# 2016 Advanced HLA Technical Workshop

**Palm Springs, California**

## Monday February 29, 2016

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>1:00–5:00PM</td>
<td>Workshop Registration</td>
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<tr>
<td>6:00–7:00PM</td>
<td>Welcome Cocktail</td>
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## Tuesday March 1, 2016

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<tr>
<th>Time</th>
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<tr>
<td>9:00AM</td>
<td>Introduction &amp; Welcome</td>
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|              | **Ricardo Ordonez**  
|              | Sr. Director, Marketing and Customer Experience                       |
| 9:15–11:00AM | The Role of Antibodies in Stem Cell Transplantation and the Influence of HLA Outside of Transplantation  
| Moderator    | David Senitzer, PhD  
|              | City of Hope - Duarte, CA                                             |
| Speakers     | HLA Mismatched HSCT: New Opportunities and New Barriers  
|              | **Annette Jackson, PhD**  
|              | Johns Hopkins University School of Medicine - Baltimore, MD          |
|              | HLA Beyond Transplantation                                            |
|              | **Maria Bettinotti, PhD**  
|              | Johns Hopkins University School of Medicine - Baltimore, MD          |
| 11:00-11:30AM| Coffee Break                                                          |
| 11:30AM-1:30PM| Antibodies in Transplantation – An Interactive Technical Session  
|              | Dr. Paul Warner will provide a summary of the latest trends in the application of HLA antibody detection in solid organ transplantation. The focus will be on clinically relevant HLA antibodies and their integration into the overall care of the transplant patient, both pre- and post-transplant. The second half of this session will be an interactive format between our panel and the workshop participants. During the interactive portion, panelists will share experiences that focus on transplant cases which cover a variety of issues affecting laboratories as they navigate the complexities of antibody detection with the current tools available in our testing repertoires. Workshop participants are encouraged to bring their own cases for discussion by the panel and the audience.  
| Panelists    | **Paul Warner, PhD**  
|              | Bloodworks Northwest - Seattle, WA                                    |
### Wednesday March 2, 2016

**9:00-11:00AM**

**How Information Gained from NGS will Impact HLA & Transplantation**

**Moderator:**
Elaine Reed, PhD  
UCLA - Los Angeles, CA

**Speakers:**
- Investigating Genomics of Immunity and Reproduction through Analyzing Full-Length HLA and KIR Haplotypes  
  *Paul Norman, PhD*  
  Stanford University - Palo Alto, CA
- HLA Associations with Disease Susceptibility and Drug Hypersensitivity - Recent Advances  
  *Katsushi Tokunaga, MD*  
  Tokyo University - Tokyo, Japan

**11:00-11:30AM**

**Coffee Break**

**11:30AM-1:30PM**

**HLA Case Study Presentations**

**Moderators:**  
Donna Phelan, CHS  
Barnes-Jewish Hospital - St. Louis, MO  
Harriet Noreen  
Fairview Hospital - Minneapolis, MN

- Positive AHG-CDC T-Cell Crossmatch with Negative Flow Crossmatch due to Non-HLA Antibodies  
  *Kate S. Arsenault, CHS (ABHI)*  
  Bloodworks Northwest - Seattle, WA
- **DQA Specific Antibodies - A Myth or a Reality?**  
  *Ina Kurbegovic-Skaljc, MS., MB(ASCP)*  
  Rush University Medical Center – Chicago, IL
A Novel Method to Overcome the Inhibitory Effects of EDTA Sensitive Interfering Factors
Mayuri B. Muchhala
Emory University Hospital – Atlanta, GA

Anti-Angiotensin Receptor 1 Antibody Desensitization in Renal Transplant Candidates
Elizabeth Portwood, CHS
University of Cincinnati – Cincinnati, OH

Unacceptable Antigens or Unacceptable Epitopes?
Stephanie Skibby, MS CHS(ABHI)
Inland Northwest Blood Center – Spokane, WA

NGS- A Powerful Tool for HLA Novel Allele Identification and Characterization
Dawn Thomas, BS, CHT, CHS
Cleveland Clinic – Cleveland, OH

1:30-6:00PM
Free Afternoon

6:00-10:00PM
Anniversary Gala Dinner
Celebrating 30 Years of Education in HLA & Transplantation
Guest Speaker: Michael Cecka, PhD
UCLA – Los Angeles, CA

Thursday March 3, 2016

9:00-11:00AM
Improving Outcomes through Better HLA Diagnostics
Moderator: Robert Liwski, MD, PhD
Dalhousie University - Halifax, Nova Scotia-Canada

Speakers:
Using C1q Testing to Define the Phenotype of AMR
Millagros Samaniego, MD
University of Michigan – Ann Arbor, MI

Strategies to Improve Long-Term Graft Outcomes: Begin at the Beginning
Peter Nickerson, MD
Canadian Blood Services - Winnipeg, Canada

11:00-11:30AM
Coffee Break
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<tr>
<td>11:30AM-1:30PM</td>
<td><strong>HLA Typing by NGS – An Interactive Technical Session</strong></td>
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<td>Dr. Medhat Askar, will provide a comprehensive overview of Next Generation Sequencing (NGS) technology. The presentation will cover the key differences between NGS and Sanger sequencing as well as the key features of the NGS workflow (Library preparation, Template Preparation, Sequencing and Data analysis). The second half of this session will be an interactive format between the panel and workshop participants. During the interactive portion, panelists will share experiences that focus on the key features, validation and implementation in their laboratories as well as answer questions from the participants.</td>
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<td><strong>Panelists:</strong></td>
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<td>Medhat Askar, PhD</td>
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<td>Baylor University Medical Center - Dallas, TX</td>
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<td>Russell Martin</td>
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<td>Kashi Clinical Laboratories - Portland, OR</td>
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<td>Jennifer Schiller, PhD</td>
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<td>Blood Center of Wisconsin - Milwaukee, WI</td>
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<td>1:30PM</td>
<td><strong>Workshop Concludes</strong></td>
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