

UNIVERSITY *of* PENNSYLVANIA



32nd Annual
Immunology
Graduate Group Retreat

November 6 – 8, 2019 | Lancaster, PA

11:00 AM – 12:30 PM	Registration and Lunch	<i>Heritage Ballroom</i>
12:30 – 12:40 PM	Welcome <u>Bruce Freedman, VMD, PhD</u> Associate Professor, Department of Pathobiology <u>Michael May, PhD</u> Associate Professor, Department of Biomedical Sciences <u>Montserrat Anguera, PhD</u> Assistant Professor, Department of Biomedical Sciences	<i>Heritage Salon C</i>
12:40 – 2:00 PM	Session I Immunity to Pathogens I S1A. CHAIR: <u>Joseph Clark</u> (Mentor: Christopher Hunter, PhD) “IL-33 promotes innate resistance to <i>Toxoplasma gondii</i> ” S1B. <u>Mohamed Abdel Hakeem</u> (Mentor: E. John Wherry, PhD) “Epigenetic scarring hinders transcriptional recovery of exhausted T cells upon eliminating chronic antigenic stimulation” S1C. <u>Claudia Arevalo</u> (Mentor: Scott Hensley, PhD) “Original antigenic sin priming of influenza virus hemagglutinin stalk antibodies” S1D. <u>Bonnie Douglas</u> (Mentor: De’Broski Herbert, PhD) “Transgenic 2W1S-expressing helminth induces unique suppressive CD4+ T cell responses”	<i>Heritage Salon C</i>
2:00 – 2:15 PM	Break	<i>Heritage Lobby</i>
2:15 – 3:35 PM	Session II Immune Mechanisms and Disease I S2A. <u>Megan Frederick</u> (Mentor: Kenneth Zaret, PhD) “Assessing the basis of chromatin opening by hematopoietic pioneer factors” S2B. <u>Andrew Hart</u> (Mentor: Terri Laufer, MD) “Epigenetic Dysregulation of Tfh Cells in Lupus” S2C. <u>Annie Toulmin</u> (Mentor: Laurence Eisenlohr, VMD, PhD) “The regulation and function of MHC class II on type II alveolar cells” S2D. CHAIR: <u>Jacob Paiano</u> (Mentor: Andre Nussenzweig, PhD) “The regulation and processing of meiosis-specific DNA damage”	<i>Heritage Salon C</i>
3:35 – 3:50 PM	Break	<i>Heritage Lobby</i>
3:50 – 5:00 PM	Poster Pitch Blitz	<i>Heritage Salon C</i>
5:30 – 6:30 PM	Reception	<i>Excelsior</i>

Wednesday, November 6

6:30 – 7:30 PM	Keynote Donna Farber, PhD George H. Humphreys, II Professor of Surgical Sciences (in Surgery) Chief, Division of Surgical Sciences and Professor of Microbiology & Immunology, Columbia University “Human immunity: from tissues to single cells”	<i>Excelsior</i>
7:30 – 9:00 PM	Dinner	<i>Excelsior</i>
9:00 – 10:00 PM	Reception	<i>Excelsior</i>

