ASHI 2020
VIRTUAL ANNUAL MEETING
Dedicated to the global advancement of immunogenetics and transplant immunology
October 19-21, 2020
#ASHI2020 • 2020.ashi-hla.org
**Sunday, October 18, 2020 (all events listed in EST)**

10:00 am – 11:00 am  
International Networking Reception

12:00 pm – 3:00 pm  
Virtual Global Annual Meeting Welcome Reception

**Monday, October 19, 2020 (all events listed in EST)**

**Morning Networking Reception**  
9:00 am – 9:50 am

**Keynote Address**  
10:00 am – 11:00 am

Moderator: Patricia Campbell, MBChB, FRCP, University of Alberta Hospitals

*Mark M. Davis, PhD*  
Stanford Institute for Immunity, Transplantation and Infection  
Stanford, California

**Scholar Presentations**  
11:00 am – 11:30 am

Moderators: Eric Weimer, PhD, University of North Carolina at Chapel Hill and Jennifer Schiller, PhD, D(ABHI), Versiti Inc

*The Trifecta Study: calibrating circulating donor-derived cell-free DNA at the time of indication biopsies against the molecular phenotype of the biopsy*  
Philip Halloran

*Exosomes containing kidney self-antigens (collagen iv, fibronectin, perlecan) precedes development of antibodies to kidney self-antigens and chronic immune injury in kidney transplant recipients and in a murine model of renal transplantation*  
Ranjithkumar Ravichandran

**Plenary I: Evolution of HLA**  
11:35 am – 12:00 pm

*The MHC of chickens: beyond n = 1.5*  
Jim Kaufman  
Professor, University of Cambridge  
Cambridge, England

**Immune responses to pandemic viruses**  
12:00 pm – 12:25 pm

Pamela Bjorkman, PhD  
California Institute of Technology  
Pasadena, California

**Evolutionary Pressure Against the MHC Restricted Tumor Genome**  
12:25 pm – 12:50 pm

Hannah Carter, PhD  
University of California, San Diego  
San Diego, California
**Exhibit Hall Break**
1:00 pm – 2:00 pm

**User Group Meetings**
2:00 pm – 3:00 pm

**1.0 CE/.15 CECs**

**One Lambda:**

*Increasing Access to Transplantation for the Highly Sensitized Patient: Combining the Latest Innovations in HLA Typing, Antibody Detection and Data Analysis*

Taba Kheradmand, PhD, D(ABHI)
Midwest Transplant - Westwood, KS

Robert Liwski, MD, PhD, FRCPC
Dalhousie University - Nova Scotia

**Natera:**

*Cell-free DNA Transplant Management Strategies by HLA Laboratories*

**Omixon**

*Advances in HLA Typing*

**Abstract Session I: Clinical Research – Solid Organ**
3:00 pm – 4:30 pm

**1.5 CE/.225 CECs**

**Impact of including all HLA loci antibody information on CPRA and allocation points received by kidney transplant candidates**
Chelsea McGuire
Northwestern University

**Tumor suppressor gene liver kinase B1: novel role for the pathogenesis of chronic lung allograft dysfunction**
Mohammad Rahman

**Combination of machine learning with deep cytometry to explore immune status in patients awaiting transplantation**
Franz Fenninger

**Abstract Session II: Immunogenetics**
3:00 pm – 4:30 pm

**1.5 CE/.225 CECs**

**Single nucleotide polymorphism in KIR2DL1 is associated with HLA-C expression in global populations**
Danillo Augusto

**Reduced PCR-induced errors from a hybrid capture-based NGS assay for HLA typing**
Nicholas Brown

**High-resolution KIR Allelic characterization in Amerindians and Brazilian urban populations**
Danillo Augusto
Abstract Session III: Case Study Award Winners

Rescue of HLA haplotype loss-associated pediatric AML with informed selection of alternate haploidalentical donor
Paula Arnold

Identification of a novel HLA-A24 null allele and evaluation of its cell-surface expression on lymphocytes
Benjamin Peton

Workshop: All About Virtual Crossmatch

One Size Does Not Fit All
David Pinelli, PhD
Northwestern University Feinberg School of Medicine
Chicago, Illinois

Virtual Crossmatch Workshop Part II: Update on the Emory Experience
H. Cliff Sullivan, MD, D(ABHI)
Emory University School of Medicine
Atlanta, Georgia

Workshop: Allocation Disparities

How should we define equity in organ allocation?
John Gill, MD, MS, FRCPC
Providence Health Care Research Institute
Vancouver, British Columbia

Allocation Disparities
Loren Gragert, PhD
Tulane University School of Medicine
New Orleans, Louisiana

