

FOCiS[®]

Annual Meeting

SCIENTIFIC
PROGRAM

JUNE 21-24
2022



San Francisco

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

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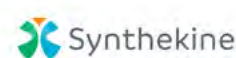
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Dear Colleagues,

Welcome to the 22nd Annual Meeting of the Federation of Clinical Immunology Societies, FOCIS 2022. I am especially excited about this year's meeting as it will be our first in-person meeting since 2019. Clinicians, researchers, and trainees from over 30 countries will gather to hear a broad range of high-quality, multidisciplinary content presented by leading clinicians and researchers.

The FOCIS 2022 Scientific Program Committee has put together an outstanding program that reflects the core tenets of FOCIS by bridging clinical and basic immunology and presenting novel translational therapies. It highlights current issues and celebrates cutting-edge research and scientific developments in translational immunology, including many advances in understanding COVID-19 and vaccine development.

We value the participation of each of you who have enabled FOCIS' success over the past 22 years, and we know that you will continue to empower the efforts of our community and move the field forward into the future. I invite you to get involved in FOCIS. Join FOCIS as a member and help us to promote education, research, and clinical care through translational immunology. Most importantly, active membership gives you a voice in the organization and a central place in our community.

Please join me in extending my most heartfelt thanks to the members of the Scientific Program Committee for their time, energy, and expertise to put together a world-class lineup of speakers and topics for FOCIS 2022.

Thank you for taking part in FOCIS 2022 and for helping to further the mission of FOCIS. Welcome to San Francisco!



Sincerely,

A handwritten signature in black ink that reads "Mark L. Anderson".

Mark Anderson, MD, PhD, FOCIS President
University of California, San Francisco



DOWNLOAD THE FOCIS 2022 APP TODAY!

Search for the app: FOCIS EVENTS





FOCIS 2022 Scientific Program Committee



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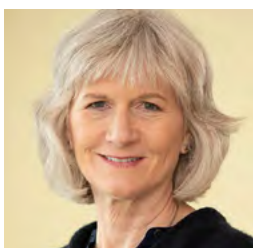
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Jo Viney, PhD
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FOCIS 2022 General Information

Evaluations

Delegates will receive email reminders and link to meeting evaluations during the meeting. Evaluations are also available through the mobile app.

WiFi

Basic complimentary WiFi is provided in the FOCIS meeting space. Due to limited bandwidth, please limit your use to checking email and searching the web, and please refrain from uploading and downloading files.

Network: FOCIS 2022

Password: immunology

Exhibit & Poster Hall Hours

Salon 9, Lower B2 Level

Tuesday, June 21 5:30 pm – 7:45 pm

Wednesday, June 22 7:30 am – 7:30 pm

Thursday, June 23 7:30 am – 7:30 pm

Poster Set-Up and Take-Down Hours

Tuesday, June 21 Set up: 12:00 pm – 2:00 pm

Take down: 7:45 pm – 8:15 pm

Wednesday, June 22 Set up: 7:00 am – 8:00 am

Take down: 7:30 pm – 8:00 pm

Thursday, June 23 Set up: 7:00 am – 8:00 am

Take down: 7:30 pm – 8:00 pm

Registration and Speaker Check-In Hours

North Registration Desk, Lower B2 Level

Monday, June 20 7:00 am – 5:00 pm

Tuesday, June 21 7:00 am – 5:30 pm

Wednesday, June 22 7:00 am – 5:30 pm

Thursday, June 23 7:00 am – 5:30 pm

Friday, June 24 7:00 am – 2:00 pm

Speakers

Speakers are asked to report to the speaker check-in area located at the Registration Desk (Lower B2 Level) at least 24 hours prior to their session. Those speaking in Member Society Symposia on Tuesday, June 21, please bring your slides directly to the presentation room.

Photography Policy

Please refrain from photography in the sessions, exhibits and poster hall. FOCIS will have a professional photographer capturing moments from the meeting which will be shared with attendees following the conclusion of the event.

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.

COVID Health & Safety Information

The health and safety of FOCIS 2022 Annual Meeting attendees remains our highest priority. To that end, FOCIS seeks to minimize the risk of infection exposure, specifically COVID-19 and its variants, by establishing health and safety protocols.

Preventive measures include:

Attestation of COVID-19 vaccination status required for entry into the FOCIS 2022 Annual Meeting. Attendees will verify their vaccination status when collecting their registration badges at check-in.

Masking. Masking is **required** in the FOCIS 2022 meeting space, session and business meeting rooms, and exhibition hall, except when actively eating or drinking. Masking is **strongly recommended** in all indoor and event spaces that attendees may frequent during the Annual Meeting.

Enhanced sanitization of meeting and exhibit spaces as executed by the hotel.

Sanitization of podium and microphones between presentations.

Masks and COVID-19 self-tests are available at the Registration Desk.

Social distancing is encouraged.

Conference attendees should self-monitor for signs and symptoms of COVID-19 and are asked to contact Caley Mutrie, Executive Director (cmutrie@focisnet.org), if they experience symptoms of COVID-19 within 10 days after the FOCIS 2022 Annual Meeting.

The San Francisco Marriott Marquis Hotel is implementing preventative measures to reduce the potential spread of the COVID-19 virus. Please refer to the [San Francisco Marriott Marquis' COVID-19 Taking Care of You page](#) for more information about hotel policies.

By attending the FOCIS 2022 Annual Meeting, you are acknowledging that an inherent risk of exposure to COVID-19 exists in any public place where people are present. You voluntarily assume all risks related to exposure to COVID-19 and agree not to hold the Federation of Clinical Immunology Societies (FOCIS); or any of their affiliates, directors, officers, employees, agents, contractors, or volunteers liable for any illness or injury.

If you have questions, please contact info@focisnet.org or visit the Registration Desk for assistance.

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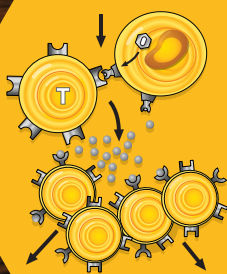
- Up to **\$30 savings** in FOCIS membership if you belong to any of our FOCIS Member Societies



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- \$30 abstract submission **waived**

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Advanced Course in Basic & Clinical Immunology

February 26-March 1, 2023

Estancia La Jolla • San Diego, California



SCIENTIFIC PROGRAM SCHEDULE

Monday, June 20

7:00 am – 5:00 pm

Registration Desk Open

North Registration Desk, Lower B2 Level

7:30 am – 5:00 pm

Systems Immunology Course

Salons 13/14/15, Lower B2 Level

(separate registration required)



8:00 am – 5:30 pm

Basic Immunology in Medicine

Salons 10/11/12, Lower B2 Level

(separate registration required)



8:00 am – 12:00 pm

Member Society Symposia

8:00 am – 2:00 pm

Latin American Immunology Symposium

Salons 1/2

Co-Chairs: Yvonne Rosenstein, PhD, Universidad Nacional Autonoma de Mexico; Alexis Kalergis, PhD, Millennium Institute on Immunology and Immunotherapy, Universidad Católica de Chile; Guillermo Docena, PhD, FCE Universidad Nacional de La Plata

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Tuesday, June 21

7:00 am – 5:30 pm

Registration Desk Open

North Registration Desk, Lower B2 Level

7:30 am – 4:45 pm

Cancer Immunity and Immunotherapy Course

Nob Hill A/B/C, Lower B2 Level

(separate registration required)



Organized in collaboration with



7:30 am – 12:00 pm

Big Data in Immunology: Invited Talks and Hands-on Workshop

Salons 5/6, Lower B2 Level

(separate registration required)

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8:00 am **Immune Responses Induced by an Inactivated SARS-CoV-2 Vaccine in the Chilean Population**

Susan Bueno, PhD, Millennium Institute on Immunology and Immunotherapy, Universidad Católica de Chile

8:40 am **Development of a Nanoparticle-based Vaccine for COVID-19**

Guillermo Docena, PhD, FCE Universidad Nacional de La Plata

9:20 am **B Cells as Biomarkers in Patients with COVID-19 and Autoimmune Disease**

José Luis Maravillas, PhD, Red de Apoyo a la Investigación, UNAM

10:30 am **Modulating the Immunological Synapse to Enhance Immunity to Respiratory Viruses: Implications for Vaccine Design During the Pandemic**

Alexis Kalergis, PhD, Millennium Institute on Immunology and Immunotherapy, Universidad Católica de Chile

- 11:10 am Vaccines and Host-pathogen Interaction – All session Q&A**
- 11:30 am Effector Functions of Fc Receptors on Neutrophils**
Carlos Rosales, PhD, Instituto de Investigaciones Biomédicas, Universidad Nacional Autónoma de México (UNAM)
- 12:10 pm Herpes Simplex Virus Interference with Immunity: Focus on Dendritic Cells**
Pablo González, PhD, Millennium Institute on Immunology and Immunotherapy, Universidad de Chile
- 12:50 pm Modulation of B Cell Immunity by NKT Cell Activation**
Leandro Carreño, PhD, Universidad de Chile
- 1:30 pm Immune Regulation and Function – All session Q&A**
- 1:50 pm Closing Remarks**

8:00 am – 12:00 pm
The Importance of Immune Homeostasis in Ocular Inflammatory Disease

Salons 3/4

Co-Chairs: Phoebe Lin, MD, PhD, Casey Eye Institute, Oregon Health & Science University; Lynn Hassman, MD, PhD, Washington University

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- 8:00 am Introduction**
Lynn Hassman, MD, PhD, Washington University
Maintaining Immune Homeostasis in the Eye and Elsewhere
- 8:05 am Immune Surveillance of Ocular Antigens During Homeostasis**
Jamie Walsh, MD, PhD, Washington University
- 8:25 am Neuropeptide Regulation of Immune Privilege in the Eye**
Andrew Taylor, PhD, Boston University
- 8:45 am The Immunobiology of Tissue Tregs**
Jarish Cohen, MD, PhD, University of California, San Francisco
Disrupting Immune Homeostasis
- 9:05 am Biomarkers in Non-infectious Uveitis**
Shilpa Kodati, MD, National Eye Institute, NIH
- 9:25 am Proteomic Biomarkers of Inflammatory Eye Disease**
Vinit Mahajan, MD, PhD, Stanford University
- 9:45 am Distinct Immunologic Mechanisms Activate CD4 T Cells in Uveitis**
Lynn Hassman, MD, PhD, Washington University
Targeting Re-establishment of Immune Homeostasis
- 10:30 am Immunological Lessons from a Monogenic Immune Dysregulation Disorder**
Erica Schmitt, MD, PhD, Washington University
- 10:50 am Altering the Intestinal Microbiota to Re-establish Intestinal Immune Homeostasis to Treat Uveitis**
Phoebe Lin, MD, PhD, Casey Eye Institute, Oregon Health & Science University

