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Dear Colleagues,

Welcome to the 16th annual meeting of the Federation of Clinical Immunology Societies, FOCIS 2016. I am particularly excited about this year's meeting. The scientific program reflects the core tenets of FOCIS by bridging the gap between basic and clinical immunology and discussing novel translational therapies.

We value the participation of each of you who have touched FOCIS in one way or another over the past 16 years, and we hope that you will join us as we move into the future. FOCIS introduced individual membership in 2012, and I invite you to join FOCIS and collaborate with us to promote education, research and patient care around the theme of translational immunology. Memberships run on a calendar year basis and are available at reasonable prices. At FOCIS 2016, membership also gains you exclusive access to a Members Only Lounge complete with a complimentary espresso bar as well as a hip Members Only Reception in the Lighthouse on Thursday, June 23.

Please join me in extending my most heartfelt thanks to the members of the FOCIS 2016 Scientific Program Committee for their time, energy and expertise. I hope you enjoy the fruits of their labor – FOCIS 2016. Welcome to Boston!

Sincerely,



Frank Nestle, MD, FOCIS President
King's College London



FOCIS 2016 Mobile App

<http://bit.ly/Focis2016>

Access the Scientific Program, Educational Courses, Abstracts and create a personalized schedule from your computer, tablet or smartphone.



FOCIS[®] 2016

FOCIS 2016 Scientific Program Committee



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FOCIS 2016 General Information

Exhibit Hall Hours

Wednesday, June 22	4:00 pm - 8:15 pm
Thursday, June 23	8:00 am - 7:30 pm
Friday, June 24	8:00 am - 7:30 pm

Poster Hall Hours

Wednesday, June 22	6:15 pm - 8:15 pm
Thursday, June 23	6:15 pm - 7:30 pm
Friday, June 24	6:15 pm - 7:30 pm

Poster Set-Up and Take-Down Hours

Wednesday, June 22	Set-up:	12:00 pm - 12:45 pm
	Take-down:	8:15 pm - 8:45 pm
Thursday, June 23	Set-up:	7:00 am - 8:00 am
	Take-down:	7:30 pm - 8:00 pm
Friday, June 24	Set-up:	7:00 am - 8:00 am
	Take-down:	7:30 pm - 8:00 pm

Registration and Speaker Check-In Hours

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 - 5:30 pm

Evaluations / Pre-Post Tests

Daily online evaluations are available at <http://bit.ly/1qdKstn>. Delegates will also receive an email reminder and link to the online system daily during the meeting. Delegates are asked to complete an evaluation for each session attended, as well as the pre and post-test for the meeting.

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 2016. Certificates of attendance will be available upon request.

Speakers

Speakers are asked to report to speaker check-in area located in the Harborside room on the Plaza Level of the World Trade Center at least 24 hours prior to the start of their session. Computers will be available for review and upload of presentations.

Photo Policy

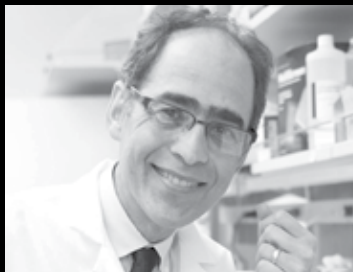
Please refrain from photography in the sessions and poster hall.

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FOCIS 2016 Scientific Program

Tuesday, June 21st

7:00 am – 5:30 pm
8:00 am – 5:15 pm
8:00 am – 5:00 pm

Registration Open

Basic Immunology in Medicine: Update 2016 (separate registration required)

Computational Immunology Course (separate registration required)



Departures

Atrium Lobby
Cityview 2
Cityview 1

Wednesday, June 22nd

7:00 am – 5:30 pm
8:00 am – 5:00 pm

Registration Open

Interventional Immunology Course (separate registration required)



Atrium Lobby
Cityview 1

Member Society Symposia (included in FOCIS 2016 registration)

8:00 am - 12:00 pm

Adult and Pediatric Immune Deficiency and Risk of Malignancy – *American Academy of Allergy, Asthma, and Immunology with the American College of Allergy, Asthma, and Immunology*

Waterfront 2

8:00-12:00pm

Adult and Pediatric Immune Deficiency and Risk of Malignancy – *Marianne Frieri MD, PhD, Nassau University Medical Center*

8:00 am – 12:00 pm

Eating into Transplantation Tolerance – *Organized by the American Society for Histocompatibility and Immunogenetics (ASHI) with The Transplantation Society (TTS)*



8:00 am – 8:10 am

Introduction

8:15 am – 8:45 am

Complement: An Expected Force From “Within” – *Claudia Kemper, PhD, King's College London*

8:45 am – 9:15 am

Targeting Metabolism as a Means of Regulating Immune Responses – *Jonathan Powell, MD, Johns Hopkins University*

9:15 am – 9:45 am

Early Experiences in Clinical Treg Cell Therapy in Transplantation – *Qhizi Tang, PhD, University of California, San Francisco*

9:45 am – 10:15 am

Networking Break

10:15 am – 10:45 am

Role of Blood Vessels in Alloreactivity and Exacerbation of Rejection by Hyperlipidemia – *Jordan Pober, MD, PhD, Yale University*

10:45 am – 11:15 am

Hyperlipidemia in Tolerance and Rejection – *John Iacomini, PhD, Tufts University*

11:15 am – 12:45 pm

Harnessing the Powers of Regulatory T Cells in Transplantation – *Megan Levings, PhD, University of British Columbia*

8:30 am – 12:00 pm

Immunophenotyping to Understand Mechanisms in Human Disease – *Organized by the Canadian Society for Immunology (CSI)*



Harborview 1

8:30 am – 8:35 am

Introduction – *Tania Watts, PhD, University of Toronto*

8:35 am – 9:10 am

Precision Medicine in Kawasaki Disease: Learning from Biology to Improve Outcomes – *Rae Yeung, MD, PhD, FRCPC, The Hospital for Sick Children*

9:10 am – 9:45 am

The Role of TRAF1 in Regulating Inflammation – *Ali Abdul Sater, PhD, University of Toronto*

9:45 am – 10:20 am

Molecular and Functional Dissection of Inheritable Mutations in the Human FOXP3 Gene: Implications for Therapy – *Ciriaco Piccirillo, PhD, McGill University*

10:20 am – 10:40 am

Networking Break

10:40 am – 11:15 am

Biomarker Discovery Using Phospho-flow and Mass Cytometry – *Cindy Guidos, PhD, University of Toronto*

11:15 am – 11:50 am

Allodepleted T Cells to Promote Immune Reconstitution After Haplo-identical Stem Cell Transplantation – *Denis-Claude Roy, MD, FRCPC, University of Montreal*

11:50 am – 12:00 pm

Closing remarks – *Ciriaco Piccirillo, PhD, McGill University*

12:00 pm – 12:45 pm

Free Time for Lunch

12:00 pm – 12:45 pm

Women in Transplantation Session

Waterfront 1

12:00 pm – 2:00 pm

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

Cityview 2

12:45 pm – 4:45 pm

The Role of the Microbiome in Inflammatory Eye Disease – *Organized by the American Uveitis Society (AUS)*



Waterfront 1

12:45 pm – 12:50 pm

Introduction – *Kathryn Pepple, MD, PhD, University of Washington*

12:50 pm – 1:00 pm

The Microbiome in Immunity Overview – *Phoebe Lin, MD, PhD, Oregon Health & Science University*

Wednesday, June 22nd (cont.)