Thursday, November 7

7:30 – 9:00 AM	Breakfast	<i>Heritage Salon AB</i>
9:00 – 10:25 AM	Session III Transplantation and Tumor Immunology S3A. <u>CHAIR: Scarlett Yang</u> (Mentor: Andrei Thomas-Tikhonenko, PhD) “Role of FBXW7 isoforms in normal and neoplastic human B cells” S3B. <u>Leolene Carrington</u> (Mentor: Ivan Maillard, MD, PhD) “DII1/4 Notch ligand expression is differentially regulated <i>in vivo</i> and <i>ex vivo</i> and can be mapped to distinct specialized subsets of fibroblastic stromal cells” S3C. <u>Zienab Etwebi</u> (Mentor: Youhai Chen, MD, PhD) “Critical roles of TIPE2 in colitis-associated colon cancer” S3D. <u>Austin Huffman</u> (Mentor: Robert Vonderheide, MD, DPhil) “CCL5 Drives CD4-Mediated Tumor Immunity Following CD40 Activation”	<i>Heritage Salon C</i>
10:25 – 10:40 AM	Break	<i>Heritage Lobby</i>
10:40 AM – 12:00 PM	Session IV Immune Mechanisms and Disease II S4A. <u>Ruth-Anne Langan Pai</u> (Mentors: Taku Kambayashi, MD, PhD and David Fajgenbaum, MD) “A type I interferon response is associated with increased mTOR activation in idiopathic Multicentric Castleman disease” S4B. <u>Emma Lewis</u> (Mentors: Michal Elovitz, MD and Paige Porrett, MD, PhD) “Regulatory T cell adoptive transfer alters macrophage populations at the maternal-fetal interface and decreases late fetal loss” S4C. CHAIR: <u>Ruth Choa</u> (Mentor: Taku Kambayashi, MD, PhD) “The role of Thymic Stromal Lymphopoietin (TSLP) in protection from obesity” S4D. <u>Nail Benallegue</u> (Mentor: Jorge Ivan Alvarez, PhD) “Central nervous system intrinsic regulation of Treg function”	<i>Heritage Salon C</i>

12:00 – 2:10 PM	Lunch and Alumni Career Panel (Trainees) <u>Will Bailis, PhD</u> Assistant Professor of Pathology and Laboratory Medicine, University of Pennsylvania <u>Michael Cho, PhD</u> Senior Consultant, Real World Insights-Oncology, IQVIA <u>Brian Jones, PhD</u> Vice President, PIPV Capital	<i>Heritage Salon DE</i>
12:00 – 2:10 PM	Lunch (IGG first-year cohort and NIH faculty)	<i>Hickory Room</i>
12:00 – 2:10 PM	Lunch (Faculty and others)	<i>Heritage Salon AB</i>
2:10 – 3:30 PM	Session V Immunity to Pathogens II S5A. CHAIR: <u>Sarah Sneed</u> (Mentor: Michael Povelones, PhD) “The steroid hormone 20-hydroxycyclosporine regulates the midgut of <i>Anopheles gambiae</i> and <i>Aedes aegypti</i> to promote bacterial expansion post-blood meal” S5B. <u>Jessica Doerner</u> (Mentor: Sunny Shin, PhD) “Dendritic cells undergo apoptosis in response to bacterial blockade of host translation to control infection” S5C. <u>Emily Moser</u> (Mentor: Paula Oliver, PhD) “The E3 Ubiquitin Ligase Itch Restricts the Magnitude of Germinal Center B Cell responses” S5D. <u>Joseph Perry</u> (Mentor: Christopher Hunter, PhD) “PD-1 antagonizes Treg homeostasis to promote primary immune responses”	<i>Heritage Salon C</i>
3:30 – 5:30 PM	Poster Session and Happy Hour	<i>Heritage Lobby</i>
5:30 – 6:30 PM	Keynote Michael Lenardo, M.D. Chief, Molecular Development of the Immune System Section, National Institute of Allergy and Infectious Diseases “Genomic approaches to solving primary immune disorders”	<i>Heritage Salon C</i>
6:30 – 8:30 PM	Dinner and Awards	<i>Heritage Salon AB</i>
9:00 PM – 12:00 AM	Reception and Karaoke	<i>Max’s Eatery</i>

Friday, November 8

7:00 – 11:00 AM

Breakfast (pick up your breakfast ticket in the Marriott lobby)

Lancaster Market

11:00 AM

Checkout

COVER IMAGE CREDIT // “Transmigrating T cell.” The image is a primary mouse T cell in the act of transmigration through an endothelial cell layer. The magenta is actin, while the cyan is the labeled T cell. The bottom part of the image is a side-view. Courtesy of Nathan Roy, Burkhardt Lab.