Panelist Talks

- 11:10 am Pathogenic T Cells and Lessons from the Accelerating Medicine Partnerships Project**
Deepak Rao, MD, PhD, Brigham and Women's Hospital
- 11:20 am Germline Genetic Contribution to Cancer Immune Responsiveness**
David Bedognetti, PhD, Sidra Medicine
- 11:30 am Current and Future Status of Clinical Trials in Uveitis**
Nisha Acharya, MD, University of California, San Francisco
- 11:40 am Panelist Group Discussion**
- 11:55 am Concluding Remarks**

8:00 am – 12:00 pm
Neuroimmune Interactions in the Central Nervous System

Salons 10/11

Chair: Francisco J. Quintana, PhD, Harvard Medical School

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- 8:00 am Neural-immune Interactions in Cognitive Impairment Associated with Cancer Therapy and Long COVID**
Michelle Monje, MD, PhD, Stanford University
- 8:45 am Modulation of Microglia with Nasal Anti-CD3 for the Treatment of Progressive MS and Neurodegenerative Diseases**
Howard Weiner, MD, Brigham and Women's Hospital
- 9:30 am Immune Remodeling of Damaged CNS Barriers**
Dorian McGavern, PhD, NINDS.NIH
- 10:30 am APOE4/4 is Linked to Damaging Lipid Droplets in Alzheimer's Microglia**
Michael Seamus Haney, PhD, Stanford University
- 11:15 am Mapping CNS Cell-cell Interactions in Health and Disease**
Francisco J. Quintana, PhD, Harvard Medical School



8:00 am – 12:00 pm

Immune Responses to COVID-19 in Immunosuppressed Populations

Salons 12/13

Co-Chairs: Elaine Reed, PhD, University of California, Los Angeles; Jonathan Maltzman, MD, PhD, FASN, FAST, Stanford University School of Medicine

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8:00 am Introduction from Session Chairs

Elaine Reed, PhD and Jonathan Maltzman, MD, PhD, FASN, FAST

8:10 am An Immunogenetics View of COVID-19

Jill Hollenbach, PhD, University of California, San Francisco

8:50 am From Alpha to Omicron: The Response of T Cells

Alba Grifoni, PhD, La Jolla Institute for Immunology

9:30 am COVID-19 Vaccine Responses in Pregnancy

Ai-Ris Y Collier, MD, Beth Israel Deaconess Medical Center/Harvard Medical School

10:40 am Quantifying T Cell Responses from Needle Biopsies in Transplant Patients

Michela Locci, PhD, University of Pennsylvania

11:20 am Immune Responses to COVID-19 and Post-vaccination Neutralizing Antibodies in Hemodialysis Patients

Rupert Beale, PhD, Francis Crick Institute

12:00 pm – 2:00 pm

FOCIS Centers of Excellence (FCE) Fusion: Careers. Collaboration. Connection. (Invitation Only)

Salon 7, Lower B2 Level

1:00 pm – 5:00 pm

Member Society Symposia

1:00 pm – 5:00 pm

Stromal Cell Coordination of Inflammation and Immunity

Salons 3/4

Chair: Kevin Wei, MD, PhD, Brigham and Women's Hospital

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EDUCATION • TREATMENT • RESEARCH

1:00 pm Establishment of a Th2 Cell Niche in Skin

Maxime Kinet, MD, PhD, University of California, San Francisco

2:00 pm Stromal and Immune Interactions in the Generation and Resolution of Lung Pathology

Paul Thomas, PhD, St. Jude Children's Research Hospital

3:30 pm Vascular Fibroblasts in Rheumatoid Arthritis

Kevin Wei, MD, PhD, Brigham and Women's Hospital

4:15 pm Immunofibroblasts in Sjogren's Syndrome

Francesca Barone, PhD, University of Birmingham (UK); Candel Therapeutics

1:00 pm – 5:00 pm

Human Cytokine Deficiencies and Cytokinopathies

Salons 5/6

Co-Chairs: Dusan Bogunovic, PhD, Icahn School of Medicine at Mount Sinai; Kate Jeffrey, PhD, Moderna/Harvard University

Organized by  International Cytokine & Interferon Society

1:00 pm Cytokine Dysregulation in Autoinflammatory Disease from ELF4 Deficiency

Carrie Lucas, PhD, Yale University

1:30 pm Atopy in Immune Regulation Disorders

Josh Milner, MD, Columbia University

2:00 pm Congenital Agammaglobulinemia: New Diseases

Neil Romberg, MD, University of Pennsylvania

2:30 pm Modulation of Molecular Pathways in Nasal Mucosa by Dupilumab, Subcutaneous Immunotherapy, and the Combination

Megan O'Brien, MD, Regeneron

3:30 pm Loss of Epigenetic Reader SP140 as a Driver of Crohn's Disease

Kate Jeffrey, PhD, Moderna/Harvard University

4:00 pm Human IL2RB Mutations: From Clinical Enigma to Molecular Target

Elena Hsieh, MD, PhD, University of Colorado

4:30 pm Broad Spectrum Antivirals via Inborn Errors of Immunity

Dusan Bogunovic, PhD, Icahn School of Medicine at Mount Sinai

1:00 pm – 4:30 pm

Turning It Up and Turning It Down – Regulating Immune Responses in Mucosal Tissues

Salons 10/11

Chair: Martin Prlic, PhD, Fred Hutch Cancer Research Center

Organized by  SOCIETY FOR MUCOSAL IMMUNOLOGY

1:00 pm Regulatory T Cell Therapy for IBD

Megan Levings, PhD, The University of British Columbia

1:45 pm To Be Announced

R. Lee Reinhardt, PhD, National Jewish Health

2:30 pm Disentangling Human Tumor Immune Alterations From Non-malignant (Mucosal) Tissue Inflammation

Martin Prlic, PhD, Fred Hutch Cancer Research Center

3:15 pm The Role of Decidual Lymphocyte and Trophoblast Interactions in Maternal-Fetal Tolerance and Immunity.

Tamara Tilburgs, PhD, Cincinnati Children's Hospital

4:00 pm To Be Announced

Mitchell Kronenberg, PhD, La Jolla Institute for Immunology

1:00 pm – 5:00 pm

Inflammation, Inflammatory Triggers and Anti-inflammatory Approaches: Key Regulators Impacting Autoimmunity, Cancer and Transplantation

Salons 14/15

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

Organized by



1:00 pm Introduction

Barbara Detrick, PhD, The Johns Hopkins University

1:05 pm Next Frontier in Autoimmune Disorders: Manipulating T-regs in the Management of Type 1 Diabetes

Qizhi Tang, PhD, University of California, San Francisco

1:45 pm Modulating Donor Mitochondrial Fusion/Fission Delivers Immunoprotective Effects in Cardiac Transplantation

Satish N. Nadig, MD, Northwestern University

2:25 pm Regulating Inflammation in the Tumor Microenvironment and Uncovering Strategies to Promote Anti-tumor Immunity

Alexis Combes, PhD, University of California, San Francisco

3:30 pm Pregnancy-induced Humoral Sensitization Overrides T Cell Tolerance to Fetus-matched Allografts

Anita Chong, PhD, University of Chicago

4:15 pm Final Questions and Closing Remarks

Elaine Reed, PhD, University of California, Los Angeles

1:00 PM – 5:00 PM

Unconventional T Cells in Chronic Disease and as Targets of Therapy

Salon 12/13

Co-Chairs: Kelly McNagny, PhD, University of British Columbia; Sylvie Lesage, PhD, Université de Montréal



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CANADIAN SOCIETY FOR IMMUNOLOGY

1:00 pm Opening Remarks

Kelly McNagny, PhD, University of British Columbia

1:05 pm

Parallel Origins and Functions of T Cells and ILCs

Kelly McNagny, PhD, University of British Columbia

2:00 pm

Understanding iNKT Cell Functional Heterogeneity: Towards Immunotherapy

Thierry Mallevaey, PhD, University of Toronto

2:30pm – 3:00pm

ILCs and Applications in Tolerance-promoting Immunotherapies

Sarah Crome, PhD, University of Toronto

3:30pm – 4:00pm

Treg Dysfunction and its Implication for Cell Therapy

Caroline Lamarche, MD, MSc, Université de Montréal

4:00pm – 4:30pm

MAIT Cells as Vaccine Targets for Viral Diseases?

Mansour Haeryfar, PhD, MSc, University of Western Ontario

4:30pm – 4:55pm

Resident Memory T Cell Subsets in Bacterial and Viral Responses

Nathalie Labrecque, PhD, Université de Montréal

4:55pm – 5:00pm

Closing Remarks

Kelly McNagny, PhD, University of British Columbia

Pre-Recorded – Available Online

IgG4-related Disease – Past, Present and Future



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Immunity at the Barriers

Organized by



Effects of Microbiota on Immune Response in Allergy Prevention and Therapy

Organized by



Asia Pacific Perspectives in Allergy Asthma and Clinical Immunology

Organized by



5:30 pm – 6:15 pm

Opening Keynote Address: Dead Cell-derived Molecules in the Regulation of Inflammation and Cancer

Tadatsugu Taniguchi, PhD, Professor Emeritus and Fellow, The University of Tokyo

Salon 8

Chair: Mark Anderson, MD, PhD, University of California - San Francisco

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6:15 pm – 7:45 pm

Opening Reception: Exhibits & Poster Presentations

Salon 9

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

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Wednesday

Wednesday, June 22

7:00 am – 5:30 pm

Registration Desk Open

North Registration Desk, Lower B2 Level

8:00 am – 7:30 pm

Posters Available for Viewing

(authors optional)

Salon 9

7:45 am – 9:30 am

COVID-19 Immunology

Salon 8

Chair: Jane Grogan, PhD, Graphite Bio

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7:50 am Comparing Immune Memory Between Diverse COVID-19 Vaccines and SARS-CoV-2 Infection

Shane Crotty, PhD, La Jolla Institute for Immunology

8:15 am Understanding the Systemic Immune Response in COVID-19 - One Cell at a Time

Jonas Schulte-Schrepping, PhD Student, German Center for Neurodegenerative Diseases (DZNE)

8:40 am Scientific Breakthroughs to Help Prevent and Treat COVID-19

Mikael Dolsten, MD, PhD, Pfizer Inc.