Equity and Allocation
Cathi Murphey, PhD
Southwest Immunodiagnostics
San Antonio, Texas
Workshop: *HCT: Transplanting the Sensitized Patient*  
1.5 CE/.225 CECs  
3:00 pm – 4:30 pm  
Moderators: Jennifer Schiller, PhD, D(ABHI), Versiti Inc and Gerald Morris, MD, PhD, University of California, San Diego

3:05 pm – 3:40 pm  
**Transplanting the Sensitized Patient: the Johns Hopkins experience**  
Maria Bettinotti, PhD, D(ABHI), FACMG  
Johns Hopkins University School of Medicine  
Baltimore, Maryland

3:40 pm – 4:15 pm  
**Donor-Specific Anti-HLA Antibodies (DSA) and Graft Outcome in Hematopoietic Cell Transplantation (HCT)**  
Kai Cao, MS, MD, D(ABHI)  
University of Texas MD Anderson Cancer Center  
Houston, Texas

Director and Tech Forum  
4:30 pm – 6:00 pm  
1.5 CE/.225 CECs

New Member Reception  
7:00 pm – 8:00 pm

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**Tuesday, October 20, 2020 (all events listed in EST)**

Morning Networking Reception  
9:00 am – 9:50 am

Rose Payne Award  
10:00 am – 11:00 am  
**Moderator: Patricia Campbell, MBChB, FRCP, University of Alberta Hospitals**

**Molecular Mismatch: The renaissance of HLA in kidney transplantation**  
Peter Nickerson, MD, FRCPC, FCAHS  
University of Manitoba  
Winnipeg, Manitoba

Scholar Presentations  
11:00 am – 11:30 am  
**0.5 CE/.075 CECs**  
**Moderators: Eric Weimer, PhD, University of North Carolina at Chapel Hill and Jennifer Schiller, PhD, D(ABHI), Versiti Inc**

**Reactivity analysis of recombinant human monoclonal antibodies directed against epitopes on HLA-DR**  
Cynthia Kramer  
Leiden University Medical Center  
Leiden, Netherlands

**Next generation nanopore sequencing provides robust and reliable allele and epitope level HLA typing for deceased donors in less than 6 hours**  
Karen Sherwood
Plenary II: Infectious Disease and Cancer  
11:30 am – 1:00 pm

Moderators: William Hildebrand, PhD, D(ABHI), University of Oklahoma Health Science Center and John Schmitz, PhD, University of North Carolina at Chapel Hill

11:35 am – 12:00 pm  
Co-evolution of influenza viruses and HLA  
Guus Rimmelzwaan, Msc, PhD  
University of Veterinary Medicine Hannover  
Hannover, Germany

12:00 pm – 12:25 pm  
MR1 ligands and MR1-restricted T cell responses  
Melanie Harriff, PhD  
Oregon Health and Science University  
Portland, Oregon

12:25 pm – 12:50 pm  
Role of HLA in Allergy  
Bjoern Peters, PhD  
La Jolla Institute for Immunology  
San Diego, California

Exhibit Hall Break  
1:00 pm – 2:00 pm

User Group Meetings  
2:00 pm – 3:00 pm

One Lambda:  
Assessment of the Humoral Response to SARS-CoV-2 Infection Via Novel Multiplexed Assays  
Robert A. Bray, PhD, D(ABHI)  
Emory University Hospital  
Atlanta, Georgia

Howard M. Gebel, PhD  
Emory University Hospital  
Atlanta, Georgia

E. Steve Woodle, MD  
UC Health  
Cincinnati, Ohio

Deepali Kumar, MD, FRCP(C), MSc  
University of Toronto  
Toronto, Ontario

Jonathan Maltzman, MD, PhD, FAST  
Stanford University  
Stanford, California

CareDX:  
Changing the Paradigm of HLA Typing: More HLA, More than HLA
Implication of non-HLA Antibodies in Heart Transplant Outcomes
Medhat Askar, PhD, D(ABHI)
Baylor University Medical Center
Dallas, Texas

Uncovering New Frontiers in Epitope Matching
Frans H.J. Claas, PhD
Leiden University Medical Center
Leiden, Netherlands

Seeing Beyond Limits of Epitope Mismatch with PIRCHE RAMP
Matthias Niemann
Pirche
Berlin, Germany

Abstract Session IV: Clinical Research: HCT
3:00 pm – 4:30 pm

The prevalence of Anti-HLA antibodies in the first 100 HLA haploidentical hematopoietic stem cell transplantation in pediatric patients: A single-center experience
Muhammad Ameen

