia Bio

Testing a Centrifuge-free Automated Flow Cytometry Workflow

Kavita Mathi, Stanford University

Enhancements to Single-cell Multi-omics Assays

Helen Smith, BD Biosciences

5:30 PM – 6:15 PM

Keynote Address – Robert B. Nussenblatt Presidential Lecture: Human Auto-, Allo- and Xeno-reactive T Cell Repertoire Dynamics and Transcriptomics

Salon 8, Lower B2 Level

Megan Sykes, MD, Columbia University, FOCIS President

Chair: Ignacio Anegón, MD, University of Nantes, FOCIS President-Elect

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6:15 PM – 7:30 PM

Exhibit & Poster Reception

Salon 9, Lower B2 Level

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

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7:30 PM – 8:30 PM

FOCIS Member Reception (FOCIS Members Only)

SoMa, Second Level

Join us for complimentary hors d'oeuvres, drinks, live music, and fun! Let FOCIS show you how we value you! Not a member? Join now at the registration desk.

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Thursday, June 20

7:00 AM – 5:00 PM

Registration Desk Open

North Registration Desk, Lower B2 Level

7:00 AM – 7:55 AM

Conversation of Inclusion and Representation: Who is Navigating and Networking at Conferences

Salons 12/13, Lower B2 Level

Chair: Monica Guzman, PhD, Weill Cornell Medicine

7:30 AM – 8:00 AM

Coffee with the Exhibitors

Salon 9, Lower B2 Level

8:00 AM – 7:45 PM

Poster Hall Open (authors optional)

Salon 9, Lower B2 Level

8:00 AM – 9:30 AM

Neuroimmunology

Salon 8, Lower B2 Level

Chair: Catalina Abad, PhD, Inserm U1234, FCE PAN'THER

Sponsored by



8:00 AM **Interrogating Antigen-specific T Cell Responses in Neurodegenerative Disorders**

Wassim Elyaman, PhD, Columbia University

8:30 AM **Autologous Cell Therapy for Parkinson's Disease: From Bench to Bed and From Bed to Bench**

Kwang-Soo Kim, PhD, McLean Hospital/
Harvard University

9:00 AM **The Role of the Immune System in A-synucleinopathies**

Ashley Harms, PhD, University of Alabama at Birmingham

9:30 AM – 10:00 AM

Coffee Break

Yerba Buena Grand Assembly, Lower B2 Level

10:00 AM – 11:30 AM

Immunology in Reproductive Health

Salon 8, Lower B2 Level

Chair: Rubén Dario Motrich, BSc, PhD, National University of Cordoba, CIBICI-CONICET

10:00 AM **Immunology Learned from Mothers and Babies**

Sing Sing Way, MD, PhD, University of Cincinnati

10:30 AM **Immune Communication Between Mother and Fetus During Pregnancy and Its Long-Term Consequences**

Ana Zenclussen, PhD, Helmholtz Centre for Environmental Research

11:00 AM **The Unraveling of Microbial-immune Interactions in the Reproductive Track**

Michal Elovitz, MD, Icahn School of Medicine at Mount Sinai

11:30 AM – 1:00 PM

Lunch Break

Delegates on their own for lunch

11:45 AM – 1:00 PM

Industry Tutorial: Comprehensive Protein Profiling of Inflammation at Attomolar Sensitivity Provides Novel Insights into Mechanisms of Immune Response

Salons 12/13, Lower B2 Level

NULISA: Fully Automated Ultra-sensitive Proteomics Platform for Profiling Biofluid Samples

Christopher Bunker, PhD, Alamar Biosciences

High-content, High-sensitivity Cytokine Profiling to Predict COVID-19 Severity

Holden T. Maecker, PhD, Stanford University

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Yale University

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1:00 PM – 2:45 PM

Organoid Modeling & Therapeutics

Salons 3-6, Lower B2 Level

Chair: Dimitrios Wagner, MD, PhD, Charité –
Universitätsmedizin Berlin

1:00 PM **Tonsil Organoids to Investigate Human Adaptive Immunity**

Lisa Wagar, PhD, University of California, Irvine

1:25 PM **Tissue-specific Sex Differences in Pediatric and Adult Immune Cell Composition and Function (Poster #Th123)**

Mahina Tabassum Mitul, MSc, University of California, Irvine

1:40 PM **Combinatory Differentiation of Human-induced Pluripotent Stem Cells Generates Thymic Epithelium that Supports Thymic Crosstalk and Directs Dendritic and CD4/CD8 T-cell Full Development**

Matthieu Giraud, PhD, Nantes University / INSERM / CR2TI

2:05 PM **Patient-derived Lung Cancer Organoids as 3D-testing Platform for Advanced Personalized Therapies (Poster #Th136)**

Martí Farrera-Sal, PhD, Charité – Universitätsmedizin Berlin

2:20 PM **Exploiting Artificial Thymic Organoids for the Modeling of Human FOXP3+ Regulatory T Cell Development**

Ciriaco Piccirillo, PhD, McGill University

1:00 PM – 2:45 PM

Cellular & Stem Cell Therapeutics

Salon 7, Lower B2 Level

Chair: Ignacio Anegón, MD, University of Nantes

1:00 PM **Protecting Transplanted Cells from Immune Rejection is the Key to Unlocking the Potential of Regenerative Medicine**

Sonja Schrepfer, MD, PhD, Sana Biotechnology

1:25 PM **Type-2 Functionality in Sustaining CAR T Cell Longevity Linked to 8-year Leukemia Remission (Poster #Th146)**

Zhiliang Bai, PhD, Yale University

1:40 PM **TCR Engineered Tregs for Autoimmune Diseases**

Devan Moodley, PhD, Abata Therapeutics

2:05 PM **TCR Avidity Influences Signaling and Function of Engineered Treg**

Soo Jung Yang, PhD, Benaroya Research Institute

2:20 PM **Engineering Regulatory T Cells for Tolerance**

Megan Levings, PhD, University of British Columbia

1:00 PM – 2:45 PM

Host Defense and Vaccinology

Salon 8, Lower B2 Level

Chair: Galit Alter, PhD, Moderna

1:00 PM **Systems Biological Analysis of the Mechanisms and Predictors of the Durability of Vaccine Responses**

