Monday, October 1, 2018

Registration Open
Room: Harborside Registration Desk
11:00 am – 8:30 pm

Inspectors Training Workshop
Room: Harborside D/E
1:00 pm – 4:30 pm

Pre-Meeting Symposium: There is No ‘I’ in HLA: Skills for Leadership and Team Building
Room: Harborside A/B
Moderator: Kevin Chesterton, Johns Hopkins University, Baltimore, MD, USA

1:00 pm – 3:00 pm
Leadership and Team Building
Christopher Myers, PhD
Johns Hopkins University
Baltimore, MD, USA

3:00 pm – 3:30 pm
Coffee Break

3:30 pm – 5:00 pm
HLA Leader Discussion Panel
Walter Herczyk, BS, MT (ASCP), CHS(ABHI)
Gift of Life Michigan
Ann Arbor, MI, USA

Cathi Murphey, PhD
Southwest Immunodiagnostics, Inc.
San Antonio, TX, USA

Lori Osowski, MS, CHS(ABHI)
University of Maryland Medical Center
Baltimore, MD, USA

Kathryn Tinckam, MD, MMSc, FRCP, FAST
University Health Network, University of Toronto
Toronto, ON, CAN

First Time Attendees & New Members Reception*
Room: Waterview Ballroom
5:00 pm – 6:00 pm
*By invitation only

Opening Session: “Shark Tank” – Virtual Crossmatch: Blood in the Water
Room: Harborside Ballroom
Sharks: Robert Cole, MD, FHFS, Emory University, Atlanta, GA, USA, Sam Ho, PhD, D(ABHI), Gift of Life Michigan, Ann Arbor, MI, USA, Robert Montgomery, MD, D.Phil, FACS, NYU Langone Health, New York, NY, USA, Kathryn Tinckam, MD, MMSc, FRCP, FAST, University Health Network and University of Toronto, Toronto, ON, CAN

6:00 pm – 6:10 pm
Pro Virtual Crossmatch
Paul Warner, PhD, D(ABHI)
Bloodworks Northwest
Seattle, WA, USA

6:10 pm – 6:20 pm
Pro Physical Crossmatch
Annette Jackson, PhD, D(ABHI)
Johns Hopkins University
Baltimore, MD, USA

6:20 pm – 6:50 pm
Shark/Audience Discussion
Robert Cole, MD, FHFS
Emory University
Atlanta, GA, USA

Sam Ho, PhD, D(ABHI)
Gift of Life Michigan
Ann Arbor, MI, USA

Bonnie E. Lonze, MD, PhD
NYU Langone Health
New York, NY, USA

Kathryn Tinckam, MD, MMSc, FRCP, FAST
University Health Network and University of Toronto
Toronto, ON, CAN

6:50 pm – 7:00 pm
Final Shark Debate

Opening Reception with Exhibits Open
Room: Grand Ballroom
7:00 pm – 9:00 pm

Tuesday, October 2, 2018
Registration Open
Room: Harborside Registration Desk
7:00 am – 7:00 pm

The Distinguished Service Award, The Outstanding Technologist Award and Rising Star Award
Room: Harborside Ballroom
8:00 am – 8:30 am
Moderators: Patricia Campbell, MBChB, FRCPC, University of Alberta Hospital, Edmonton, AB, CAN and John Schmitz, PhD, D(ABHI, ABMLI), UNC at Chapel Hill, Chapel Hill, NC, USA

Distinguished Service:
John A. Gerlach, PhD, D(ABHI)
Michigan State University
East Lansing, MI, USA

Outstanding Technologist:
Anne Halpin, MSc
University of Alberta
Edmonton, AB, CAN

Rising Star Award:
Danielle Christian, BSc, MLT
Calgary Cancer Centre
Edmonton, AB, CAN

Keynote Address
Room: Harborside Ballroom
8:30 am – 9:30 am

The Evolution of Transplantation
Allan D. Kirk, MD, PhD
Duke University and Duke University Health System
Durham, NC, USA

Coffee Break, Exhibit Hall Open
Room: Grand Ballroom
9:30 am – 10:00 am

Symposium I: Novel Desensitization Strategies
Room: Harborside Ballroom
10:00 am – 10:45 am
Moderators: Myra Coppage, PhD, HCLD (ABB), University of Rochester, Rochester, NY, USA and Amy Hahn, PhD, D(ABHI), Albany Medical College, Albany, NY, USA

10:00 am – 10:45 am Streptococcal IgG Degrading Enzyme IdeS: Is it a Game Changer
Bonnie E. Lonze, MD, PhD
NYU Langone Health
New York, NY, USA

10:45 am – 11:30 am Shortening the Half-Life of IgG with Anti-Neonatal Fc Receptor Antibody
William Baldwin, MD, PhD,

Hot Topic: CRISPR Cas9
Room: Harborside Ballroom
Moderator: John Gerlach, PhD, D(ABHI), Michigan State University, East Lansing, MI, USA
11:30 am – 12:20 pm CRISPR Cas9
John Doench, PHD
Broad Institute
Cambridge, MA, USA

User Group Meetings (Ticketed Sessions)
12:30 pm – 2:20 pm

Steering the Patient Journey: Improved Outcomes Through a Spectrum of Pre- and Post-Transplant Diagnostic Solutions
Room: Harborside A/B
Sponsored by Immucor

Advancing the Pre-to-Post Transplant Continuum
Room: Harborside C
Sponsored by CareDx, Inc.

