

June 18-21



ANNUAL MEETING
San Francisco
CALIFORNIA

SCIENTIFIC PROGRAM





FOCIS 2024 Annual Meeting Preliminary Program

As of May 8, 2024

Monday, June 17, 2024

Pre-Meeting FOCISed Courses (separate registration required)

7:30 AM – 4:30 PM

Systems Immunology Course

Program Chairs:

Emanuele de Rinaldis, PhD, Sanofi

Magnus Fontes, PhD, Roche

Tuesday, June 18, 2024

Pre-Meeting FOCISed Courses (separate registration required)

8:00 AM – 5:30 PM

Basic Immunology in Medicine Course

Program Chairs:

Abul Abbas, MD, University of California, San Francisco

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

7:30 AM – 12:00 PM

Big Data in Immunology (ImmPort) Workshop

Faculty and agenda coming soon

Member Society Symposia (specific session start and end times vary)

8:00 AM – 11:30 AM

Canadian Society for Immunology

Crosstalk Between Stress and Immunity

8:00 AM – 11:30 AM

American Society of Transplantation in Partnership with the American Society of Histocompatibility and Immunogenetics and The Transplantation Society

New Frontiers in B Cell/Antibody Responses



FOCIS 2024 Annual Meeting Preliminary Program

As of May 8, 2024

8:00 AM – 11:30 AM

Society for Decoding Autoimmunity in Partnership with JDRF International, Lupus Research Alliance, and the National MS Society

Investigating Common Mechanisms of Autoimmunity

8:00 AM – 9:30 AM

Society for Mucosal Immunology

Immunity at the Intestinal Barrier

10:00 AM – 11:30 AM

European Academy of Allergy and Clinical Immunology in Partnership with the European Mast Cell and Basophil Research Network

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

1:30 PM – 3:00 PM

The Japanese Society of Clinical Immunology

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

1:30 PM – 5:00 PM

The APS Type 1 Foundation in Partnership with NIAID and the Clinical Immunology Society

APS1 and Immune Tolerance: From Basic Biology to Clinical Translation

1:30 PM – 5:00 PM

Millennium Institute on Immunology and Immunotherapy in Partnership with the Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán; Mexican Translational Immunology Research Group; Instituto de Estudios Inmunológicos y Fisiopatológicos; Centre of Translational Immunology at the Institut Pasteur de Montevideo

Latin-American Immunologists Symposium

1:30 PM – 5:00 PM

Association of Medical Laboratory Immunologists in Partnership with the American Society of Histocompatibility and Immunogenetics

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

1:30 PM – 3:00 PM

European Mast Cell and Basophil Research Network in Partnership with the European Academy of Allergy and Clinical Immunology

Advances in Mast Cell Research



FOCIS 2024 Annual Meeting Preliminary Program

As of May 8, 2024

3:30 PM – 5:00 PM

International Cytokine and Interferon Society

IL-9: From Birth to Breath

3:30 PM – 5:00 PM

Asia Pacific Association for Allergy, Asthma & Clinical Immunology

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

Opening Keynote Address

5:30 PM – 6:15 PM

Xenotransplantation

Robert Montgomery, MD, NYU Langone Transplant Institute

Opening Reception: Exhibits and Poster Reception (authors present)

6:15 PM – 7:30 PM

Wednesday, June 19, 2024

Plenary Sessions

8:00 AM – 9:30 AM

Novel Pathways and Approaches in Allergic Disease

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

Morning Break

9:30 AM – 10:00 AM

Plenary Sessions

10:00 AM – 11:30 AM

Precision Therapeutics in Mucosal Disorders

10:00 AM Microbial Host Defense and Influence in Cancer

Florencia McAllister, MD, MD Anderson Cancer Center



FOCIS 2024 Annual Meeting Preliminary Program

As of May 8, 2024

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

Industry and Partner Lunch Programs

11:30 AM – 1:00 PM

Announced in April 2024

Thematic Symposia

1:00 PM – 2:45 PM

Inborn Errors of Immunity

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

Helen Su, MD, PhD, National Institute of Allergy & Infectious Disease

1:25 PM STAT1 Gain-of-function Leads to Dysfunctional T Regulatory Cells

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

Hwi Gil, Vanderbilt University Medical Center

2:20 PM Genetic Architecture of Inborn Errors of Immunity

Dusan Bogunovic, PhD, Columbia University

Immune Responses to GT/Therapeutics

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

Federico Mingozi, PhD, Nava Therapeutics

1:25 PM PanTreg: A Cell-therapy, System-biology - Based Approach for Therapy of Autoimmunity

