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.
Dear Colleagues,

Welcome to the 18th Annual Meeting of the Federation of Clinical Immunology Societies, FOCIS 2018. I am particularly excited about this year’s meeting. The scientific program reflects the core tenets of FOCIS by bridging the gap between basic and clinical immunology and discussing the translation of novel immunotherapies to treat diseases. Immune intervention remains the ultimate Precision Medicine field as we dissect the underlying mechanism of immunity to treat a variety of diseases ranging from asthma/allergy to transplantation to autoimmunity to cancer.

We value the participation of each of you who have enabled FOCIS’ success over the past 18 years, and we know that you will continue to empower the efforts of our community to 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. Memberships run on a calendar year basis and are available at the conference. Membership gains you exclusive access to a Members-only Lounge complete with a complimentary espresso bar as well as a festive Members-only Reception in the San Francisco Marriott Marquis Atrium on Thursday, June 21. Most importantly, active membership gives you a voice in the organization and a central place in our community.

Finally, please join me in extending my most heartfelt thanks to the members of the FOCIS 2018 Scientific Program Committee for their time, energy and expertise. I hope you enjoy the fruits of their labor – FOCIS 2018. Welcome to San Francisco!

Sincerely,

Jeffrey Bluestone, PhD, FOCIS President
University of California, San Francisco
EVALUATIONS:
Daily online evaluations are available through the mobile app. Delegates will also receive an email reminder and link to the evaluations daily during the meeting. Delegates are asked to complete an evaluation for each session attended. If you received a travel award, you must complete the evaluations before receiving a reimbursement.

EXHIBIT HALL HOURS:
Yerba Buena Salon 9, Lower Level
Wednesday, June 20  6:30 pm – 7:30 pm
Thursday, June 21  7:30 am – 7:30 pm
Friday, June 22  7:30 am – 7:30 pm

POSTER HALL HOURS:
Yerba Buena Salon 9, Lower Level
Wednesday, June 20  6:15 pm – 7:30 pm
Thursday, June 21  8:00 am – 7:30 pm
Friday, June 22  8:00 am – 7:30 pm

POSTER SET-UP AND TAKE-DOWN HOURS:
Wednesday, June 20  Set-up: 12:00 pm – 12:45 pm
Take-down: 7:30 pm – 7:45 pm
Thursday, June 21  Set-up: 7:00 am – 8:00 am
Take-down: 7:30 pm – 7:45 pm
Friday, June 22  Set-up: 7:00 am – 8:00 am
Take-down: 7:30 pm – 7:45 pm

REGISTRATION AND SPEAKER CHECK-IN HOURS:
South Registration Desk
Tuesday, June 19  12:00 pm – 5:30 pm
*FOCISed Course Registration Located in the SoMa, Second Level (7:00 am – 12:00 pm)
Wednesday, June 20  7:00 am – 5:30 pm
Thursday, June 21  7:00 am – 5:30 pm
Friday, June 22  7:00 am – 5:30 pm
Saturday, June 23  7:30 am – 3:00 pm

SPEAKERS:
Speakers are asked to report to the speaker check-in area located at the Registration Desk (South Registration Desk) of the San Francisco Marriott Marquis at least 24 hours prior to the start of their session.

PHOTOGRAPHY POLICY:
Please refrain from photography in the sessions, exhibits, and poster hall.

CME CERTIFICATES AND CERTIFICATES OF ATTENDANCE:
In the past, FOCIS has made it possible for meeting participants to obtain CME credit for attending the annual meeting. In order to enable all those involved in the research and treatment of immune-mediated diseases to participate in the exchange of ideas that contribute to the forward motion of the field, FOCIS will not offer CME credit for FOCIS 2018. Certificates of attendance will be available upon request.

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.
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JOIN FOCIS
visit the registration desk to get started!

Exclusively for members at FOCIS 2018

Member Lounge
Yerba Buena Grand Assembly
open daily during FOCIS 2018

Member Reception
Atrium, Second Level
Thursday, June 21, 7:30 - 8:30 p.m.

EUROPEAN ADVANCED COURSE

Federation of Clinical Immunology Societies
www.focisnet.org

DECEMBER 4 – 7, 2018
Berlin-Brandenburg Center for Regenerative Therapies BCRT
BERLIN, GERMANY
Tuesday, June 19
7:00 am – 12:00 pm
FOCISed Course Registration Desk Open
SoMa, Second Level

8:00 am – 4:30 pm
Systems Immunology Course
(separate registration required)
Foothill C, Second Level

8:30 am – 5:15 pm
Basic Immunology in Medicine: Update 2018 Course
(separate registration required)
Golden Gate A, B2 Level

12:00 pm – 5:30 pm
Registration Desk Open
South Registration Desk, Lower Level

Wednesday, June 20
7:00 am – 5:30 pm
Registration Desk Open
South Registration Desk, Lower Level

7:30 am – 12:00 pm
Big Data in Immunology: Invited Talks and Hands-on Workshop
(separate registration required)
Nob Hill CD, Lower Level
Sponsored by

7:30 am – 5:00 pm
Cancer Immunity and Immunotherapy Course
(separate registration required)
Yerba Buena Salon 7, Lower Level
Organized in collaboration with

8:00 am – 12:00 pm
Member Society Symposia
(included in FOCIS 2018 registration)

Adjuvanted Vaccines for the Treatment of Immune-mediated Diseases
Yerba Buena 10 & 11, Lower Level
Chair: Kentner Singleton, PhD, National Institute of Allergy and Infectious Diseases, National Institutes of Health
Organized by

8:00 am
Welcome and Introduction
Kentner Singleton, PhD, National Institute of Allergy and Infectious Diseases, National Institutes of Health

8:10 am
Where do Adjuvants Fit in Allergy Immunotherapy?
Nikolai Petrovsky, MBBS, FRACP, PhD, Flinders University and Vaxine Pty Ltd

9:00 am
Clinical Development of TLR9 Agonists: From Vaccines to Cancer Immunotherapies
Robert Coffman, PhD, Dynavax

9:50 am
Coffee Break

10:05 am
Engineering Proteins and Polymers to Induce Antigen-specific Immunological Tolerance
Jeffrey Hubbell, PhD, University of Chicago