Advancements in HLA Genotyping
Room: Harborside D/E
Sponsored by One Lambda Inc., a Thermo Fisher Scientific Brand

Scholar Award Abstract Session
Room: Harborside A/B
2:30 pm – 2:52 pm
INVISIBLE ORGANS MADE BY GENETIC ENGINEERING TO TURN OFF MHC PRIOR TO ALLOGENEIC TRANSPLANTATION PREVENT A PRO-INFLAMMATORY CYTOKINE RESPONSE IN THE RECIPIENT (Abstract #OR1)
Rainer Blasczyk, MD
Hannover Medical School, Institute of Transfusion Medicine
Hannover, Germany

2:52 pm – 3:14 pm LIGATION OF HLA CLASS II MOLECULES PROMOTES ENDOTHELIAL CELL PERMEABILITY THROUGH
**ACTIVATED SRC AND ERK SIGNALS (Abstract #OR2)**
Fang Li, PhD
UCLA Immunogenetics Center
Los Angeles, CA, USA

**DEVELOPMENT OF HLA DE NOVO DONOR SPECIFIC ANTIBODY IS ASSOCIATED WITH PREFORMED NON-HLA AUTOANTIBODIES AND LUNG TRANSPLANTATION REJECTION (Abstract #OR3)**
Aiwen Zhang, PhD, D(ABHI)
Allogen Laboratories/Cleveland Clinics
Cleveland, OH, USA

**HIGH RESOLUTION HAPLOTYPE ANALYSES OF CLASSICAL HLA GENES IN FAMILIES WITH MULTIPLE SCLEROSIS (Abstract #OR4)**
Kazutoyo Osoegawa, PhD, CHT(ABHI)
Stanford Blood Center
Palo Alto, CA, USA

**DONOR SPECIFIC ANTIBODY (DSA) ASSESSMENTS USING HLA P GROUPS: THE DEVIL IS IN THE DETAILS (Abstract #OR5)**
June Jones, Annette M. Jackson, Donna P. Lucas, Maria Bettinotti.
Baltimore, MD.

**SUCCESSFUL DECEASED DONOR KIDNEY TRANSPLANTATION OF HIGHLY SENSITIZED CANDIDATES ACROSS POSITIVE CROSS MATCH AND STRONG DONOR-SPECIFIC HLA-DR ANTIBODIES WITHOUT DESENSITIZATION (Abstract #OR6)**
Raja Rajalingam, David Gae, Zoltan G. Laszik, Kelly J. Cunniffe, John Roberts. San Francisco, CA.

**A NOVEL REACTIVITY PATTERN WITH LABSCREEN™ CLASS I SINGLE ANTIGEN BEADS AND ITS PREVALENCE AMONG SLE PATIENTS (Abstract #OR8)**
Christina L. Dean, Robert A. Bray, Howard M. Gebel, Harold C. Sullivan. Atlanta, GA.

**HLA-C TARGETED CROSSMATCHES ARE SERUM-DEPENDENT, AND TRANSPLANTS WITH STRONG PRE-FORMED DONOR-SPECIFIC HLA-C ANTIBODIES BUT NEGATIVE CROSSMATCHES DO NOT EXPERIENCE ANTIBODY-MEDIATED REJECTION (Abstract #OR9)**
Kelly Cunniffe, Ahrles Cajulao, Jack Lai, Raja Rajalingam. San Francisco, CA.

**Workshop I: UNOS IT Workshop**
*Room: Harborside D/E*
Moderators: Michael Gautreaux, PhD, D(ABHI), Wake Forest School of Medicine, Winston-Salem, NC, USA and John Schmitz, PhD, D(ABHI, ABMLI), UNC at Chapel Hill, Chapel Hill, NC, USA

**UNOS IT**
Alex Tulchinsky and Dean Wilson
United Network for Organ Sharing
Richmond, VA, USA

**HLA Data Systems/mTilda**
Collin Brack, MBA, FHIMSS
HLA Data Systems/mTilda
Houston, TX, USA

**SystemLink/Histotrac**
K. Nicole Court, MSLA, CHS(ABHI)
SystemLink Inc.
Strongsville, OH, USA

**Interaction and Questions**
5:18 pm – 5:30 pm  DATA-DRIVEN MODELING OF FLOW CYTOMETRIC CROSSMATCH: ENHANCED VIRTUAL CROSSMATCHING (Abstract #OR10) Eric T. Weimer, Katherine A. Newhall. Chapel Hill, NC.