1:00 pm – 1:25 pm	Commensal Microbiota as a Potential Trigger of Uveitis – <i>Rachel Caspi, PhD, National Institutes of Health</i>
1:25 pm – 1:50 pm	The Gut Microbiome in Uveitis – <i>Phoebe Lin, MD, PhD, Oregon Health & Science University</i>
1:50 pm – 2:15 pm	The Oral Microbiome and Glaucoma – <i>John Danias, MD, SUNY Downstate Medical Center</i>
2:15 pm – 2:45 pm	Networking Break
2:45 pm – 3:10 pm	The Local Ocular Microbiome: Overview and Infectious Keratitis – <i>Michael Zegans, MD, Dartmouth College</i>
3:10 pm – 3:35 pm	The Local Microbiome in Dry Eye and Viral Conjunctivitis – <i>Cecilia Lee, MD, University of Washington</i>
3:35 pm – 4:00 pm	Bioinformatics and Big Data Approaches in Microbiome Studies – <i>Aaron Lee, MD, MSCI, University of Washington</i>
4:00 pm – 4:45 pm	Panel Discussion – <i>Moderated by Kathryn Pepple, MD, PhD; Phoebe Lin, MD, PhD</i>
12:45 pm – 4:45 pm	Immune Tolerance Strategies in Multiple Sclerosis – <i>Organized by the British Society for Immunology (BSI) with the Immune Tolerance Network (ITN)</i>   Harborview 3
12:45 pm – 12:55 pm	Introduction – <i>Sandra Amor, BSc, PhD, VU University; David Hafler, MD, Yale University</i>
12:55 pm – 1:30 pm	MS Drugs May Shed Insight into How to Control Antigen-specific Autoimmunity – <i>David Baker, PhD, University of Washington</i>
1:30 pm – 2:05 pm	Single Cell Genomics Identifies Novel Regulators of Tissue Inflammation – <i>Vijay Kuchroo, DVM, PhD, Brigham & Women's Hospital</i>
2:05 pm – 2:40 pm	Generation of Inflammatory Th1-Tregs in Multiple Sclerosis – <i>Margarita Dominguez-Villar, PhD, Yale University</i>
2:40 pm – 2:55 pm	Networking Break
2:55 pm – 3:30 pm	Switching Off Unwanted Immune Responses: The Mechanism of Antigen-specific Immunotherapy with T Cell Epitopes – <i>David Wraith, PhD, University of Bristol</i>
3:30 pm – 4:05 pm	Multiple Sclerosis Transcriptome Analysis – <i>Eoin McKinney, PhD, University of Cambridge</i>
4:05 pm – 4:40 pm	Reconstitution of Immune Cell Populations in Multiple Sclerosis Patients After Autologous Stem Cell Transplantation (ITN HALT-MS trial) – <i>Fred Karnell, PhD, Immune Tolerance Network</i>
4:40 pm – 4:45 pm	Final Discussion – <i>Jerry Nepom, MD, PhD, Benaroya Research Institute; Sandra Amor, BSc, PhD, VU University</i>
12:45 pm – 4:45 pm	Mechanisms that Drive Human Autoimmune Disease and Implications for Prevention – <i>Organized by the Cooperative Study Group for Autoimmune Disease Prevention (CSGADP) with NIH, NIAID and NIDDK</i>     Harborview 1
12:45 pm – 1:00 pm	Introduction to CSGADP – <i>Thomas Esch, PhD, National Institutes of Health</i>
1:00 pm – 1:30 pm	Tracking the Adaptive Immune Response in RA – <i>Jane Buckner, MD, Benaroya Research Institute</i>
1:30 pm – 2:00 pm	Context Matters: Matrix and the Immune Response – <i>Paul Bollyky, PhD, Stanford University</i>
2:00 pm – 2:30 pm	Looking into the Tissues in T1D – <i>Matthias von Herrath, MD, La Jolla Institute for Allergy & Immunology</i>
2:30 pm – 2:45 pm	Networking Break
2:45 pm – 3:15 pm	MAIT Cells in Pathogenesis and Prediction of T1D – <i>Nora Sarvetnick, PhD, University of Nebraska</i>
3:15 pm – 3:45 pm	Genetic and Epigenetic Factors that Drive Autoimmunity – <i>David Hafler, MD, Yale University</i>
3:45 pm – 4:30 pm	Early Events in the Transition to Systemic Lupus Erythematosus – <i>Judith James, MD, PhD, Oklahoma Medical Research Foundation</i>
12:45 pm – 4:45 pm	Inflammation or Resolution: Decision Making at Mucosal Surfaces – <i>Organized by the Society for Mucosal Immunology (SMI)</i>  Harborview 2
12:45 pm – 1:25 pm	Immune Tolerance in the Respiratory Tract and Loss in Severe Asthma – <i>Anuradha Ray, PhD, University of Pittsburgh</i>
1:25 pm – 2:05 pm	Role of Extracellular Histamine Releasing Factor in Allergies and Asthma – <i>Toshiaki Kawakami, PhD, La Jolla Institute for Allergy & Immunology</i>
2:05 pm – 2:45 pm	Microbiome, Immunity and Development of Airway Disease – <i>Nicholas Lukacs, PhD, University of Michigan</i>
2:45 pm – 3:25 pm	Metabolism of T Cells at the Interface of Immunity and Suppression – <i>Jeffrey Rathmell, PhD, Duke University</i>
3:25 pm – 4:05 pm	Tissue Adaptation: Implications for Gut Immunity and Tolerance – <i>Daniel Mucida, PhD, Rockefeller University</i>
4:05 pm – 4:45 pm	Specialized Pro-resolving Mediators for the Resolution of Lung Inflammation and Infection – <i>Bruce Levy, MD, Mayo Clinic</i>

Wednesday, June 22nd (cont.)

