



44th

ANNUAL MEETING

October 1-5, 2018

BALTIMORE MARRIOTT
waterfront

Baltimore, MD



FINAL PROGRAM

ashi-hla.org



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, FRCPC,
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, FHFSA, 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, FRCPC, 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, FHFSA
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,
FRCPC, 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

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,
Lerner Research Institute –
Cleveland Clinic
Cleveland, OH, USA

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

Moderators: Sallyanne Fossey, PhD, D(ABHI), DCI Inc., Nashville, TN, USA and John Lunz, PhD, D(ABHI), LifeLink Foundation, Tampa, FL, USA

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

Coffee Break with Exhibits

Room: Grand Ballroom

4:00 pm – 4:30 pm

Abstract Session I: Solid Organ Pre/Post Transplant Testing I

Room: Harborside A/B

Moderators: Michelle Hickey, PhD, D(ABHI), UCLA Immunogenetics, Los Angeles, CA, USA and Howard Gebel, PhD, Emory University, Atlanta, GA, USA

3:14 pm – 3:36 pm

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

4:30 pm – 4:42 pm

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.

3:36 pm – 3:58 pm

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

4:42 pm – 4:54 pm

SUCCESSFUL DECEASED DONOR KIDNEY TRANSPLANTATION OF HIGHLY SENSITIZED CANDIDATES ACROSS POSITIVE CROSS MATCH AND STRONG DONOR-SPECIFIC HLA-DP ANTIBODIES WITHOUT DESENSITIZATION (Abstract #OR6)

Raja Rajalingam, David Gae, Zoltan G. Laszik, Kelly J. Cunniffe, John Roberts. 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

4:54 pm – 5:06 pm

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.

2:30 pm – 3:00 pm

UNOS IT

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

5:06 pm – 5:18 pm

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.

3:00 pm – 3:15 pm

HLA Data Systems/mTilda

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

3:15 pm – 3:30 pm

SystemLink/Histotrac

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

3:30 pm – 4:00 pm

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.

4:54 pm – 5:06 pm

RELEVANCE OF MICA-129 DIMORPHISM IN LIVE DONOR RENAL TRANSPLANTATION (Abstract #OR14)

Ajay K. Baranwal, Deepali K. Bhat, Wahid Boukouaci, Ryad Tamouza, Dominique Charron, Sanjay K. Agarwal, Narinder K. Mehra. New Delhi, Delhi, India.

5:30 pm – 5:42 pm

CHARACTERISTICS OF TRANSPLANT CANDIDATES WITH CPRA \geq 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

5:18 pm – 5:30 pm

HLA EPI TOPE-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.

4:30 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. Askar, John Fung. Cleveland, OH.

5:30 pm – 5:42 pm

EPI TOPE 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.

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, Qiuheng Zhang, Bryan L. Ray, Elaine F. Reed. Los Angeles, CA.

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.

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

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

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

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*

10:00 am – 10:15 am

Introduction on NK – KIR-HLA

Mary Carrington, MS, PhD
Frederick National Laboratory for
Cancer Research
Frederick, MD, USA

10:15 am – 10:45 am

HCT Donor Selection: The Minneapolis Way

Sarah Cooley, MD, MS
University of Minnesota
Minneapolis, MN, USA

10:45 am – 11:30 am

HCT Donor Selection: The New York Way

Katherine Hsu, MD, PhD
Memorial Sloan Kettering Cancer
Center
New York, NY, USA

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

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, Qiuheng 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)

Mengkai Shieh, Dimitrios S. Monos. Philadelphia, PA.

2:54 pm – 3:06 pm

HLA-C DOWNREGULATION BY HIV ADAPTS TO HOST HLA GENOTYPE (Abstract #OR21)

Richard Apps, Nathaniel Bachtel, Gisele Umvilighozo, Suzanne Pickering, Talia Mota, Hua Liang, Gregory Del Prete, Pramita Chatterjee, Guinevere Lee, Rasmi Thomas, Mark Brockman, Stuart Neil, Mary Carrington, Bosco Bwana, David Bangsberg, Jeffrey Martin, Esper Kallas, Camila Donini, Natalia Cerqueira, Una O'Doherty, Beatrice Hahn, Brad Jones, Zabrina Brumme, Douglas Nixon. Washington DC.

3:06 pm – 3:18 pm

HLA-G REGULATORY AND CODING REGION HAPLOTYPES IN PAPILLARY THYROID CARCINOMA (Abstract #OR22)

Bruna C. Bertol, Guilherme Debortoli, Fabrício C. Dias, Jéssica N. Góes de Araújo, Nathalie L. De Figueiredo-Feitosa, 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 Bouckenoghe, Nelson Michael, Danaya Chansinghakul, Rasmi 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. Mallemapati, Sridevi Gangavarapu, Kazutoyo Osoegawa, Tamara A. 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)

Benedict M. Matern, Timo I. Olieslagers, Laura de Rooij, Christien E. Voorter, Mathijs Groeneweg, Marcel G. Tilanus. Maastricht, Netherlands.

**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 ALLOTYPIC 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 Bunjes, 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, Jenifer 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 TRANSPLANTATION (HCT): CHANGING DEMOGRAPHICS AND THE ECONOMICS OF TYPING THIS POPULATION (Abstract #OR28)

Suraya A. Berger, Nancy L. Delaney Rossiter, Kevin Chesterton, Annette M. Jackson, Maria Bettinotti. Baltimore, MD.