5:30 pm – 5:42 pm  CHARACTERISTICS OF TRANSPLANT CANDIDATES WITH CPRA ≥ 99.95% LIKELY TO BE ALLOCATED ORGANS FROM DECEASED DONORS. (Abstract #OR11) Ronald Parsons, Hannah Decker, Rachel Patzer, Shalini Bumb, Harold C. Sullivan, Robert A. Bray, Howard M. Gebel. Atlanta, GA.

5:06 pm – 5:18 pm  PROGRESSIVE CHRONIC TISSUE INJURY WITHOUT ACTIVE PATHOLOGICAL CHANGES IS THE HISTOLOGICAL HALMARK OF DE NOVO CLASS II DSA (Abstract #OR15) Pouneh Dokouhaki, Elly Johnson, Qingyong Xu. Saskatoon, SK, Canada.

Abstract Session II: Immunotherapy/Rejection & Post Transplant Testing
Room: Harborside C
Moderators: Robert Bray, PhD, D(ABHI), HCLD/CC(ABB), Emory University, Atlanta, GA, USA and Sam Ho, PhD, D(ABHI), Gift of Life Michigan, Ann Arbor, MI, USA

4:30 pm – 4:42 pm  MONITORING CD8+ DONOR LYMPHOCYTE CHIMERISM IS A CRITICAL INDICATOR FOR DIAGNOSING AND TREATING ACUTE GRAFT VS. HOST DISEASE FOLLOWING LIVER TRANSPLANTATION (Abstract #OR12) Aiwen Zhang, Bijan Eghtesad, Yuchu Sun, Jessica Bollinger, Christina Lindenmeyer, Raymond Jurcago, Medhat Z. Asfar, John Fung. Cleveland, OH.

5:18 pm – 5:30 pm  HLA EPITOPE-MISMATCH MORE PRECISELY PREDICTS THE DEVELOPMENT OF DE NOVO DONOR SPECIFIC ANTIBODY AND ACUTE CELLULAR REJECTION AFTER LUNG TRANSPLANT (Abstract #OR16) Aiwen Zhang, Nathan Stopczynski, Dawn Thomas, Yuchu Sun, John McMichael, Paul Kawczak, Jeffrey Allen, Marie Budev, Robert A. Bray, Howard Gebel. Cleveland, OH.

4:42 pm – 4:54 pm  IDENTIFICATION AND CHARACTERIZATION OF A PANEL OF NON-HLA ANTIBODIES IN KIDNEY ALLOGRAFT REJECTION (Abstract #OR13) Carrie L. Butler, Michelle J. Hickey, David W. Gjertson, Meghan Pearl, Maura Rossetti, J. Michael Cecka, Fadi Kandarian, Gemalene Sunga, Qiuhe Zhang, Bryan L. Ray, Elaine F. Reed. Los Angeles, CA.

5:30 pm – 5:42 pm  EPITOPE LOAD DOES NOT PREDICT DEVELOPMENT OF DE NOVO ANTIBODIES TO HLA IN PATIENTS WITH BK VIRUS NEPHROPATHY (Abstract #OR17) Darshana Dadhania, Cindy Park, Vadim J. Jucaud, Matthew Everly, Rex Friedlander, Arvind K. Menon, Prabhakar Putheti, Vijay K. Sharma, Manikkam Suthanthiran. New York, NY.
5:42 pm – 5:54 pm  COMPOSITE IMPACT OF CO-LIGATION OF HLA-I AND HLA-II ANTIBODY-MEDIATED ACTIVATION OF HUMAN AORTIC ENDOTHELIAL CELLS (Abstract #OR18)
Yi-Ping Jin, Elaine F. Reed. Los Angeles, CA.

Moderator: Michael Gautreaux, PhD, D(ABHI), Wake Forest School of Medicine, Winston-Salem, NC, USA
Changing the Dogmas in Histocompatibility and Transplantation
Thalachallour Mohanakumar, PhD, D(ABHI), HCLD/CC (ABB)
Norton Thoracic Institute Research Laboratory Phoenix, AZ, USA

Workshop II: Do It Yourself: Be The Match's Toolbox
Room: Harborside D/E
Moderators: Maria Bettinotti, PhD, D(ABHI), FACMG, Johns Hopkins University, Baltimore, MD, USA and Marcelo Fernandez-Vina, PhD, D(ABHI), Stanford University, Palo Alto, CA, USA

4:30 pm – 6:00 PM
Janelle Olson, PhD, CHTC
NMDP/Be The Match
Minneapolis, MN, USA

Yung-Tsi Bolon, PhD
Center for International Blood and Marrow Transplant Research
Minneapolis, MN, USA

Coffee Break, Exhibit Hall Open
Room: Grand Ballroom
9:30 am – 10:00 am

Symposium II: HCT as Immunotherapy: Garnering the Power of Natural Killer Cells
Room: Harborside Ballroom
Moderators: Maria Bettinotti, PhD, D(ABHI), FACMG, Johns Hopkins University, Baltimore, MD, USA and Mary Carrington, MS, PhD, Frederick National Laboratory for Cancer Research, Frederick, MD, USA

Introduction on NK – KIR-HLA
Mary Carrington, MS, PhD
Frederick National Laboratory for Cancer Research
Frederick, MD, USA