12:45 pm – 4:45 pm	Biomarker Discovery and Signature Profiles: New Opportunities to Assess Transplantation, Autoimmune Diseases and Cancer – Organized by the Association of Medical Laboratory Immunologists (AMLI) with the American Society for Histocompatibility and Immunogenetics (ASHI)	Waterfront 2
12:45 pm – 12:55 pm	Introduction – <i>Barbara Dietrick, PhD, Florida State University</i>	
12:55 pm – 1:40 pm	Predictive and Prognostic Biomarkers in Cancer Immunotherapy – <i>Lisa Butterfield, PhD, University of Pittsburgh</i>	
1:40 pm – 2:25 pm	Identification of New Biomarkers in Systemic Sclerosis that Track Progression of Disease – <i>Robert Lafyatis, MD, Boston University</i>	
2:25 pm – 3:10 pm	Donor-specific Alloantibodies in Liver Transplantation: How Should We Define and Improve Long-term Success – <i>Jacqueline O'Leary, MD, Baylor University Medical Center</i>	
3:10 pm – 3:55 pm	Type 1 IFN Signature as a Biomarker of Clinical Response to Therapy in RA – <i>Timothy Niewold, MD, Mayo Clinic</i>	
3:55 pm – 4:40 pm	Biomarkers of Tolerance in Renal Transplantation – <i>Lawrence Turka, MD, Harvard Medical School</i>	

5:25 pm – 5:30 pm	Opening Keynote Session:	Commonwealth A
5:30 pm – 6:15 pm	Presentation of C. Garrison Fathman Fellows Fund Travel Award Opening Keynote Address – Chair: <i>Frank Nestle, MD, King's College London</i> Biomaterials and Biotechnology: From the Discovery of the First Angiogenesis Inhibitors to the Development of Controlled Drug Delivery Systems and the Foundation of Tissue Engineering – <i>Robert Langer, PhD, Massachusetts Institute of Technology</i>	

6:15 pm – 8:15 pm	Opening Reception (includes Exhibits & Poster Sessions with authors present)	Commonwealth B
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Thursday, June 23rd

7:00 am – 5:30 am	Registration Open	Atrium Lobby
7:30 am – 6:15 pm	Posters Available for Viewing (authors optional)	Commonwealth B
8:00 am – 9:30 am	Adipose as an Immune Organ – Chair: <i>David Hafler, MD, Yale University</i>	Commonwealth A
8:00 am – 8:30 am	Innate Mechanisms of Thermogenesis – <i>Ajay Chawla, MD, PhD, University of California, San Francisco</i>	
8:30 am – 9:00 am	Treg Control of Metabolic Indices – <i>Diane Mathis, PhD, Harvard University</i>	
9:00 am – 9:30 am	Role for Macrophages in Adipose Tissue Iron Homeostasis – <i>Alyssa Hasty, PhD, Vanderbilt University</i>	
9:30 am – 10:00 am	Networking Break	Commonwealth B
9:55 am – 10:00 am	Tribute to Robert Nussenblatt, MD	Commonwealth A
10:00 am – 11:30 am	Type 2 Allergic Inflammation – Chairs: <i>Kari Nadeau, MD, PhD, Stanford University; Daniel Rotrosen, MD, National Institutes of Health</i>	
10:00 am – 10:30 am	Regulation of Type-2 Inflammation – <i>Steve Ziegler, PhD, Benaroya Research Institute</i>	
10:30 am – 11:00 am	Regulatory T Cells in Allergic Inflammation – <i>Talal Chatila, MD, PhD, Boston Children's Hospital</i>	
11:00 am – 11:30 am	Profiling Food Allergen-specific Immune Response in Pediatric Cohorts – <i>Cecelia Berin, PhD, Mount Sinai Hospital</i>	

11:30 am – 1:00 pm	Free Time for Lunch	
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11:45 am – 1:00 pm	Lunch Programs • BioLegend Industry Workshop	 Harborview 2
	• Myriad RBM, Inc. Industry Workshop	 Harborview 3

• Lupus Insight Prize Luncheon – Organized by the Alliance for Lupus Research, Lupus Foundation of America, and the Lupus Research Institute. Prize Recipient: <i>Ann Marshak-Rothstein, PhD, University of Massachusetts Medical School</i> What Can We Learn From Murine Cutaneous Lupus? <i>Mark Jay Shlomchik, MD, PhD</i>	Cityview 1
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Thursday, June 23rd (cont.)

1:00 pm – 2:45 pm	Type 2 Inflammation: Impact on Translation – Chairs: Kari Nadeau, MD, PhD, Stanford University; Daniel Rotrosen, MD, National Institutes of Health	Harborview 1
1:00 pm – 1:25 pm	Innate Type 2 Receptor Expressions on Airway Allergen-specific CD4+ T Cells Distinguishes Allergic Asthmatics from Allergic Non-asthmatics – Andy Luster, MD, PhD, Massachusetts General Hospital	
1:25 pm – 1:50 pm	Function of the Human Skin Microbiome in Atopic Dermatitis – Richard Gallo, MD, PhD, University of California, San Diego	
1:50 pm – 2:15 pm	Peptide Immunotherapy for the Treatment of Allergic Disease – Mark Larche, PhD, McMaster University	
2:15 pm – 2:45 pm	Perspectives on Translation Through Industry-sponsored Research – Stephen Dilly, MBBS, PhD, Aimmune; Elliot Barnathan, MD, Johnson & Johnson; Neil Graham, MBBS, MD, PhD, Regeneron	
1:00 pm – 2:45 pm	MicroFlora and Virome Stories – Chair: C. Garrison Fathman, MD, Stanford University	Harborview 2
1:00 pm – 1:25 pm	An Integrative View of Microbiome-host Interactions in Immune Disease – Ramnik Xavier, MD, PhD, Massachusetts General Hospital	
1:25 pm – 1:40 pm	Abstract Presentation: Lachnospiraceae Protect from Colitis by Regulating Colonic Group 3 Innate Lymphoid Cells – Neil Surana, MD, PhD, Boston Children's Hospital	
1:40 pm – 2:05 pm	The Gut Microbiota in Health and Colon Cancer – Wendy Garrett, MD, PhD, Harvard School of Public Health	
2:05 pm – 2:20 pm	Abstract Presentation: Regulatory B Cell Induction by a Human Gut Commensal Antigen Protects Against CNS Inflammation and Demyelination – Sara Colpitts, PhD, Dartmouth College	
2:20 pm – 2:45 pm	Probing the Medical Microbiome – George Weinstock, PhD, The Jackson Laboratory	
1:00 pm – 2:45 pm	Immunologic Crossroads in Transplantation – Chair: Megan Sykes, MD, Columbia University	Harborview 3
1:00 pm – 1:20 pm	Transplantation Tolerance: An Optimal and Feasible Solution – Megan Sykes, MD, Columbia University	
1:20 pm – 1:40 pm	Advances in Long-term Immunosuppression: Can Improved Transplant Survival Times and Improved Quality of Life After Transplantation be Achieved? – Randy Morris, MD, Stanford University	
1:50 pm – 2:10 pm	Xenotransplantation: The Biological Answer to Regenerative Medicine – Philip O'Connell, MD, PhD, University of Sydney	
2:10 pm – 2:30 pm	Engineering Organs on Demand: Progress to Date and Next Steps on the Horizon – Harald Ott, MD, Massachusetts General Hospital	
2:30 pm – 2:45 pm	Panel Discussion	
2:45 pm – 3:15 pm	Networking Break	Commonwealth B
3:15 pm – 5:15 pm	Oral Abstract Session: Road Maps of Molecular Dissection of Antigen Recognition and Function – Chair: Elaine Reed, PhD, University of California, San Francisco	Harborview 1
3:15 pm – 3:30 pm	A New Window into the Human Alloresponse via High-throughput T Cell Receptor Sequencing – Susan DeWolf, MD, Columbia University	

C. Garrison Fathman Fellows Fund



Congratulations!

