Sunday, October 18, 2020 (all events listed in ET)

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

12:00 pm – 3:00 pm  ASHI Welcome Reception

Monday, October 19, 2020 (all events listed in ET)

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

**Tools for T-Cells and Human Immunology**
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, MD, PhD
University of Alberta

**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, PhD
Norton Thoracic Institute

Plenary I: Evolution of HLA
11:35 am – 12:00 pm
Moderators: Medhat Askar, MD, PhD, D(ABHI), Baylor University Medical Center and Rajalingam Raja, PhD, FRCP, D(ABHI), University of California, San Francisco

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

**Immune responses to pandemic viruses**
Pamela Bjorkman, PhD
California Institute of Technology
Pasadena, California

**Evolutionary Pressure Against the MHC Restricted Tumor Genome**
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

**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, FRCPCh
Dalhousie University - Nova Scotia

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

Julie Houp, CHS
University of Alabama-Birmingham

Philippe Gauthier
Natera

**Omixon**
*Advances in HLA Typing*

An OmniType Perspective
Maja Nørgaard
Aarhus University Hospital

Sugar Sprinkled Transplants: ABO in Transplantation
Anne Halpin
University of Alberta Hospital

**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, PhD
Dignity Health

Combination of machine learning with deep cytometry to explore immune status in patients awaiting transplantation
Franz Fenninger, PhD
University of British Columbia

**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**
Lucinda de Brito Vargas, BSc, MSc
Federal University of Paraná, Brazil
Reduced PCR-induced errors from a hybrid capture-based NGS assay for HLA typing
Nicholas Brown, PhD
University of Pennsylvania

High-resolution KIR Allelic characterization in Amerindians and Brazilian urban populations
Lucinda de Brito Vargas, BSc, MSc
Federal University of Paraná, Brazil

Abstract Session III: Case Study Award Winners
3:00 pm – 4:30 pm
1.5 CE/.225 CECs

Rescue of HLA haplotype loss-associated pediatric AML with informed selection of alternate haploidentical donor
Paula Arnold, PhD, D(ABHI)
St Jude's Children's Research Hospital

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

Workshop: All About Virtual Crossmatch
3:00 pm – 4:30 pm
1.5 CE/.225 CECs
Moderators: Rajalingam Raja FRCP, D(ABHI), University of California, San Francisco and Eric Weimer, PhD, University of North Carolina at Chapel Hill

3:05 pm – 3:40 pm
One Size Does Not Fit All
David Pinelli, PhD
Northwestern University Feinberg School of Medicine
Chicago, Illinois

3:40 pm – 4:15 pm
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
3:00 pm – 4:30 pm
1.5 CE/.225 CECs
Moderators: Robert Bray, PhD, D(ABHI), Emory University Hospital and Nicole Valenzuela, PhD, UCLA Immunogenetics Center

3:05 pm – 3:30 pm
Equity and Allocation
Cathi Murphey, PhD
Southwest Immunodiagnostics
San Antonio, Texas

3:30 pm – 3:55 pm
How should we define equity in organ allocation?
John Gill, MD, MS, FRCP
Providence Health Care Research Institute
Vancouver, British Columbia

3:55 pm – 4:20 pm
Allocation Disparities
Loren Gragert, PhD
Tulane University School of Medicine
New Orleans, Louisiana
**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*

3:03 pm – 3:28 pm

**Hematopoietic Cell Transplantation with alternative donors**

*Maria Bettinotti, PhD, D(ABHI), FACMG*

Johns Hopkins University School of Medicine

Baltimore, Maryland

3:30 pm – 3:55 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

3:57 pm – 4:23 pm

**Transplanting the Sensitized Patient: The Johns Hopkins experience**

*Maria Bettinotti, PhD, D(ABHI), FACMG*

Johns Hopkins University School of Medicine

Baltimore, Maryland

**Director and Tech Forum**

4:30 pm – 6:30 pm

**New Member Reception**

7:00 pm – 8:00 pm

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

**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, FRCP, FCAHS*

University of Manitoba

Winnipeg, Manitoba

**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*

**Reactivity analysis of recombinant human monoclonal antibodies directed against epitopes on HLA-DR**

*Cynthia Kramer, PhD*

Leiden University Medical Center

**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 1.5 CE/.225 CECs
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 1.0 CE/.15 CECs
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
David Sayer
CareDX

Rajalingam Raja FRCP, D(ABHI)
University of California, San Francisco
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, MD  
King Faisal Specialist Hospital and Research Centre

Association between HLA-I and TLR4 regulates HLA-I and IPS mediated monocyte capture to endothelial cells  
Yi-Ping Jin, MD  
University of California Los Angeles

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, MLT, MSc, CHS  
University of Alberta

Transcriptomic immune signatures correlate with persistent vs. resolving outcomes in MRSA bacteremia  
Rajesh Parmar, PhD  
University of California

Circulating exosomes with lung self-antigens Ká1 tubulin and collagen V as a biomarker for chronic lung allograft dysfunction  
Thalachallour Mohanakumar, PhD  
Norton Thoracic Institute
Abstract Session VI: New Applications and Characterizations 1.5 CE/.225 CECs
3:00 pm – 4:30 pm

IDENTIFICATION OF CHIMERISM IN AN UNSENSITIZED TRANSPLANT CANDIDATE USING NGS TYPING ASSAYS
Nicholas Brown, PhD
University of Pennsylvania

The unprecedented high-resolution characterization of all KIR genes in a large North American cohort identifies a substantial proportion of new variants
Leonardo Maldaner Amorim
Federal University of Parana, Brazil

A new strategy for systematically classifying HLA alleles into serological specificities
Kazutoyo Osoegawa, PhD
Stanford Blood Center

Symposium: AABB-ASHI JOINT SYMPOSIUM 2020: 1.5 CE/.225 CECs
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 1.5 CE/.225 CECs
3:00 pm – 4:30 pm
Moderators: James Lan, MD, FRCP, 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
Jignesh Patel, MD, PhD, FACC, FRCP
Cedars-Sinai Smidt Heart Institute
Los Angeles, California

3:55 pm – 4:20 pm
Non-HLA Antibody Testing
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  
**Selection of laboratory NGS typing platform**  
Jennifer Zhang, PhD, D(ABHI)  
UCLA Department of Pathology and Laboratory Medicine  
Los Angeles, California

3:30 pm – 3:55 pm  
**Challenges in the analysis of HLA sequencing data**  
James Robinson, BSc, MSc  
Anthony Nolan Research Institute  
London, England

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 ET*)

**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
  Universite 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**  1.0 CE/.15 CECs
2:00 pm – 3:00 pm

**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