HCT Donor Selection: The Minneapolis Way
Sarah Cooley, MD, MS
University of Minnesota
Minneapolis, MN, USA

HCT Donor Selection: The New York Way
Katherine Hsu, MD, PhD
Memorial Sloan Kettering Cancer Center
New York, NY, USA

Poster Reception with Exhibits
Room: Grand Ballroom
6:00 pm – 7:45 pm

ARB Inspectors & International Reception*
Room: Waterview Ballroom
7:00 pm – 9:00 pm
*By invitation only

Wednesday, October 3, 2018

The Tulip Run: 5K Run/1 Mile Walk
Offsite: Patterson Park
6:30 am – 8:00 am

Registration Open
Room: Harborside Registration Desk
8:00 am – 6:00 pm

Scientific Award Presentation: Rose Payne Award
Room: Harborside Ballroom
8:30 am – 9:30 am

Hot Topic: The Challenges of Car-T Therapy
Room: Harborside Ballroom
Moderators: Peter Lalli, PhD, D(ABHI), Carolinas Pathology Group, Charlotte, NC, USA and Eric Weimer, PhD, UNC Chapel Hill, Chapel Hill, NC, USA

11:30 am – 12:20 pm  The Challenges of Car-T Therapy
Joseph Fraietta, PhD
University of Pennsylvania
Philadelphia, PA, USA

User Group Meetings (Ticketed Sessions)
12:30 pm – 2:20 pm

The Challenges of Car-T Therapy
Joseph Fraietta, PhD
University of Pennsylvania
Philadelphia, PA, USA
Listen and Learn over Lunch: Engage with industry experts to enrich your clinical insights  
**Room: Harborside A/B**  
Sponsored by BD Biosciences

**Improvements in Transplant Diagnostics. What’s next? A Closer Look at Chimerism Monitoring and NGS HLA Typing**  
**Room: Harborside C**  
Sponsored by GenDx

**Managing Antibody Mediated Rejection**  
**Room: Harborside D/E**  
Sponsored by One Lambda Inc., a Thermo Fisher Scientific Brand

### Abstract Session III: Genetic Polymorphism & Anthropology Disease

**Room: Harborside A/B**

**Moderators:** Eric Weimer, PhD, UNC Chapel Hill, Chapel Hill, NC, USA and Carley Shaut, PhD, D(ABHI), Oregon Health & Science University, Portland, OR, USA

**2:30 pm – 2:42 pm**  
INTEGRATE CRISPR/CAS9 FOR PRECISE PROTEIN EXPRESSION OF HLA-B*38:68Q (Abstract #OR19)  
Yuxin Yin, Elaine F. Reed, Quiheng Zhang. Los Angeles, CA.

**2:42 pm – 2:54 pm**  
INVESTIGATING THE MICRORNA PROFILE OF B CELL LINES FOR THEIR DIFFERENTIAL EFFECT ON HAPLOTYPE SPECIFIC DPB1 GENE EXPRESSION (Abstract #OR20)  

**2:54 pm – 3:06 pm**  
HLA-C DOWNREGULATION BY HIV ADAPTS TO HOST HLA GENOTYPE (Abstract #OR21)  

### Abstract Session III: Genetic Polymorphism & Anthropology Disease

**Room: Harborside C**

**2:30 pm – 2:42 pm**  
INTEGRATE CRISPR/CAS9 FOR PRECISE PROTEIN EXPRESSION OF HLA-B*38:68Q (Abstract #OR19)  
Yuxin Yin, Elaine F. Reed, Quiheng Zhang. Los Angeles, CA.

**2:42 pm – 2:54 pm**  
INVESTIGATING THE MICRORNA PROFILE OF B CELL LINES FOR THEIR DIFFERENTIAL EFFECT ON HAPLOTYPE SPECIFIC DPB1 GENE EXPRESSION (Abstract #OR20)  

**2:54 pm – 3:06 pm**  
HLA-C DOWNREGULATION BY HIV ADAPTS TO HOST HLA GENOTYPE (Abstract #OR21)  

**3:06 pm – 3:18 pm**  
HLA-G REGULATORY AND CODING REGION HAPLOTYPES IN PAPILLARY THYROID CARCINOMA (Abstract #OR22)  
Bruna C. Bertol, Guilherme Debritto, Fabício C. Dias, Jéssica N. Góes de Araújo, Nathalie L. De Figueirêdo-Feltosa, Vivian Nogueira Silbiger, Celso Teixeira Mendes-Junior, Erick C. Castelli, Léa M. Zanini Maciel, Eduardo A. Donadi. Ribeirão Preto, Brazil.

**3:18 pm – 3:30 pm**  
HLA CLASS II GENES CORRELATE WITH PROTECTIVE NEUTRALIZING ANTIBODY TITERS IN A DENGUE VACCINE EFFICACY TRIAL (Abstract #OR23)  
Aviva Geretz, Shida Shangguan, Chris Bryant, Philip Ehrenberg, Merlin Robb, Richard Jarman, Alain Bouckennooge, Nelson Michael, Danaya Chansinghakul, Rasm Thomas. Silver Spring, MD.