Michelle Simpson-Abelson, PhD, University of Pittsburgh

Winner of the fourth 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, and educational courses, and to participate in exchange programs that advance human health through immunology.

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Thursday, June 23rd (cont.)

3:30 pm – 3:45 pm	Detection of Islet Antigen Expanded CD4 T Cell TCR Pairs and Transcriptomes by Single Cell RNAseq – <i>Karen Cerosaletti, PhD, Benaroya Research Institute</i>
3:45 pm – 4:00 pm	Sequencing the Plasmablast Antibody Repertoire in Systemic Lupus Erythematosus to Discover Pathogenic Complement Factor Autoantibodies – <i>Anna Postolova, MD, Stanford University</i>
4:00 pm – 4:15 pm	Accumulation of CD8 T Cells Expressing EOMES-associated Transcripts in Anti-CD3 Treated Recent Onset T1D Subjects – <i>S. Alice Long, PhD, Benaroya Research Institute</i>
4:15 pm – 4:30 pm	Identification of Eomes-positive T Helper Cells as a Pathogenic Factor in Chronic Neuroinflammation – <i>Ben Raveney, PhD, National Institute of Neuroscience</i>
4:30 pm – 4:45 pm	How Does the Addition of Surface Protein Antigens to a Potential Vaccine for Staphylococcus aureus Affect the Immune Response it Induces – <i>Christopher Dupont, PhD, Massachusetts Institute of Technology</i>
4:45 pm – 5:00 pm	Intestinal Microbiota Sustains Inflammation and Autoimmunity Induced by Hypomorphic RAG Defects – <i>Barbara Cassani, PhD, Humanitas Clinical and Research Center</i>
5:00 pm – 5:15 pm	Exploiting Effector Functions of Tumorantigen-specific CD40-activated B Cells for Cancer Immunotherapy – <i>Kerstin Wennhold, PhD, University Hospital Cologne</i>
3:15 pm – 5:15 pm	Oral Abstract Session: Turbulence of Pathophysiology of Systemic Autoimmunity – Chair: <i>Virginia Pascual, MD, Baylor Institute for Immunology Research</i>
3:15 pm – 3:30 pm	Dysregulation of Adaptive Immunity Appears Prior to and Concurrent with Autoantibody Accrual in Early SLE Pathogenesis and Predicts Transition to Classified Disease – <i>Melissa Munroe, MD, PhD, Oklahoma Medical Research Foundation</i>
3:30 pm – 3:45 pm	Autoantibodies Targeting TLR and SMAD Pathways Define New Subgroups in Systemic Lupus Erythematosus – <i>Myles Lewis, MRCP, PhD, Queen Mary University of London</i>
3:45 pm – 4:00 pm	Circulating miR-483-5p Can Regulate Fibroblasts Activation and Constitutes a Potential Biomarker for the Diagnosis of Systemic Sclerosis – <i>Eleni Chouri, MSc, University Medical Center Utrecht</i>
4:00 pm – 4:15 pm	Reduced Modulation of GATA-3 Activity by T-bet in CD8+ T Cells from Patients with Systemic Sclerosis Leads to IL-13 Over-production and Cutaneous Fibrosis – <i>Patrizia Fuschiotti, PhD, University of Pittsburgh</i>
4:15 pm – 4:30 pm	Wnt-activated APCs Regulate T Cell Response in Multiple Sclerosis – <i>Igal Ifergan, PhD, Northwestern University</i>
4:30 pm – 4:45 pm	Single Cell Gene Expression Studies in Lupus Patient Monocytes Reveal Novel Patterns Reflecting Disease Activity, Interferon, and Medical Treatment – <i>Timothy Niewold, MD, Mayo Clinic</i>
4:45 pm – 5:00 pm	The Interface Between the Skin Microenvironment and Systemic Immunity Shapes the Inflammatory Immunome in Systemic Sclerosis: A Multidimensional, High Throughput Analysis – <i>Hari Balaji, PhD, SingHealth Translational Immunology and Inflammation Centre</i>
5:00 pm – 5:15 pm	Microbiome-dependent Modulation of Mucosal Immunity at the Ocular Surface – <i>Rachel Caspi, PhD, National Eye Institute, NIH</i>
3:15 pm – 5:15 pm	Oral Abstract Session: New Cells...New Frontiers – Chair: <i>Vijay Kuchroo, PhD, Brigham & Women's Hospital</i>
3:15 pm – 3:30 pm	The Transcriptional Landscape of Human Innate T Cells – <i>Patrick Brennan, MD, PhD, Brigham & Women's Hospital</i>
3:30 pm – 3:45 pm	A New Population of IFNG+IL10+IL34+ Secreting Human CD8+CD45RCLOW Tregs Efficiently Inhibits Anti-donor Immune Response in Transplantation – <i>Carole Guillonnet, PhD, INSERM UMR 1064</i>
3:45 pm – 4:00 pm	Downregulation of CD3ζ in NK and NKT Cells Contributes to SLE Pathogenesis – <i>Abel Suarez Fueyo, PhD, Harvard Medical School</i>
4:00 pm – 4:15 pm	IL-13 and IL-33 Pathways Influence Inflammation in Metabolic Tissues: Contribution of IL-13Rα2
4:15 pm – 4:30 pm	Circulating CXCR5+PD-1+ICOS+ Follicular T Helper Cells are Increased Near the Onset of Type 1 Diabetes in Subjects with Multiple Autoantibodies – <i>Tuure Kinnunen, MD, PhD, University of Eastern Finland</i>
4:30 pm – 4:45 pm	IL-33 Exerts Immunoregulatory Effects on Mesenchymal Stem Cells – <i>Karina Pino-Lagos, PhD, Universidad de los Andes</i>
4:45 pm – 5:00 pm	CD11b+Gr-1+ Myeloid-derived Suppressor Cells Reduce Atherosclerotic Lesion Development in LDLr Deficient Mice – <i>Amanda Foks, PhD, Leiden University</i>
5:00 pm – 5:15 pm	Phenotypic and Functional Heterogeneity of cTfh Cells in Systemic Lupus Erythematosus – <i>Rong Fan, PhD, Yale University</i>

Harborview 2

Harborview 3

Thursday, June 23rd (cont.)