9:05 am Distinctive Immunopathological Signatures of COVID-19 and MIS-C in Children

Luigi D. Notarangelo, MD, National Institute of Allergy and Infectious Diseases, NIH

9:30 am – 10:15 am

Networking Break

Salon 9

10:15 am – 11:45 am

Cell Trafficking in Disease

Salon 8

Chair: Stephen Adelstein, PhD, Royal Prince Alfred Hospital

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10:15 am Title To Be Announced

Andrey Shaw, MD, Genentech

10:45 am T Cell Trafficking to Lymph Nodes: Should I Stay or Should I Go?

Jonathan Bromberg, MD, PhD, University of Maryland School of Medicine

11:15 am Pathology from the Subcellular Scale on Up

Garry P. Nolan, PhD, Stanford University School of Medicine

11:30 am – 1:00 pm

Partner Program: 2022 Lupus Insight Prize Award

Ceremony

Salons 5/6

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11:00 am Lunch

11:30 am Introduction – Lupus Research Alliance Research Portfolio

Gary Koretzky, MD, PhD, Chair, Lupus Research Alliance Scientific Advisory Board; Cornell University

11:40 am Presentation of the 2022 Lupus Insight Prize to Akiko Iwasaki, PhD

11:45 am Keynote Presentation: Role of Endogenous Retroviruses in Lupus Pathogenesis
Akiko Iwasaki, PhD, Yale University

12:30 pm Presentation: Viral Infections and SLE: Lessons from Epstein Barr

Judith James, MD, PhD

11:45 am – 1:00 pm

Industry Tutorial: Comprehensive Antigen-Induced T Cell Response Profiling with BioLegend

Salons 1/2

Speaker: Rebecca Nickle, PhD, BioLegend Inc.


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11:45 am – 1:00 pm

Industry Tutorial: Digital Spatial Profiling and Single Cell Transcriptomics of Kidney Disease Caused by HIV, COVID-19 and Lupus Nephritis

Salons 3/4

Speakers: Michael Rhodes, PhD, NanoString Technologies, Shreeram Akilesh, MD, PhD, University of Washington, Shaun Jackson, MD, PhD, Seattle Children's Hospital & University of Washington

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1:00 pm – 2:45 pm

Vaccination/Protection from COVID-19

Salons 1/2

Chair: Shane Crotty, PhD, La Jolla Institute for Immunology

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biotechnologies™

1:00 pm Factors that Anticipate the Development of Long Covid

James Heath, PhD, Institute for Systems Biology

1:25 pm Inhibition of Relevant Clinical and Pathway Biomarkers in Patients with COVID-19 Pneumonia and Inflammation in a Phase 2 Multicenter Randomized Study with MAS825, an Anti-IL-1 β /IL-18 Bispecific Monoclonal Antibody

Marianna Rowlands, PhD, Novartis Institutes for Biomedical Research

1:40 pm Preclinical Development of COVID-19 Vaccines

Neeltje van Doremalen, PhD, National Institutes of Health

2:05 pm Evidence of Induction and Sustained Expression of Autoantibodies Six Months After SARS-CoV-2 Infection (Poster #W.31)

Jennifer E. Snyder-Cappione, PhD, Boston University School of Medicine

2:20 pm Consequences of Pre-existing Cross-reactive Immunity in SARS-CoV-2 Immune Responses

Andreas Thiel, PhD, BIH - Si-M / Charité-Universitätsmedizin Berlin

1:00 pm – 2:45 pm

Innate Immunity

Salons 3/4

Chair: Guillermo Docena, PhD, University of La Plata

10x
GENOMICS

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1:00 pm Balancing Tissue Immunity and Tumor Immune Surveillance Through Dendritic Cell: T Cell Cross-talk

Niroshana Anandasabapathy, MD, PhD, Weill Cornell Medicine

1:25 pm Notch2 Regulates the Homeostasis of Lung Interstitial Macrophages

Mayra Cruz Tleugabulova, Genentech

1:40 pm Requirements for Human Natural Killer Cell Development Informed by Primary Immunodeficiency

Emily Mace, PhD, Columbia University

2:05 pm Inflammatory Responses Conserved Across Human and Murine Neutrophils

Ricardo Grieshaber-Bouyer, MD, Heidelberg University Hospital

2:20 pm Targeting Macrophages for Anti-cancer Therapy

Jennifer L. Guerriero, PhD, Brigham and Women's Hospital

1:00 pm – 2:45 pm

InflammAging

Salons 5/6

Chair: Jonathan Maltzman, MD, PhD, Stanford University

1:00 pm TREM2+ Macrophages Mediate Immunosuppression in Tumors

Martina Molgora, PhD, Washington University School of Medicine

1:25 pm Aging and Autoimmunity: Down Syndrome Gives a Master Class (Poster #W.164)

Bernard Khor, MD, PhD, Benaroya Research Institute

1:40 pm Immune Cells as a Driver of Aging

Matt Yousefzadeh, PhD, University of Minnesota

2:05 pm Segregating the Regional Effects of Aging and Blood Immune Factors on Age Related Brain Atrophy (Poster #W.157)

Nikola Markov, PhD, Buck Institute for Research on Aging

2:20 pm Age-associated T Cell Dysfunction and InflammAging

Jörg J. Goronzy, MD PhD, Mayo Clinic College of Medicine and Science

2:45 pm – 3:15 pm

Networking Break

Salon 9

3:15 pm – 5:15 pm

Flow Cytometry Course: Day 1

Salons 12/13

Chair: Holden Maecker, PhD, Stanford University

3:15 pm Spectral Flow vs. CyTOF: Which Technology for Which Application?

Holden Maecker, PhD, Stanford University

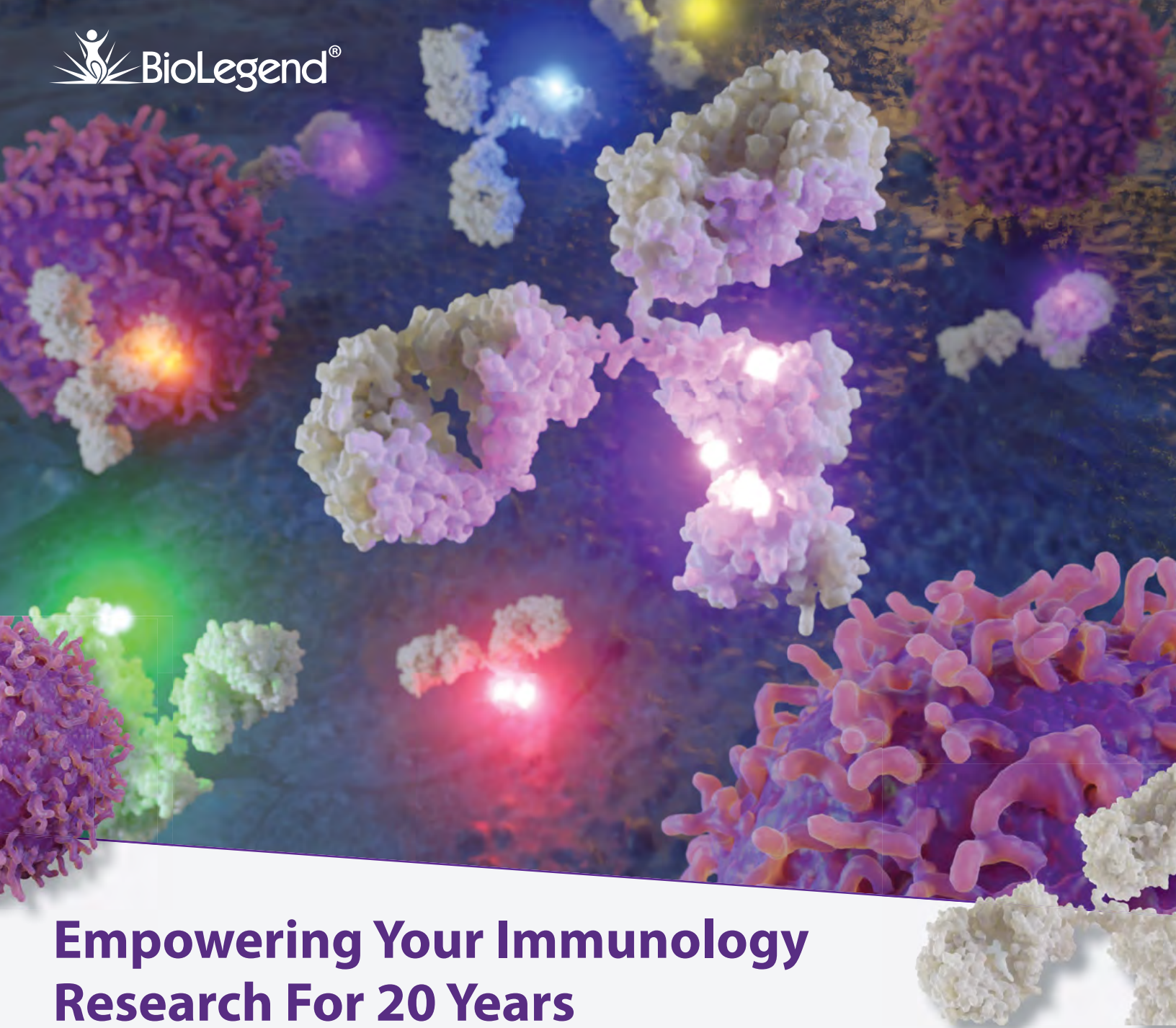
3:45 pm Panel Discussion: Flow Cytometry Best Practices

Maria Jaimes, MD, Cytex Biosciences

Bill Hyun, PhD, University of California, San Francisco

Kartoosh Heydari, MD, University of California, Berkeley





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Visit us at booth 203 to discover how our reagents can make a difference in your lab.