10:55 am
Pharmacologic Regulation of Vaccine Responses
Dennis Carson, MD, University of California, San Diego
Antibodies in the Prevention and Treatment of Human Disease
Foothill G, Second Level
Chair: Janice Reichert, PhD, The Antibody Society
Organized by

8:00 am
The Antibody Society: Our Mission and Current Initiatives
Paul Carter, PhD, Genentech

8:05 am
Antibody Therapeutics in Clinical Development: Antibodies to Watch in 2018
Jan Reichert, PhD, The Antibody Society

8:25 am
Antibody-drug Conjugates: License to Kill
John Lambert, PhD, ImmunoGen

8:50 am
Recharging the Immune System with Immunomodulatory Antibodies
Alan Korman, PhD, Bristol-Myers Squibb

9:15 am
Novel Antibody Formats: More Than Twice the Power
Paul Carter, PhD, Genentech

9:40 am
Insights Provided by Antibody Repertoires and B Cell Analysis
Nina Luning Prak, MD, PhD, University of Pennsylvania

10:05 am
Vaccine Development by Reverse Engineering
Dennis Burton, PhD, The Scripps Research Institute

HLA as the Target of the Transplant Response
Foothill C, Second Level
Chairs: Elaine F. Reed, PhD, University of California, Los Angeles; Jonathan Maltzman, MD, PhD, Stanford University
Organized by

8:00 am
Introduction

8:10 am
Polymorphisms of HLA Drive Both Adaptive and Innate NK Cell Responses
John Trowsdale, PhD, FMedSci, Cambridge University

8:45 am
Epitope Analyses and Impact on T Cells and Antibodies
Chris Wiebe, MD, FRCPC, University of Manitoba

9:20 am
HLA Antibodies, IgG Subclass, Complement and Impact on Rejection
Nicole Valenzuela, PhD, University of California, Los Angeles

9:55 am
Coffee Break

10:15 am
NK Cells and Heterogeneity of Their Reactivity
Catherine Blish, MD, PhD, FIDSA, Stanford University

10:50 am
Role of NK Cells in Transplant Rejection
Xian Li, MD, PhD, Houston Methodist Hospital

11:25 am
Desensitization Strategies in Solid Organ Transplantation
Jon Kobashigawa, MD, Cedars-Sinai

Cytokines and Interferons in Translation Immunology
Yerba Buena 14 & 15, Lower Level
Chair: Ari Molofsky, MD, PhD, University of California, San Francisco
Organized by

8:00 am
Welcome and Introduction
Ari Molofsky, MD, PhD, University of California, San Francisco

8:10 am
SOCS Protein Regulation of NK Cell-mediated Tumor
Sandra Nicholson, PhD, Water and Eliza Hall Institute

8:35 am
Targeting the IL-7R Pathway in Leukemia
Scott K. Durum, PhD, National Cancer Institute, National Institutes of Health

9:00 am
The Relevance of IL-17A/IL-17RA Axis in Host Defense During Chronic Respiratory Infections by Pseudomonas Aeruginosa
Nicola Ivan Lorè, PhD, Salute San Raffaele University
Reproductive Immunology & Immune Regulation in Pregnancy
Pacific I, Fourth Floor
Chairs: Alexander Beristain, PhD, University of British Columbia; Wendy Robinson, PhD, University of British Columbia
Organized by

8:10 am
Introduction
Alex Beristain, PhD, University of British Columbia; Wendy Robinson, PhD, University of British Columbia

8:20 am
Uterine Natural Killer Cells: Helpers or Adversaries of Early Pregnancy
Alex Beristain, PhD, University of British Columbia

9:00 am
What Can Epigenetic Profiling Tell Us About Inflammation Associated with Preterm Birth
Wendy Robinson, PhD, University of British Columbia

9:40 am
Epigenetic Convergence of Genetic and Maternal Immune Risks in Autism Brain and Placenta
Janine LaSalle, PhD, University of California, Davis

10:20 am
Coffee Break

10:40 am
Maternal Immune Contribution to the Clinical Presentation of Pre-eclampsia
Sylvie Girard, PhD, Université de Montreal

11:20 am
Intrauterine Delivery of Subunit Vaccines Induces a Systemic and Mucosal Immune Response in Rabbits
Heather L. Wilson, PhD, University of Saskatchewan

8:25 am
The Clinical Relevance of HLA and Non-classical HLA Genes in Transplantation
Uma Kanga, All India Institute of Medical Sciences

8:40 am
SP-D, Guarding the Vaginal Mucosal Barrier Against HIV-1
Taruna Madan, ICMR-National Institute for Research in Reproductive Health

8:55 am
Realm of Innate Immune Cells and Chemokine Receptors in Pemphigus Vulgaris: Plausible Therapeutic Targets
Alpana Sharma, All India Institute of Medical Sciences

9:10 am
Role of Vitamin D in Innate Immunity Modulation Based Therapeutic Targets in Pulmonary TB
Archana Singh, All India Institute of Medical Sciences

9:25 am
TLR4 Mediated Immunomodulation in Tuberculosis: An Alternative Approach to Combat TB
Pramod Gupta, Bhabha Atomic Research Centre

9:40 am
Ex Vivo Generation and Single-Cell Analysis of Human Monoclonal Antibodies from Dengue Virus Infected Patients
Pragati Sharma, International Centre for Genetic Engineering and Biotechnology

9:55 am
Highlights
Taruna Madan, ICMR-National Institute for Research in Reproductive Health

Understanding Human Immune Response Variability
Yerba Buena 12 & 13, Lower Level
Chair: Darragh Duffy, PhD, Institut Pasteur; Matthew Albert, MD, PhD, Genentech
Organized by

8:00 am
Insight into the Indian Immunology Society
Alpana Sharma, All India Institute of Medical Sciences

8:10 am
Pro and Antitumor Functions of Human Gamma Delta T cells: Implications in Cancer Immunotherapy
Shubhada Chiplunkar, Research & Education in Cancer, India

8:00 am
Milieu Interieur: Dissecting Genetic and Non-genetic Sources of Immune Response Variation
Matthew Albert, MD, PhD, Genentech

8:30 am
Dissecting Natural Variability in Thymic Function
Antoine Toubert, MD, PhD, University Paris VII, Inserm

9:00 am
Anti-TNF Therapy in Chronic Inflammatory Disease, How it Works and Why it Doesn’t
Lars Rogge, PhD, Institut Pasteur
9:30 am
Development of Multiparameter Functional Immune Assays as Predictors of Response to Immunotherapy
Richard Lee, MD, PhD, NHS, University of Bristol

