



ASEA

American Society for Apheresis

2018

CHICAGO

PRELIMINARY PROGRAM

**Chicago, Illinois
April 25-28, 2018**

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ASFA 2018 Annual Meeting

PRELIMINARY PROGRAM

PRECONFERENCE: Tuesday, April 24, 2018

3:00PM – 6:00PM	Meeting Registration
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PRECONFERENCE: Wednesday, April 25, 2018

7:00AM – 6:00PM	Meeting Registration	
7:00AM – 5:00PM	Preconference Workshop: Apheresis Review Session (Pre-registration with ASFA and Additional Registration Fees Required)	
	<p><i>The Apheresis Review Session will provide a basic overview of the theory and applications of apheresis medicine. Experts in the field will provide a broad overview of each of the topics and participants will have an opportunity to work with case studies. The Review Session is an appropriate preparatory course for the Qualification in Apheresis (QIA) Exam, offered by ASCP.</i></p> <p>Morning Chairs: Peggy Reid, RN & Debbie Ferrell, MSN, RN, HP(ASCP) Afternoon Chairs: Christina Gallagher, RN & Rebecca Nourse, RN, BSN</p>	
7:00AM – 7:30AM	Continental Breakfast	
7:30AM – 7:45AM	Welcome	
7:45AM – 8:15AM	Introduction to ASCP Qualification in Apheresis (QIA) Exam	Christina Anderson, RN, BSN, HP(ASCP)
8:15AM – 9:00AM	Basic Science	Nicole Aqui, MD
9:00AM – 9:45AM	Apheresis Math, Standards, Guidelines, and Regulations	Darlene Cloutier, MT, HP
9:45AM – 10:30AM	Break	
10:30AM – 11:30AM	Clinical Applications: Therapeutic Apheresis	Jeffrey L. Winters, MD
11:30 AM – 12:30PM	Clinical Applications: Donor Cellular Therapy	Jay Raval, MD
12:30 PM – 1:30PM	Lunch & Equipment Fair	
1:30PM – 2:15PM	Apheresis Instrumentation	Edwin A. Burgstaler, MT, HP(ASCP)
2:15 PM – 3:45PM	Donor/Patient Care	Lindsay Palomino, BSN, RN, HP(ASCP) & Eileen Galvin Karr, RN, BSN, HP(ASCP)
3:45PM – 4:00PM	Break	

	4:00 PM – 4:45 PM	Apheresis Program Management Essentials	Patricia Shi, MD
	4:45PM – 5:00PM	Wrap Up	Christina Gallagher, RN
7:00AM – 5:00PM	FACT Cellular Therapy Collection Workshop (<i>Pre-registration with FACT Required and Additional Registration Fees Required</i>)		
8:00AM – 3:00PM	ASFA Board of Directors Meeting (<i>by invitation only</i>)		
8:00AM – 4:30PM	Exhibit Hall Move In		
1:00PM – 3:00pm	World Apheresis Registries: What They Tell You (<i>Organized by the World Apheresis Association. Open to all delegates</i>)		
3:00PM – 5:00PM	WAA Board of Directors Meeting (<i>by invitation only</i>)		
3:00PM – 5:00PM	Journal of Clinical Apheresis Editorial Board Meeting (<i>by invitation only</i>)		
4:00PM – 6:00PM	Tour for ASFA Delegates – Northwestern & Lurie Children’s Hospital (<i>pre-registration with ASFA required</i>)		<i>Offsite</i>
4:30PM – 5:30PM	Poster Move In		
5:00PM – 6:00PM	ASFA Board of Directors and Sponsors Meeting (<i>by invitation only</i>)		
5:30PM – 6:00PM	New Member and First Time Attendee Meet and Greet		
6:00PM – 8:00PM	Exhibit Hall Open		
6:00PM – 8:00PM	Welcome Reception in Exhibit Hall <i>Please join us for a drink, hors d’oeuvres, and to network with your colleagues!</i>		
8:00PM – 10.00PM	ASFA Past Presidents' Dinner (<i>by invitation only</i>)		<i>Offsite</i>