Bali Pulendran, PhD, Stanford University

1:25 PM **SARS-CoV-2 Vaccination Provides Boosted Mucosal Protection in Previously Infected Young Children (Poster #Th164)**

Ying Tang, PhD, Boston Children's Hospital

1:40 PM **Human Antibody Response to SARS-CoV-1 and SARS-CoV-2**

Linqi Zhang, PhD, Tsinghua University

2:05 PM **Sequential Phases of Follicular Helper T Cell Development and Their Impact on Humoral Immune Responses to Vaccination (Poster #Th122)**

Manuel A. Podestà, Brigham and Women's Hospital

2:20 PM **Dissecting Humoral Vaccine Correlates of Protection Across Respiratory Pathogens**

Galit Alter, PhD, Moderna

2:45 PM – 3:15 PM

Coffee Break

Yerba Buena Grand Assembly, Lower B2 Level

3:15 PM – 5:15 PM

Immuno-oncology

Salons 3-6, Lower B2 Level

Chair: Khashayarsha Khazaie, PhD, D.Sc., Mayo Clinic

3:15 PM **Spatially Exploring RNA Biology in Archival Formalin-fixed Paraffin-embedded Tissues (Poster #Th181)**

Zhiliang Bai, PhD, Yale University

3:30 PM **Peripheral Blood as a Source to Identify Candidate Neoantigens and Reactive TCRs (Poster #Th153)**

Andrea Garcia-Garijo, Vall d'Hebron Institute of Oncology

3:45 PM **Helios Limits CD8 T Cell Antitumor Capacity (Poster #Th151)**

Rosa M. Rubio, Instituto Nacional de Ciencias Medicas, Nutricion Salvador Zubiran

4:00 PM **Secondary Inhibitory Signals on Human Kidney Microvascular Endothelium Confer Peripheral T Cell Tolerance: Insight From Checkpoint Inhibitor Toxicity (Poster #Th156)**

Kimberly Muczynski, MD, PhD, University of Washington

4:15 PM **CAR T-cell Therapy Targeting CD84 Alone or in Combination with CD19 for the Treatment of B-cell Malignancies (Poster #Th133)**

Ane Altuna Mongelos, FRCB-IDIBAPS

4:30 PM **HIV-associated Lung Cancer Exhibits an Immunoregulatory Tumor Microenvironment (Poster #Th152)**

Brinda Emu, MD, Yale University

4:45 PM **Exclusion of PD-1 from the Immune Synapse: A Novel Strategy to Modulate T Cell Function (Poster #Th150)**

Matthieu Paiola, PhD, Columbia University

5:00 PM **TMEM176B Is a Druggable Intrinsic Driver of Protumoral Th17 Lymphocytes (Poster #Th159)**

Marcelo Hill, MD, PhD, Institut Pasteur de Montevideo



3:15 PM – 5:15 PM

Immuno-engineering and Therapeutics

Salon 7, Lower B2 Level

Chair: Jordan Pober, MD, PhD, Yale University

3:15 PM **Tolerogenic IL-2 Containing Nanoparticles Induce CD4 and CD8 Regulatory T Cells and TGF- β Producing Regulatory NK Cells that Provide Essential Support for the Tregs which Suppress Immune-mediated Disorders (Poster #Th145)**

David A. Horwitz, MD, General Nanotherapeutics, LLC

3:30 PM **Rosnilimab, a PD-1 Agonist Antibody that Binds to a Membrane Proximal Epitope Leading to Optimized PD-1 Agonistic Signaling (Poster #Th121)**

Stephen Parmley, PhD, AnaptysBio

3:45 PM **IL-10 Producing Tolerogenic Dendritic Cells Modulate B Cell Responses *in vitro* and *in vivo* (Poster #Th135)**

Silvia Gregori, PhD, San Raffaele Telethon Institute for Gene Therapy

4:00 PM **Precision Therapy for Lupus: Targeting Follicular Helper T Cells Using Chimeric Antigen Receptor Natural Killer Cells (Poster #Th137)**

Nora Lakes, Cincinnati Children's Hospital

4:15 PM **T Cell Receptor Precision Editing of Regulatory T Cells for Celiac Disease (Poster #Th142)**

Raphael Porret, Lausanne University Hospital, University of Lausanne

4:30 PM **Regeneration of a Sustained Antiviral Response in Transplant Recipients by Tacrolimus Resistant Antiviral T-cell Products (Poster #Th139)**

Niklas Wiese, Berlin Center for Advanced Therapies, Charité – Universitätsmedizin Berlin

4:45 PM **Expanding Our Understanding of PDC-E2 T Cell Responses in PBC and Their Application for Eng Treg Therapy (Poster #Th116)**

Ritika Tewari, PhD, Benaroya Research Institute

5:00 PM **Gene-edited Allogeneic Regulatory T Cells as 'Off-the-shelf' Immunomodulatory Therapy for Transplantation (Poster #Th134)**

Dimitrios L. Wagner, MD, PhD, Charité - Universitätsmedizin Berlin

3:15 PM – 5:15 PM

Immune Mechanisms

Salon 8, Lower B2 Level

Chair: Todd Brusko, MD, University of Florida

3:15 PM **Induction of Tolerogenic Dendritic Cell Phenotype Through Natural Killer Cells (Poster #Th129)**

Ammar J. Alsheikh, MD, PhD, AbbVie

3:30 PM **Regulation and Dysregulation of Immune Responses by Human Skin Dendritic Cell Subset (Poster #Th131)**

Eynav Klechevsky, PhD, Washington University in St. Louis

3:45 PM **The Role of Recirculating Regulatory T Cells in Thymic Regeneration (Poster #Th177)**

Andri Leo Lemarquis, MD, PhD, Memorial Sloan Kettering Cancer Center

4:00 PM **Single-cell Transcriptomes Reveal Unique CD8 T Cell Atlas Induced by Cytomegalovirus Viremia in Kidney Transplant Recipients (Poster #Th180)**

Yumeng (Angela) Sun, BS, University of California, Los Angeles

4:15 PM **Altered Intestinal Barrier and Immunoregulatory Gut-derived Metabolites Contribute to Acute Rejection in Renal Transplantation (Poster #Th173)**