10:00 am
Impact of CMV Latent Infection on Diverse Immune Phenotypes
Cecile Alanio, MD, PhD, University of Pennsylvania

10:30 am
Coffee Break

11:00 am
Understanding Variability in Response to Cancer Immunotherapy
Alejandra Urrutia, PhD, Genentech

11:30 am
Standardized Immunomonitoring for Improved Clinical Management of Tuberculosis Patients
Darragh Duffy, PhD, Institut Pasteur

12:00 pm – 2:00 pm
SoMa, Second Level
Sponsored by
Janssen Immunology

12:45 pm – 5:00 pm
Member Society Symposia (included in FOCIS 2018 registration)

Fine Tuning the Immune System: Spotlight on Immune Therapies for Autoimmune Disorders, Cancer, and Transplantation
Yerba Buena Salons 12 & 13, Lower Level
Chairs: Barbara Detrick, PhD, Johns Hopkins University; Elaine Reed, PhD, University of California, Los Angeles
Organized by

At Crossroads of Autoimmunity and Primary Immunodeficiency
Nob Hill A, Lower Level
Chairs: Mark S. Anderson, MD, PhD, University of California, San Francisco; Kasia Bourcier, National Institute of Allergy and Infectious Diseases, National Institutes of Health
Organized by
NIH National Institute of Allergy and Infectious Diseases

10:00 am
New Precision Medicine Treatments for Autoimmunity from Gene Identification
Michael Lenardo, MD, National Institute of Allergy and Infectious Diseases, National Institutes of Health

10:30 am
Genes and SNPs - Travel Through Genome in Autoimmune Diseases
David Hafler, MD, FANA, Yale New Haven Hospital

10:55 am
Single Gene Disorders Leading to Autoimmunity
Jennifer M. Puck, MD, University of California, San Francisco

11:20 am
STAT 3 Mutations and T1D
Mark S. Anderson, MD, PhD, University of California, San Francisco

11:45 am
The Mucosal Interface: Lessons from Early Onset Inflammatory Bowel Disease
Kathleen E. Sullivan, MD, PhD, Children’s Hospital of Philadelphia

12:45 pm
Introduction
Barbara Detrick, PhD, Johns Hopkins University

12:55 pm
Modulating the Immune System to Target Cancer: Closer Look at the Checkpoint Inhibitors - The Promises and Challenges
Padmanee Sharma, MD, PhD, MD Anderson Cancer Center

1:35 pm
Immune Therapies in Organ Transplantation
Roslyn B. Mannon, MD, University of Alabama

2:15 pm
Immune Based Therapy: A Promising Strategy for Restoring T Cell Tolerance in Autoimmune Disease
Jane H. Buckner, MD, Benaroya Research Institute

2:55 pm
Coffee Break

3:10 pm
T Regulatory Cell Therapy in Transplantation
Megan Levings, PhD, University of British Columbia

3:50 pm
Novel Ways to Boost the Immune Response: Oncolytic Viruses as Cancer Vaccines
Donald M. McDonald, MD, PhD, University of California, San Francisco
Cytokines and Mucosal Inflammation
Yerba Buena Salons 10 & 11, Lower Level
Chair: Lauren Zenewicz, PhD, The University of Oklahoma Health Sciences Center; Cecilia Johansson, PhD, Imperial College London
Organized by SOCIETY FOR MUCOSAL IMMUNOLOGY

1:00 pm Introduction
1:05 pm Immune Regulation of Intestinal Health
Gregory Sonnenberg, PhD, Weill Cornell Medical College

1:40 pm Environmental Regulation of the Mucosal Cytokine IL-22
Lauren A. Zenewicz, PhD, University of Oklahoma Health Sciences Center

2:15 pm Regulation and Down-stream Components of Type-2 Immunity in the Gut
Mark S. Wilson, PhD, Genentech

2:50 pm Break

3:10 pm Regulation of Lung Inflammation During Viral Infections
Cecilia Johansson, PhD, Imperial College London

3:45 pm Antiviral Immunity in Vaginal Versus Rectal Mucosa
Shomyseh Sanjabi, PhD, Gladstone Institutes

4:20 pm Immune Recognition of the Microbiota
Gregory Barton, PhD, University of California, Berkeley

Gene, Peptide, and Cellular Therapy in Immune-mediated Uveitis
Pacific I, Fourth Floor
Chairs: Phoebe Lin, MD, PhD, University of Oregon Health Sciences; Kathryn Pepple, MD, PhD, University of Washington
Organized by AMERICAN UVEITIS SOCIETY

1:00 pm Welcome and Introduction
Phoebe Lin, MD, PhD, University of Oregon Health Sciences

1:20 pm Challenges Facing Gene Therapy for Uveitis
Colin Chu, PhD, FRCOphth, University of Bristol

1:55 pm Gene Delivery of a Secretable and Cell-penetrating Nrf2 Peptide Decreases Inflammation in the Endotoxin-induced Mouse Model of Uveitis
Cristhian Ildefonso, PhD, University of Florida

2:30 pm Regulatory B Cell Therapy in Uveitis
Charles Egwuagu, MD, MPH, National Eye Institute, National Institutes of Health

3:05 pm T Cell Therapy for the Treatment of Uveitis
Bahram Bodaghi, MD, PhD, FEBO, University of Pierre and Marie Curie

3:40 pm Understanding the Inflammatory Response to Intraocular Gene Therapy
Kathryn Pepple, MD, PhD, University of Washington

4:15 pm Panel Discussion
New Insights into Cell Populations in Autoimmune Target Tissue Using Single Cell Technologic Advances

**Foothill G, Second Level**

Chairs: Betty Diamond, MD, Feinstein Institute; Michael Holers, MD, University of Colorado, Denver

Organized by

1:00 pm
Overview of Session/AMP Consortium Structure
Jennifer Anolik, MD, PhD, University of Rochester

1:05 pm
Large Scale Molecular Dissection of a Rheumatoid Arthritis Cohort: Single Cell Analysis
Soumya Raychaudhuri, MD, PhD, Brigham and Women’s Hospital and Broad Institute

1:30 pm
Large Scale Molecular Dissection of a Lupus Nephritis Cohort: Single Cell Analysis
Nir Hacohen, PhD, Brigham and Women’s Hospital and Broad Institute