3:06 pm – 3:18 pm

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

Lorie H. Kumer, Jennifer Tyler, Carolyn Fisher, Heather Casey, Shin Mineishi, David Claxton, Witold Rybka, Seema Naik, Muhammad Khawaja, Hong Zheng, Hiroko Shike. Hershey, PA.

3:18 pm – 3:30 pm

HLA EXPRESSION ON CD34+ STEM CELLS: IS A FLOW CYTOMETRIC CROSSMATCH A GOOD GATEKEEPER FOR MISMATCHED HEMATOPOIETIC CELL TRANSPLANTATION? (Abstract #OR30)

Maria P. Bettinotti, Donna P. Lucas, Gabriel Ghiaur, Annette M. Jackson, Douglas E. Gladstone. Baltimore, MD.

3:30 pm – 3:42 pm

CHARACTERIZATION OF THE CCR5 DELTA 32 MUTATION BY RACE IN UNRELATED DONORS LISTED ON THE NATIONAL MARROW DONOR PROGRAM'S BE THE MATCH REGISTRY (Abstract #OR31)

Miranda Bauer, Cynthia Vierra-Green, Elizabeth Beduhn, Stephen R. Spellman, Jason Dehn. Minneapolis, MN.

Workshop III: Uh Oh...What Do I Do Now? Stories of HLA: The Good, The Bad and The Ugly

Room: Harborside D/E

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 (Edmin), FRCPC, 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
Icahn School of Medicine at Mount Sinai
New York, NY, USA

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 (Abstract #OR33)**
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. Penning, Erik H. Rozemuller.
Utrecht, Netherlands.

3:30 pm – 3:42 pm

A METHOD FOR ASSESSING IMMUNOGENICITY OF HLA-EPITOPES TO CIRCUMVENT POTENTIAL IMMUNOTOXICITY 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 ANTIBODY TARGETS (Abstract #OR38)

Fumiko F. Yamamoto, Lin Wang, Chia-Jung Chang, Dolly B. Tyan.
Palo Alto, CA.



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 Cimbalk, 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-ABDR MISMATCHED KIDNEY RECIPIENTS (Abstract #OR43)

Robert A. Bray, Howard M. Gebel.
Emory University Hospital, Atlanta, GA.

3:30 pm – 3:42 pm

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.

3:42 pm – 3:54 pm

IS IT SAFE TO TRANSPLANT A KIDNEY FROM DECEASED DONORS IN THE PRESENCE OF DSAs BUT WITH A NEGATIVE FLOW CROSS MATCH? (Abstract #OR45)

Jorge Neumann, Juliana Montagner, Tiago Schiavo, Elizete Keitel, Valter Garcia. Porto Alegre, Brazil.

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: Harborside D/E

2:30 pm – 4:00 pm

Moderators: Peter Lalli, PhD, D(ABHI), Carolinas, Pathology Group, Charlotte, NC, USA and Jerome Saltarelli, 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 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.

3:30 pm – 3:40 pm

**IDES DESENSITIZATION
THERAPY: BREAKING DOWN
ANTIBODY BARRIERS TO
TRANSPLANTATION**

(Abstract #OR52)

Gail Larkin, Melissa Jeresano, Karl
Schillinger, Julie A. Houpp, Kristin
Gay, James Rager, Niraj Desai,
Annette M. Jackson. Baltimore, MD.

2:50 pm – 3:00 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.

3:40 pm – 3:50 pm

**POST TRANSPLANT
MONITORING TO INCLUDE
DONOR DERIVED CELL FREE
DNA (%ddcfDNA): STEPS
TOWARD PERSONALIZED
MEDICINE**

(Abstract #OR53)

Kristin L. Gay, Annette M. Jackson,
Pali Shah, Sean Agbor-Enoh,
Hannah A. Valantine. Baltimore,
MD

3:00 pm – 3:10 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)**

Molly Weisert, Jondavid Menteer,
Nicholas Fotiadis, William Lyle, Lee
Ann Baxter-Lowe. Los Angeles, CA.

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

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.

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

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.

Friday, October 5, 2018

Registration Open

Room: Harborside Registration Desk

7:30 am – 12:00 pm



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**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*

- 8:30 am – 8:45 am** **History of Paternity Testing**
Elizabeth Allen, MD
UC San Diego Health System
San Diego, CA, USA
- 8:45 am – 9:00 am** **STR Testing**
Gerald Morris, MD, PhD
University of California San Diego
San Diego, CA, USA
- 9:00 am – 10:30 am** **Human Identity Testing**
Rhonda Roby, PhD, MPH
Alameda County Sheriff's Office
Oakland, CA, USA

Coffee Break

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*

- 11:00 am – 11:30 pm** **What Technologies Caught Our
Attention at This Year's ASHI
Annual Meeting**
Medhat Askar, MD, PhD
Baylor University Medical Center
Houston, TX, USA
- 11:30 am – 12:00 pm** **How Novel Technologies Will
Impact Our Laboratories**
John Schmitz, PhD, D(ABHI,
ABMLI)
UNC Chapel Hill
Chapel Hill, NC, USA