Industry Tutorial

Comprehensive Antigen-Induced T Cell Response Profiling with BioLegend

Rebecca Nickle, PhD

Technical Applications Scientist, BioLegend

Wednesday, June 22, 11:45 AM- 12:45 PM

Scientific Posters

Elevated anti-PEG antibody levels amongst COVID-19 vaccinated donors

Jeanne Elia, Scientist I

A versatile new monoclonal antibody for elucidating human TMPRSS2 expression and function

Susannah Kassmer, PhD, Scientist II

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3:15 pm – 5:15 pm

Oral Abstract Sessions

Immunogenetics/Immuno-engineering and Cellular Therapies

Salons 1/2

Chair: Hans-Dieter Volk, MD, Charité Berlin

3:15 pm Altered Innate and Adaptive Immune Landscape in Pediatric Patients with Glycogen Storage Disease 1b (Poster #W.131)

Arne Gehlhaar, BSc, Yale School of Medicine

3:30 pm Autoimmunity Risk Loci Tagged to CIITA and MHC Class II Impact CD8+ T Cell and Monocyte HLA-DR Expression (Poster #W.78)

Melanie R. Shapiro, PhD, University of Florida Diabetes Institute

3:45 pm Combination of ImmTOR Tolerogenic Nanoparticles and IL-2 Mutein Induces Massive Expansion of Antigen-specific Regulatory T cells (Poster #W.11)

Kei Kishimoto, PhD, Selecta Biosciences

4:00 pm CRISPR-based Functional Genomics in Primary Human T Cell Subsets Decode cis and trans Regulation of the CD28, CTLA4, and ICOS Costimulatory Locus (Poster #W.167)

Cody Mowery, MD, PhD Candidate, UCSF, Gladstone Institutes

4:15 pm Gain of Function Mutation in SKAP2 Leading to Autoimmune Diabetes (Poster #Th.171)

Chester Chamberlain, PhD, University of California, San Francisco

4:30 pm Genome-wide Prioritization of Autoimmune Disease-associated Genetic Variants in T Cells Identifies a Risk Variant that Elicits Effector T Cell Differentiation (Poster #W.161)

John Ray, PhD, Benaroya Research Institute

4:45 pm Human CD4+CD25+ Regulatory T Cells Deficient of CD226 Demonstrate Increased Purity and Lineage Stability Following Ex Vivo Expansion for Adoptive Treg Therapies (Poster #W.68)

Matthew E. Brown, BS, University of Florida Diabetes Institute

5:00 pm Regulation of Allogeneic T Cells by Human Group 2 and Group 3 Innate Lymphoid Cells and Applications for Cell Therapy (Poster #W.55)

Sarah Crome, PhD, University Health Network and University of Toronto

3:15 pm – 5:15 pm

Immunoinfectious / COVID

Salons 3/4

Chair: Marianna Rowlands, PhD, Novartis Institutes for BioMedical Research

3:15 pm B Cell Subsets as Severity-associated Signatures in COVID-19 Patients (Poster #W.112)

Víctor A. Sosa-Hernandez, MD, MSc, Cinvestav IPN

3:30 pm CGC+ CD4+ T Cells are Cytomegalovirus Specific Cells that are Biomarkers of Cardiometabolic Disease Risk in Persons with HIV (Poster #W.184)

Celestine N. Wanjalla, MD, PhD, Vanderbilt University Medical Center

3:45 pm Fc Structure and Function of Antibodies Elicited by COVID-19 mRNA Vaccine and Infection (Poster #W.185)

Tali Feferman, MSc, PhD, Weizmann Institute of Science

4:00 pm Immunological Profiles of HIV-infected and Uninfected Patients Admitted with COVID-19 in Tshwane (Poster #W.175)

Mieke A. Van der Mescht, BSc, Hons, MSc, PhD Candidate, University of Pretoria

4:15 pm Interferon Gamma Induction of TH1-like Tregs Dampens Anti-viral Responses (Poster #W.24)

Angela M. Gocher-Demske, PhD, University of Pittsburgh School of Medicine

4:30 pm Platelet Activation Through TRPC6 Mediates Cystic Fibrosis Lung Inflammation and Injury (Poster #W.179)

Michelle A. Yu, MD, PhD, University of California, San Francisco

4:45 pm Severe Mycobacterial Immune Reconstitution Inflammatory Syndrome can cause Secondary Hemophagocytic Lymphohistiocytosis with a Unique Immune and Genetic Profile (Poster #W.166)

Joseph M. Rocco, MD, National Institute of Allergy and Infectious Disease

5:00 pm Tolerogenic Dendritic Cells Engineered with a Lentiviral Vector Encoding for IL-10 and Antigen Control T Cell Responses to Pathogenic Antigens (Poster #W.4)

Laura Passerini, San Raffaele Telethon Institute for Gene Therapy (SR-Tiget), San Raffaele Scientific Institute



3:15 – 5:15 pm

Late-Breaking Abstracts

Salons 5/6

Chair: Shachi Bhatt, PhD, Journal of Experimental Medicine

3:15 pm Immune Remodelling in Advanced Adenocarcinoma by a CD40L-MUC1 Vaccine (Poster #W.17)
Wei Xin Gladys Ang, Research Fellow, SingHealth

3:30 pm Sex Differences in NK Cells Mediated by the X-linked Epigenetic Regulator UTX
Mandy Chung, University of California, Los Angeles

3:45 pm The Tumor Suppressor APC Regulates T Lymphocytes Migration: Insights from Familial Polyposis Patients (Poster #W.74)
Marta Mastrogiovanni, PhD Student, Institut Pasteur

4:00 pm A Hypermorphic Variant in CARD11 Leads to A Novel Inflammatory and Immune Regulation Disorder (Poster #W.79)
Mariam Youssef, MD, MSc, CIC, Columbia University

4:15 pm Reemergence of Pathogenic B Cell Clones in Autoimmune Myasthenia Gravis Following B Cell Depletion Therapy (Poster #W.21)
Miriam Fichtner, MD, Yale University

4:30 pm The B Cell Repertoire in Multiple Sclerosis Reveals Molecular Mimicry between EBV EBNA1 and GlialCAM (Poster #W.8)
Tobias Lanz, MD, Stanford University

4:45 pm Postnatal Depletion of Maternal Cells Shifts Splenic NK and CD8+ T-cell Profiles Toward Mature and Activated Phenotypes (Poster #Th.77)
Flore Castellán, PhD, The University of Tokyo

5:00 pm Development of a Beta-globin Gene Replacement Strategy as a Therapeutic Approach for β -Thalassemia)
Kirby Wallace, PhD, Graphite Bio

5:25 pm – 5:30 pm

Presentation of the 2022 C. Garrison Fathman Fellows Fund Trainee Travel Award

Salon 8

Chair: Megan Sykes, MD, Columbia University

5:30 pm – 6:15 pm

Robert B. Nussenblatt Presidential Lecture

Salon 8

Chair: Megan Sykes, MD, Columbia University

Mark Anderson, MD, PhD, University of San Francisco, California

Sponsored by



6:15 pm – 7:30 pm

Exhibits & Poster Presentations

Salon 9

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

7:30 pm – 8:30 pm

FOCIS Member Reception (FOCIS members only)

SoMa, Second Floor

Join us for hors d'oeuvres, drinks and fun! Let FOCIS show you how much we value you!

Not a member? Join now at the registration desk.

Congratulations!

Isaac Rosado Sánchez, PhD, BC Children's Hospital

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



The C. Garrison Fathman Fellows Fund was established to enable trainees and fellows to attend FOCIS Annual Meetings, educational courses, and to participate in exchange programs that advance human health through immunology.

Your contribution supports trainees and fellows throughout immunology. Donate online at www.focisnet.org or by calling (414) 359-1670, extension 1108.



Thursday, June 23

7:00 am – 5:30 pm

Registration Desk Open

North Registration Desk, Lower B2 Level

8:00 am – 7:30 pm

Posters Available for Viewing

(authors optional)

Salon 9

8:00 am – 8:05 am

Presentation of the 2022 *Clinical Immunology*

Trainee Award

Salon 8

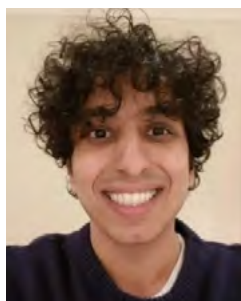
Chair: Matt Porteus, MD, PhD, Stanford University

Congratulations!

Ghamdan Al-Eryani,
Garvan Institute of
Medical Research

Winner of the annual *Clinical Immunology Trainee Award!*

Together with FOCIS, *Clinical Immunology* has established the Clinical Immunology Trainee Award for a colleague in training (student or fellow) to be selected among those who submit abstracts to the FOCIS Annual Meeting.



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8:05 am – 9:30 am

Cell Therapy

Salon 8

Chair: Matt Porteus, MD, PhD, Stanford University

Sponsored by **ThermoFisher**
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8:00 am Programming T Cell Therapies with CRISPR
Alexander Marson, MD, PhD, Gladstone-UCSF
Institute of Genomic Immunology

8:30 am Messenger RNA, A Game Changer in Cell-based
Therapies
Chantal Pichon, PhD, Center of Molecular
Biophysics, CNRS and University of Orléans

9:00 am Optimizing the Function of CAR-Tregs
Megan Levings, PhD, University of British
Columbia

9:30 am – 10:00 am

Networking Break

Salon 9

10:00 am – 10:05 am

Presentation of the 2022 British Society for Immunology

Poster Prize

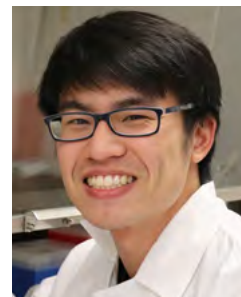
Salon 8

Chair: Lisa Butterfield, PhD, University of California, San Francisco

Congratulations!

Patrick Ho, PhD,
University of California,
San Francisco

**Winner of the first annual *British Society for Immunology (BSI)*
Poster Prize!**



Together with FOCIS, BSI has established this prize recognizing the high quality of the recipient's abstract submitted for presentation at the 22nd Annual Meeting of the Federation of Clinical Immunology Societies (FOCIS 2022).

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Immunology Societies
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British Society for
immunology

10:00 am – 11:30 am

Immunology of Cancer

Salon 8

Chair: Lisa Butterfield, PhD, University of California, San Francisco

Sponsored by 

10:00 am Deciphering the Spatiotemporal Control of Tumor
Immune Phenotype

Christine Moussion, PhD, Genentech

10:30 am Connecting T Cell Receptors to Cancer Antigens

Harlan Robins, PhD, Adaptive Biotechnologies

11:00 am Translational Learnings from BCMA and CD19
CART Cells

Kristen Hege, MD, Bristol Myers Squibb

11:30 am – 12:45 pm

**Partner Program: Achieving Gender Equality in the
Life Science World: From Compensation to Career
Opportunities in Industry and Academia**

Salons 12/13

Co-Chairs: Elaine F. Reed, PhD, UCLA; Megan Sykes, MD,
Columbia University

Panelists: Jeffrey Bluestone, PhD, Sonoma Bio; Terri Laufer,
MD, University of Pennsylvania; Gerald Nepom, MD, PhD,
Benaroya Research Institute, Maria Grazia Roncarolo, MD,
Stanford University

Speaker: Katherine Vega Stultz, President and CEO, Ocelot Bio

Sponsored by **FOCIS**
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Immunology Societies
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11:30 am Welcome, Introductions, and Session Overview

11:40 am Keynote Presentation

12:15 pm Panel Discussion

12:40 pm Closing Remarks

12:45 pm Adjourn

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11:30 am – 12:45 pm

Industry Tutorial: Powering the Age of Immune Medicine to Advance Differentiated Diagnostics and Therapeutics in Autoimmunity and Transplantation

Salons 3/4

Speakers: Catherine Sanders, MT, PhD, Adaptive Biotechnologies, Harlan Robins, PhD, Adaptive Biotechnologies, Jianing Fu, PhD, Columbia University Irving Medical Center, Columbia Center for Translational Immunology

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biotechnologies™

11:30 am – 12:45 pm

Industry Tutorial: Standardizing High-content Immune Profiling in Translational and Clinical Research: Case Studies

Salons 1/2

Speakers: Holden T. Maecker, PhD, Stanford University; Andrew Quong, PhD, Standard BioTools

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11:30 am – 12:45 pm

Industry Tutorial: T-resident Memory Cells in Solid Tumors: Just “Exhausted” or the Key to Cancer Immunotherapy?