3:15 pm – 5:15 pm	Principles of Flow Cytometry for Immune Monitoring Course	Cityview 1
3:15 pm – 4:15 pm	High-sensitivity Immunoassay Platforms – <i>Phil McCoy, PhD, NHLBI, NIH</i>	
4:15 pm – 5:15 pm	Single-cell TCRseq Assays – <i>Holden Maecker, PhD, Stanford University</i>	
5:30 pm – 6:15 pm	Keynote Address – Chair: <i>Jeffrey Bluestone, PhD, University of California, San Francisco</i>	Commonwealth A
	Short-lived Myeloid Cell Lifespan is Regulated by a Long Non-coding RNA – <i>Richard Flavell, PhD, FRS, Yale University</i>	
6:15 pm – 7:30 pm	Exhibits and Poster Session (authors present)	Commonwealth B
7:30 pm – 8:30 pm	FOCIS Member Reception (FOCIS members only)	Lighthouse

Friday, June 24th

7:00 am – 5:30 pm	Registration Open	Atrium Lobby
7:30 am – 6:15 pm	Posters Available for Viewing (authors optional)	Commonwealth B
8:00 am – 9:30 am	Cancer Immunotherapy and Escape – Chair: <i>Jordan Pober, MD, PhD, Yale University</i>	Commonwealth A
8:00 am – 8:30 am	Developing Safe and Effective T Cell Therapy for Cancer – <i>Stan Riddell, MD, Fred Hutchinson Cancer Research Center</i>	
8:30 am – 9:00 am	The Mechanistic Basis of Cancer Immunotherapy – <i>Ira Mellman, PhD, Genentech</i>	
9:00 am – 9:30 am	Understanding Mechanisms of Resistance to Cancer Immunotherapy – <i>Tom Gajewski, MD, PhD, University of Chicago</i>	
9:30 am – 10:00 am	Networking Break	Commonwealth B
9:55 am – 10:00 am	Scientific Program Committee Awards Presentation	Commonwealth A
10:00 am – 11:30 am	Epigenetics: Where Environment Meets the Genome – Chair: <i>Terri Laufer, MD, University of Pennsylvania</i>	Commonwealth A
10:00 am – 10:30 am	Epigenetics in Autoimmunity: The Crossroads of Environment and Genetics – <i>Gary Firestein, MD, University of California, San Diego</i>	
10:30 am – 11:00 am	Title Computational Approaches for Understanding Tumor-immune Interaction with Clinical Implications – <i>Bo Li, PhD, Harvard University</i>	
11:00 am – 11:30 am	Enhancers Delineate Disease-associated Regulatory Nodes in T Cells – <i>Golnaz Vahedi, PhD, University of Pennsylvania</i>	
11:30 am – 1:00 pm	Free Time for Lunch	
11:45 am – 1:00 pm	Lunch Programs	
	• Where Academia Meets Biotech: Partnering with Venture Capital and Biotech Companies – Chair: <i>Larry Turka, MD, Harvard Medical School</i> Featuring: <i>Intellia Therapeutics, Jounce Therapeutics, Flagship Ventures, Atlas Venture, Third Rock Ventures and Harvard Medical School</i>	Harborview 3
	• Preparation and Review of Your NIH Grant Application – <i>Thomas Esch, PhD, NIAID; Andrea Wurster, PhD, NIAID</i>	Cityview 1
	• Meet the <i>Science Immunology</i> Editor, Angela C. Colmone, PhD	Harborview 2
1:00 pm – 2:45 pm	Cancer and Autoimmunity: Manipulating Signal 2 for Immune Therapy and Toxicities – Chair: <i>Raffaele De Palma, PhD, Second University of Naples</i>	Harborview 1
1:00 pm – 1:25 pm	Targeting Immune Regulation at the Tumor Site – <i>Sergio Quezada, PhD, University College London Cancer Institute</i>	
1:25 pm – 1:40 pm	Abstract Presentation: PD-1 Marks Dysfunctional Regulatory T Cells in Malignant Gliomas – <i>Liliana Lucca, PhD, Yale University</i>	

Friday, June 24th (cont.)

1:40 pm – 2:05 pm	Autoantibodies in Scleroderma: Markers of Cancer Immunoediting – <i>Tony Rosen MD, Johns Hopkins University</i>	
2:05 pm – 2:20 pm	Abstract Presentation: A Multidimensional Analysis of Hepatocellular Carcinoma Reveals an Immunosuppressive Microenvironment Shaped Along a Gradient of Chemokines and PD-1 Expression – <i>Valerie Chew, PhD, SingHealth Translational Immunology and Inflammation Centre</i>	
2:20 pm – 2:45 pm	Predicting and Explaining Long-term Outcomes in Autoimmune and Inflammatory Disease – <i>Ken Smith, MD, PhD, University of Cambridge</i>	
1:00 pm – 2:45 pm	Latest in the Industry Pipeline – Chair: <i>Amit Bar-Or, MD, McGill University</i>	Harborview 2
1:00 pm – 1:35 pm	Mucosal Immunity and IBD: Misadventures in Drug Development – <i>Scott Plevy, MD, Janssen</i>	
1:35 pm – 2:10 pm	GSK's Pipeline: Towards Remission of Immune-mediated Inflammatory Diseases – <i>Paul Peter Tak, MD, PhD, GlaxoSmithKline</i>	
2:10 pm – 2:45 pm	Personalized Health Care in Autoimmune and Inflammatory Diseases – <i>Andy Chan, MD, PhD, Genentech</i>	
1:00 pm – 2:45 pm	Tissue Resident Memory Cells and Refractoriness – Chair: <i>Abul Abbas, MD, University of California, San Francisco</i>	Harborview 3
1:00 pm – 1:25 pm	Resident Memory T Cells in Human Skin Disease – <i>Rachael Clark, MD, PhD, Brigham & Women's Hospital</i>	
1:25 pm – 1:40 pm	Abstract Presentation: Generation of Pro-inflammatory B Cell Subsets in Aging Mice and Humans can be Assisted by Visceral Adipose Tissue – <i>Bonnie Blomberg, PhD, University of Miami</i>	
1:40 pm – 2:05 pm	Resident Memory CD8 T Cells: Form, Function and Distribution – <i>David Masopust, PhD, University of Minnesota</i>	
2:05 pm – 2:20 pm	Abstract Presentation: IL2 and IL-15 Rescue TEMRA CD8 T Cells from Mitochondrial Dysfunction Associated Senescence Through a p38MAPK Dependent Pathway and Foster Their Pathogenic Potential – <i>Nicolas Degauque, PhD, INSERM UMR 1064</i>	
2:20 pm – 2:45 pm	Tissue Resident Natural Killer Cells – <i>Wayne Yokoyama, MD, Washington University</i>	
2:45 pm – 3:15 pm	Networking Break	Commonwealth B
3:15 pm – 5:15 pm	Oral Abstract Session: Cleared for Takeoff with Innate Immunity and Innate Cells – Chair: <i>Timothy Niewold, MD, Mayo Clinic</i>	Harborview 1
3:15 pm – 3:30 pm	X-linked Neutropenia Caused by Overactive Mutations in the Wiskott-Aldrich Syndrome Protein Renders Neutrophils Hyperactive – <i>Lisa Westerberg, PhD, Karolinska Institute</i>	
3:30 pm – 3:45 pm	Early-onset Severe Arthritis Associated with a de novo Gain-of-function Germline Mutation in MYD88 – <i>Keith Sikora, MD, National Institutes of Health</i>	
3:45 pm – 4:00 pm	Eros is a Novel Transmembrane Protein Essential for the Phagocyte Reactive Oxygen Burst and Host Defense – <i>David Thomas, MD, PhD, University of Cambridge</i>	
4:00 pm – 4:15 pm	Endosome-based Activation of Non-canonical NF- κ B Signaling by Membrane Attack Complexes – <i>Dan Jane-Wit, MD, PhD, Yale University</i>	
4:15 pm – 4:30 pm	PD-L1 Mediated Regulation of NKT Cells by Colonic CD90+ Myofibroblasts/Fibroblasts in Crohn's Disease – <i>Abinav Singh, PhD, University of Texas</i>	
4:30 pm – 4:45 pm	Characterization of Hematopoietically-derived CNS Macrophages Following Bone Marrow Transplantation – <i>Josef Kurtz, PhD, Harvard Medical School</i>	
4:45 pm – 5:00 pm	The IFIH1 A946T Autoimmune Risk Variant Exhibits Enhanced Signaling and Promotes T1D Pathogenesis – <i>Jacquelyn Gorman, PhD, Seattle Children's Research Institute</i>	
5:00 pm – 5:15 pm	Identification of Plasma Protein Biomarkers of Acute Renal Allograft Rejection – <i>Maura Rossetti, PhD, University of California, Los Angeles</i>	
3:15 pm – 5:15 pm	Oral Abstract Session: Regulation of Immune Function: A Passport to Health and Disease – Chair: <i>Ciriaco Piccirillo, PhD, McGill University</i>	Harborview 2
3:15 pm – 3:30 pm	FOXP3 Controls Human Thymocytes Maturation and Peripheral T Cell Homeostasis – <i>Francesca Santoni de Sio, PhD, San Raffaele Telethon Institute</i>	
3:30 pm – 3:45 pm	Engineering Human T Cell Circuitry – <i>Alex Marson, MD, PhD, University of California, San Francisco</i>	
3:45 pm – 4:00 pm	CCAAT-Enhancer-Binding Protein B Controls the Pathogenesis of EAE through Regulation of IL-23R Expression – <i>Michelle Simpson-Abelson, PhD, University of Pittsburgh</i>	