1:55 pm
Novel Populations of T cells in SLE and RA
Deepak Rao, MD, PhD, Brigham and Women’s Hospital

2:15 pm
Insights into B Cell Participation in RA
Jennifer Anolik, MD, PhD, University of Rochester

2:30 pm
Insights on B Cell Participation in SLE Via Single Cell Analysis of Target Tissue
Betty Diamond, MD, Feinstein Institute

2:40 pm
Coffee Break

3:00 pm
Diverse Myeloid Lineages in the RA Synovium
Laura T. Donlin, PhD, Hospital for Special Surgery

3:20 pm
Myeloid Cells in the Lupus Kidney
Anne Davidson, MBBS, Feinstein Institute

3:40 pm
Stromal Cell Pathology In RA
Michael Brenner, MD, Brigham and Women’s Hospital and Harvard Medical School

4:00 pm
Droplet-based Single Cell Analysis of Lupus Nephritis
Chaim Putterman, MD, Albert Einstein College of Medicine; Tom Tuschl, PhD, Rockefeller University

4:25 pm
Insights into Renal Resident Cell Participation in Lupus Nephritis
Mathias Kretzler, MD, University of Michigan

4:45 pm
What We are Learning and Where We are Going Next
Michael Brenner, MD, Brigham and Women’s Hospital

Role of HLA and KIR in Immune-Mediated Diseases, Transplantation, and Infection

**Yerba Buena 14 & 15, Lower Level**

Host: Jeffrey Rice, PhD, National Institute of Allergy & Infectious Diseases; Mary Carrington, PhD, Frederick National Laboratory for Cancer Research; Effie Petersdorf, MD, Fred Hutchinson Cancer Research Center; Jeffrey Rice, PhD, National Institute of Allergy and Infectious Diseases, National Institutes of Health

Organized by

1:00 pm
Introduction
Jeffrey Rice, PhD, National Institute of Allergy and Infectious Diseases, National Institutes of Health
Mary Carrington, PhD, Frederick National Laboratory for Cancer Research
Effie Petersdorf, MD, Fred Hutchinson Cancer Research Center

1:10 pm
The Impact of Diversity in HLA Expression Levels on Clinical Outcomes
Mary Carrington, PhD, Frederick National Laboratory for Cancer Research

1:45 pm
HLA Immunogenetics in Hematopoietic Stem Cell Transplantation
Effie Petersdorf, MD, Fred Hutchinson Cancer Research Center

2:20 pm
Harnessing HLA and KIR Immunogenetics to Exploit NK Cell Functions for Treatments in Cancers and Viral Infections
Amir Horowitz, PhD, Mount Sinai

2:50 pm
Coffee Break

3:05 pm
HLA-B Assembly Variations: Staying Together or Falling Apart
Malini Raghavan, PhD, University of Michigan

3:40 pm
Immunogenetics of Narcolepsy
Emmanuel Mignot, MD, PhD, Stanford University

4:15 pm
HLA Immunogenetics in Autoimmunity, Allergy, and Infectious Disease
Katsushi Tokunaga, DSc, University of Tokyo

4:45 pm
Discussion
5:30 pm – 6:15 pm
Opening Keynote Address: Imaging Immunity - Creating a Spatiotemporal Understanding of Host Defense and Pathologic Responses
Ronald N. Germain, MD, PhD, National Institute of Allergy and Infectious Diseases, National Institutes of Health
Yerba Buena 8, Lower Level
Chair: Jeffrey Bluestone, PhD, University of California, San Francisco

6:15 pm – 7:45 pm
Opening Reception & Poster Presentations
Yerba Buena 9, Lower Level
Network with attendees while visiting exhibits and posters with authors present. Complimentary light hors d’oeuvres and wine served.
Sponsored by

Thursday, June 21
7:00 am – 5:30 pm
Registration Desk Open
South Registration Desk, Lower Level

8:00 am – 7:30 pm
Posters Available for Viewing (authors optional)
Yerba Buena 9, Lower Level

8:00 am – 9:30 am
Host-Microbiome Interactions
Yerba Buena 8, Lower Level
Chair: Timothy Niewold, MD, New York University
Sponsored by

8:00 am
Immune Homeostasis via Compartmentalized Gut Lymph Node Drainage
Daniel Mucida, PhD, The Rockefeller University

8:30 am
The Role of the Gut Microbiome in Response and Toxicity to Immune Checkpoint Blockade
Jennifer A. Wargo, MD, MMSc, MD Anderson Cancer Center

9:00 am
Toward a Genetic Theory of Infectious Diseases
Jean-Laurent Casanova, MD, PhD, Rockefeller University & INSERM U1163, Necker Hospital for Sick Children

9:30 am – 10:00 am
Networking Break
Yerba Buena 9, Lower Level

10:00 am – 11:30 am
CARS for Cancer and Autoimmunity
Yerba Buena 8, Lower Level
Chair: Megan Levings, PhD, University of British Columbia

10:00 am
Targeting Autoimmunity with CAR T Cells
Aimee S. Payne, MD, PhD, University of Pennsylvania

10:30 am
Gene Edited CAR T Cells
Michel Sadelain, PhD, Memorial Sloan Kettering Cancer Center

11:00 am
CAR T cells for Cancer: Progress and Challenges
Crystal Mackall, MD, Stanford University

11:30 am – 1:00 pm
Lunch Break
Delegates on their own for lunch

11:45 am – 1:00 pm
Lunch Programs
(included in FOCIS 2018 registration)

11:30 am – 1:00 pm
Lupus Insight Prize Award
Presented by the Lupus Research Alliance
Nob Hill CD, Lower Level

11:45 am – 12:30 pm
Industry Tutorial: Biolegend
Yerba Buena 10 & 11, Lower Level

11:45 am – 1:00 pm
Industry Tutorial: Tessa Therapeutics
Yerba Buena 12 & 13, Lower Level

11:45 am – 1:00 pm
Industry Tutorial: Beckman Coulter
Yerba Buena Salons 14 & 15, Lower Level

11:30 pm – 6:15 pm
Closing Keynote Address: The Future of Immunology
Ronald N. Germain, MD, PhD, National Institute of Allergy and Infectious Diseases, National Institutes of Health
Yerba Buena 8, Lower Level
Chair: Jeffrey Bluestone, PhD, University of California, San Francisco