**3:30 pm – 3:42 pm**  
HLA ALLELE AND HAPLOTYPE FREQUENCIES CHARACTERIZED USING NEXT-GENERATION SEQUENCING METHODS IN UNRELATED WORLD-WIDE POPULATIONS: SUMMARY FROM THE 17th INTERNATIONAL HLA AND IMMUNOGENETICS WORKSHOP (Abstract #OR24)  
Lisa E. Creary, Chia-Jung Chang, Gonzalo Montero Martin, Kalyan C. Mallempati, Sridevi Gangavarapu, Kazutoyo Osoegawa, Tamara A. Jones.
Vayntrub, Marcelo A. Fernandez-Vina. Palo Alto, CA.

3:42 pm – 3:54 pm

THE HIGHLY POLYMORPHIC HLA-DRA GENE: CONSERVED AND DIVERSE REGIONS WITHIN THE HLA-DRA GENE IMPLY HAPLOTYPES OF DRA~DRB3/4/5~DRB1~DQB1 (Abstract #OR25)


3:06 pm – 3:18 pm

HIGHER PERCENT RECIPIENT CHIMERISM IN BONE MARROW THAN PERIPHERAL BLOOD IS RISK FOR RELAPSE (Abstract #OR29)


Abstract Session IV: Bone Marrow, HSCT, Chimerism
Room: Harborside C
Moderator: Maria Bettinotti, PhD, D(ABHI), FACMG, Johns Hopkins University, Baltimore, MD, USA and Marcelo Fernandez-Vina, PhD, D(ABHI), Stanford University, Palo Alto, CA, USA

2:30 pm – 2:42 pm

INVESTIGATING THE IMPACT OF PATIENT’S NON-SHARED HLA-C ALLOTYPE EXPRESSION LEVELS IN A 9/10 SINGLE HLA-C MISMATCHED HEMATOPOIETIC STEM CELL TRANSPLANTATION SETTING USING TWO DIFFERENT HLA-C EXPRESSION PROXY MODELS (Abstract #OR26)

Chrysanthi Tsamadou, Daniel Fürst, Markus Rojewski, Dietger Niederwieser, Donald Burnjes, Christine Neuchel, Martin Gramatzki, Renate Arnold, Eva Wagner, Hermann Einsele, Sixten Körper, Hubert Schrezenmeier, Joannis Mytilineos. Ulm, Germany.

2:42 pm – 2:54 pm

NOVEL NEXT GENERATION SEQUENCING BASED CHIMERISM ASSAY FOR ENGRAFTMENT MONITORING IN HEMATOPOIETIC CELL TRANSPLANTATION (Abstract #OR27)

Medhat Z. Askar, Amanda Willis, Jennifer D. Williams, Leah Pittmon, Shalini E. Pereira, Anajane G. Smith, Chulwoo Pyo, Wyatt Nelson, Daniel E. Geraghty. Dallas, TX.

2:54 pm – 3:06 pm

HAPLOIDENTICAL DONORS FOR HEMATOPOIETIC CELL
Moderator: Sharon Adams, MT(ASCP), CHS (ABHI), National Institutes of Health, Bethesda, MD, USA and Paul Warner, PhD, D(ABHI), Bloodworks Northwest, Seattle, WA, USA

2:30 pm – 4:00 pm
Panelist Discussion
Jana Osbey, CHS(ABHI)
Houston Methodist Hospital
Houston, TX, USA

David Partlow, MS, MBA, CHS, MT
The University of Texas MD Anderson Cancer Center
Houston, TX, USA

Sandra Resto-Ruiz, PhD, HCLD/CC
LifeLink Transplantation Immunology Laboratory
Tampa, FL, USA

Phillip Ruiz, MD, PhD
University of Miami
Miami, FL, USA

Workshop IV: ARB/QAS/PT Update
Room: Laurel
Moderators: Walter Herczyk, BS, MT(ASCP), CH (ABHI), Gift of Life Michigan, Ann Arbor, MI, USA and Taba Kheradmand, PhD, Midwest Transplant Network, Westwood, KS, USA

2:30 pm – 3:00 pm
Accreditation Review Board Update
Zahra Kashi, PhD
Kashi Clinical Labs
Portland, OR, USA

3:00 pm – 3:30 pm
Proficiency Testing Update
Kelley Hitchman, MS, PhD, D(ABHI)
UT Health San Antonio
San Antonio, TX, USA

3:30 pm – 4:00 pm
Quality Assurance Standards Update
Matthew Cusick, PhD, D(ABHI)
Baylor College of Medicine
Houston, TX, USA

Coffee Break with Exhibits
Room: Grand Ballroom
4:00 pm – 4:30 pm

Joint Session: Directors’ & Technologists’ Forum
Room: Harborside A/B/C
4:30 pm – 4:45 pm
Call Options – Strategies/Structure