Association between HLA-I and TLR4 regulates HLA-I and IPS mediated monocyte capture to endothelial cells
Yi-Ping Jin

Impact of donor-specific Anti-HLA antibodies on graft failure after unrelated donor hematopoietic cell transplantation
Alberto Lima

Abstract Session V: New Technologies
3:00 pm – 4:30 pm

Moving beyond hemagglutination: Bead-based ABO antibody pre-transplant assessment in pediatric heart transplant candidates
Anne Halpin

Transcriptomic immune signatures correlate with persistent vs. resolving outcomes in MRSA bacteremia
Rajesh Parmar

Circulating exosomes with lung self-antigens Kâ1 tubulin and collagen V as a biomarker for chronic lung allograft dysfunction
Thalachallour Mohanakumar
IDENTIFICATION OF CHIMERISM IN AN UNSENSITIZED TRANSPLANT CANDIDATE USING NGS TYPING ASSAYS
Nicholas Brown

The unprecedented high-resolution characterization of all KIR genes in a large North American cohort identifies a substantial proportion of new variants Danillo Augusto

A new strategy for systematically classifying HLA alleles into serological specificities
Kazutoyo Osoegawa

Symposium: AABB-ASHI JOINT SYMPOSIUM 2020:
ABO in the time of COVID-19
3:00 pm – 4:30 pm
Moderators: Carol Pancoska, PhD, D(ABHI) and Lesley Kresie, MD, D(ABHI), Carter BloodCare

3:05 pm – 3:40 pm
ABO incompatible Stem Cell Transplants and Pure Red Cell Aplasia
Patricia Kopko, MD
University of California, San Diego
San Diego, California

3:40 pm – 4:15 pm
Next-Gen ABO Antibody Testing: Lessons Learned from HLA
Lori West, MD, DPhil, FRSC, FCAHS, FRCPC
University of Alberta
Edmonton, Alberta

Workshop: Post-Transplant DSA Monitoring
3:00 pm – 4:30 pm
Moderators: James Lan, MD, FRCPC, D(ABHI), University of British Columbia and Carrie Butler, PhD, D(ABHI), UCLA Immunogenetics Center

3:05 pm – 3:30 pm
The HLA Laboratory experience with HLA-DSA
Kelley Hitchman, MS, PhD, D(ABHI)
University of Texas Health San Antonio
San Antonio, Texas

3:30 pm – 3:55 pm
Clinicians Perspective on DSA Surveillance
Jig Patel, MD, PhD, FACC, FRCP
Cedars-Sinai Smidt Heart Institute
Los Angeles, California

3:55 pm – 4:20 pm
Non-HLA Antibodies: clinical relevance post-transplant
Michelle Hickey, PhD, D(ABHI)
UCLA Department of Pathology and Laboratory Medicine
Los Angeles, California
Workshop: New Technologies:

HLA Sequencing Tools and Application
3:00 pm – 4:30 pm
Moderators: Abeer Madbouly, PhD, NMDP and Eric Weimer, PhD, University of North Carolina at Chapel Hill

3:05 pm – 3:30 pm  Challenges in the analysis of HLA sequencing data
James Robinson, BSc, MSc
Anthony Nolan Research Institute
London, England

3:30 pm – 3:55 pm  Selection of laboratory NGS typing platform
Jennifer Zhang, PhD, D(ABHI)
UCLA Department of Pathology and Laboratory Medicine
Los Angeles, California

3:55 pm – 4:20 pm  Chimerism analysis: the use case for NGS technology
Medhat Askar, PhD, D(ABHI)
Baylor University Medical Center
Dallas, Texas

Service Awards/International Workshop Update
4:30 pm – 5:30 pm

Distinguished Service Award
Michael D. Gautreaux, PhD, D(ABHI)
Wake Forest School of Medicine
Winston-Salem, North Carolina

Outstanding Technologist Award
Doreen Sese, CHS
Yale University School of Medicine
New Haven, Connecticut

J. Marilyn MacQueen Rising Star Award
Jonathan A.M. Lucas, MSci
Anthony Nolan Research Institute
London, England

Poster Sessions & Exhibit Hall
5:30 pm – 6:30pm

ARB Reception
6:30 pm – 7:30pm
Wednesday, October 21, 2020 (all events listed in EST)

ASHI Annual Business Meeting
9:15 am – 9:45 am

The Paul I. Terasaki Clinical Science Award & Lecture and Bernard Amos Distinguished Scientist Award & Lecture
10:00 am – 11:30 am
Moderator: Medhat Askar, PhD, D(ABHI), Baylor University Medical Center

**Paul I Terasaki Clinical Science Award**
Alexandre Loupy, MD, PhD
Université de Paris
Paris, France

**Bernard Amos Distinguished Scientist Award**
Carolyn Katovich Hurley, PhD, D(ABHI)
Georgetown University
Washington, D.C.