Salvatore Albani, MD, PhD, Translational Immunology Institute, 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

Mario Vazquez, IDIBAPS

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

Gustavo Mostoslavsky, MD, PhD, Boston Children's Hospital



FOCIS 2024 Annual Meeting Preliminary Program

As of May 8, 2024

Systems Immunology & AI

- 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
Alma-Martina Cepika, MD, PhD, Stanford University
- 1:40 PM Single-cell to Tissue – Scale Memory in the Nose
Jose Ordovas-Montanes, PhD, Harvard University
- 2:05 PM Unsupervised and Supervised Machine Learning Promotes Translational Research of Autoimmune Diseases
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

Afternoon Break

2:45 PM – 3:15 PM

Oral Abstract Sessions

3:15 PM – 5:15 PM

Immunogenetics

- 3:15 PM Local Intestinal Eosinophilic Activation Triggered by Defective Epithelial TGF- β Signaling Underlies IPO8 Deficiency
Marianna Parlato, PhD, Institut Imagine
- 3:30 PM CLEC16A-driven Mitophagy Limits Astrocyte Proinflammatory Activities
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
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
Marilia Cascalho, University of Michigan
- 4:15 PM Oral Pathobionts Promote CRC Development by Alteration of the Host Epigenome and Immunomic Microenvironment
Shirin Eyvazi Khasraghi, MSc, PhD, Mayo Clinic
- 4:30 PM Mechanistic Investigation of Human DPP9 Deficiency
Tianli Xiao, PhD, Yale University
- 4:45 PM Abnormal STAT3 Signaling in Fibroblasts Promotes Staphylococcal Growth and Abnormal Tissue Response to Infection
Miao Chen, PhD, Columbia University
- 5:00 PM Genome-Wide Autoimmune Genetic Variant Perturbations Connect Genetic Risk to Primary T Cell Expression And Function
John Ray, PhD, Benaroya Research Institute



FOCIS 2024 Annual Meeting Preliminary Program

As of May 8, 2024

Autoimmunity and Transplantation

- 3:15 PM The Role of Recipient $\gamma\delta$ T Cells in Graft Rejection After Human Intestinal Transplantation
Jianing Fu, PhD, Columbia University
- 3:30 PM Inferring Disease Mechanisms in Lupus Nephritis: Lessons from the Accelerating Medicines Partnership (AMP) in SLE Consortium
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
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
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
Hai Nguyen, PhD, Benaroya Research Institute
- 4:45 PM BiTEing Multi-drug Resistant Rheumatoid Arthritis with CD19-T Cell Engagers
Richardo Grieshaber-Bouyer, Friedrich-Alexander-Universität Erlangen-Nürnberg and Universitätsklinikum Erlangen
- 5:00 PM Donor-specific T Cell Activation and Expansion Following a Pig-to-human Decedent Kidney Transplant
Farshid Fathi, PhD, Columbia University

Late-Breaking Abstracts

- 3:15 PM Cellular Iron Is a Critical Regulator of ILC2 Metabolic Function and Development of Airway Hyperreactivity
Benjamin Hurrell, PhD, University of Southern California
- 3:30 PM A Bispecific CD8-dependent Immunoconjugate to Crosslink and Eliminate Antigen-specific B Cells
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
Tsilil 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
Linqi Zhang, PhD, Tsinghua University
- 4:15 PM A Novel Inhibitor of cGAS-STING-TBK1 Pathway with Broad Application in Autoimmune and Fibrotic Diseases
Bhavatarini Vangamudi, PhD, Exo Therapeutics
- 4:30 PM NK-mediated Protection Against Tumor Recurrence in CMV+ Bladder Cancer Patients Upon BCG Treatment
Berengere Salome, PharmD, PhD, Genentech