4:45 pm – 5:00 pm
Career Options/Ladder Within Labs

5:00 pm – 5:15 pm
Discussion

Director’s Affairs Forum
Room: Harborside D/E
5:15 pm – 6:00 pm

Technologists’ Affairs Forum
Room: Harborside A/B/C
5:15 pm – 6:00 pm

Thursday, October 4, 2018

Registration Open
Room: Harborside Registration Desk
7:30 am - 5:00 pm

The Paul I. Terasaki Clinical Science Award and Distinguished Scientist Award
Room: Harborside Ballroom
8:00 am – 9:30 am
Moderators: Michael Gautreaux, PhD, D(ABHI), Wake Forest School of Medicine, Winston-Salem, NC, USA and John Schmitz, PhD, D(ABHI, ABMLI), UNC at Chapel Hill, Chapel Hill, NC, USA

Paul I. Terasaki Award: Jon A. Kobashigawa, MD
Cedars-Sinai Heart Institute

Distinguished Scientist: In the blink of an eye.
My 40 years in HLA
Howard M. Gebel, PhD, D(ABHI)
Emory University School of Medicine
Atlanta, GA, USA

Coffee Break, Exhibit Hall Open
Room: Grand Ballroom
9:30 am – 10:00 am

Symposium III: Non-Invasive Monitoring/Bio-Markers
Room: Harborside Ballroom
Moderators: Patricia Campbell, MBchB, FRCP (Edin), FRCP, University of Alberta Hospital, Edmonton, AB, CAN and John Schmitz, PhD, D(ABHI, ABMLI), UNC at Chapel Hill, Chapel Hill, NC, USA

10:00 am – 10:30 am
Overview of Non-Invasive Biomarkers of Transplant Rejection
Peter Heeger, MD
10:30 am – 11:00 am  
Cell Free DNA and Role in Monitoring Graft Function  
Hannah Valantine, MD  
National Institutes of Health  
Bethesda, MD, USA

11:00 am – 11:30 am  
Exosomes and Their Role in the Alloimmune Response and Potential for Graft Monitoring  
Adrian Morelli, MD, PhD  
University of Pittsburgh  
Pittsburgh, PA, USA

Hot Topic: Analytics and Algorithms: Web-Based Clinical Decision Support  
Room: Harborside Ballroom  
Moderator: Howard Gebel, PhD, D(ABHI), Emory University, Atlanta, GA, USA

11:30 am – 12:20 pm  
Analytics and Algorithms: Web-Based Clinical Decision Support  
Geoffrey H. Smith, MD  
Emory University School of Medicine  
Atlanta, GA, USA

User Group Meetings (Ticketed Sessions)  
12:30 pm – 2:20 pm  
Strategies and Techniques for Implementing Rapid Crossmatch Assays  
Room: Harborside A/B  
Sponsored by STEMCELL Technologies Inc

The Case for Ultra High Resolution Typing for Epitope Matching  
Room: Harborside C  
Sponsored by Omixon

Break, Exhibits Closed  
2:20 pm – 2:30 pm

Abstract Session V: New Assays  
Room: Harborside A/B  
Moderator: Gerald Morris, MD, PhD, University of California San Diego, San Diego, CA, USA and George Vlad, PhD, Columbia University, New York, NY, USA

2:30 pm – 2:42 pm  
Differential Detection of Glycosylation of HLA Donor Specific Antibodies (DSA) Using Single Antigen Microbeads (Abstract #OR32)  
Youngil Chang, Nathan Lemp, James C. Cicciarelli, David I. Min. Pomona, CA.

2:42 pm – 2:54 pm  
A Novel Method for HLA Antigen Specific B Cell Detection  
Ge Chen, Hong Liu, Dolly B. Tyan. Palo Alto, CA.

2:54 pm – 3:06 pm  
Modernizing ABO Antibody Detection: Development of a Bead-Based ABO Antibody Detection Assay (Abstract #OR34)  
Anne Halpin, Janet Zhou, Jean Pearcey, Todd L. Lowary, Christopher W. Cairo, Gour Daskhan, Bruce Motyka, Stephanie Maier, Lori J. West. Edmonton, AB, Canada.

3:06 pm – 3:18 pm  
A Novel Mixed Lymphocyte Culture Method to Evaluate Donor HLA Specific Immunity in Different HLA Type Mismatched Donors and Recipients (Abstract #OR35)  
Hong Liu, Dolly B. Tyan, Ge Chen. Palo Alto, CA.

3:18 pm – 3:30 pm  
NGS Allele-Level Typing Strategy for Nine KIR Genes (Abstract #OR36)  
Loes A. van de Pasch, Karin van Ham, Sanne Vendelbosch, Maarten T. Pennig, Erik H. Rozemuller. Utrecht, Netherlands.

3:30 pm – 3:42 pm  
A Method for Assessing Immunogenicity of HLA-Epitopes to Circumvent Potential Immuno Toxicity of Therapeutic Gene Editing (Abstract #OR37)  
Wei Wang, Michael Halagan, Hu Huang, Julia Udell, Yung-Tsi Bolon, Martin Maiers, Caleb Kennedy. Minneapolis, MN.