6:15 pm – 7:45 pm
Closing Reception & Poster Presentations
Yerba Buena 9, Lower Level
Network with attendees while visiting exhibits and posters with authors present. Complimentary light hors d’oeuvres and wine served.
Sponsored by
1:00 pm – 2:45 pm

**Immune Checkpoints as On and Off Signals**

Yerba Buena 12 & 13, Lower Level
Chair: Kevan Herold, MD, Yale University

Sponsored by JDRF

1:00 pm

*Unravelling the Natural Function of the CTLA-4 Checkpoint*
Lucy S.K. Walker, PhD, University College London

1:25 pm

*Abstract Presentation: Immune Checkpoint Inhibitor Diabetes Mellitus: An Atypical Presentation of Type 1 Diabetes Mellitus? (Poster # T.28)*
Zoe Eloise Quandt, MD, MS, University of California, San Francisco

1:40 pm

*Response and Resistance to PD-1 Blockade Therapy*
Antoni Ribas, MD, PhD, University of California, Los Angeles

2:05 pm

*Abstract Presentation: Resistance to PD1 Blockade in the Absence of Metalloprotease-mediated LAG3 Shedding (Poster # T.26)*
Lawrence Andrews, PhD, University of Pittsburgh

2:20 pm

*TIGIT: A Key Inhibitor of the Cancer Immunity Cycle*
Jane Grogan, PhD, Genentech

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**Neuroimmune Axis**

Yerba Buena 10 & 11, Lower Level
Chair: David Hafler, MD, Yale University

1:00 pm

*Innate Immune Mechanisms of Synapse Remodeling During Brain Development*
Anna V. Molofsky, MD, PhD, University of California, San Francisco

1:25 pm

*Abstract Presentation: Protective Roles of Myeloid SOCS3 to Neuroinflammation in Neurodegenerative Parkinson’s Disease (Poster # T.27)*
Hongwei Qin, University of Alabama at Birmingham

1:40 pm

*Immune: Glial Interactions and CNS Compartmentalized Inflammation in Multiple Sclerosis*
Amit Bar-Or, MD, FRCPC, University of Pennsylvania and McGill University

2:05 pm

*Abstract Presentation: Schwann Cell-derived Periostin Promotes Autoimmune Peripheral Polyneuropathy via Macrophage Recruitment (Poster # T.31)*
Yan Wang, The University of North Carolina at Chapel Hill

2:20 pm

Michael Wilson, MD, University of California, San Francisco
Tolerance: Reigning It In
Yerba Buena 10 & 11, Lower Level
Chairs: Donna Farber, PhD, Columbia University; Ignacio Anegon, MD, Nantes University

3:15 pm
Helios Drives Preferential Regulatory T Cell Differentiation in Fetal Naïve T Cells (Poster # T.12)
Melissa Ng, University of California, San Francisco

3:30 pm
Identification of Transplant Injury Specific Metabolites in the Kidney Transplant Urine by Metabolomics (Poster # T.17)
Tara Sigdel, PhD, University of California, San Francisco

3:45 pm
Repairing Foxp3 Mutations in Scurfy T Cells Restores Regulatory T Cell Function (Poster # T.8)
Lukas Jeker, University Hospital and University of Basel

4:00 pm
B Cell Immune Repertoire Sequencing Identifies Pre-transplant Rejection Risk (Poster # T.14)
Silvia Pineda, University of California, San Francisco

4:15 pm
Induction of T-allo10, an Alloantigen Specific Type 1 Regulatory T Cell Product Suitable for Cellular Therapy in Hematopoietic Stem Cell Transplantation for Hematologic Malignancies (Poster # T.5)
Pauline Chen, Stanford University

4:30 pm
Reshaping Undesired Immune Reactivity by Regulatory T Cells - Experience from Kidney Transplantation (One Study) and Chromic GvHD (PegTreg) (Poster # T.23)
Hans-Dieter Volk, Charité University

4:45 pm
A Role for Early Oral Exposure to House Dust Mite Proteases in Food Allergy Susceptibility (Poster # T.22)
Akila Rekima, University of Western Australia

5:00 pm
The Effect of Fenretinide on Regulatory B Cell Development and Semaphorin 4C in Allergic Asthma Model (Poster # T.21)
Shao Tao, McGill University

3:15 pm – 5:15 pm
Principles of Flow Cytometry for Immune Monitoring Course
Nob Hill CD, Lower Level
Chair: J. Philip McCoy, PhD, National Heart, Lung, and Blood Institute, National Institutes of Health; Holden Maecker, PhD, Stanford University
Sponsored by BECKMAN COULTER

3:15 pm
High-dimensional Fluorescence Cytometry
Pratip K. Chattopadhyay, PhD, New York University

4:15 pm
Sorting of Difficult Populations
Pradeep Dagur, MSc, PhD, National Heart, Lung, and Blood Institute, National Institutes of Health

5:20 pm – 5:25 pm
Presentation of the FCE Fusion Award
Yerba Buena 8, Lower Level
Megan Levings, PhD, University of British Columbia

5:25 pm – 5:30 pm
Presentation of the C. Garrison Fathman Fellows Fund Trainee Travel Award
Yerba Buena 8, Lower Level
Megan Levings, PhD, University of British Columbia

5:30 pm – 6:15 pm
Robert B. Nussenblatt Presidential Lecture: Traveling the Road to Immune Tolerance: From Biologics to Cell Therapy
Jeffrey Bluestone, PhD, University of California, San Francisco
Yerba Buena 8, Lower Level
Chair: Maria-Grazia Roncarolo, MD, Stanford University
Sponsored by TESSA THERAPEUTICS
6:15 pm – 7:30 pm
Exhibit and Poster Reception
Yerba Buena 9, Lower 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)
Atrium, Second Level
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.
Sponsored by

Friday, June 22
7:00 am – 5:30 pm
Registration Desk Open
South Registration Desk, Lower Level

7:30 am – 7:30 pm
Posters Available for Viewing (authors optional)
Yerba Buena 9, Lower Level

8:00 am – 9:30 am
A Systems Immunology Approach to Infectious Disease
Yerba Buena 8, Lower Level
Chairs: Mark S. Anderson, MD, PhD, University of California, San Francisco; Magnus Fontes, PhD, Genentech
Sponsored by