CONFERENCE DAY 1: Thursday, April 26, 2018

7:00AM – 6:00PM	Meeting Registration	
7:00AM – 8:15AM	Continental Breakfast	
7:00AM – 8:15AM	Breakfast with the Experts I (<i>First-come, first-served – arrive early for your favorite topic!</i>) <i>Join us for roundtable discussions with experts in the field on the topics below.</i>	
	Chairs: Eileen Galvin Karr, RN, BSN, HP(ASCP) & Co-chair Christine Fernandez, RN, MSN, OCN	
	Therapeutic Apheresis during pregnancy – Special Considerations	Sergio Torloni, MD
	Off Label Leukoreduction	Darlene Oakley, BSN, RN, HP
	Mini-ECP	Volker Witt, MD
	ADAMSTS13 – To Do or Not to Do	Yara Park, MD
	3 Day Platelets	Tanya Ferber, MSN, RN
	The Role of Advance Practitioners (APPs) in Apheresis	Shiney Valiyaparambil, PA-C
	Anticoagulation Therapy and Apheresis	Oluwatoyosi Onwuemene, MD, MS
	Pediatric HPC & MNC Collections	Christina Anderson, RN, BSN, HP(ASCP)
	QIA – The Who, What, Where, Why, When, and How	Antonia Hagen-Coonradt
	Validation	Huy Phu Pham, MD, MPH
	Graduate Medical Education: Adjustment of Drug Dosing and Timing in Patients Treated with Apheresis	Rasheed Balogun, MD, FCAP, FASN, HP(ASCP)
	ASFA Leadership - How <u>YOU</u> Can Become Involved	Laura Collins, RN, YanYun Wu, MD & Joseph Schwartz, MD, MPH
8:30AM – 12:15PM	Opening Combined Symposium – Apheresis in Heart & Lung Transplantation	
	Chairs: Anand Padmanabhan, MD PhD QIA & Jeff Winters, MD	
8:30AM – 8:55AM	Opening Remarks from ASFA President & ASFA President-Elect, Chair of the Organizing Committee Welcome and Opening Address	Laura Collins, RN, Joseph Schwartz, MD, MPH, Astrid Kyle Mack, MD
8:55AM – 9:25AM	Desensitization and Treatment of Rejection in Cardiac Transplantation	Jon Kobashigawa, MD
9:25AM – 9:55AM	ECP in Cardiac Transplantation	James Kirklin, MD

	9:55AM-10:15AM	Q&A Cardiac Transplantation	
	10:15AM – 10:45AM	Break in Exhibit Hall	
	10:45AM – 11:20AM	Role of ECP in Lung Transplantation	Mark Greer, MD
	11:20AM – 11:55AM	Humoral Rejection in Lung Transplantation	John McDyer, MD
	11:55AM-12:15PM	Q&A Lung Transplantation	
10:00AM – 8:00PM	Exhibit Hall Open		
12:30PM – 1:30PM	Corporate Lunch Symposium, Supported by Terumo BCT (<i>open to all registered delegates</i>)		
12:30PM – 1:30PM	Corporate Lunch Symposium, Supported by Fresenius Kabi (<i>open to all registered delegates</i>)		
12:30PM – 1:30PM	Lunch in Exhibit Hall		
1:45PM – 2:30PM	Francis S. Morrison, MD Memorial Lecture		
	Chair: Bruce Sachais, MD, PhD We are pleased to honor Don L. Siegel, PhD, MD as this year's recipient of the Francis S. Morrison, MD Memorial Lecture award.		
2:45PM – 5:15PM --Concurrent Session	Plenary Abstract Session		
	Chairs: Christina Anderson, RN, BSN, HP(ASCP) & Jay Raval, MD		
	2:45 PM – 3:00 PM	Donor Plasma is more Effective Than 5% Albumin for the Treatment of Heparin Induced Thrombocytopenia in an in Vitro Model of TPE	Curtis Jones, BD
	3:00 PM – 3:15 PM	Nationwide Practices in Therapeutic Plasma Exchange in Hospitalized Patients: 2010-2014	Ruchika Goel, MD MPH
	3:15 PM – 3:30 PM	Report of the Neuromyelitis Optica Spectrum Disorder Registry	Tina Ipe, MD, MPH
	3:30 PM – 3:45 PM	Benchmarking Mononuclear and Lymphocyte Collection Efficiency for Novel Cellular Therapies	Anand Padmanabhan, MD PhD QIA
	4:15 PM – 4:30 PM	Platelet Recovery and Decrease in D-Dimer is Associated with Survival in Children with Thrombocytopenia Associated Multiorgan Failure (TAMOF) Receiving Therapeutic Plasma Exchange	Naile Tufan-Pekkucuksen
	4:30 PM – 4:45 PM	Lymphocyte Collection for the Manufacture of Chimeric Antigen Receptor T-Cells - a Single Center experience	Sherilyn Tuazon, MD, MS
	4:45 PM – 5:00 PM	Automated Adverse Event Data Collection in Pediatric Therapeutic Apheresis	David Friedman, MD
	5:00 PM – 5:15 PM	Study of Biochemical Changes after Plateletpheresis in Healthy Male Donors	Farzal Anwar, MD
	Education Session I: Basic Donor		
2:45PM – 3:45PM --Concurrent Session	Chairs: Margaret Hannan, BS, LPN, AT(ASCP), COA(ASQ) & Antonia Hagen-Coonradt		
	2:45PM – 3:15PM	Hot Topics in Donor Eligibility	Jerome Gottschall, MD