Fernando Yuen Chang, MBChB, University College London

4:30 PM **Unraveling the Mechanistic Regulation of IL-2 Signaling in T Cells and Diseases (Poster #Th124)**

Suyasha Roy, PhD, National Institutes of Health

4:45 PM **Helios Regulates CD8 T Cell Activation in Response to TCR Affinity (Poster #Th119)**

Gerardo Suárez-Rojas, National Autonomous University of Mexico

5:00 PM **Modeling COVID-19 in a Humanized Mouse with Functional Human Neutrophils (Poster #Th160)**

Esen Sefik, PhD, Yale University

3:15 PM – 5:15 PM

Flow Cytometry Course: Day 2

Salons 10/11, Lower B2 Level

Label-free and Imaging Flow Cytometry

Chair: Holden Maecker, PhD, Stanford University

Using Fluorescence-based Imaging Technology

Karan Kathuria, Stanford University

Image-based Cytometry on the Amnis Imagestream

Haley Pugsley, Cytex Biosciences

Label-free Cell Sorting

Andy Wu, ThinkCyte

5:30 PM – 5:45 PM

State of FOCIS Address

Megan Sykes, MD, Columbia University, FOCIS President
Salon 8, Lower B2 Level

5:45 PM – 6:30 PM

Keynote Address - Decoding the Missing Link: From Loss of Tolerance to Tissue Destruction

Bana Jabri, MD, PhD, University of Chicago

Salon 8, Lower B2 Level

Chair: Joshua Milner, MD, SB, Columbia University

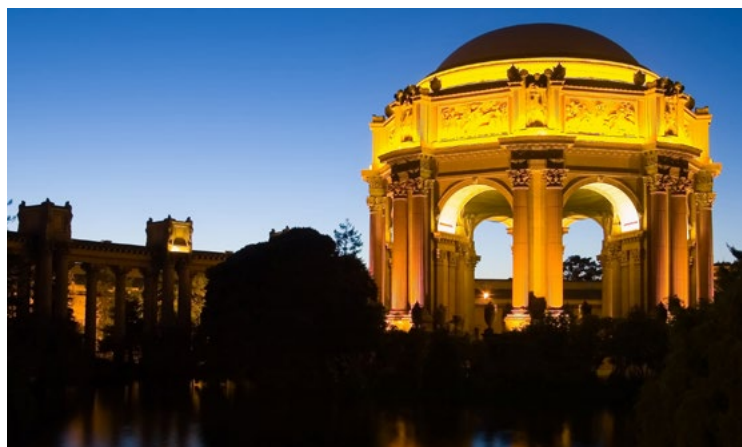
6:30 PM – 7:45 PM

Exhibit & Poster Reception

Salon 9, Lower B2 Level

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

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7:00 AM – 3:45 PM

Registration Desk Open

North Registration Desk, Lower B2 Level

8:00 AM – 9:30 AM

Somatic Mosaicism, Clonal Populations, and Immune Disorders

Salon 8, Lower B2 Level

Chair: Salvatore Albani, MD, PhD, SingHealth Duke-NUS Academic Medical Centre

8:00 AM Somatic Mosaicism in Genetic Diseases of the Immune System

Megan Cooper, MD, PhD, Washington University in St. Louis

8:30 AM From Mosaics to Clones: Aligning Terminology in Genetic Variability

Monica Guzman, PhD, Weill Cornell Medicine

9:00 AM Mechanisms that Contribute Towards Female-biased Autoimmunity: X-chromosome Inactivation

Montserrat Anguera, PhD, University of Pennsylvania

9:30 AM – 10:00 AM

Coffee Break

Yerba Buena Grand Assembly, Lower B2 Level

10:00 AM – 11:30 AM

Mechanisms & Treatment of Autoimmunity

Salon 8, Lower B2 Level

Chair: Michael Paley, MD, PhD, Washington University in St. Louis

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10:00 AM Enhancing Treg Therapy Through Cell Engineering

Qizhi Tang, PhD, University of California, San Francisco

10:30 AM APS-1/APECED: Mechanisms & Treatment of Autoimmunity

Michail Lionakis, MD, ScD, National Institute of Allergy & Infectious Disease

11:00 AM RNA Origin of Sex Biased Immunity

Howard Chang, MD, PhD, Stanford University

11:45 AM – 12:30 PM

Keynote Address – Cell, Tissue and Perturbation Atlases as Roadmaps in Cancer

Aviv Regev, PhD, Genentech

Salon 8, Lower B2 Level

Chair: Megan Cooper, MD, PhD, Washington University in St. Louis

12:30 PM – 2:00 PM

Lunch Break

Delegates on their own for lunch

12:45 PM – 2:00 PM

Partner Program: Journal of Experimental Medicine – Meet the Editor

Salons 1/2, Lower B2 Level

Shachi Bhatt, PhD, Journal of Experimental Medicine



12:45 PM – 2:00 PM

Partner Program: NIAID Research Support: The Life of a Grant from Concept to Award

Nob Hill A-D, Lower B2 Level

Stacy E. Ferguson, PhD, Division of Allergy, Immunology, and Transplantation, NIAID, NIH

Jeffrey Rice, PhD, Division of Allergy, Immunology, and Transplantation, NIAID, NIH

Poonam Tewary, PhD, Scientific Review Program, NIAID, NIH

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2:00 PM – 3:45 PM

Metabolic Regulation of Inflammation

Salons 3-6, Lower B2 Level

Chair: Jonathan Maltzman, MD, PhD, FAST, Stanford University

2:00 PM An Immunometabolic Circuit Triggered by Dietary Chitin

Steven Van Dyken, PhD, Washington University in St. Louis

2:25 PM Human Tolerogenic Dendritic Cells Used in Clinic Regulate CD8+ T Cell Population (Poster #Th174)

Maaïke Suuring, PhD, CR2TI UMR1064

2:40 PM Integrating Systems Immunology with Metabolism and Cancer

Hongbo Chi, PhD, St. Jude's Research Hospital

3:05 PM Skeletal Muscle DUPD1 Links Gut Inflammation with Obesity-associated Metabolic Diseases (Poster #Th117)