8:00 am
Bali Pulendran, PhD, Stanford University

8:30 am
New Insights Into Cell Type-specific Intrinsic Antiviral Immunity
Charles M. Rice, PhD, Rockefeller University

9:00 am
Deciphering the Human Immunome
James E. Crowe, MD, Vanderbilt University

9:30 am – 10:00 am
Networking Break
Yerba Buena 9, Lower Level

9:55 am – 10:00 am
Scientific Program Committee Awards Presentation
Yerba Buena 8, Lower Level

10:00 am – 11:30 am
Microenvironment - Connecting Immune Regulation with Disease
Yerba Buena 8, Lower Level
Chairs: Kevan Herold, MD, Yale University; George Tsokos, MD, Beth Israel Deaconess Medical Center
Sponsored by

10:00 am
Scleroderma: An Example of Cancer Immunoediting in Humans?
Antony Rosen, MD, Johns Hopkins University

10:30 am
Modulating Immune Response in Solid Tumors
Lisa M. Coussens, PhD, Oregon Health & Science University

11:00 am
Immune-stimulatory Components of Tumor Microenvironments
Max Krummel, PhD, University of California, San Francisco

11:30 am – 1:00 pm
Lunch Break
Delegates on their own for lunch

11:45 am – 1:00 pm
Lunch Programs (included in FOCIS 2018 registration)
Yerba Buena 10 & 11, Lower Level
Chair: Thomas Esch, PhD, National Institute of Allergy and Infectious Diseases, National Institutes of Health

Congratulations!
Sofía Russo

Winner of the sixth 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.

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Rising Stars Showcase
Yerba Buena 14 & 15, Lower Level
Chairs: John E. Connolly, PhD; Itor Williams, MD, PhD, American Association for the Advancement of Science
Sponsored by

11:45 am
HLA-Dependent Islet Autoimmunity Association with Systemic Antibody Responses to Intestinal Commensal Bacteria in Pediatric Subjects
Alexandra Paun, PhD, The Hospital for Sick Children

12:00 pm
Aging and Chronic Viral Infection Associations with Development of Antibodies to Citrullinated Protein Antigens
Heather Berens MD, PhD, University of Colorado, Denver

12:15 pm
Single-cell Analysis Redefines the Determinants of Crohn’s Disease Inflammation to Delineate Distinct Cellular Signatures Across Patients
Jerome Martin, PharmD, PhD, Icahn School of Medicine at Mount Sinai

12:30 pm
HMGB1 Redox Forms Differentially Mediate Innate-to-Adaptive Immune Switch after Ischemia-Reperfusion Injury in Human Orthotopic Liver Transplantation
Rebecca A. Sosa, PhD, University of California, Los Angeles

1:00 pm – 2:45 pm
Cell Therapy for Transplant Tolerance
Yerba Buena 14 & 15, Lower Level
Chair: Qizhi Tang, PhD, University of California, San Francisco

1:00 pm
Regulatory Immune Cell Therapy in Transplantation
Angus W. Thomson, PhD, DSc, DSc (Med), University of Pittsburgh

1:25 pm
Abstract Presentation: BPX-501 Cell Infusion After Alpha/Beta T Cell and B Cell Depleted HLA-haploidentical HSCT (Haplo-HSCT) in Children with Primary Immunodeficiencies (Pids): High Rate of Cure with Low Risk of Acute and Chronic Gvhd (Poster # F.25)
Alice Bertaina, MD, PhD, Stanford University

1:40 pm
Targeting the Thymus for the Induction of Tolerance
Sanjeev Mariathasan, PhD, Genentech

2:05 pm
Abstract Presentation: Unique Effects of Human Tr1 Cells on Suppressing Innate Immunity and Promoting Epithelial Health (Poster # F.27)
Laura Cook, PhD, BC Children’s Hospital Research Institute

2:20 pm
Epigenetic Control of Innate and Adaptive Lymphocyte Memory
Joseph Sun, PhD, Memorial Sloan Kettering Cancer Center

Memory in Innate and Adaptive Immunity
Yerba Buena 14 & 15, Lower Level
Chairs: Jane Buckner, MD, Benaroya Research Institute; Lewis Lanier, PhD, University of California, San Francisco

1:00 pm
Tissue-resident Memory T Cell Responses to Melanoma
Mary Jo Turk, PhD, Dartmouth College

1:25 pm
Abstract Presentation: Elucidating the Function of Mosaic, a Novel Gene Mediating Autoimmunity (Poster # F.26)
Alice Chan, MD, PhD, University of California, San Francisco

1:40 pm
Helper T Cell "Memory" During Persistent Phagosomal Infection
Marc K. Jenkins, PhD, University of Minnesota

2:05 pm
Abstract Presentation: Unique Effects of Human Tr1 Cells on Suppressing Innate Immunity and Promoting Epithelial Health (Poster # F.27)
Laura Cook, PhD, BC Children’s Hospital Research Institute

2:20 pm
Epigenetic Control of Innate and Adaptive Lymphocyte Memory
Joseph Sun, PhD, Memorial Sloan Kettering Cancer Center

Scientific Breakthroughs in Industry
Yerba Buena 10 & 11, Lower Level
Chairs: John Connolly, PhD, Tessa Therapeutics; Frank Nestle, MD, Sanofi
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1:00 pm
Th17 Pathway Biology: From Basic Research to Preclinical Development
Daniel Cua, PhD, Merck Research Labs

1:25 pm
Abstract Presentation: Selective Inhibition of NF-kB Inducing Kinase (NIK) is Therapeutically Efficacious in IFNγ-accelerated Lupus Nephritis Prone Mice (Poster # F.28)
Nico Ghilardi, Genentech

1:40 pm
Primary Resistance Mechanisms to Immunotherapy
Sanjeev Mariathasan, PhD, Genentech

2:05 pm
Abstract Presentation: Identification of Potent RORc Inhibitors for the Treatment of IL-17-mediated Inflammatory Diseases: Is it Worth the Risk? (Poster # F.10)
Celine Eidenschenk, PhD, Genentech

2:20 pm
Dual Biomarker Strategy to Understand Novel Translational Biomarkers to Stratify Patients Effectively for Personalized Cancer Immunotherapy
Jianda Yuan, MD, PhD, Merck
2:45 pm – 3:15 pm
Networking Break
Yerba Buena 9, Lower Level