	3:15PM – 3:45PM	Optimizing Platelet Collections	Wanda Koetz, RN, HP(ASCP)
3:45PM – 4:15PM	Break in Exhibit Hall		
4:15PM – 5:15PM --Concurrent Session	Education Session II: Joint AABB/ASFA Session: Iron Deficiency in Apheresis Donors		
	Chairs YanYun Wu, MD & Tanya Ferber, MSN, RN		
	4:15PM – 4:35PM	Iron Deficiency in RBC Donors	Alan Mast, MD
	4:35 PM – 4:55PM	Iron Deficiency in Platelet Donors	Bryan Spencer, PhD
	4:55PM – 5:15PM	Iron Deficiency in Plasma Donors	Toby Simon, MD
5:30PM – 6:15PM	Committee Meetings <i>*New members welcome!</i>		
	Research Committee	Public Affairs Committee	
	Allied Health Committee	International Affairs Committee	
6:00PM – 8:00PM	Poster Networking Evening in Exhibit Hall <i>Please join us for a drink, hors d'oeuvres, and to visit the abstract posters.</i>		
7:30PM – 9:30PM	ECP Therapy for Patients with Graft-Versus-Host Disease (GVHD) Dinner Symposium Supported by an Educational Grant by Mallinckrodt. The content for the symposium was developed by the 2018 ASFA Annual Meeting Organizing Committee. <i>(Open to all registered delegates - arrive early as attendance will be limited to 100 participants)</i>		
7:30PM – 9:30PM	Unresolved Controversies in Red Cell Exchange Therapy (RCE) for Sickle Cell Disease (SCD) Dinner Symposium Supported by an Educational Grant by Fresenius Kabi. The content for the symposium was developed by the ASFA International Affairs Committee. <i>(Open to all registered delegates - arrive early as attendance is limited to 50 participants)</i>		
7:30PM – 9:30PM	Focus Group, Supported by Mallinckrodt Pharmaceuticals		

CONFERENCE DAY 2: Friday, April 27, 2018

6:00AM – 7:00AM	5K Fun Run <i>(Pre-registration with ASFA and Additional Registration Fees Required)</i> <i>Get your blood flowing and join your colleagues for a fun run alongside Lake Michigan and take in views of Navy Pier to the north.</i>		
7:00AM – 5:30PM	Meeting Registration		
7:00AM – 8:30AM	Continental Breakfast		
7:00AM – 8:30AM --Concurrent Session	Breakfast with the Experts II <i>(First-come, first-served – arrive early for your favorite topic!)</i> <i>Join us for roundtable discussions with experts in the field on the topics below.</i>		
	Chair: Antonia Hagen-Coonradt & Betty Doggett, AT(ASCP)		
	Red Cell Exchange: Albumin Prime vs. Red Cell Prime	Mandy Kaiser, RN	
	Pediatric Vascular Access	Kathy Grouchy, RN	