FOCIS 2024 Annual Meeting Preliminary Program

As of May 8, 2024

- 4:45 PM Unraveling TIM-3 as a Myeloid Immune Checkpoint in Autoinflammatory Diseases
Alice Yi, Yale University
- 5:00 PM Announced in May

Flow Cytometry Course: Day 1

3:15 PM – 5:15 PM

Automation and Single-cell Omics Enhancements

Chair: Holden Maecker, PhD, Stanford University

Keynote Address – Robert B. Nussenblatt Presidential Lecture

5:30 PM – 6:15 PM

Human Auto-, Allo- and Xeno-reactive T Cell Repertoire Dynamics and Transcriptomics

Megan Sykes, MD, Columbia University

Exhibits and Poster Reception (authors present)

6:15 PM – 7:30 PM

FOCIS Member Reception (FOCIS members only)

7:30 PM – 8:30 PM

Thursday, June 20, 2024

- 7:00 AM Working Towards Inclusion and Belonging at FOCIS and Beyond
Chair: Monica L. Guzman, PhD, Weill Cornell Medicine
Yanet Valdez Tejeira, MSc., PhD, Mucosal Immunologist, Independent Consultant

Plenary Sessions

8:00 AM – 9:30 AM

Neuroimmunology

- 8:00 AM Interrogating Antigen-specific T Cell Responses in Neurodegenerative Disorders
Wassim Elyaman, PhD, Columbia University
- 8:30 AM Neuroimmunology – Autologous Cell Therapy for Parkinson's Disease: From Bench to Bed and From Bed to Bench
Kwang-Soo Kim, PhD, McLean Hospital/Harvard Medical School
- 9:00 AM The Role of the Immune System in A-synucleinopathies
Ashley Harms, PhD, University of Alabama at Birmingham



FOCIS 2024 Annual Meeting Preliminary Program

As of May 8, 2024

Morning Break

9:30 AM – 10:00 AM

Immunology in Reproductive Health

10:00 AM – 11:30 AM

- 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 Zenciusen, 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

Industry and Partner Lunch Programs

11:30 AM – 1:00 PM

- 11:30 AM Partner Program: WICI/WIT Session
Chair: Elaine Reed, PhD, University of California – Los Angeles
- 11:30 AM Industry Tutorial: Alamar Biosciences

Thematic Symposia

1:00 PM – 2:45 PM

Organoid Modeling & Therapeutics

- 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
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 Université
- 2:05 PM Patient-derived Lung Cancer Organoids as 3D-testing Platform for Advanced Personalized Therapies
Martí Farrera-Sal, Berlin Institute of Health (BIH) at Charité - Universitätsmedizin Berlin, BIH Center for Regenerative Therapies
- 2:20 PM Exploiting Artificial Thymic Organoids for the Modeling of Human FOXP3+ Regulatory T Cell Development
Ciriaco Piccirillo, PhD, McGill University

Cellular & Stem Cell Therapeutics

- 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



FOCIS 2024 Annual Meeting Preliminary Program

As of May 8, 2024

1:25 PM Type-2 Functionality in Sustaining CAR T Cell Longevity Linked to 8-Year Leukemia Remission
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

Host Defense and Vaccinology

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
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

Manuel A. Podestà, Fondazione IRCCS Ca' Granda Ospedale Policlinico, Brigham and Women's Hospital

2:20 PM Dissecting Humoral Vaccine Correlates of Protection Across Respiratory Pathogens
Galit Alter, PhD, Moderna

Afternoon Break

2:45 PM – 3:15 PM

Oral Abstract Sessions

3:15 PM – 5:15 PM

Immuno-oncology

3:15 PM Spatially Exploring RNA Biology in Archival Formalin-Fixed Paraffin-Embedded Tissues
Zhiliang Bai, PhD, Yale University