3:15 pm – 5:15 pm
Oral Abstract Sessions

**Autoimmunity: Out of Control Immune Response**
Yerba Buena 12 & 13, Lower Level
Chair: Ifor Williams, MD, PhD, Emory University

3:15 pm
**Persistence of Transcriptomic Signature in CD4 Memory T Cells in Polyarticular JIA Patients Despite Anti-TNFα Biologics Therapy** (Poster # F.7)
Jing Yao Leong, Translational Immunology Institute/Singapore Health Services Pte Ltd

3:30 pm
**A Multi-dimensional Approach to Dissecting the Complex Interplay between the Tissue Microenvironment and Immune Landscape in Psoriatic Arthritis** (Poster # F.3)
Sherlynn Chan, Translational Immunology Institute (TII)/Singhealth Health Services Pte Ltd

3:45 pm
**Development of Citrullinated-vimentin-specific CAR for Targeting Tregs to Treat Autoimmune Rheumatoid Arthritis** (Poster # F.16)
Caroline Rafin, University of California, San Francisco

4:00 pm
**Aire-dependent Thymic FoxP3+ Regulatory T Cells in Type 1 Diabetes** (Poster # F.2)
Jennifer A. Bridge, University of California, San Francisco

4:15 pm
**From T Cell Receptor to Antigen, Systems Approach to Discovering T Cell Antigen(S) in Multiple Sclerosis and Experimental Autoimmune Encephalomyelitis** (Poster # F.19)
Naresha Saligrama, Stanford University

4:30 pm
**Multi-cohort Transcriptome Analysis Implicates Novel Biological Mechanisms In Active Systemic Lupus Erythematosus** (Poster # F.5)
Winston A. Haynes, Stanford University

4:45 pm
**Increases in Eomes-expressing Th Cells in Secondary Progressive Multiple Sclerosis Reveal Patients at Risk of Increased Disability** (Poster # F.17)
Ben J.E. Raveney, National Institute of Neuroscience, National Center for Neurology and Psychiatry

5:00 pm
**Gene Editing in Primary Human T Cells to Assess Autoimmune Associated Snps Within the Gene PTPN22** (Poster # F.1)
Warren Anderson, University of Washington

**Host Defense: Homeland Security**
Yerba Buena 14 & 15, Lower Level
Chairs: Graham Simmons, PhD, Blood Systems Research Institute; Alain Fischer, MD, PhD, Collège de France

3:15 pm
**HCV-induced Heterologous Immunity Regulates Alloreactive T Cell Exhaustion in Liver Transplantation** (Poster # F.9)
Elliot Merritt, King’s College London

3:30 pm
**Tumor suppressor BAP1 is essential for thymic development and proliferative responses of T lymphocytes**
Sascha Rutz, Genentech (Poster # F.12)

3:45 pm
**Role of CD1d Receptor in the Pathology Caused by the Human Respiratory Syncytial Virus and the Human Metapneumovirus** (Poster # F.18)
Emma Rey-Jurado, Pontificia Universidad Católica de Chile

4:00 pm
**A Combined Immunodeficiency with Severe Inflammation and Allergy Caused by ARPC1B Deficiency** (Poster # F.22)
Stefano Volpi, Istituto Giannina Gaslini

4:15 pm
**Transcriptional Signatures of Influenza Vaccine Immune Responses in Elderly Individuals** (Poster # F.13)
Inna G. Ovsyannikova, Mayo Clinic

4:30 pm
**Influenza A virus (IAV) infection in humans leads to expansion of highly diverse CD8 T cell repertoires cross-reactive with Epstein Barr virus (EBV)** (Poster # F.20)
Anna Gil, University of Massachusetts Medical School

4:45 pm
**An Atlas of the Mosquito Immune System at Single-cell Resolution** (Poster # F.15)
Gianmarco Raddi, University of Cambridge, Sanger Institute, National Institutes of Health, University of California, Los Angeles

5:00 pm
**Genome Editing of Long-term Human Hematopoietic Stem Cells for X-linked Severe Combined Immunodeficiency** (Poster #F.14)
Mara Pavel-Dinu, Stanford University

**Immuno-oncology: Wild West of Immunology**
Yerba Buena 10 & 11, Lower Level
Chairs: Tania Watts, PhD, University of Toronto; Lawrence Fong, MD, University of California, San Francisco

3:15 pm
**In Vitro and in Vivo Pharmacodynamic Profile of DV281, a TLR9 Agonist, in Development as an Inhalational Therapeutic for Lung Cancer** (Poster # F.87)
Sariah Kell, Dynavax Technologies

3:30 pm
**Augmentation of a Novel Adenoviral Vaccine Strategy by Checkpoint Inhibitors** (Poster # F.4)
Erika J. Crosby, Duke University

3:45 pm
**Convertible CAR T Cells Provide Dose Control of Activity and Targeting Flexibility** (Poster # F.6)
Kaman Kim, Xyphos Inc.

4:00 pm
**Tmem176b is a Checkpoint in IL-1β-dependent Tumor Immunity** (Poster # F.96)
Sofia Russo, Institut Pasteur de Montevideo
4:15 pm
Engineering Antigen-specific T Cells from Human Pluripotent Stem Cells (Poster # F.21)
Linda T. Vo, University of California, San Francisco

4:30 pm
MicroRNA-23a Plays an Essential Role in Graft-versus-host Disease (Poster # F.11)
Xiaoli Nie, Duke University

4:45 pm
Boosting Anti-tumor Response by Conferring Cysteine Autonomy to T Cells (Poster # F.8)
Melanie Lancien, Université de Nantes

5:00 pm
Using Synthetic Biotic™ Medicines to Activate Innate and Adaptive Immunity and Drive Antitumor Immune Response (Poster # F.23)
Dan Leventhal, Synlogic

3:15 pm – 5:15 pm
Principles of Flow Cytometry for Immune Monitoring Course
Nob Hill CD, Lower Level
Chairs: J. Philip McCoy, PhD, National Heart, Lung, and Blood Institute, National Institutes of Health; Holden Maecker, PhD, Stanford University
Sponsored by Beckman Coulter

3:15 pm
Simoa Assays on Single Sorted Cytokine+ Cells
J. Philip McCoy, PhD, National Heart, Lung, and Blood Institute, National Institutes of Health