Salons 5/6

Speaker: Bill O’Gorman, PhD, Genentech

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11:30 am – 12:45 pm

Lunch Break

Delegates on own for lunch.



12:45 pm – 2:30 pm

Metabolism/Microbiome

Salons 1/2

Chair: Silvia Gregori, PhD, Ospedale San Raffael

12:45 pm Immune Modulation by the Gut and Skin Microbiota

Michael Fischbach, MD, Stanford University

1:10 pm Commensal Myeloid Crosstalk in Neonatal Skin Regulates Long-term Cutaneous Type 17 Inflammation (Poster #Th.162)

Miqdad Dhariwala, PhD, University of California, San Francisco

1:25 pm Leveraging Immunometabolism to Enable Precision Medicine in Autoimmune and Inflammatory Diseases

Dania Rabah, PhD, Rheos Medicines

1:50 pm AMT-126: A Novel Oral GI-selective Fusion Protein Delivering IL-22 to Support Mucosal Homeostasis and Epithelial Barrier Integrity (Poster #Th.181)

Kyler A. Lugo, PhD, Applied Molecular Transport

2:05 pm Targeting the Microbiome-Immune Axis with Food
Justin Sonnenburg, PhD, Stanford University

12:45 pm – 2:30 pm

Novel Insights Into Host Defense Pathogenesis

Salons 3/4

Chair: Yanet Valdez Tejeira, PhD, Universidad Peruana Cayetano Heredia

12:45 pm Idiopathic CD4 Lymphopenia: A Reappraisal
Irina Sereti, MD, National Institute of Allergy and Infectious Diseases

1:10 pm Calibrating T Cell ‘Help’ by Antigen Cross-linking as a Universal Vaccine Platform Against Rapidly Evolving Pathogenic Viruses (Poster #Th.46)
Vamsee Mallajosyula, PhD, Stanford University

1:25 pm Ab-AIRE-ant Response: Autoimmunity, IFN, and Mucosal Candidiasis
Michail S. Lionakis, MD, ScD, National Institute of Allergy and Infectious Diseases

1:50 pm A Nine-gene Blood-based Signature Meets the World Health Organization (WHO) Target Product Profiles for Diagnosis of Active Tuberculosis and Predicting Progression from Latent to Active Disease (Poster #Th.159)
Sanjana Gupta, PhD, Stanford University

2:05 pm Autoimmune Disease Risk Alleles Affect Gene Expression Dynamically Across T Cell States
Soumya Raychaudhuri, MD, PhD, Mass General Brigham / Harvard Medical School



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Thursday, June 23 | 11:30-12:45pm
Salons 3/4, Yerba Buena Level
Marriott Marquis, San Francisco, CA



Add this event to your calendar

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FOCiS BOOTH #201

Introduction to Adaptive and Technology

CATHERINE SANDERS, MT, Ph.D.

VP, Research and Business Development,
Adaptive Biotechnologies

Development of Autoimmune Diagnostics and Therapeutics

HARLAN ROBINS, Ph.D.

Chief Scientific Officer and Co-Founder,
Adaptive Biotechnologies

HLA Restriction of T-cell Antigen Recognition of Sars-Cov2 and Application of HLA Classifier Algorithm in Human Solid Organ Transplantation Settings

JIANING FU, Ph.D.

Columbia University Irving Medical Center (CUIMC),
Columbia Center for Translational Immunology (CCTI)
Department of Medicine

Summary and Q&A

Moderator: CATHERINE SANDERS, MT, Ph.D.

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12:45 pm – 2:30 pm

Humoral Immunity

Salons 5/6

Chair: Jason Cyster, PhD, University of California, San Francisco

12:45 pm Immunodeficiency, Autoimmunity, and Increased Risk of B Cell Malignancy in Humans with TRAF3 Mutations

William Rae, MD, PhD, University of Cambridge

1:10 pm High-Throughput B Cell Epitope Determination by Next-Generation Sequencing (Poster #Th.182)

Lauren Walker, BA, Vanderbilt University

1:25 pm B Cell Cytokine Expression as a Biomarker for Immunological Reactivity and Clinical Outcomes in Kidney Transplantation

David M. Rothstein, MD, University of Pittsburgh

1:50 pm Childhood Idiopathic Nephrotic Syndrome is Characterized by Antigen-Experienced B-Cell Responses and Diminished Immunoregulation that are Differentially Targeted by Distinct Immunosuppressive Treatments (Poster #Th.52)

Tho-Alfakar Al-Aubodah, BSc, Research Institute of the McGill University Health Centre

2:0 pm Distinct Human Short-lived and Long-lived Memory B Cell Populations Revealed by mRNA Vaccination and Disease

Shiv Pillai, MD, PhD, Ragon Institute of MGH, Harvard and MIT

2:30 pm – 3:00 pm

Networking Break

Salon 9

3:00 pm – 5:00 pm

Flow Cytometry Course: Day 2

Salons 12/13

Chair: Holden Maecker, PhD, Stanford University

3:00 pm The Rise of AbSeq for Single-Cell Cytometry

Holden Maecker, PhD, Stanford University

3:30 pm Panel Discussion: Mass Cytometry Best Practices

Panelists: David Glass, PhD, Fred Hutchinson Cancer Research Center; Michael Leipold, PhD, Stanford University; Elena Hsieh, MD, University of Colorado

3:00 pm – 5:00 pm

Oral Abstract Sessions

Immuno-oncology / Stem Cell and Organ Transplantation

Salons 1/2

Chair: Kavita Dhodapkar, MBBS, Emory University

Sponsored by 

3:00 pm Anti-TIGIT Antibodies Promote Immune Activation in Combination with Immunotherapeutic Agents (Poster #Tu.83)

Dana Piovesan, Arcus Biosciences

3:15 pm A New Lens into the Tissue-Specific Landscape of the T Cell Repertoire in Human Graft-Versus-Host-Disease (Poster #Th.160)

Susan DeWolf, MD, Memorial Sloan Kettering Cancer Center

3:30 pm Detection and Clonal Dynamics of Alloreactive T Cells in a Kidney Transplant Recipient Experiencing Acute Rejection After Immune Checkpoint Inhibitor Therapy (Poster #Th.169)

Garrett S. Dunlap, Graduate Student, Brigham and Women's Hospital

3:45 pm Differentiation of Human iPSC into Functional Thymic Organoids for *in vitro* T Cell Generation and Cell Therapy (Poster #Th.168)

Nathan Provin, MD, Center for Research in Transplantation and Translational Immunology (CRTI) / INSERM / Nantes Université

4:00 pm Induction of a T Cell Intrinsic DNA Damage and Repair Response is Associated with Clinical Response to PD-1 Blockade (Poster #Th.165)

Yuki Muroyama, MD, PhD, Institute for Immunology, Perelman School of Medicine, University of Pennsylvania

4:15 pm Renal Allograft Rejection: New Paradigms in T Cell Reactivity Revealed by Single Cell RNAseq Analysis (Poster #Th.64)

Tiffany Shi, MD, PhD Candidate, Cincinnati Children's Hospital Medical Center

4:30 pm Single Cell and Spatially Resolved Analysis of Tissues by Integrated RNA and Protein Multi-omics Identifies Novel Tumour-infiltrating Lymphocyte Phenotypes (Poster #Th.47)

Ghamdan Al-Eryani, PhD, Garvan Institute of Medical Research

4:45 pm The CDKN2A Deletion Influences the Establishment of the Tumor Immune Microenvironment of Pancreatic Ductal Adenocarcinoma (Poster #Th.178)

Orianne Cuelenaere-Bonizec, PhD Candidate, Institut Mondor de Recherche Biomédicale, Inserm U955



3:00 pm – 5:00 pm

Mechanisms of Immune Disregulation

Salons 3/4

Chair: Irini Sereti, MD, National Institute of Allergy and Infectious Diseases

- 3:00 pm Autoreactive CD8+ T Cells are Restrained by an Exhaustion-like Program that is Maintained by LAG3 (Poster #Th.45)**
Stephanie Grebinoski, BS, University of Pittsburgh
- 3:15 pm Dysregulated Transferrin Receptor Disrupts T Cell Iron Homeostasis to Drive Inflammation in Systemic Lupus Erythematosus (Poster #Th.49)**
Kelsey Voss, PhD, Vanderbilt University Medical Center
- 3:30 pm IL-33 and IL-4 Synergize to Dysregulate TREG Cell Function and Promote Type 2 Responses in RSV-induced Asthma (Poster #Th.25)**
Fernando Alvarez, PhD, McGill University
- 3:45 pm Multi-omic Profiling in Celiac Disease Reveals Somatic Driver Mutations in Rogue T cell Clones (Poster #Th.99)**
Mandeep Singh, PhD, Garvan Institute of Medical Research
- 4:00 pm Single-cell Transcriptomics of Human Alopecia Areata Reveals Clonally Expanded and Activated CD4+ and CD8+ T-cell Populations**
Chen Wang, MD, PhD, Stanford University
- 4:15 pm Phenotype-based Isolation of Antigen-specific CD4+ T cells in Autoimmunity: A Study of Celiac Disease (Poster #Tu.106)**
Marketa Chlubnova, PhD Candidate, University of Oslo
- 4:30 pm Two Sources of Autoreactive T Cells in Patients with FOXP3 Mutations (Poster #Th.183)**
Simon Born, PhD, Stanford University
- 4:45 pm Understanding the T Cell Repertoire in Autoimmune Diseases Using High-dimensional Single-cell Analysis of Antigen-specific CD4+ and CD8+ T cells (Poster #Th.177)**
William Ruff, PhD, Repertoire Immune Medicines