Friday, June 24th (cont.)

4:00 pm – 4:15 pm	S1P Kinases Axis Promotes Th17 Polarization in Human Lymphocytes – <i>Raffaele De Palma, MD, PhD, Second University of Naples</i>	
4:15 pm – 4:30 pm	Clinical and Structural Impact of Mutations Affecting the Residue Phe367 of FOXP3 in Patients with IPEX Syndrome – <i>Ricardo Pujol Borrell, MD, PhD, Universitat Autònoma de Barcelona</i>	
4:30 pm – 4:45 pm	Exosome Mediated T Helper Cell Polarization in Asthma Patho-progression – <i>Kenneth Hough, BSc, University of Alabama, Birmingham</i>	
4:45 pm – 5:00 pm	Cbl-b Deficiency Renders T Cells Resistant to PD-L1/PD-1 Mediated Suppression – <i>Mai Fujiwara, BS, University of Connecticut</i>	
5:00 pm – 5:15 pm	Non-human Primate Model for CMV Viremia: Immunologic Impact and Treatment Approaches – <i>Paula Alonso-Guallart, DVM, Columbia University</i>	
3:15 pm – 5:15 pm	Oral Abstract Session: Destination Tolerance Restoration in Autoimmunity and Transplant – Chair: <i>Brian Kotzin, MD, Amgen, Inc.</i>	Harborview 3
3:15 pm – 3:30 pm	Alefacept Augments PD-1+ CD4 Memory T Cells of Recent-onset T1D Subjects in an FcR-Dependent Manner – <i>S. Alice Long, PhD, Benaroya Research Institute</i>	
3:30 pm – 3:45 pm	Inhibition of the Potassium Channel Kv1.3 by Dalazatide, a Potential Immunotherapy Strategy for Systemic Lupus Erythematosus – <i>Peter Probst, PhD, Kineta Inc.</i>	
3:45 pm – 4:00 pm	Development of a MALT1 Inhibitor for the Treatment of Autoimmune Disease – <i>Celine Dumont, PhD, AstraZeneca</i>	
4:00 pm – 4:15 pm	Dietary Fatty Acids in Multiple Sclerosis: Therapeutic Potential of Propionic Acid – <i>Stefanie Joerg, MSc, Friedrich-Alexander-University</i>	
4:15 pm – 4:30 pm	Correction of Treg Activation Defect in Type 1 Diabetic Humans with in vitro TNFR2 Agonism – <i>Denise Faustman, MD, PhD, Massachusetts General Hospital</i>	
4:30 pm – 4:45 pm	IL-10 Producing B Cells as Preferential Targets of Atacicept (TACI-Fc): a Potential Explanation for Disease Exacerbation in MS – <i>Rui Li, MD, PhD, McGill University</i>	
4:45 pm – 5:00 pm	Gut Intraepithelial Autoreactive CD4+T Cells Influenced by Environment Suppress Central Nervous System Autoimmunity via LAG-3 – <i>Atsushi Kadowaki, MD, National Institute of Neuroscience</i>	
5:00 pm – 5:15 pm	Control of Graft-versus-host Disease by Regulatory T Cells Depends on TNF Produced by Effector T Cells and TNFR2 Expressed by Regulatory T Cells – <i>José Cohen, PhD, Hôpital Henri Mondor</i>	
3:15 pm – 5:15 pm	Principles of Flow Cytometry for Immune Monitoring Course	Cityview 1
3:15 pm – 3:55 pm	CLIA in the Flow Cytometry Lab – <i>Patrick Sluss, PhD, Massachusetts General Hospital</i>	
3:55 pm – 4:35 pm	ISO: Impact on Clinical Laboratories – <i>Jeannine T. Holden, MD, MBA, Beckman Coulter, Inc.</i>	
4:35 pm – 5:15 pm	GLP: Good Laboratory Practice in Clinical Settings – <i>Enrique Rabellino, MD, Beckman Coulter, Inc.</i>	
5:30 pm – 5:40 pm	Keynote Session	Commonwealth A
5:40 pm – 6:25 pm	State of FOCIS – <i>Frank Nestle, MD, King's College London</i> Keynote Address – Chair: <i>Kevan Herold, MD, Yale University</i> Metabolic Regulation of T Cell Function and Fate – <i>Erika Pearce, PhD, Max Planck Institute</i>	
6:25 pm – 7:30 pm	Exhibits and Poster Session (authors present)	Commonwealth B

Saturday, June 25th

8:00 am – 9:30 am	Next-Gen Genetics – Chair: <i>William Robinson, MD, PhD, Stanford University</i>	Commonwealth A
8:00 am – 8:30 am	Beyond GWAS: Dissecting the Molecular Pathways that Lead to MS – <i>Phil de Jager, MD, PhD, Brigham & Women's Hospital</i>	
8:30 am – 9:00 am	Fine-mapping Autoimmune Disease Loci to Casual Variants – <i>Soumya Raychaudhuri, MD, PhD, The Broad Institute</i>	
9:00 am – 9:30 am	Identification of Rare Gene Variants Contributing to Human SLE – <i>Carola Vinuesa, MBBS, PhD, Australian National University</i>	
9:30 am – 10:00 am	Networking Break	Commonwealth B

Saturday, June 25th (cont.)