Plenary III: Innovative Immunogenetic Therapies in Transplantation  1.5 CE/.225 CECs
11:30 am – 1:00 pm
Moderators: Peter Nickerson, MD, FRCPC, FCAHS, University of Manitoba and Robert Bray PhD, D(ABHI), Emory University Hospital

11:35 am – 12:00 pm  Andrew Adams, MD, PhD
Emory University School of Medicine
Atlanta, Georgia

12:00 pm – 12:25 pm  **HLA as a target of T cell tolerance**
Megan Levings, PhD
University of British Columbia
Vancouver, British Columbia

12:25 pm – 12:50 pm  Qizhi Tang, PhD
University of California San Francisco Transplantation Research Lab
San Francisco, California

Exhibit Hall Break
1:00 pm – 2:00 pm

User Group Meetings
2:00 pm – 3:00 pm  1.0 CE/.15 CECs

**STEMCELL:**
Implementation of an Immunomagnetic Human Lymphocyte Isolation Procedure in an HLA Laboratory for Flow Cytometry Crossmatch Assay
Prabhakar Putheti, MS, PhD
The Rogosin Institute
New York, New York
GenDx: Virtual meeting & matching: new reality? Update on multiplexed NGS & Chimerism monitoring and new insights on Epitope matching

Performing Chimerism monitoring by NGS
Pascal van der Weele, PhD
GenDx

Multiplex amplification for fast and easy HLA typing
Sake van Wageningen PhD
GenDx

Transplantation of highly sensitized patients based on acceptable mismatches
Prof. Dr. F.H.J. (Frans) Claas
Leiden University Medical Centre

Plenary IV: Emerging Therapies in Transplantation 1.5 CE/.225 CECs
3:00 pm – 4:30 pm
Moderators: Sharon Adams, MT(ASCP), CHS(ABHI), and Anat Tambur, DMD, PhD, D(ABHI), Northwestern University

3:05 pm – 3:30 pm Desensitization—An Innovation in Evolution
Babak Orandi, MD, PhD, MSc
University of Alabama Birmingham School of Medicine
Birmingham, Alabama

3:30 pm – 3:55 pm Innovations in KPD: Getting Better All The Time
Dorry Segev, MD, PhD
Johns Hopkins University School of Medicine
Baltimore, Maryland

3:55 pm – 4:20 pm What is new in the pipeline for maintenance immunosuppression?
Stuart Knechtle, MD
Duke University School of Medicine
Durham, North Carolina

Women in Transplantation Networking 1.0 CE/.15 CECs
4:30 pm – 5:30 pm
Moderators: Elaine Reed, PhD, D(ABHI), UCLA Immunogenetics Center and Roslyn Mannon, MD, University of Nebraska Medical Center

Lara Danziger-Isakov, MD, MPH
Cincinnati Children’s Hospital Medical Center
Cincinnati, Ohio

VGAM Dance Party (with DJ Dorry Segev) 5:30 pm – 6:00 pm
ASHI 2020 Award Winners

Paul I. Terasaki Clinical Science Award

Prof. Alexandre Loupy, MD, PhD
Professor of Nephrology and Epidemiology
Transplantation Unit Necker Hospital
Université de Paris
Paris, France

Bernard Amos Distinguished Scientist Award

Carolyn Katovich Hurley, PhD, D(ABHI)
Professor Emeritus, Department of Oncology
Georgetown University

Rose Payne Award

Peter Nickerson, MD, FRCPC, FCAHS
Vice-Dean (Research) and Distinguished Professor
Rady Faculty of Health Sciences, University of Manitoba
Flynn Family Chair in Renal Transplantation
Medical Director, Transplant Manitoba
Distinguished Service Award

Michael D. Gautreaux, PhD, D(ABHI)
Professor and Director, HLA/Immunogenetics and Immunodiagnostics Laboratories
Wake Forest School of Medicine

Outstanding Technologist Award

Doreen Sese, CHS
General Supervisor, Histocompatibility & Immune Evaluation Laboratory
Yale University School of Medicine
Department of Surgery - Transplant

J. Marilyn MacQueen Rising Star Award

Jonathan A.M. Lucas, MSci
Anthony Nolan Research Institute
SAVE THE DATE!

ASHI 47th Annual Meeting
September 26 – October 1, 2021
Hyatt Regency Grand Cypress
Orlando, FL