3:42 pm – 3:54 pm  
Novel Method Using Reverse Engineering to Define HLA Epitope
### Abstract Session VI: Solid Organ Pre/Post-Transplant Testing II

**Room:** Harborside C  
**Moderator:** Olga Timofeeva, PhD, D(ABHI), Temple University School of Medicine and Hospital, Philadelphia, PA, USA

#### 2:30 pm – 2:42 pm

**Potential Clinical Relevance of Anti-HLA-DP Antibodies Targeting the 96K and 96R Epitopes**  
(Abstract #OR39)  
Jeffrey Kiernan, Jinguo Wang.  
Toronto, ON, Canada.

#### 2:42 pm – 2:54 pm

**Integrative Analysis of HLA NGS Genotyping Data and Single Antigen Bead Assays for Mapping Serologic Epitopes**  
(Abstract #OR40)  
Chia-Jung Chang, Dolly B. Tyan.  
Palo Alto, CA.

#### 2:54 pm – 3:06 pm

**Potential Role of Non-HLA Antibodies in C4d Negative and C4d Positive Antibody Mediated Rejections [AMR] Following Living/Deceased Donor Renal Transplantation**  
(Abstract #OR41)  
Smriti Kanangat, Ina Kurbegovic-Skaljic, David Cimbaluk, Maria Oppermann, Robert DeCresce.  
New York, NY.

#### 3:06 pm – 3:18 pm

**Reactivity of Monoclonal Antibodies for the Detection of HLA Class II Surface Expression: Mixing Apples with Oranges?**  
(Abstract #OR42)  
Esme Dijke, Anne Halpin, Patricia Campbell, Luis Hidalgo.  
Edmonton, AB, Canada.

#### 3:18 pm – 3:30 pm

**Racial Inequity Among 0-AHDR Mismatched Kidney Recipients**  
(Abstract #OR43)  

---

### Workshop V: Non-HLA Histocompatibility Systems

**Room:** Laurel  
**Moderators:** Michael Gautreaux, PhD, D(ABHI), Wake Forest School of Medicine, Winston-Salem, NC, USA and David Kiger, CHT, CHS, Wake Forest Baptist Health, Winston-Salem, NC, USA

#### 2:30 pm – 3:15 pm

**APOLLO Study for APOL1**  
Darshana Dadhania, MD, MS, Ab Weill Cornell Medicine  
New York, NY, USA.

#### 3:15 pm – 4:00 pm

**Non-HLA Antibodies**  
Nicole Valenzuela, PhD, D(ABHI)  
UCLA Immunogenetics Center  
Los Angeles, CA, USA.

---

### Abstract Session VII: Case Studies

**Room:** Haborside D/E  
**Moderators:** Peter Lalli, PhD, D(ABHI), Carolinas, Pathology Group, Charlotte, NC, USA and Jerome Saltarrelli, PhD, D(ABHI), Memorial Hermann Hospital, Houston, TX, USA

#### 2:30 pm – 2:40 pm

**Donor-Derived Anti-HLA Antibodies in a Haploidentical Hematopoietic Cell Transplant Recipient**  

---

### HLA Expression Following Lymphocyte Enrichment: Tissue Source Still Matters for Deceased Donor Crossmatching

(Abstract #OR44)  
Elizabeth M. Moore, Donna P. Lucas, Karl Schillinger, Melissa Jeresano, Annette M. Jackson.  
Baltimore, MD.

---

**Potential Role of Non-HLA Antibodies in C4D Negative and C4D Positive Antibody Mediated Rejections [AMR] Following Living/Deceased Donor Renal Transplantation**  
(Abstract #OR41)  
Smriti Kanangat, Ina Kurbegovic-Skaljic, David Cimbaluk, Maria Oppermann, Robert DeCresce.  
New York, NY.
SHORTLY AFTER TRANSPLANT (Abstract #OR46)
Paula Y. Arnold, Shane Cross, Brandon Triplett. Memphis, TN.

2:40 pm – 2:50 pm
THE MYSTERY OF THE MISSING DRB1 ALLELE - SOLVED BY NGS!!! (Abstract #OR47)
Anajane G. Smith, Shalini E. Pereira, Amanda Willis, Chulwoo Pyo, Wyatt Nelson, Medhat Z. Askar, Daniel E. Geraghty. Seattle, WA.

3:00 pm – 3:10 pm
HAPLOIDENTICAL HEMATOPOIETIC CELL TRANSPLANTATION IN A HIGHLY SENSITIZED PATIENT WITH DONOR-SPECIFIC ANTIBODIES- A SUCCESS STORY (Abstract #OR48)
Po-Chien (Elaine) Chou, Ewelina Mamcarz, Sallyanne C. Fossey, Paula Y. Arnold. Memphis, TN.

2:50 pm – 3:00 pm
A PITFALL OF VIRTUAL CROSSMATCHING IN PEDIATRICS: MULTIPLE SOLID PHASE REAGENTS CAN SHOW STRONG HLA ANTIBODIES THAT ARE NOT DETECTABLE IN FLOW CYTOMETRY CROSSMATCHES (Abstract #OR49)

3:10 pm – 3:20 pm
DONOR SPECIFIC HLA ANTIBODY FORMATION FOLLOWING DISTAL TIBIAL ALLOGRAFT AND SUBSEQUENT GRAFT RESORPTION: A CASE REPORT (Abstract #OR50)
Christopher Liwski, Daryl Dillman, Michael Gross, Robert Liwski, Ivan Wong. Halifax, NS, Canada.