10:00 am – 11:30 pm	Systems Biology and Computational Immunology – Chair: Andy Chan, MD, PhD, Genentech	Commonwealth A
10:00 am – 10:30 am	Systems Approaches to Understanding T1D Progression and Improving Response to Therapy – Peter Linsley, PhD, Benaroya Research Institute	
10:30 am – 11:00 am	Translating a Trillion Points of Data into Therapies, Diagnostics and New Insights into Immunological Disease – Atul Butte, MD, PhD, University of California, San Francisco	
11:00 am – 11:30 am	Approaches to Uncover Molecular Basis of Immune-mediated Disease – Chris Cotsapas, PhD, Yale University	
11:30 am – 1:00 pm	Free Time for Lunch	
1:00 pm – 2:45 pm	Neo-antigens – Chair: Ignacio Anegón, MD, Nantes University	Harborview 1
1:00 pm – 1:25 pm	Neo-antigens Formed by Peptide Fusion in Type 1 Diabetes – John Kappler, PhD, National Jewish Medical Research Center	
1:25 pm – 1:40 pm	Abstract Presentation: Circulating T Cells Specific for an Intestinal Bacterial Antigen Peptide Show a Distinctive Phenotype and Potentially Proinflammatory Gene Expression Pattern in Crohn's Disease – James Lord, MD, PhD, Benaroya Research Institute	
1:40 pm – 2:05 pm	Computational Challenges in Cancer Immunotherapy – Jeff Hammerbacher, Mount Sinai Hospital	
2:05 pm – 2:20 pm	Abstract Presentation: Lack of Central Tolerance Facilitates the Emergence of High Avidity Antigen-experienced ZnT8-reactive CD8+ T Cells in Type 1 Diabetic Patients – Slobodan Culina, PhD, INSERM U1016	
2:20 pm – 2:45 pm	Protein Modifications that Alter the Course of Human Autoimmune Disease – Mark Mamula, PhD, Yale University	
1:00 pm – 2:45 pm	Immune Deficiency: New Diagnostic Approaches and Immune Responses – Chair: George Tsokos, PhD, Beth Israel Deaconess Medical Center	Harborview 2
1:00 pm – 1:25 pm	Anticytokine Autoantibodies: Emerging Syndromes – Steve Holland, MD, National Institute of Allergy & Infectious Diseases	
1:25 pm – 1:40 pm	Abstract Presentation: Clinical Laboratory Standard Capillary Protein Electrophoresis Alerted of a Low C3 State and Lead to the Identification of a Factor I Deficiency Due to a Novel Homozygous Mutation – Ricardo Pujol Borrell, MD, PhD, Universitat Autònoma de Barcelona	
1:40 pm – 2:05 pm	Inborn Errors of IL-17 Mediated Immunity in Humans – Anne Puel, PhD, INSERM	
2:05 pm – 2:20 pm	Abstract Presentation: Rapamycin Empowers the Suppressive Activity of FOXP3-Mutated T Regulatory Cells in Atypical Immune Dysregulation Polyendocrinopathy Enteropathy X-Linked (IPEX) Syndrome – Laura Passerini, PhD, San Raffaele Telethon Institute	
2:20 pm – 2:45 pm	Immune Deficiency Diseases Due to T Regulatory Cell Dysfunction – Maria Grazia Roncarolo, MD, Stanford University	
1:00 pm – 2:45 pm	Vaccines – Chair: Francisco Bonilla, MD, PhD, Boston Children's Hospital	Harborview 3
1:00 pm – 1:25 pm	New Gene-based Vaccines Technologies: Will they Result in a Universal Flu or HIV Vaccine or Therapies for Cancer or Autoimmune Diseases? – Margaret Liu, MD, ProTherImmune	
1:25 pm – 1:40 pm	Abstract Presentation: Pre-adaptive Innate Transcriptional Signatures Associated with Immune Responses after Seasonal Influenza Vaccine – Inna Ovsyannikova, PhD, Mayo Clinic	
1:40 pm – 2:05 pm	Phosphopeptides Presented by MHC Molecules: A New Category of Tumor Associated Antigens with Immunotherapeutic Potential – Victor Engelhard, PhD, University of Virginia	
2:05 pm – 2:20 pm	Abstract Presentation: Determining Optimal Adjuvanticity of a Q Fever Vaccine Using a Tri-agonist Compound Library – Amanda Burkhardt, PhD, University of California, Irvine	
2:20 pm – 2:45 pm	Universal Influenza Virus Vaccines Based on Chimeric Hemagglutinins – Adolfo Garcia-Sastre, PhD, Mount Sinai Hospital	