3:30 PM Peripheral Blood as a Source to Identify Candidate Neoantigens and Reactive TCRs
Ricardo Pujol Borrell, PhD, Vall Hebron Oncology Institute and Universitat, Autònoma de Barcelona

3:45 PM Helios Limits CD8 T Cell Antitumor Capacity
Rosa M. Rubio, Instituto Nacional de Ciencias Médicas, Nutrición Salvador Zubirán

4:00 PM Secondary Inhibitory Signals on Human Kidney Microvascular Endothelium Confer Peripheral T Cell Tolerance: Insight From Checkpoint Inhibitor Toxicity
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



FOCIS 2024 Annual Meeting Preliminary Program

As of May 8, 2024

Ane Altuna Mongelos, Fundació de Recerca Clínic Barcelona-Institut d'Investigacions Biomèdiques August Pi i Sunyer

- 4:30 PM HIV-associated Lung Cancer Exhibits an Immunoregulatory Tumor Microenvironment
Brinda Emu, MD, Yale University
- 4:45 pm Exclusion of PD-1 from the Immune Synapse: A Novel Strategy to Modulate T Cell Function
Matthieu Paiola, PhD, Columbia University
- 5:00 pm TMEM176B Is a Druggable Intrinsic Driver of Protumoral Th17 Lymphocytes
Marcelo Hill, MD, PhD, Institut Pasteur de Montevideo

Immunoengineering and Therapeutics

- 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
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
Stephen Parmley, PhD, AnaptysBio
- 3:45 PM IL-10 Producing Tolerogenic Dendritic Cells Modulate B Cell Responses in vitro and in vivo
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
Nora Lakes, Cincinnati Children's Hospital
- 4:15 PM T-Cell Receptor Precision Editing of Regulatory T-Cells for Celiac Disease
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
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
Ritika Tewari, PhD, Benaroya Research Institute
- 5:00 PM Gene-edited Allogeneic Regulatory T Cells as 'Off-the-shelf' Immunomodulatory Therapy for Transplantation
Dimitrios L. Wagner, MD, PhD, Charité - Universitätsmedizin Berlin

Immune Mechanisms

- 3:15 PM Induction of Tolerogenic Dendritic Cell Phenotype Through Natural Killer Cells
Ammar J. Alsheikh, MD, PhD, Abbvie
- 3:30 PM Regulation and Dysregulation of Immune Responses by Human Skin Dendritic Cell Subset
Eynav Klechevsky, PhD, Washington University in St. Louis
- 3:45 PM The Role of Recirculating Regulatory T Cells in Thymic Regeneration
Andri Leo Lemarquis, PhD, Memorial Sloan Kettering Cancer Center



FOCIS 2024 Annual Meeting Preliminary Program

As of May 8, 2024

- 4:00 PM Single-cell Transcriptomes Reveal Unique CD8 T Cell Atlas Induced by Cytomegalovirus Viremia in Kidney Transplant Recipients
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
Fernando Yuen Chang, MBChB, University College London
- 4:30 PM Unraveling the Mechanistic Regulation of IL-2 Signaling in T Cells and Diseases
Suyasha Roy, PhD, National Institutes of Health
- 4:45 PM Helios Regulates CD8 T Cell Activation in Response to TCR Affinity
Gerardo Suárez-Rojas, Universidad Nacional Autonoma de Mexico
- 5:00 PM Retinoic Acid Promotes Succinate-consuming Gut Bacteria to Suppress Intestinal Inflammation
Amit Awasthi, PhD, Translational Health Science and Technology Institute

Flow Cytometry Course: Day 2

3:15 PM – 5:15 PM

Label-free and Imaging Flow Cytometry

Chair: Holden Maecker, PhD, Stanford University

State of FOCIS Address

5:30 PM – 5:45 PM

Megan Sykes, MD, Columbia University

Keynote Address

5:45 PM – 6:30 PM

Title Announced in April 2024

Bana Jabri, MD, PhD, University of Chicago

Exhibits and Poster Reception (authors present)