	Challenges with HPC Collections	Michael Linenberger, MD, FACP
	Therapeutic Apheresis: Does my Patient Need a Central Line?	Tomas Armendariz, BSN
	Regulations Involving Collections for Up and Coming Cellular Therapies	Alicia Garcia, RN, HP(ASCP) & Opal Preston, RN, BSN, MT, HEW, QIA
	How to Get Involved with Apheresis Research at ASFA	Edward Wong, MD
	Telemedicine and Apheresis - Background, a New Lexicon and Considerations for Accreditation	Walter Linz, MD, MBA
	ECP – New Insight into the Mechanism of Action	Richard Edelson, MD
	Lipoprotein Apheresis	Nicole Aqui, MD
	Transfusion Medicine Basics for Apheresis Practitioners	Marisa B. Marques, MD & Amy Schmidt, MD, PhD
	Apheresis in Low Resource Settings	Hans Vrieling, MD, PhD
	Apheresis Demand Challenges & Planning	Margaret Hannan, BS, LPN, AT(ASCP), CQA(ASQ)
	Graduate Medical Education: Physician Reimbursement Challenges from an Apheresis Service	Chester Andrzejewski, MD
7:00AM – 9:00AM – Concurrent Session	Qualification in Apheresis (QIA) Exam Bring your laptop and write the QIA exam with the support of your colleagues! <i>*Note: Computers are not provided; please bring your own laptop. In addition, you must have applied for and met the eligibility requirements in advance of taking the exam.</i>	
10:00AM – 4:30PM	Exhibit Hall Open	
8:45AM – 12:15PM --Concurrent Session	Scientific Symposium – Apheresis in Liver Transplantation & Liver Failure	
	Chairs: Laura Cooling, MD, MS & Monica Pagano, MD	
	8:45AM – 9:20AM	High Volume Plasma Exchange in Patients with Acute Liver Failure Fin Stolze Larsen, MD, PhD
	9:20AM – 9:55AM	Liver Support Devices in Patients with Liver Failure Constantine J. Karvellas, MD, SM FRCPC
	10:00AM – 10:15AM	QA – Liver Failure, Apheresis & Other Therapeutic Modalities
	10:15AM – 10:45AM	Break in Exhibit Hall
	10:45AM – 11:15AM	Liver Transplantation – Indications, Outcomes and Management of Antibody Mediated Rejection Johnny C. Hong, MD, FACS
	11:15AM – 11:35PM	Considering Apheresis in Liver Transplantation Quentin Eichbaum, MD, PhD, MPH, MFA, FCAP, FASCP

