



44th

ANNUAL MEETING

October 1-5, 2018

BALTIMORE MARRIOTT
waterfront

Baltimore, MD



FINAL PROGRAM

ashi-hla.org

ASHI

AMERICAN SOCIETY FOR
HISTOCOMPATIBILITY &
IMMUNOGENETICS



Baltimore, MD

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BALTIMORE MARRIOTT
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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

program



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**

3:14 pm – 3:36 pm

ACTIVATED SRC AND ERK SIGNALS (Abstract #OR2)

Fang Li, PhD
UCLA Immunogenetics Center
Los Angeles, CA, USA

3:36 pm – 3:58 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)
Allogene 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

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

2:30 pm – 3:00 pm

UNOS IT

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

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

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

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.

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.

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.

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.



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*

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.

5:18 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.

4:42 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,
Qiheng Zhang, Bryan L. Ray,
Elaine F. Reed. Los Angeles, CA.

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.



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**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*

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*

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

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

program



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

3:06 pm – 3:18 pm

Jones, Zabrina Brumme, Douglas Nixon. Washington DC.

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

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, Qiuhe 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

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.

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,
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**

3:06 pm – 3:18 pm

**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.

**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

Youngil Chang, Nathan Lemp,
James C. Cicciarelli, David I. Min.
Pomona, CA.

10:30 am – 11:00 am **Cell Free DNA and Role in
Monitoring Graft Function**
Hannah Valentine, MD
National Institutes of Health
Bethesda, MD, USA

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.

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

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.

**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

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.

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

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.

**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

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.

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)**

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.

3:30 pm – 3:42 pm

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

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.

3:42 pm – 3:54 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.

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.

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.

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.

2:30 pm – 3:15 pm

APOLLO Study for APOL1

Darshana Dadhania, MD, MS, Ab
Weill Cornell Medicine
New York, NY, USA

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.

3:15 pm – 4:00 pm

Non-HLA Antibodies

Nicole Valenzuela, PhD, D(ABHI)
UCLA Immunogenetics Center
Los Angeles, CA, USA

3:18 pm – 3:30 pm

RACIAL INEQUITY AMONG O-ABDR MISMATCHED KIDNEY RECIPIENTS (Abstract #OR43)

2:30 pm – 2:40 pm

DONOR-DERIVED ANTI-HLA ANTIBODIES IN A HAPLOIDENTICAL HEMATOPOIETIC CELL TRANSPLANT RECIPIENT**Workshop V: Non-HLA Histocompatibility Systems****Room: Laurel**

2:30 pm – 4:00 pm

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

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



2:40 pm – 2:50 pm	<p>SHORTLY AFTER TRANSPLANT (Abstract #OR46) Paula Y. Arnold, Shane Cross, Brandon Triplett. Memphis, TN.</p>	<p>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.</p>	
2:50 pm – 3:00 pm	<p>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.</p>	3:30 pm – 3:40 pm	<p>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.</p>
3:00 pm – 3:10 pm	<p>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.</p>	3:40 pm – 3:50 pm	<p>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. Valentine. Baltimore, MD</p>
3:10 pm – 3:20 pm	<p>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.</p>	<p><u>Coffee Break</u> <i>Room: Harborside Foyer</i> 4:00 pm – 4:15 pm</p>	<p><u>International Workshop Updates (IHIW/STAR)</u> <i>Room: Harborside A/B/C</i> 4:15 pm – 5:00 pm</p>
3:20 pm – 3:30 pm	<p>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.</p>	<p>IHIW: Eric Spierings, PhD University Medical Center Utrecht Utrecht, Netherlands</p> <p>STAR: Patricia Campbell, MBChB, FRCPC University of Alberta Hospital Edmonton, AB, CAN</p>	



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44th
ANNUAL MEETING

October 1-5, 2018

BALTIMORE MARRIOTT
waterfront 

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: Harborside 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

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

program