Alberto Martin, PhD, University of Toronto

3:20 PM Immunometabolism at the Crossroads Between Inflammation and Aging

Maria Mittelbrunn, PhD, Centro de Biología Molecular Severo Ochoa

2:00 PM – 3:45 PM

Immuno-oncology

Salon 7, Lower B2 Level

Chair: Ricardo Pujol Borrell, MD, PhD, Hospital Universitario Vall d'Hebron, Universitat Autònoma de Barcelona

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2:00 PM Reprogramming the Tumor-immune Microenvironment by Targeting the Galectin-glycan Axis

Gabriel Rabinovich, PhD, Experimental Medicine and Biology Institute

2:25 PM Pre-existing Skin-resident CD8 and $\gamma\delta$ T Cell Circuits Mediate Immune Response in Merkel Cell Carcinoma and Predict Immunotherapy Efficacy (Poster #Th154)

Zachary Z. Reinstein, Northwestern University

2:40 PM GD2-CAR T-cell Therapy for Diffuse Midline Gliomas

Michelle Monje, MD, PhD, Stanford University

3:05 PM Aire-expressing Tumor-associated Macrophages Promote Cancer Immune Evasion (Poster #Th149)

Matthew Arvedson, University of California, San Francisco

3:20 PM Adipocyte-secreted Interleukin-9 Promotes B-cell Acute Lymphoblastic Leukemia Progression

Curtis Henry, PhD, University of Colorado Cancer Center/University of Colorado Anschutz Medical Campus

Friday

2:00 PM – 3:45 PM

Behavioral Immunology and Neuroimmunology

Salon 8, Lower B2 Level

Chair: Jesse Gitaka, MD, MTM, PhD, Mount Kenya University

- 2:00 PM **Sickness Behaviors of Type 2 Immunity**
Esther Borges Florsheim, PhD, Arizona State University
- 2:25 PM **Longitudinal Analysis of Immune Cell Changes in FUS-ALS Patients Treated with a FUS Antisense Oligonucleotide (Poster #Th170)**
Olivia M. Rifai, PhD, Columbia University
- 2:40 PM **Unique Aspects of IFN- γ /STAT1 Signaling in Neurons**
Anthony Filiano, PhD, Duke University, Marcus Center for Cellular Cures
- 3:05 PM **Greater Composite Confirmed Disability Progression in Non-Hispanic Black and Hispanic or Latino Individuals with Relapsing Multiple Sclerosis: Analysis of Self-reported Identity and Genetic Ancestry in the OPERA I and II Trials (Poster #Th169)**
Xiaoming Jia, MD, MEng, Genentech
- 3:20 PM **Sensory Neuron Regulation of Host Defense and Immunity**
Isaac Chiu, PhD, Harvard University

3:45 PM

Annual Meeting Adjourns



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Industry Tutorial:

Thursday, June 20 | 11:45 AM - 1:00 PM (Lunch provided)

Comprehensive protein profiling of inflammation at attomolar sensitivity provides novel insights into mechanisms of immune response.



Speaker:
Holden Maecker, PhD
Stanford University



Speaker:
Christopher Bunker, PhD
Alamar Biosciences



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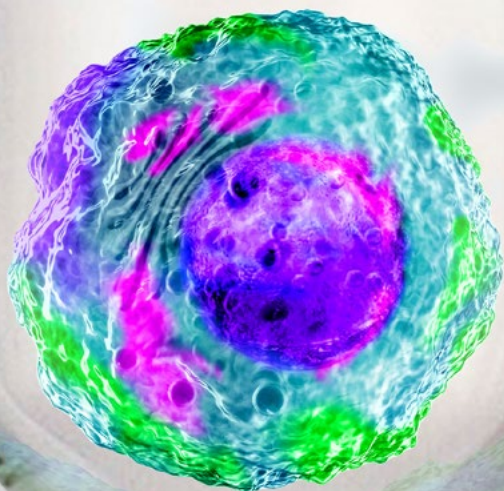
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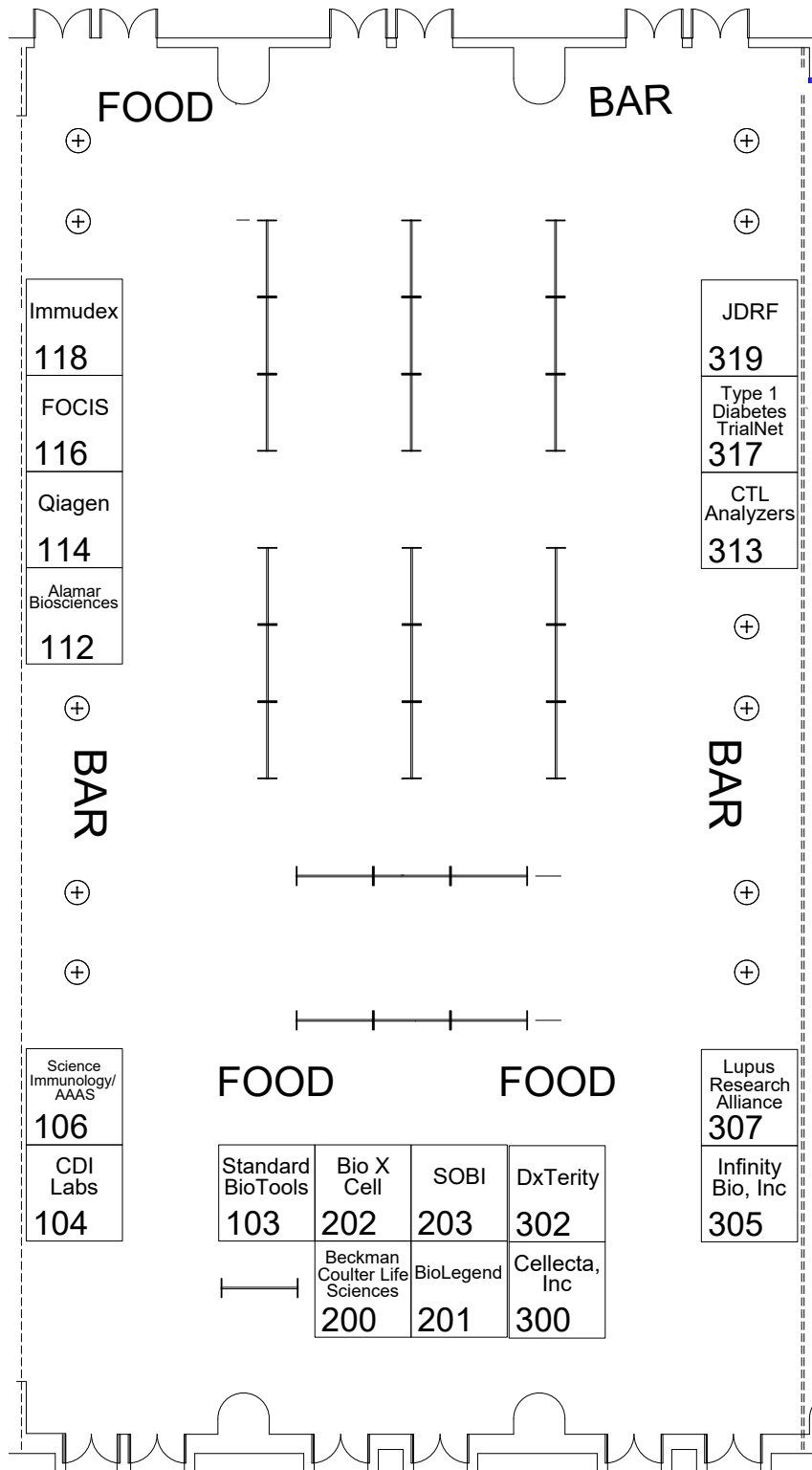
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FOCIS 2024 Exhibition & Poster Hall