3:00 pm – 5:00 pm

Therapies for Autoimmune Disease

Salons 5/6

Chair: Jo Viney, PhD, Seismic Therapeutic

- 3:00 pm Anti-CD45RC Antibody Immunotherapy Prevents and Treats Experimental Autoimmune PolyEndocrinopathy Candidiasis Ectodermal Dystrophy Syndrome (Poster #W.3)**
Carole Guillonnet, PhD, Nantes Université
- 3:15 pm Developing Islet Antigen-Specific Regulatory T Cell For Therapy in Type 1 Diabetes (Poster #Th.33)**
Emilie Ronin, PhD, University of California, San Francisco
- 3:30 pm Elucidating Inflammation-induced Cell Fate Decisions in Primary Human Tregs (Poster #Th.50)**
Patrick Ho, PhD, University of California, San Francisco

3:45 pm Pancreas-Specific CAR Tregs for the Therapy of Type 1 Diabetes (Poster #Th.176)

Tom Pieper, MSc, Hannover Medical School

4:00 pm Preclinical Evaluation of a Precision Medicine Approach to DNA Vaccination in Type 1 Diabetes (Poster #Th.172)

Remi Creusot, PhD, Columbia University Medical Center

4:15 pm Reduced CD8 T Cell Exhaustion in DR4 Risk Subjects is Selectively Augmented with Abatacept in RA (Poster #Th.75)

S. Alice Long, PhD, Benaroya Research Institute

4:30 pm Role of Peptide Modification and Multivalent Delivery on the Efficacy and Safety of Peptide-based Immunotherapy in Type 1 Diabetes (Poster #W.42)

Remi Creusot, PhD, Columbia University Medical Center

4:45 pm Plasma Levels of the MiR-193b/365a Cluster in Combination with Clinical Parameters Predict Response to Lactococcus Lactis-based Antigen-specific Combination Therapy (Poster #W.36)

Gabriele Sassi, PhD Student, KU Leuven

5:15 pm – 5:25 pm

State of FOCIS

Salon 8

Mark Anderson, MD, PhD, University of California, San Francisco; FOCIS President

5:30 pm – 6:15 pm

Keynote Address: Applications of PhIP-Seq for Autoimmune Profiling

Joseph DeRisi, PhD, University of California, San Francisco
Salon 8

Chair: Joshua Milner, MD, Columbia University

6:15 pm – 7:30 pm

Exhibits & Poster Presentations

Salon 9

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

Reception sponsored by



Friday, June 24

7:00 am – 2:00 pm

Registration Desk Open

North Registration Desk, Lower B2 Level

8:00 am – 9:30 am

Immune Regulation Disorders

Salon 8

Chair: Maria Grazia Roncarolo, MD, Stanford University

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8:00 am **Somatic Mutations and Autoinflammation**

David B. Beck, MD, PhD, New York University School of Medicine

8:30 am **New Monogenic Causes of Hemophagocytic Lymphohistiocytosis**

Yenan T. Bryceson, PhD, Karolinska Institutet

9:00 am **Novel IKZF1 Defects Causing Immune Dysregulation Symptoms**

Sylvain Latour, PhD, Institut Des Maladies Genetiques

9:30 am – 10:00 am

Networking Break

Yerba Buena Grand Assembly

10:00 am – 11:30 am

New Themes in Autoimmunity

Salon 8

Chair: Jane Buckner, MD, Benaroya Research Institute

Sponsored by



10:00 am **Linking Variation in CD8 T Cell Exhaustion with T1D Disease Progression**

S. Alice Long, PhD, Benaroya Research Institute

10:30 am **From the Laboratory to the Clinic: Anti-TNF and Anti-IL-23 Combination Therapy in Inflammatory Bowel Disease**

Jennifer E. Towne, PhD, Janssen Pharmaceuticals

11:00 am **New Monogenic Causes of Human Autoimmune Diseases**

Frédéric Rieux-Laucat, PhD, Institut Des Maladies Genetiques

11:45 am – 12:30 pm

Keynote Address: Co-opting Immune Cells to Support Cancer Progression Through Metabolic Reprogramming

Salon 8

Chair: Jane Grogan, PhD, Graphite Bio

Susan Kaech, PhD, Salk Institute for Biological Studies

12:45 pm – 2:00 pm

Industry Tutorial: Advantages of TCR Sequencing and HLA Typing for Biomarker Research in Immuno-oncology

Salons 1/2

Speakers: Michelle Toro, MS, Thermo Fisher Scientific;

Rudy Zhao, PhD, MBA, Thermo Fisher Scientific; Loni Pickle,

Thermo Fisher Scientific

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12:45 pm – 2:00 pm

Partner Program: Getting Your NIH Grant Application to The Good Place

Salons 5/6

Speakers: Thomas R. Esch, PhD, DAIT/NIAID/NIH/DHHS; Anuja

Mathew, PhD, NIH

Organized by



12:45 pm – 2:00 pm

Partner Program: Journal of Experimental Medicine (JEM): Meet the Editor

Salons 3/4

Speaker: Shachi Bhatt, PhD, Executive Editor, Journal of Experimental Medicine (JEM)

Sponsored by



12:45 pm – 2:00 pm

Lunch Break

Delegates on their own for lunch.

2:00 pm – 3:45 pm

Neuroimmunology

Salons 1/2

Chair: Terri Laufer, MD, University of Pennsylvania

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2:00 pm **Pathogenic Mechanisms in Aire-deficient Inflammatory Neuropathy**

Maureen A. Su, MD, University of California, Los Angeles

2:25 pm **Increased Intrathecal Activity of Follicular Helper T Cells in Patients with Relapsing-Remitting Multiple Sclerosis (Poster #Th.89)**

Rikke Holm Hansen, MSc, Danish Multiple Sclerosis Center, Rigshospitalet

2:40 pm **Neuroimmune Control of Allergic Immunity**
Caroline Sokol, MD, PhD, Massachusetts General Hospital, Harvard Medical School

3:05 pm **Clonally Expanded CD8 T Cells Are Recruited to the CSF in Neurosarcoidosis Through the Chemokine Receptors CXCR3 and CXCR4 (Poster #Th.37)**

Michael M. Paley, MD, PhD, Washington University in St. Louis

3:20 pm **Developing an Innovative CNS Targeted Therapy for Aicardi-Goutières Syndrome**

Terry Fang, PhD, Biogen

2:00 pm – 3:45 pm

Drivers of Inflammation

Salons 3/4

Chair: Jane Grogan, PhD, Graphite Bio

2:00 pm **Mechanisms By Which Sex Hormones Regulate Allergic Airway Inflammation**

Dawn C. Newcomb, PhD, Vanderbilt University School of Medicine

2:25 pm **Antigen Specific T Cell Phenotypes Distinguishes Type 1 Diabetes Patients with High or Low Residual C-peptide (Poster #Th.17)**

Hai T. Nguyen, PhD, Benaroya Research Institute

2:40 pm **Human Immune Responses to Intestinal Microbes in Development and Prevention of Type 1 Diabetes**

Jayne Danska, PhD, The Hospital for Sick Children Research Institute - University of Toronto

3:05 pm **The Minor Allele of a Single Nucleotide Polymorphism in SH2B3 Promotes CD8+ T Cell IFN γ Production, Hypertension Development, and Renal Damage (Poster #Th.163)**

Matt Alexander, MD, PhD, Vanderbilt University Medical Center

3:20 pm **The Impact of Sex on Alloimmunity**

Stefan G. Tullius, MD, PhD, FACS, Brigham & Women's Hospital/Harvard Medical School

2:00 pm – 3:45 pm

Type 2 Allergic Immunity

Salons 5/6

Chair: Andrey Shaw, MD, Genentech

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2:00 pm **Epithelial Cell Responses to TGF Beta Control Tissue Specific Allergic Inflammation**

Pamela Guerrero, MD, PhD, National Institute of Allergy and Infectious Disease

2:25 pm **Fel d 1 Monoclonal Antibody Combination Modulates Asthma and Allergic Molecular Pathways in Nasal Mucosa Upon Cat Allergen Challenge in a Phase 2, Randomized, Double-blind, Placebo-controlled Study**

Meagan O'Brien, MD, Regeneron Pharmaceuticals, Inc.

2:40 pm **The Translational Neuro-Immune Skin Axis**

Brian S. Kim, MD, Icahn School of Medicine at Mount Sinai

3:05 pm **Reduced mTORC1 Signal in Autosomal Dominant Hyper-IgE Syndrome Can Be Partially Rescued with Addition of Exogenous Glutamine (Poster #Th.183)**