Speaker, Organizer and Contributor Disclosure Index

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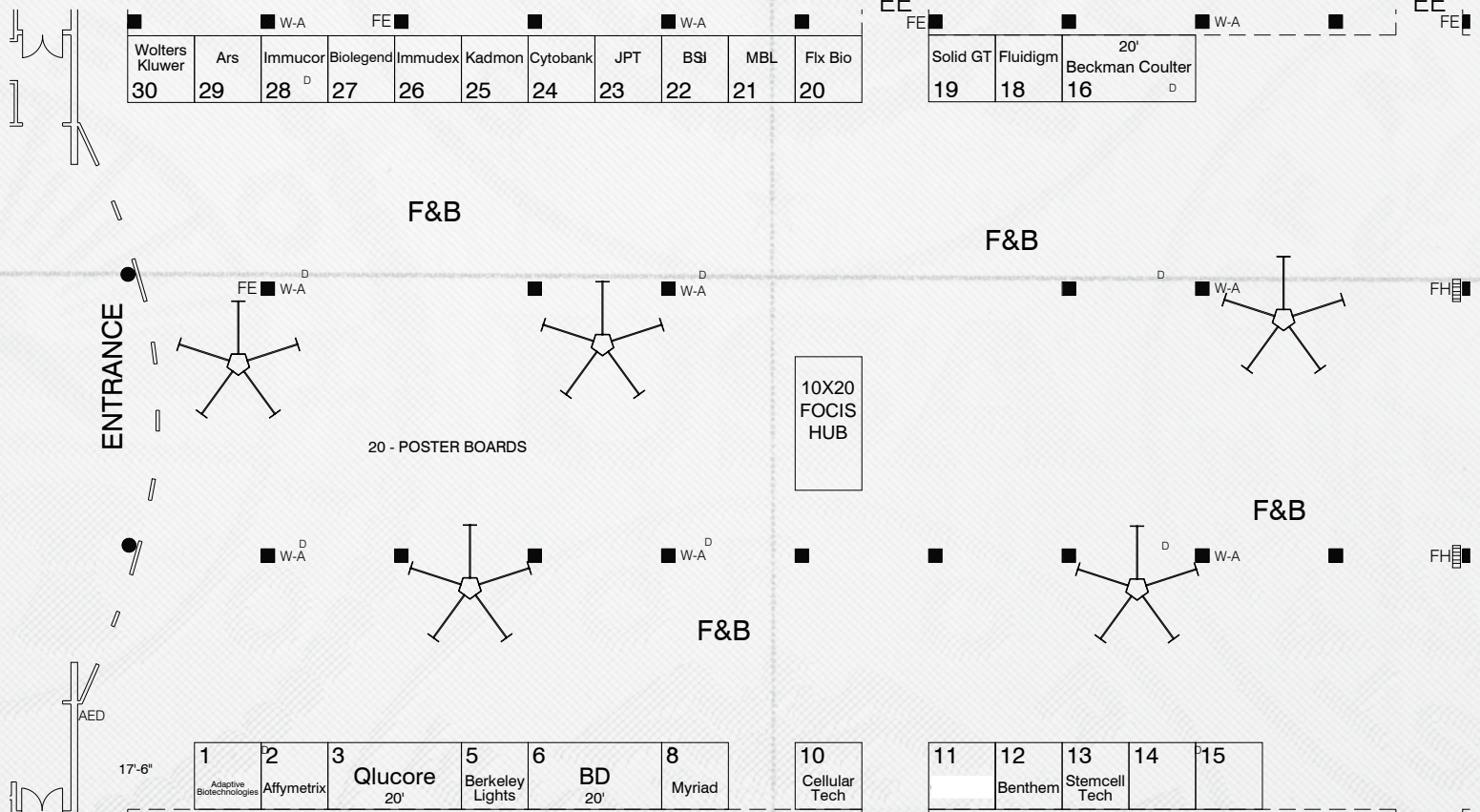


Entries *Entrées / Entradas* *Visas* *Departures* *Sorties / Salidas*

Exhibitor Listing and Floor Plans

Organization	Booth	Organization	Booth
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BD	6	JPT Peptide Technologies	23
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Cellular Tech Limited – Immunospot	10	Solid GT	19
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SEAPORT WORLD TRADE CENTER - HARBOR LEVEL - BOSTON, MASSACHUSETTS



The floor plan illustrates the layout of the HarborView Ballroom and its immediate surroundings. The HarborView Ballroom is located on the right side, divided into three sections (1, 2, and 3). To its left is the Cityview Ballroom, also divided into two sections (1 and 2), and the Skyline area. The central part of the plan features the Atrium Lobby, Café, and Elevators. The Harborview Foyer and Cityview Foyer are located near their respective ballrooms. The plan also shows the Entrance to the Seaport Hotel and the Dartmouth area. Key features include the Atrium Lobby, Café, Elevators, Coat Check, and various foyers (Cityview, Harborview, Harborview Foyer). The plan also indicates the location of the Entrance to the Seaport Hotel and the Dartmouth area.

10TH FLOOR

WATER ROOM
WALL HOOKS

RESTROOMS
1A
1B
1C

MEZZ LEVEL

SALON A

SALON B

COMMUNICATIONS COMPLEX

SALON C

SALON D

SALON E

RESTROOMS
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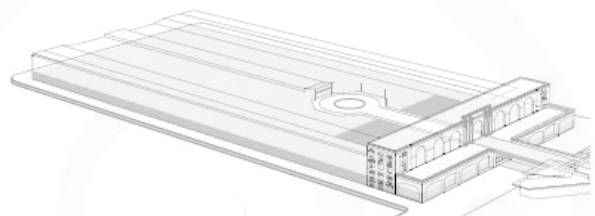
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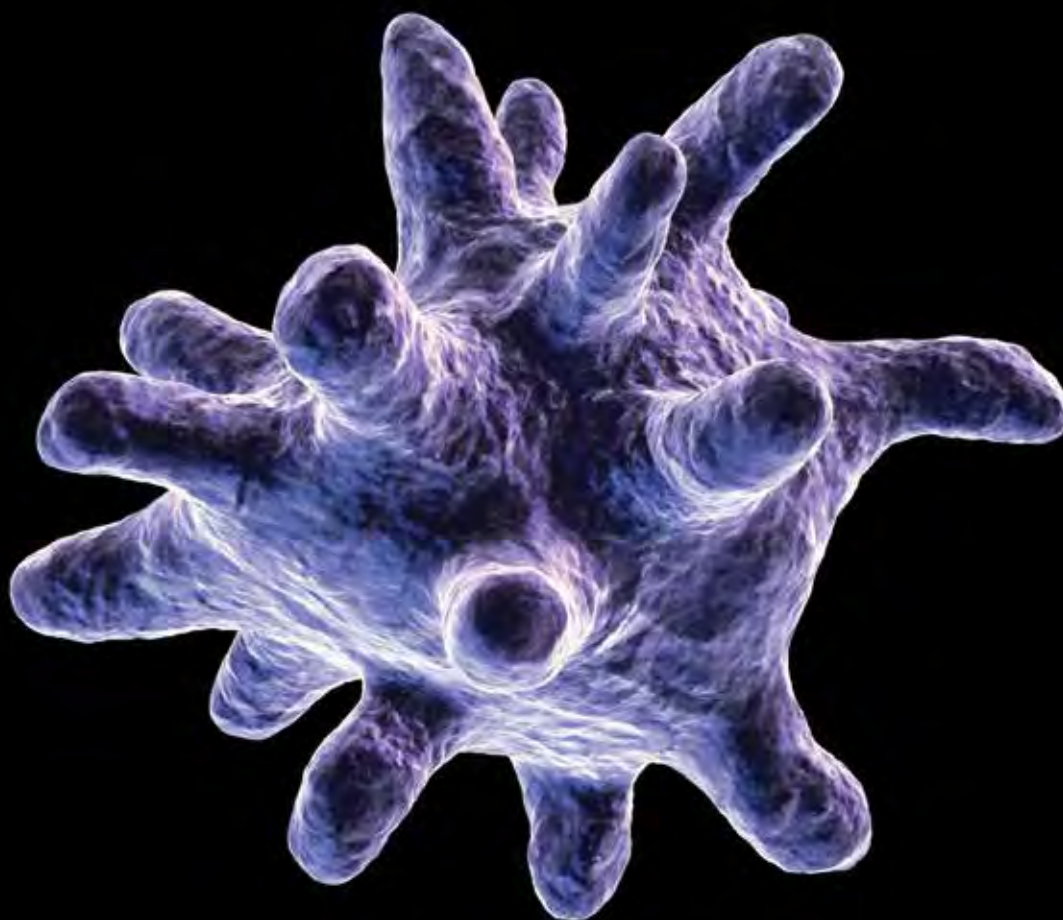


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