FOCIS gratefully acknowledges the support that allows FOCIS to fulfill its mission to apply the science of immunology to improve human health through interdisciplinary research, education, communication, and collaboration.

MARRIOTT MARQUIS - SALON 9 - SAN FRANCISCO, CA



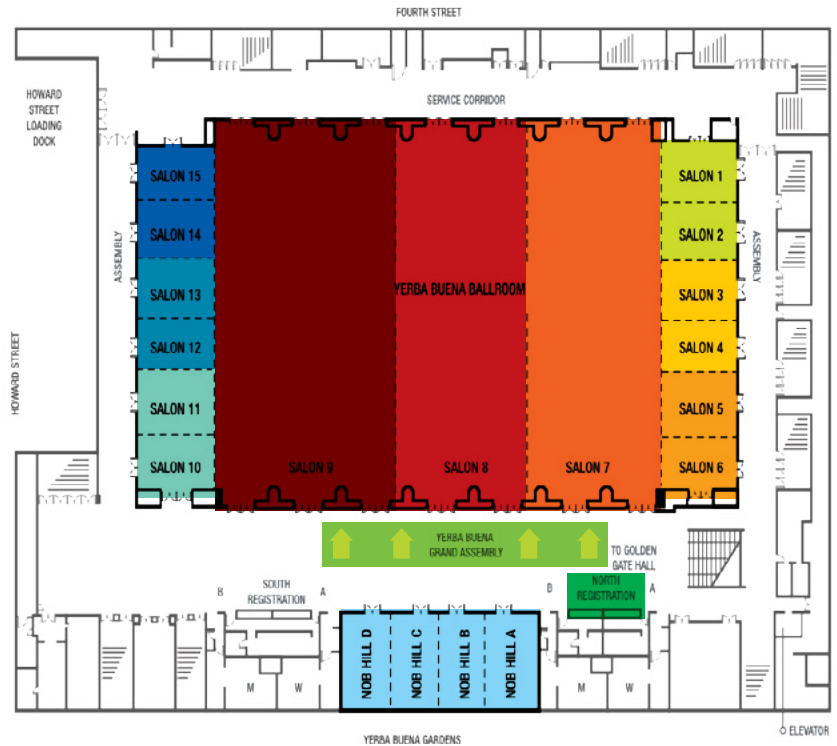
Exhibitor Listing and Floor Plans

Organization	Booth
Alamar Biosciences	112
Beckman Coulter Life Sciences	200
BioLegend	201
Bio X Cell	202
Cellecta, Inc.	300
CDI Labs	104
CTL Analyzers, LLC	313
DxTerity	302
FOCIS	116
Immudex	118
Infinity Bio, Inc.	305
JDRF (now Breakthrough T1D)	319
Lupus Research Alliance	307
Qiagen	114
Science Immunology/AAAS	106
SOBI	203
Standard BioTools	103
Type 1 Diabetes TrialNet	317