4:45 pm
Panel Discussion: Update on Gating Guidelines
Panelists: J. Philip McCoy, PhD, National Heart, Lung, and Blood Institute, National Institutes of Health; Holden Maecker, PhD, Stanford University; Janet Staats, BS, Duke University; Anagha Divekar, PhD, BioLegend

5:30 pm – 5:40 pm
State of FOCIS
Yerba Buena 8, Lower Level
Jeffrey Bluestone, PhD, University of California, San Francisco; FOCIS President

5:40 pm – 6:25 pm
Keynote Address: Taming a Colossal Giant: The Human Allograft Response
Megan Sykes, MD, Columbia University
Yerba Buena 8, Lower Level
Chair: Laurence Turka, MD, Third Rock Ventures

6:25 pm – 7:30 pm
Exhibit and Poster Reception
Yerba Buena 9, Lower Level
Network with attendees while visiting exhibits and posters with authors present. Complimentary light hors d’oeuvres & wine served.
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Saturday, June 23
7:30 am – 3:00 pm
Registration Desk Open
South Registration Desk, Lower Level

8:00 am – 9:30 am
**Immunodeficiency**
Yerba Buena 8, Lower Level
Chair: Jonathan Maltzman, MD, PhD, Stanford University
Sponsored by

8:00 am
Autoimmunity, Autoinflammation, and Immunodeficiency: What Do We Learn from Monogenetic Traits?
Bodo Grimbacher, MD, University Medical Center Freiburg

8:30 am
Genetic Defect of Immunity to EBV
Alain Fischer, MD, PhD, Collège de France

9:00 am
Primary Immunodeficiency
Jennifer M. Puck, MD, University of California, San Francisco

9:30 am – 10:00 am
Networking Break
Yerba Buena 9, Lower Level

10:00 am – 11:30 am
**Allergy**
Yerba Buena 8, Lower Level
Chair: Kari Nadeau, MD, PhD, Stanford University

10:00 am
Immune Heterogeneity in Severe Steroid-refractory Asthma
Anuradha Ray, PhD, University of Pittsburgh

10:30 am
Early Life Environmental Exposure, Allergies and Asthma
James Gern, MD, University of Wisconsin, Madison

11:00 am
Mast Cells: Primary, Secondary, or Redundant Roles in Immunity
Stephen Galli, MD, Stanford University

11:30 am – 1:00 pm
Lunch Break
Delegates on their own for lunch

1:00 pm – 2:45 pm
**New Mechanisms for Old Players: Complement**
Yerba Buena 10 & 11, Lower Level
Chair: William Robinson, MD, PhD, Stanford University

1:00 pm
Complement: Taming the Hydra for Therapeutic Benefit
Michael Holers, MD, University of Colorado, Denver

1:25 pm
Abstract Presentation: Human Memory CD8 T Cell Effector Potential is Epigenetically Preserved During In Vivo Homeostasis (Poster # F.30)
Ben Youngblood, St Jude Children’s Research Hospital

1:40 pm
Endosome-based Signaling by Complement Membrane Attack Complexes
Dan Jane-Wit, MD, PhD, FACC, RPVI, Yale University

2:05 pm
Abstract Presentation: Complement Induces Inflammasome Assembly in IFN-γ-primed Human Endothelium: Mechanisms and Consequences for Allograft Rejection (Poster # F.32)
Catherine Xie, BS, MPhil, Yale University

2:20 pm
C1q in Health and Disease - Roles Outside the Complement System
Marina Botto, FMedSci, Imperial College London

1:00 pm – 2:45 pm
**Terminating Inflammation**
Yerba Buena 12 & 13, Lower Level
Chair: Terri Laufer, MD, University of Pennsylvania

1:00 pm
To Ubiquitinate or To Deubiquitinate, That is the Question
Dan Kastner, MD, PhD, National Institutes of Health

1:25 pm
Bronchopulmonary Dysplasia: a Failure to Repair or Too Much Repair
Steven Ziegler, PhD, Benaroya Research Institute at Virginia Mason

1:40 pm
Lung Fibrosis and Atypical Monocyte
Shizuo Akira, MD, PhD, Osaka University

2:05 pm
A Novel IgG-IL2 Mutein to Selectively Activate T Regulatory Cells
Annalisa D’Andrea, PhD, Roche

2:20 pm
Abstract Presentation: Caspase-1 Laden Extracellular Vesicles from Cystic Fibrosis Lungs Activate Inflammasome Signalling in Neutrophils and Epithelial Cells (Poster # F.31)
Osric Anthony Forrest, BSc, Emory University

1:00 pm – 2:45 pm
**Trainee Networking Session**
Trainee Networking Session: Discovering Your Path
Yerba Buena 14 & 15
1:00pm – 2:45pm
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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 had no relationship to disclose. The number following each company name represents the specific relationship from the key below.

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Bluestone, Jeffrey A.: Juno (1, 4, 6)

Coussens, Lisa: Acerta Pharma, LLC (6), CellSignaling Technologies (1), Deciphera Pharmaceuticals, LLC, Janssen Research & Development, LLC (6), Roche Glycart AG (6), Syndax Pharmaceuticals Inc. (1, 6)

Crowe, Jr., James E.: CompuVax (1), IDBiologics (4), Meissa Vaccines (1), PaxVax (1), Pfizer (1), Sanofi (1, 6), Takeda (1)

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Payne, Aimee S.: Novartis (5), Tycho Therapeutics, Inc. (4, 5)

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Yuan, Jianda: Merck (2, 4)

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Acknowledgements

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- Yerba Buena 9
- Yerba Buena 10 & 11
- Yerba Buena 12 & 13
- Yerba Buena 14 & 15
- Yerba Buena Grand Assembly

SECOND LEVEL

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- Nob Hill CD
- South Registration Desk

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SEE OUR POSTER
Thurs, June 21, 2018
6:15 – 7:30pm

Analysis of Infiltrating B Cell Populations in the Tumor Microenvironment Using Single Cell Transcriptomics
Category: Immune monitoring
Poster ID: T.100
SOLVING THE SOLID TUMOR CHALLENGE

Learn more about Tessa’s Virus-Specific T cell (VST) platform – one of the first cell therapies to show success against solid tumors.

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References:
1. Chia WK et al. Mol Ther 2014
2. Louis CU et al. J Immunother 2010

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