WILL BAILIS

Assistant Professor of Pathology and Laboratory Medicine, University of Pennsylvania

Will Bailis obtained his PhD in immunology from the Immunology Graduate Group at the Perelman School of Medicine, where he trained in the laboratory of Dr. Warren S. Pear. After completing his degree, he joined the laboratory of Dr. Richard A. Flavell for his postdoctoral training. There he developed primary immune cell CRISPR screening systems to study how metabolism controls development and function of the hematopoietic system. He now is an Assistant Professor in the Department of Pathology and Laboratory Medicine at the Children's Hospital of Philadelphia and the University of Pennsylvania. His lab is focused on understanding how metabolism is spatially partitioned in multicellular eukaryotes (i.e. among organelles in cells, between cells in tissues, and across organ systems in a host) controls cell and tissue state alongside signal transduction and gene regulation.



MICHAEL CHO

Senior Consultant, Real World Insights-Oncology, IQVIA

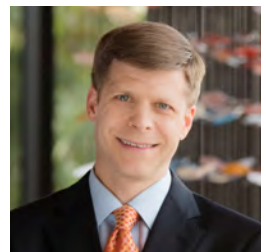
Michael Cho completed his thesis under Dr. Aimee Payne in 2016. Shortly after graduating, he joined the Boston office of C1 Consulting, a boutique consulting firm specializing in the life sciences. There, Michael worked in primary market research and commercial strategy. He continued to gain expertise in this field after C1 Consulting was acquired by Charles River Associates in January 2017. He joined IQVIA (formerly QuintilesIMS) in October 2017 as a Consultant in Real World Insights - Oncology leveraging medical and pharmacy claims data to support client business decisions. Currently, Michael is a Senior Consultant in the same group at IQVIA, managing several clients across multiple indications.



BRIAN JONES

Vice President, PIPV Capital

Brian Jones has been with PIPV Capital, a Private Equity and Venture Capital Fund which specializes in the Life Sciences, since 2004. He leads the scientific review and due diligence efforts for the firm for both developmental stage and marketed assets. He has also worked with PIPV's portfolio companies in multiple areas including corporate development, financial modeling and project management.





Wi-fi

Meeting Space

Network: Marriott_Conference
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Penn Square Garage
38 South Duke Street

Hotel Rooms

Free when you sign up for a Marriott
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Locations

Lancaster Marriott at Penn Square

25 South Queen Street
Parking: 38 South Duke Street

Excelsior (Wednesday 5:30 – 10:00 pm)

125 East King Street

Max's Eatery (Thursday 9:00 pm – 12:00 am)

38 West King Street

Lancaster Central Market (Friday breakfast)

23 North Market Street



The Immunology Graduate Group gratefully acknowledges the financial support of all the contributors to the 32nd Annual Retreat:

Institutes, Centers, Departments, and Divisions

- Institute for Immunology, University of Pennsylvania School of Medicine
- Department of Pathology and Laboratory Medicine, Children's Hospital of Philadelphia
- Department of Pathobiology, University of Pennsylvania School of Veterinary Medicine
- Department of Pathology and Laboratory Medicine, University of Pennsylvania School of Medicine
- Protective Immunity and Immunopathology Research Affinity Group, Children's Hospital of Philadelphia
- Joseph J. Stokes, Jr. Research Institute, Children's Hospital of Philadelphia
- Cell Pathology Division, Department of Pathology and Laboratory Medicine, Children's Hospital of Philadelphia
- Department of Pediatrics, Children's Hospital of Philadelphia
- Abramson Family Cancer Research Institute, University of Pennsylvania School of Medicine
- Department of Pediatrics, Children's Hospital of Philadelphia
- Department of Microbiology, University of Pennsylvania School of Medicine

Training Programs

- Immune System Development and Regulation (Michael Cancro, PhD)
- Immunobiology of Normal and Neoplastic Lymphocytes (Warren Pear, MD, PhD)
- VMD-PhD - Infectious Disease-related Research (Michael Atchison, PhD)
- Rheumatic Diseases (Peter Merkel, MD, MPH)
- MD-PhD Medical Scientist Training Program (Lawrence Brass, MD, PhD)
- Training in HIV Pathogenesis (Frederic Bushman, PhD)
- Training in Emerging Infectious Diseases (Sara Cherry, PhD)

Industry Partners

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