FOCIS 2024 Hotel Maps

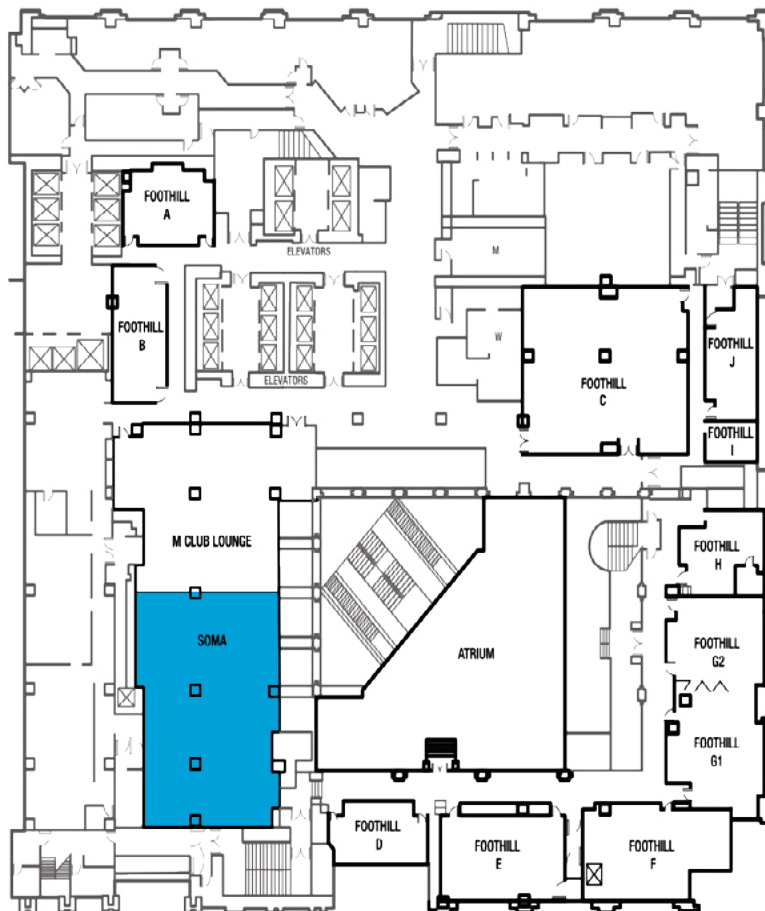
LOWER B2 LEVEL

- North Registration Desk
- Yerba Buena Grand Assembly
- Salons 1/2
- Salons 3/4
- Salons 5/6
- Salon 7
- Salons 8
- Salons 9
- Salons 10/11
- Salons 12/13
- Salons 14/15
- Nob Hill A/B/C/D



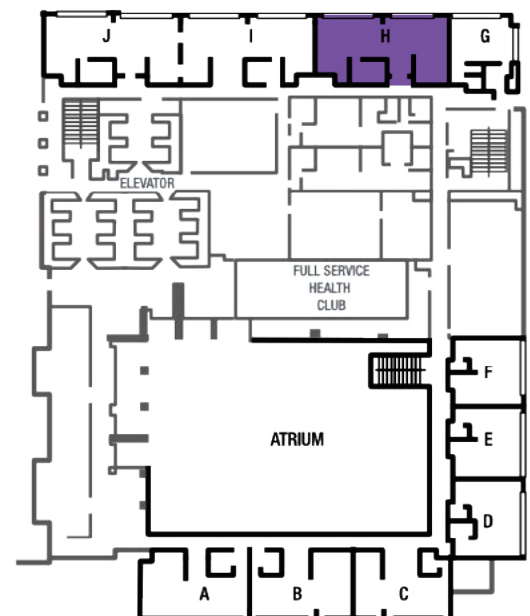
SECOND LEVEL

- SoMa



FOURTH LEVEL

- Pacific H



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British Society for Immunology

The British Society for Immunology's mission is to support our immunology community in driving scientific discovery and making a positive impact on health.

They accomplish this by:

- Providing the immunology community with support to establish more connections and enhance collaboration, both within their field and with other related scientific disciplines and between sectors.
- Providing sector-leading support to attract and retain talent in immunology.
- Influencing and improving the external environment to enable immunology to thrive and deliver positive outcomes for health.

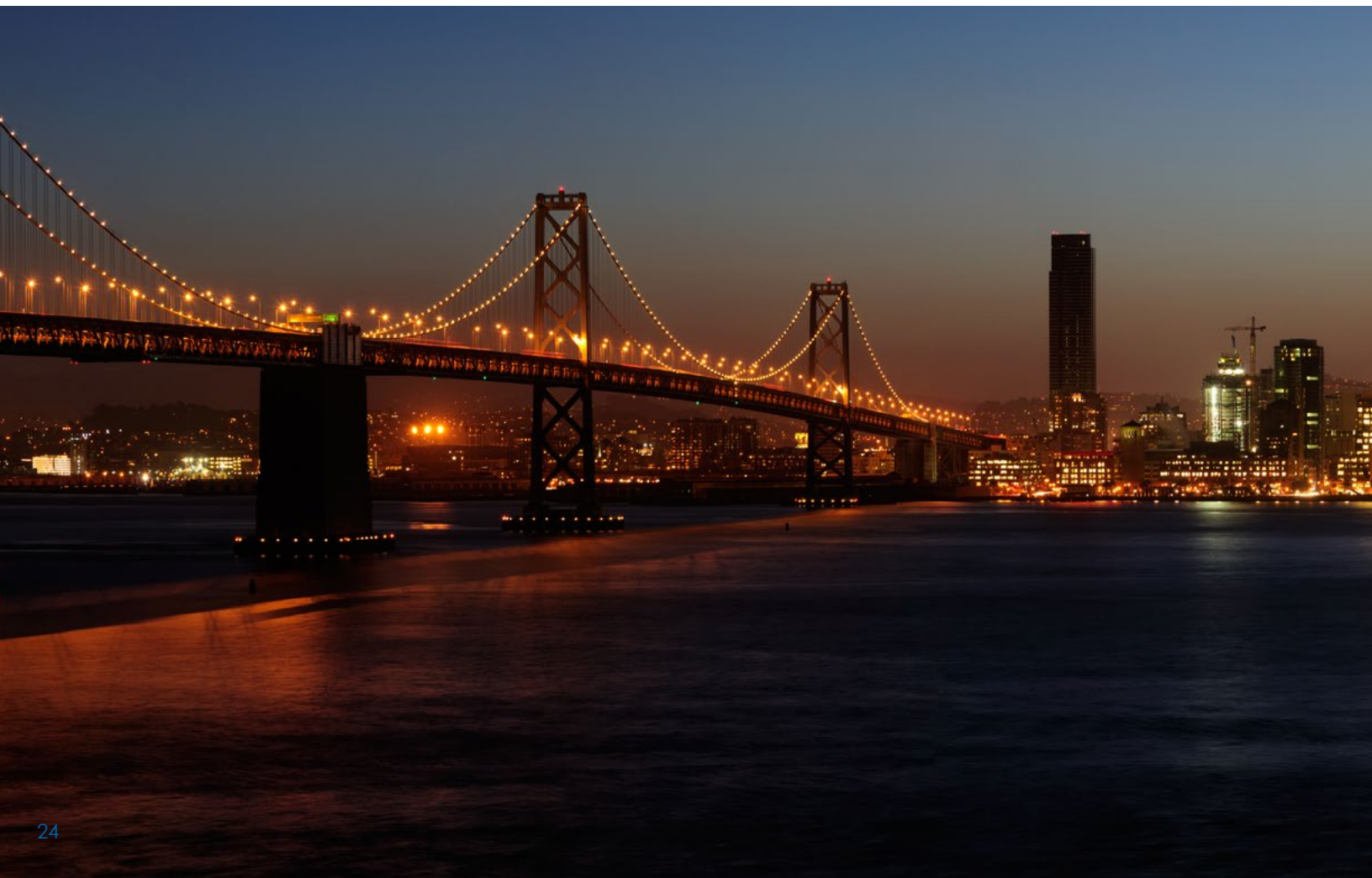
Find out more at www.immunology.org



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The Society for Immunotherapy of Cancer (SITC) is the world's leading member-driven organization specifically dedicated to improving cancer patient outcomes by advancing the science and application of cancer immunotherapy.