6:30 PM – 7:45 PM

Friday, June 21, 2024

Plenary Sessions

8:00 AM – 9:30 AM

Somatic Mosaicism, Clonal Populations, and Immune Disorders

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

Megan Cooper, MD, PhD, Washington University

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



FOCIS 2024 Annual Meeting Preliminary Program

As of May 8, 2024

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

Morning Break

9:30 AM – 10:00 AM

Mechanisms & Treatment of Autoimmunity

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 Title Announced in April 2024

Howard Chang, MD, PhD, Stanford University School of Medicine

Keynote Address

11:45 AM – 12:30 PM

Cell, Tissue, and Perturbation Atlases as Roadmaps in Cancer

Aviv Regev, PhD, Genentech

Industry and Partner Lunch Programs

12:45 PM – 2:00 PM

12:45 PM Partner Program: Journal of Experimental Medicine – Meet the Editor

Shachi Bhatt, PhD, Journal of Experimental Medicine

12:45 PM Partner Program: NIH/NIAID

Thematic Symposia

2:00 PM – 3:45 PM

Metabolic Regulation of Inflammation

2:00 PM An Immunometabolic Circuit Triggered by Dietary Chitin

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

Abstract Human Tolerogenic Dendritic Cells Used in Clinic Regulate CD8+ T Cell Population

Maaïke Suiring, PhD, CR2TI UMR1064

2:40 PM Integrating Systems Immunology with Metabolism and Cancer

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

Abstract Skeletal Muscle DUPD1 Links Gut Inflammation with Obesity-associated Metabolic Diseases

Alberto Martin, PhD, University of Toronto



FOCIS 2024 Annual Meeting Preliminary Program

As of May 8, 2024

3:20 PM Metabolic Regulation of Inflammation – Immunometabolism at the Crossroads Between Inflammation and Aging
Maria Mittelbrunn, PhD, Molecular Biology Center, CBM, CSIC

Immuno-oncology

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

Gabriel Rabinovich, PhD, Instituto de Biología y Medicina Experimental

Abstract Pre-existing Skin-resident CD8 and $\gamma\delta$ T Cell Circuits Mediate Immune Response in Merkel Cell Carcinoma and Predict Immunotherapy Efficacy

Zachary Z. Reinstein, Northwestern University

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

Michelle Monje, MD, PhD, Stanford University

Abstract Aire-Expressing Tumor-Associated Macrophages Promote Cancer Immune Evasion

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

Behavioral Immunology and Neuroimmunology

2:00 PM Sickness Behaviors of Type 2 Immunity

Esther Borges Florsheim, PhD, Arizona State University

Abstract Longitudinal Analysis of Immune Cell Changes in FUS-ALS Patients Treated with a FUS Antisense Oligonucleotide

Olivia M. Rifai, PhD, Columbia University

2:40 PM Unique Aspects of IFN- γ /STAT1 Signaling in Neurons

Anthony Filiano, PhD, Duke University

Abstract 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

Xiaoming Jia, MD Meng, Genentech

3:20 PM Sensory Neuron Regulation of Host Defense and Immunity

Isaac Chiu, PhD, Harvard University

3:45 PM FOCIS 2024 Annual Meeting adjourns



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As of May 8, 2024

Register for the FOCIS 2024 Annual Meeting

FOCIS is **THE** meeting in translational immunology that will give you a competitive edge in your career. Stay ahead of the curve with leading clinicians and researchers delivering the latest breakthroughs across immune-mediated diseases. Focusing on molecular pathways and their implications in human disease provides a unique opportunity for innovative thinking and applying ideas from the pathologies of other diseases to uncover novel solutions to challenges in the diseases you study.

Through the FOCIS Annual Meeting, researchers and clinicians share knowledge across traditional disease borders and identify commonalities between treatments and therapies that are life-changing for those affected with immune-mediated diseases. From the introduction of monoclonal antibodies in clinical practice — to recent advances in cancer immunotherapy — the past two decades have been transformational for patients living with immune-mediated diseases.

Join us in San Francisco June 18-21, 2024, at the San Francisco Marriott Marquis for the FOCIS 2024 Annual Meeting.

[Click Here to Register Now](#)