	11:35AM – 12:00PM	ABO Incompatible Liver Transplants - The ASFA Research Subcommittee Report	Monica Pagano, MD
	12:00PM-12:15PM	Q&A Liver Transplantation & Apheresis	
8:45AM – 10:15AM --Concurrent Session	Education Session III – Vascular Access - Tips & Tricks/Best Practices <i>Supported by an Educational Grant from Terumo BCT</i>		
	Chairs: Alicia Garcia, RN, HP(ASCP), Laura Collins, RN, BSN, & Antonia Hagen-Coonradt		
	This interactive session provides hands on instruction in a variety of apheresis venous access options. This year, we are pleased to feature experts in ultra sound guided peripheral access, standard dual lumen and newly FDA approved Implanted Venous Access devices, as well as central venous catheters.		
10:15AM – 10:45AM	Break in Exhibit Hall		
10:45AM – 12:15PM --Concurrent Session	Education Session IV: Unique considerations in Peripheral Blood Stem Cell Collections		
	Chairs: Christina Anderson, RN, BSN, HP(ASCP) & Opal Preston, RN, BSN, MT, HEW, QIA		
	10:45AM – 11:15AM	HPC Product Content – It is Not Only About the CD34	Ran Reshef, MD
	11:15AM – 11:45AM	Optimizing Collection Using Rapid Coulter Analytics Versus (Slow) Flow	Una O’Doherty, MD, PhD
	11:45AM – 12:15PM	Unique HPC Collection Issues in Patients with Hemoglobinopathies	Jennifer Collins, RN
12:30PM – 1:30PM	Alexion Corporate Lunch Symposium (<i>open to all registered delegates</i>)		
12:30PM – 1:30PM	Lunch in Exhibit Hall		
1:45PM – 2:30PM	ASFA Annual General Meeting and Sweets (<i>ASFA members only</i>) <i>Members – please join us for coffee and dessert and to learn more about ASFA’s activities, financials and leadership.</i>		
2:45PM – 4:30PM – Concurrent Session	Qualification in Apheresis (QIA) Exam Bring your laptop and write the QIA exam with the support of your colleagues! <i>*Note: Computers are not provided; please bring your own laptop. In addition, you must have applied for and met the eligibility requirements in advance of taking the exam.</i>		
2:45PM – 5:15PM --Concurrent Session	Abstract Session I: Therapeutic Apheresis		
	Chairs: Haewon C. Kim, MD & Christine Fernandez, RN, MSN, OCN		
	2:45 PM – 3:00 PM	Safety and Tolerability of Therapeutic Plasma Exchange with 5% Human Serum Albumin in Acute-on-Chronic Liver Failure (ACLF)	Jordi Bozzo
	3:00 PM – 3:15 PM	Comparison of Standard Versus Low Dose Rituximab to Treat Acute Thrombotic Thrombocytopenic Purpura and to Prevent Relapse During Remission	Manasa Reddy, MD
	3:15 PM – 3:30 PM	Bleeding Outcomes of Patients with a Pre-therapeutic Plasma Exchange Fibrinogen of Less than 100 mg/dl and Who Did Not Receive Additional Fibrinogen Supplementation	Chakri Gavva, MD
	3:30 PM – 3:45 PM	Therapeutic Plasma Exchange Taper Does Not Reduce Exacerbations in Acquired Thrombotic Thrombocytopenic Purpura Patients: A Single Center Study	Jay S. Raval, MD
	4:15 PM – 4:30 PM	Relationship Between Timing of Therapeutic Plasma Exchange Initiation and Length of Mechanical Ventilation in Intubated Myasthenia Gravis Patients	Amy Lilly, MD