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Find out more at www.sitcancer.org



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The following presenters have indicated a relationship in which the context of their presentations could be perceived by some as a real or apparent conflict of interest, but do not consider that it will influence their presentations. If a presenter is not listed, he or she has no relationship to disclose. The number following each company name represents the specific relationship from the key below.

Key:

1 - Consultant/Advisor	3 - Lecture Fees	5 - Patents/Royalty
2 - Employee	4 - Equity/Owner	6 - Grant Support

Alter, Galit: Moderna (2), Moderna (3)

Angelo, Michael: Ionpath (1)

Chi, Hongbo: Chugai Pharmaceuticals (1-Terminated), Kumquat Biosciences (1), ONO Pharmaceutical Co. (1-Terminated)

Chiu, Isaac: Escient Pharmaceuticals (1-Terminated), GlaxoSmithKline (1), Limm Therapeutics (1), Nilo Pharmaceuticals (1), Panther Inc. (1)

Cho, Judy: Bristol Myers Squibb (4), Orchard Therapeutics (1), Regeneron (4-Terminated)

Cooper, Megan: Pharming (1-Terminated), Sumitomo Pharma (1)

Dispenza, Melanie: Aditum Bio (1), Allakos (1), AstraZeneca (4), Blueprint Medicines (1), GLG (1-Terminated), Guidepoint (1-Terminated), Melinta Therapeutics (1)

Filiano, Anthony: Cryocell Int. (6)

Guzman, Monica: Bridge Medicine (1), Bridge Medicine (4), SeqRx (3)

Kim, Kwang-Soo: Nurron Pharmaceuticals, Inc. (1), Nurron Pharmaceuticals, Inc. (3)

Kishimoto, Kei: Cartesian Therapeutics (1)

Levings, Megan: Sangamo Therapeutics (6)

McAllister, Florencia: Neologics Bio LLC (1)

Mingozzi, Federico: Nava Therapeutics (2), Nava Therapeutics (3), Roch, (3), Spark Therapeutics (2-Terminated)

Montgomery, Robert: eGenesis (1), Recombinetic (1), United Therapeutics (4)

Mostoslavsky, Gustavo: Clade Therapeutics (1)

Nagler, Cathryn: ClostraBio, Inc. (3), ClostraBio, Inc. (6)

Ofran, Yanay: AstraZeneca, (3-Terminated), Bayer (3-Terminated), Eli Lilly (3-Terminated), Merck (3-Terminated), Nektar (3-Terminated), Novartis (3-Terminated), Teva (3-Terminated)

Rabinovich, Gabriel: Galtec (3), Galtec (6)

Rachid, Rima: Eli Lilly (1), Genentech (1), Novartis (1), Novartis (4)

Regev, Aviv: Asimov (1-Terminated), Celsius Therapeutics (3), Immunitas (3), Neogene Therapeutics (1-Terminated), Roche-Genentech (2), Syros Pharmaceuticals (1-Terminated), ThermoFisher SAB (1-Terminated)

Schrepfer, Sonja: Sana Biotechnology, Inc. (2), Sana Biotechnology, Inc. (3)

Su, Helen: Amgen (3), Avanos Medica (3), Eli Lilly (3), Pfizer (3-Terminated), Procter & Gamble (3), Viatris (3), Zimmer Biomet (3), Zimvie (3)

Sykes, Megan: CTI-Clinical Trial Services Inc. (1), Janssen Research & Development, LLC (1-Terminated), Magenta Therapeutics (1-Terminated), Millennium Pharmaceuticals, Inc., (a wholly owned subsidiary of Takeda Pharmaceutical Company Limited) (1-Terminated), Ossium Health, Inc. (1), Regeneron Pharmaceuticals (1), Sana Biotechnology, Inc. (1-Terminated), Sangamo Therapeutics Inc. (1-Terminated), Thymune Therapeutics Inc. (1-Terminated), Ultragenyx Pharmaceutical (1), XenImmune Therapeutics, Inc. (1)

Tang, Qizhi: eGenesis (3), Minutia (1), Minutia (1), Minutia (6), Moderna (1), Qihan Bio (1), Sonoma Biotherapeutics (1), Sonoma Biotherapeutics (3), Sonoma Biotherapeutics (4), Sonoma Biotherapeutics (6)

Wagar, Lisa: Bristol Myers Squibb (4), Roche (4)

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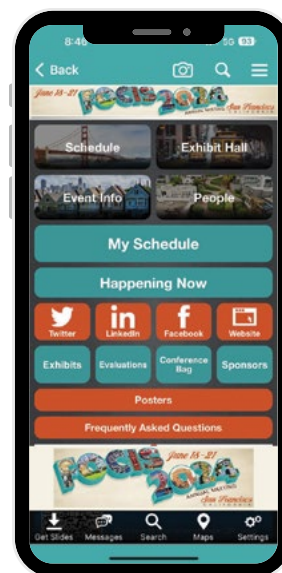
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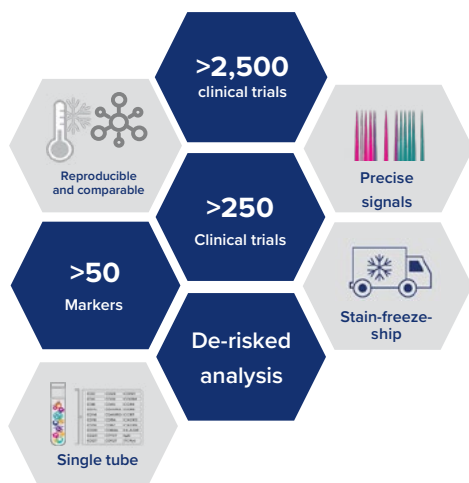
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Notes:



30

SAVE THE DATE
25 YEARS OF FOCIS



FOCIS 2024 Program Overview

Monday, June 17

7:30 AM – 5:00 PM

Systems Immunology Course (*separate registration required*) Salons 10/11

Tuesday, June 18

7:30 AM – 12:00 PM

Big Data in Immunology Workshop (*separate registration required*) Salons 10/11

8:00 AM – 5:15 PM

Basic Immunology in Medicine Course (*separate registration required*) Nob Hill A-D

8:00 AM – 9:30 AM

Immunity at the Intestinal Barrier Salons 3/4

8:00 AM – 11:30 AM

Crosstalk Between Stress and Immunity Salons 5/6

8:00 AM – 11:30 AM

Investigating Common Mechanisms of Autoimmunity Salon 7

8:00 AM – 11:30 AM

New Frontiers in B Cell/Antibody Responses Salons 12/13

10:00 AM – 11:30 AM

Immune Responses at the Barrier Sites Through the Lenses of New Nomenclature of Allergy and Clinical Immunology .. Salons 3/4

1:30 PM – 3:00 PM

Advances in Mast Cell Research Salons 3/4

1:30 PM – 3:00 PM

Interaction Between Environmental Factors and Immune System in Immune-mediated Diseases Salons 10/11

1:30 PM – 5:00 PM

APS1 and Immune Tolerance: From Basic Biology to Clinical Translation Salons 5/6

1:30 PM – 5:00 PM

Expanding and Unlocking the Tools of Immunotherapy to Improve Understanding
and Treatment for Cancer, Autoimmune Disease and Transplantation Salon 7

1:30 PM – 5:00 PM

Latin-American Immunologists Symposium Salons 12/13

3:30 PM – 5:00 PM

IL-9: From Birth to Breath Salons 3/4

3:30 PM – 5:00 PM

The Environment, Air Pollution, Microbiome and Allergy and Vaccines in Transplant Patients Salons 10/11

5:30 PM – 6:15 PM

Opening Keynote Address – Xenotransplantation Salon 8

6:00 PM – 7:30 PM

Exhibit & Poster Opening Reception Salon 9

Wednesday, June 19

7:30 AM – 8:00 AM

Morning Coffee with Exhibitors Salon 9

8:00 AM – 9:30 AM

Novel Pathways and Approaches in Allergic Disease Salon 8

10:00 AM – 11:30 AM

Precision Therapeutics in Mucosal Disorders Salon 8

11:30 AM – 1:00 PM

2024 Lupus Insight Prize Award Ceremony and Luncheon Nob Hill A-D

11:45 AM – 1:00 PM

Industry Tutorial by BioLegend Salons 12/13

1:00 PM – 2:45 PM

Inborn Errors of Immunity Salons 3-6

1:00 PM – 2:45 PM

Immune Responses to GT/Therapeutics Salon 7

1:00 PM – 2:45 PM

Systems Immunology & AI Salon 8

3:15 PM – 5:15 PM

Late-Breaking Abstracts Salons 3-6

3:15 PM – 5:15 PM

Immunogenetics Salon 7

3:15 PM – 5:15 PM

Autoimmunity and Transplantation Salon 8

3:15 PM – 5:15 PM

Flow Cytometry Course, Day 1 Salons 10/11

5:30 PM – 6:15 PM

Keynote Address – Robert B. Nussenblatt Presidential Lecture: Human Auto-,
Allo- and Xeno-reactive T Cell Repertoire Dynamics and Transcriptomics Salon 8

6:15 PM – 7:30 PM

Exhibit & Poster Reception Salon 9

7:30 PM – 8:30 PM

FOCIS Member Reception (FOCIS Members Only) SoMa

Thursday, June 20

7:00 AM – 7:55 AM

Conversation of Inclusion and Representation: Who is Navigating and Networking at Conferences Salons 12/13

7:30 AM – 8:00 AM

Morning Coffee with Exhibitors Salon 9

8:00 AM – 9:30 AM

Neuroimmunology Salon 8

10:00 AM – 11:30 AM

Immunology in Reproductive Health Salon 8

11:45 AM – 1:00 PM

Industry Tutorial by Alamar Biosciences Salons 12/13

1:00 PM – 2:45 PM

Organoid Modeling & Therapeutics Salons 3-6

1:00 PM – 2:45 PM

Cellular & Stem Cell Therapeutics Salon 7

1:00 PM – 2:45 PM

Host Defense and Vaccinology Salon 8

3:15 PM – 5:15 PM

Immuno-oncology Salons 3-6

3:15 PM – 5:15 PM

Immuno-engineering and Therapeutics Salon 7

3:15 PM – 5:15 PM

Immune Mechanisms Salon 8

3:15 PM – 5:15 PM

Flow Cytometry Course, Day 2 Salons 10/11

5:30 PM – 5:45 PM

State of FOCIS Address Salon 8

5:45 PM – 6:30 PM

Keynote Address – Decoding the Missing Link: From Loss of Tolerance to Tissue Destruction Salon 8

6:30 PM – 7:45 PM

Exhibit & Poster Reception Salon 9

Friday, June 21

8:00 AM – 9:30 AM

Somatic Mosaicism, Clonal Populations, and Immune Disorders Salon 8

10:00 AM – 11:30 AM

Mechanisms & Treatment of Autoimmunity Salon 8

11:45 AM – 12:30 PM

Keynote Address - Cell, Tissue and Perturbation Atlases as Roadmaps in Cancer Salon 8

12:45 PM – 2:00 PM

Partner Program by the Journal of Experimental Medicine Salons 1/2

12:45 PM – 2:00 PM

Partner Program by the NIH/NIAID Nob Hill A-D

2:00 PM – 3:45 PM

Metabolic Regulation of Inflammation Salons 3-6

2:00 PM – 3:45 PM

Immuno-oncology Salon 7

2:00 PM – 3:45 PM

Behavioral Immunology and Neuroimmunology Salon 8