Enrica Calzoni, PhD Candidate, Columbia University

3:20 pm **Dynamics of Type 2 Lymphocyte Niches**

Ari B. Molofsky, MD, PhD, University of California, San Francisco

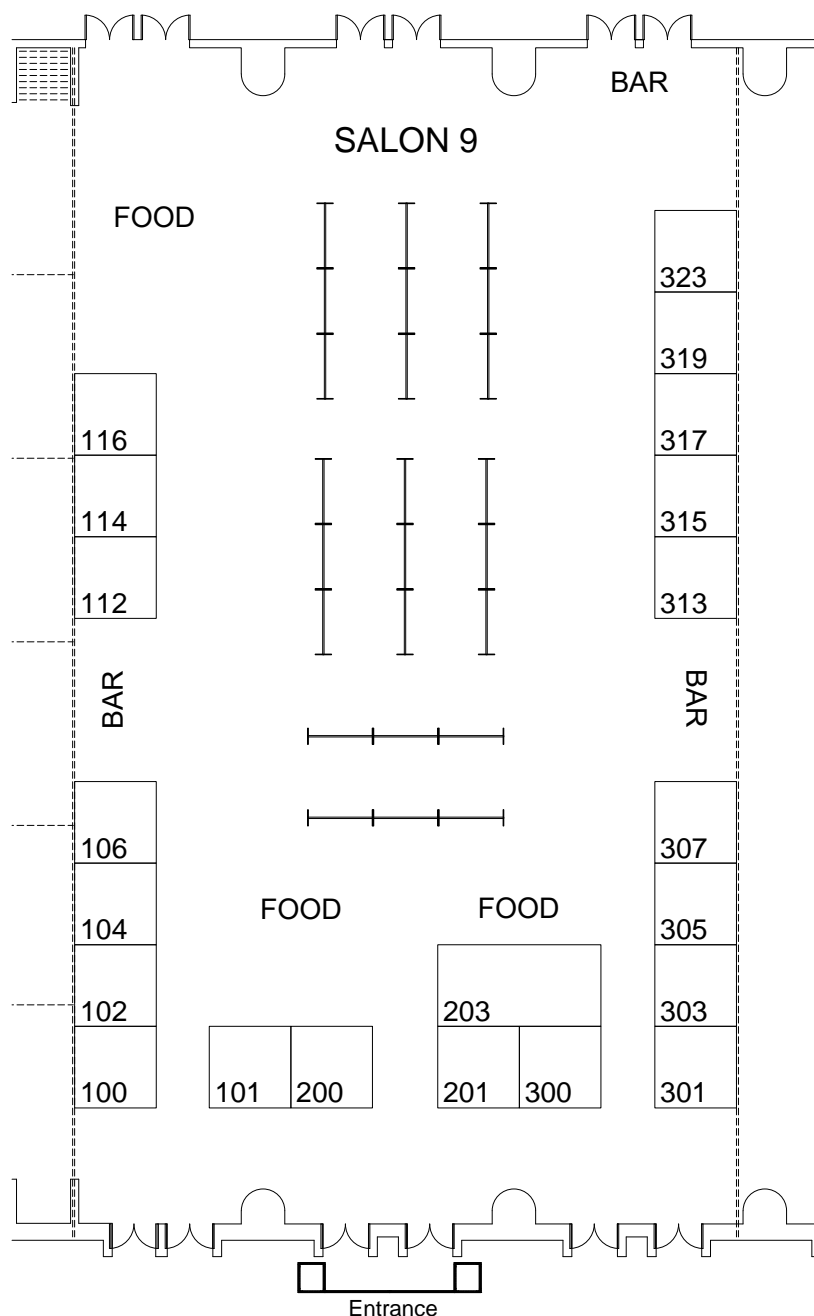


FOCIS 2022 Exhibitors

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

Exhibitor Listing and Floor Plans

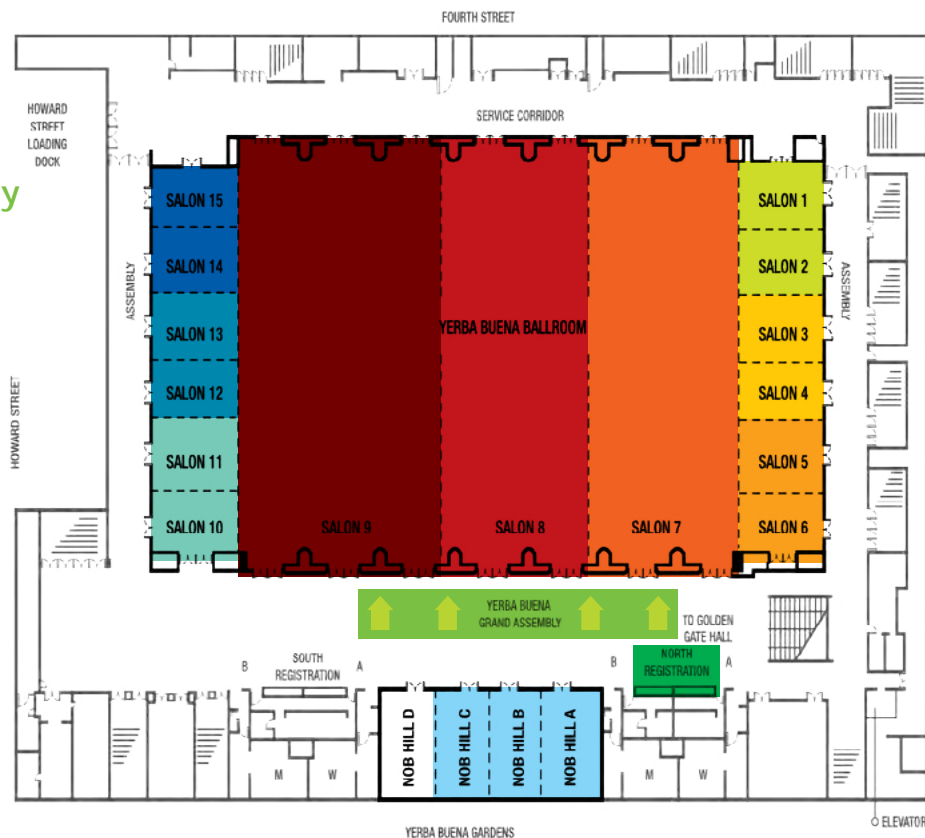
| Organization | Booth |
|---|-------|
| Immudex | 100 |
| 10x Genomics | 101 |
| NanoString Technologies..... | 102 |
| Cytex Biosciences | 104 |
| Immune Epitope Database & Analysis Resource (IEDB) | 106 |
| Lupus Research Alliance | 112 |
| The Transplantation Society/Women in Transplantation | 114 |
| FOCIS | 116 |
| Bio X Cell | 200 |
| Adaptive Biotechnologies | 201 |
| BioLegend..... | 203 |
| Standard BioTools | 300 |
| Olink Proteomics..... | 301 |
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| JPT Peptide Technologies..... | 319 |
| Janssen Research & Development..... | 323 |



FOCIS 2022 Hotel Floor Plan

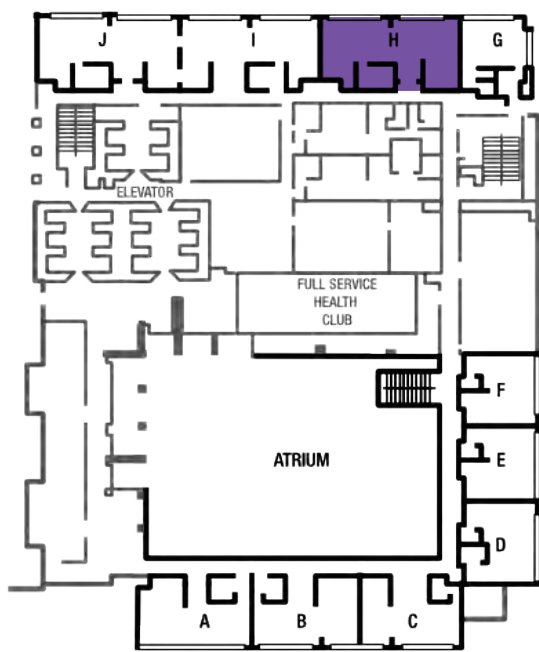
LOWER B2 LEVEL

- 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



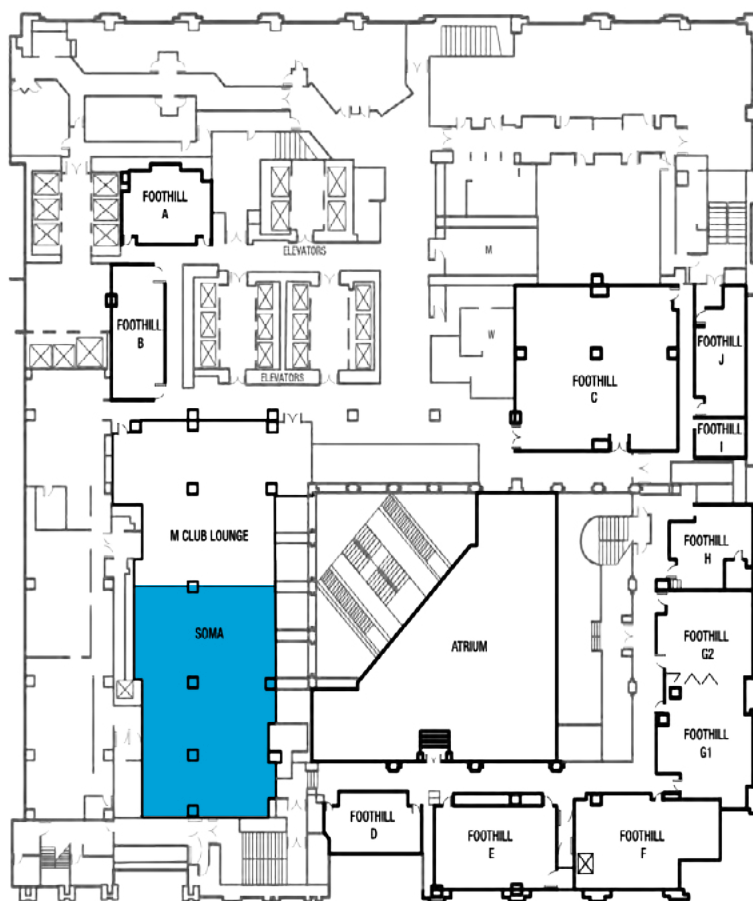
PACIFIC (FOURTH FLOOR)

- Pacific H



SECOND LEVEL

- SoMa





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Dolsten, Mikael: Pfizer Inc. (9)

Fang, Terry: Biogen (9, 10, 11)

Guerriero, Jennifer: Codagenix (1), Duke Street Bio (1), GlaxoSmithKline (7), KOWA (1), Merck (7), Pfizer (1)

Heath, James: IndiMolecular (1), IsoPlexis (1), PACT Therapeutics (1)

Hege, Kristen: Bristol Myers Squibb (5, 9, 10, 11)

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Marson, Alexander: 23andMe (1,2), Amgen (1), Arsenal Biosciences (1, 2, 3, 4, 5), Fate (3), Gilead (Spouse/Partner) (6, 7, 8, 9, 10, 11), GlaxoSmithKline (6, 7, 8, 9, 10, 11), Juno Therapeutics, Inc. (3), NewLimit (1, 2, 5), Spotlight Therapeutics (1, 2, 4, 5), Survey Genomics (1, 2, 4, 5), Vertex Pharmaceuticals (1, 2)

Moussion, Christine: Roche-Genentech (9)

Pichon, Chantal: Sanofi (7, 8)