3:20 pm – 3:30 pm
TO TREAT OR NOT TO TREAT: LONG TERM STABLE KIDNEY ALLOGRAFT FUNCTION IN PRESENCE OF STRONG COMPLEMENT-FIXING DONOR-SPECIFIC ANTIBODY (DSA) TO HLA-DQ ALPHA CHAIN (Abstract #OR51)
Sam Ho, Nicholas Dyson, Christine Peiter, Bradford West. Ann Arbor, MI.

3:30 pm – 3:40 pm
IDES DESENSITIZATION THERAPY: BREAKING DOWN ANTIBODY BARRIERS TO TRANSPLANTATION (Abstract #OR52)

3:40 pm – 3:50 pm
POST TRANSPLANT MONITORING TO INCLUDE DONOR DERIVED CELL FREE DNA (%ddcDNA): STEPS TOWARD PERSONALIZED MEDICINE (Abstract #OR53)
Kristin L. Gay, Annette M. Jackson, Pali Shah, Sean Agbor-Enoh, Hannah A. Valantine. Baltimore, MD

Coffee Break
Room: Harborside Foyer
4:00 pm – 4:15 pm

International Workshop Updates (IHIW/STAR)
Room: Harborside A/B/C
4:15 pm – 5:00 pm

IHIW: Eric Spierings, PhD
University Medical Center Utrecht
Utrecht, Netherlands

STAR: Patricia Campbell, MBChB, FRCPC
University of Alberta Hospital
Edmonton, AB, CAN
Symposium IV: Business Meeting and Update  
**Room:** Harborside A/B/C  
**5:00 pm – 6:00 pm**

Networking Reception  
**Room:** Harborside D/E  
**9:00 pm – 11:00 pm**

**Friday, October 5, 2018**

Registration Open  
**Room:** Haborside Registration Desk  
**7:30 am – 12:00 pm**

Symposium V: AABB/ASHI Joint Session: Cradle to Grave: Knowledge to be Gained from Sequencing of a Million Human Genomes for Clinical and Forensic Laboratories  
**Room:** Harborside A/B/C  
**Moderators:** Carol Pancoska, PhD, D(ABHI), MT (ASCP), SBB, Laboratory Consultant, Verona, NJ, USA and Paul Warner, PhD, D(ABHI), Bloodworks Northwest, Seattle, WA, USA

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30 am</td>
<td>History of Paternity Testing</td>
<td>Harborside A/B/C</td>
</tr>
<tr>
<td>8:45 am</td>
<td>STR Testing</td>
<td>Harborside A/B/C</td>
</tr>
<tr>
<td>9:00 am</td>
<td>Human Identity Testing</td>
<td>Harborside A/B/C</td>
</tr>
<tr>
<td>10:30 am</td>
<td>Coffee Break</td>
<td>Harborside Foyer</td>
</tr>
<tr>
<td>11:00 am</td>
<td>Workshop: In Case You Missed It...</td>
<td>Harborside A/B/C</td>
</tr>
<tr>
<td>11:00 pm</td>
<td>How Novel Technologies Will Impact Our Laboratories</td>
<td>Harborside A/B/C</td>
</tr>
</tbody>
</table>

**Conference Venue:**  
**Room:** Harborside Foyer  
**10:30 am – 11:00 am**

**Workshop:** In Case You Missed It...  
**Room:** Harborside A/B/C  
**Moderator:** John Gerlach, PhD, D(ABHI), Michigan State University, East Lansing, MI, USA

**Conference Venue:**  
**Room:** Harborside Foyer  
**11:00 am – 11:30 pm**

**Workshop:** What Technologies Caught Our Attention at This Year’s ASHI Annual Meeting  
**11:00 am – 11:30 pm**

**Conference Venue:**  
**Room:** Harborside A/B/C  
**Moderator:** John Schmitz, PhD, D(ABHI, ABMLI)  
**UNC Chapel Hill, Chapel Hill, NC, USA**

**Conference Venue:**  
**Room:** Harborside Foyer  
**10:30 am – 11:00 am**

**Workshop:** In Case You Missed It...  
**Room:** Harborside A/B/C  
**Moderator:** John Gerlach, PhD, D(ABHI), Michigan State University, East Lansing, MI, USA

**Conference Venue:**  
**Room:** Harborside Foyer  
**11:00 am – 11:30 pm**

**Workshop:** What Technologies Caught Our Attention at This Year’s ASHI Annual Meeting  
**11:00 am – 11:30 pm**

**Conference Venue:**  
**Room:** Harborside A/B/C  
**Moderator:** John Schmitz, PhD, D(ABHI, ABMLI)  
**UNC Chapel Hill, Chapel Hill, NC, USA**