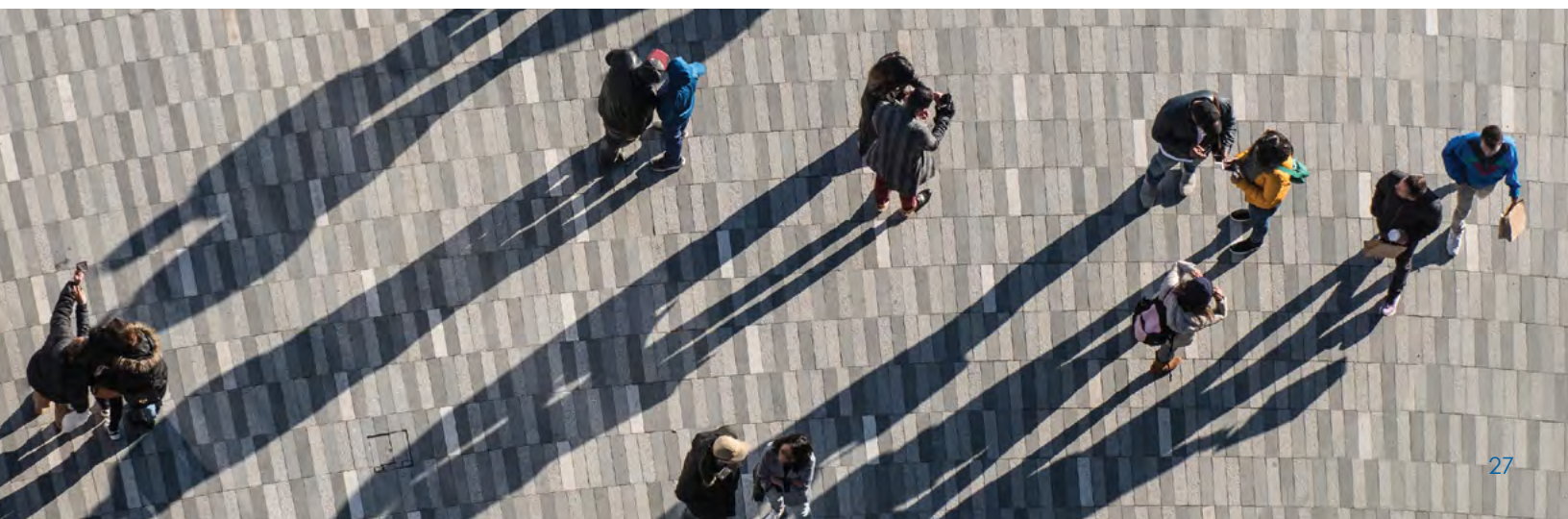
Rabah, Dania: Rheos Medicines (9)

Rae, William: AstraZeneca (9, 10, 11)

Robins, Harlan: Adaptive Bitoechnologies (5, 9, 10, 11)

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Towne, Jennifer: Janssen Research & Development, LLC (5, 9)



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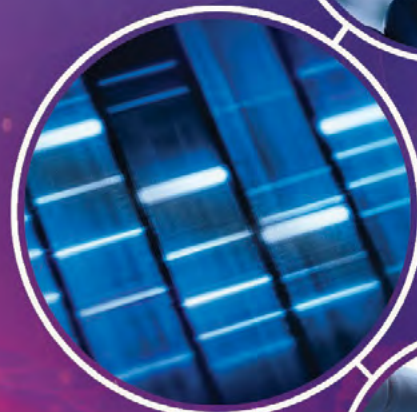
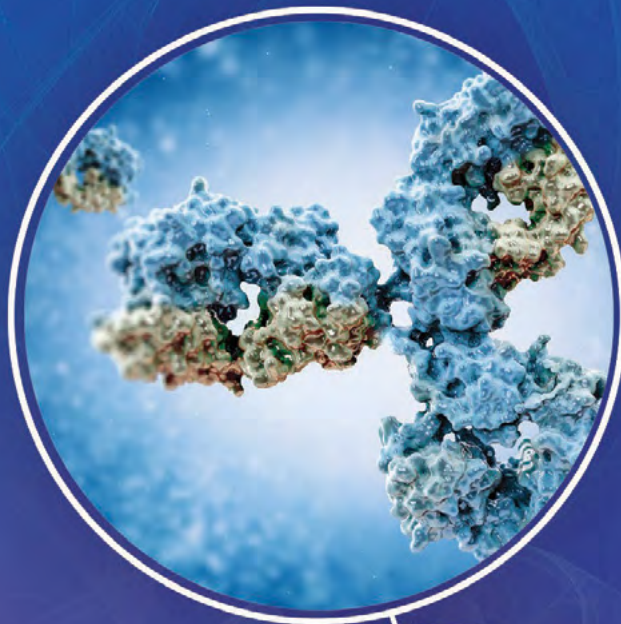


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Regeneron is pleased to support the Federation of Clinical Immunology Societies as the 2022 Annual Meeting returns to in-person format.

Please join us at our sponsored thematic symposium – “Type 2 Allergic Immunity” – on Friday, June 24 from 2:00 p.m. to 3:45 p.m. PT.

At Regeneron we push the boundaries of science to make life-changing medicines. For nearly 35 years, our mission has been to use the power of science to bring new medicines to patients... over and over again. Every day, we apply our homegrown technologies and relentless spirit to help people with serious diseases.



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ANNUAL MEETING

BOSTON-2023

JUNE 20-23

FOCIS 2022 Program Overview

Monday, June 20, 2022

| | | |
|-------------------|---|-----------------|
| 7:30 am – 5:00 pm | Systems Immunology Course <i>(separate registration required)</i> | Salons 13/14/15 |
| 8:00 am – 5:30 pm | Basic Immunology in Medicine Course <i>(separate registration required)</i> | Salons 10/11/12 |

Tuesday, June 21, 2022

| | | |
|--------------------|---|----------------|
| 7:30 am – 12:00 pm | Big Data in Immunology Workshop <i>(pre-meeting workshop, separate registration required)</i> | Salon 5/6 |
| 7:30 am – 4:45 pm | Cancer Immunity & Immunotherapy <i>(pre-meeting workshop, separate registration required)</i> | Nob Hill A/B/C |
| 8:00 am – 12:00 pm | Immune Responses to COVID-19 in Immunosuppressed Populations | Salons 12/13 |
| 8:00 am – 2:00 pm | Latin American Immunology Symposium | Salons 1/2 |
| 8:00 am – 12:00 pm | Neuroimmune Interactions in the Central Nervous System | Salons 10/11 |
| 8:00 am – 12:00 pm | The Importance of Immune Homeostasis in Ocular Inflammatory Disease | Salons 3/4 |
| 1:00 pm – 5:00 pm | Stromal Cell Coordination of Inflammation and Immunity | Salons 3/4 |
| 1:00 pm – 5:00 pm | Inflammation, Inflammatory Triggers and Anti-inflammatory Approaches: Key Regulators Impacting Autoimmunity, Cancer and Transplantation | Salons 14/15 |
| 1:00 pm – 5:00 pm | Unconventional T Cells in Chronic Disease and as Targets of Therapy | Salons 12/13 |
| 1:00 pm – 5:00 pm | Human Cytokine Deficiencies and Cytokinopathies | Salons 5/6 |
| 1:00 pm – 4:30 pm | Turning It Up and Turning It Down – Regulating Immune Responses in Mucosal Tissues | Salons 10/11 |
| 5:30 pm – 6:15 pm | Opening Keynote Address: Dead Cell-derived Molecules in the Regulation of Inflammation and Cancer | Salon 8 |
| 6:15 pm – 7:45 pm | Opening Exhibit & Poster Reception | Salon 9 |

Wednesday, June 22, 2022

| | | |
|---------------------|---|--------------|
| 7:45 am – 9:30 am | COVID-19 Immunology | Salon 8 |
| 10:15 am – 11:45 am | Cell Trafficking in Disease | Salon 8 |
| 11:45 am – 1:00 pm | Industry Tutorial: BioLegend | Salons 1/2 |
| 11:45 am – 1:00 pm | Industry Tutorial: NanoString Technologies | Salons 3/4 |
| 11:30 am – 1:00 pm | Partner Program: Lupus Research Alliance | Salons 5/6 |
| 1:00 pm – 2:45 pm | InflammAging | Salons 5/6 |
| 1:00 pm – 2:45 pm | Innate Immunity | Salons 3/4 |
| 1:00 pm – 2:45 pm | Vaccination/Protection from COVID-19 | Salons 1/2 |
| 3:15 pm – 5:15 pm | Flow Cytometry Course | Salons 12/13 |
| 3:15 pm – 5:15 pm | Immunoinfectious / COVID-19 | Salons 3/4 |
| 3:15 pm – 5:15 pm | Immunogenetics / Immuno-engineering and Cellular Therapies | Salons 1/2 |
| 3:15 pm – 5:15 pm | Late Breaking Oral Abstract Session | Salons 5/6 |
| 5:30 pm – 6:15 pm | Keynote Address: Robert B. Nussenblatt Presidential Lecture | Salon 8 |
| 6:15 pm – 7:30 pm | Exhibit and Poster Reception | Salon 9 |
| 7:30 pm – 8:30 pm | FOCIS Member Reception | SoMa |

Thursday, June 23, 2022

| | | |
|---------------------|--|--------------|
| 8:00 am – 9:30 am | Cell Therapy | Salon 8 |
| 10:00 am – 11:30 am | Immunology of Cancer | Salon 8 |
| 11:30 am – 12:45 pm | Industry Tutorial: 10x Genomics | Salons 5/6 |
| 11:30 am – 12:45 pm | Industry Tutorial: Adaptive Biotechnologies | Salons 3/4 |
| 11:30 am – 12:45 pm | Industry Tutorial: Standard BioTools | Salons 1/2 |
| 11:30 am – 12:45 pm | Partner Program: WICI/WIT | Salons 12/13 |
| 12:45 pm – 2:30 pm | Humoral Immunity | Salons 5/6 |
| 12:45 pm – 2:30 pm | Metabolism/Microbiome | Salons 1/2 |
| 12:45 pm – 2:30 pm | Novel Insights Into Host Defense Pathogenesis | Salons 3/4 |
| 3:00 pm – 5:00 pm | Flow Cytometry Course | Salons 12/13 |
| 3:00 pm – 5:00 pm | Immuno-oncology / Stem Cell and Organ Transplantation | Salons 1/2 |
| 3:00 pm – 5:00 pm | Mechanisms of Immune Dysregulation | Salons 3/4 |
| 3:00 pm – 5:00 pm | Therapies for Autoimmune Disease | Salons 5/6 |
| 5:15 pm – 5:25 pm | State of FOCIS | Salon 8 |
| 5:25 pm – 6:10 pm | Keynote Address: Applications of PhIP-Seq for Autoimmune Profiling | Salon 8 |
| 6:15 pm – 7:30 pm | Exhibit & Poster Reception | Salon 9 |

Friday, June 24, 2022

| | | |
|---------------------|---|------------|
| 8:00 am – 9:30 am | Immune Regulation Disorders | Salon 8 |
| 10:00 am – 11:30 am | New Themes in Autoimmunity | Salon 8 |
| 11:45 am – 12:30 pm | Keynote Address: Co-opting Immune Cells to Support Cancer Progression Through Metabolic Reprogramming | Salon 8 |
| 12:45 pm – 2:00 pm | Partner Program: JEM | Salons 3/4 |
| 12:45 pm – 2:00 pm | Partner Program: NIH Grant Session | Salons 5/6 |
| 12:45 pm – 2:00 pm | Industry Tutorial: Thermo Fisher Scientific | Salons 1/2 |
| 2:00 pm – 3:45 pm | Drivers of Inflammation | Salons 3/4 |
| 2:00 pm – 3:45 pm | Neuroimmunology | Salons 1/2 |
| 2:00 pm – 3:45 pm | Type 2 Allergic Immunity | Salons 5/6 |