	4:30 PM – 4:45 PM	Percent Hemoglobin A (HbA) Decrement Predicts Annual Emergency Room Visits or Admissions in Sickle Cell Disease Patients: A Single Institution Study	Reed Kamyszek
	4:45 PM – 5:00 PM	30-day Impact of Emergent Red Cell Exchange on Neurologic Abnormalities in Sickle Cell Disease Patients with Acute Stroke	Briana Gibson, MD
	5:00 PM – 5:15 PM	The Roles of Therapeutic Plasmapheresis (TPE) and Extracorporeal Photopheresis (ECP) for the Treatment of Liver Allograft Rejection	Beena Umar, MD
2:45PM – 5:15PM --Concurrent Session	Abstract Session II: Donor Apheresis		
	Chairs: Wanda Koetz, RN, HP(ASCP) & Jeffrey L. Winters, MD		
	2:45 PM – 3:00 PM	Comparison of Two Hematopoietic Progenitor Cell (HPC) Collection Techniques Using Different Inlet Flow Rates with the Fenwal Amicus	Edwin A. Burgstaler, MT, HP(ASCP)
	3:00 PM – 3:15 PM	Plasmic Score as a Screening Tool for Adams13 Activity Test Ordering?	Marian Rollins-Raval, MD, MPH
	3:15 PM – 3:30 PM	The Spectra Optia cMNC is Less Sensitive to High Peripheral White Blood Cell Counts Than the Cobe Spectra for Peripheral Blood Stem Cell Collection	Laura Cooling, MD, MS
	3:30 PM – 3:45 PM	Is Aspirin Helpful to Prevent Platelet Clumping During Healthy Donor MNC/HPC Collections Using the Optia cMNC Platform?	Sarah Anonuevo-Yuvienco, BSN, RN
	4:15 PM – 4:30 PM	The Spectra Optia Overestimates the Product Volume in Peripheral Blood Stem Cell Collection	Laura Cooling, MD, MS
	4:30 PM – 4:45 PM	Verification of a Needle Free Hemodialysis Connector (Tego®) for Hematopoietic Progenitor Cell (HPC) Collection and Therapeutic Plasma Exchange (TPE)	Lindsay M. Horihan, RN
	4:45 PM – 5:00 PM	Evaluation of the First FDA-Approved Vascular Access Device for Apheresis Therapy	Hollie Benson, MT (AMT)
	5:00 PM – 5:15 PM	Innovative Blood Priming Method for Spectra Optia cMNC in Pediatric Patients	Eileen J. Schwartz, BSN
2:45PM – 3:45PM --Concurrent Session	Education Session V: Advanced Therapeutics		
	Chairs: Alicia Garcia, RN, HP(ASCP) & Mandi Kaiser, RN, HP(ASCP)		
	2:45PM – 3:15PM	When Things Go Wrong	Sergio Torloni, MD
	3:15PM – 3:45PM	Top Troubleshooting	Christofer Bibal, RN & Noelle Michael, RN, BSN
3:45PM – 4:15PM	Break in Exhibit Hall		
4:15PM – 5:15PM --Concurrent Session	Education Session VI: Ethical Considerations in Apheresis		
	Chairs: Margaret Hannan, BS, LPN, AT(ASCP), CQA(ASQ) & Opal Preston, RN, BSN, MT, HEW, QIA		
	4:15PM – 4:35PM	Introduction to Ethical Considerations in Apheresis	Jan Hofmann, MD, MPH
	4:35PM – 4:55PM	Ethical Case Studies in Apheresis	Andrew Nord, PA-C
	4:55PM – 5:15PM	ASFA Choosing Wisely Campaign	Michael Linenberger, MD

4:30PM – 5:30PM	Poster Move Out	
4:45PM – 9:00PM	Exhibit Hall Move Out	
5:15PM – 6:00PM	Committee Meetings <i>*New members welcome!</i>	
	Communications & Membership Committee	Physicians Committee
	Application Committee	Education Committee
6:30PM- 8:30PM	ASFA Networking Event - Art & Apheresis Join your colleagues for a unique networking event celebrating apheresis and artistic excellence at the Art Institute of Chicago. Supported by an Educational Grant from Fresenius Kabi. <i>Open to all registered delegates. Advanced registration required.</i>	

CONFERENCE DAY 3: Saturday, April 28, 2018

7:00AM – 12:30PM	Meeting Registration	
7:00AM – 8:30AM	Continental Breakfast	
7:00AM – 8:30AM --Concurrent Session	Breakfast with the Experts III (<i>First-come, first-served – arrive early for your favorite topic!</i>) <i>Join us for roundtable discussions with experts in the field on the topics below.</i>	
	Chair: Christina Gallagher, RN & Opal Preston, RN, BSN, MT, HEW, QIA	
	Quality & Apheresis	Lindsay Palomino, BSN, RN, HP(ASCP)
	TPE for Neurological Disorders	Robert Weinstein, MD
	Immunotherapy and Collection of the Unstimulated Donor	Lee Clough, BSN, RN, HP(ASCP)
	Staff Training and Competency Assessment	Betty Doggett, AT(ASCP)
	Pediatric Apheresis	Kira Geile, RN, CPNP & Lyndsey Saunier, RN, BSN, CPN
	ECP– Challenges	Jennifer Collins, RN
	TPE for Nephrology Disorders	Amber Sanchez, MD
	Red Cell Exchange-Pediatric	Alicia Garcia, RN, HP(ASCP)
	Meet the JCA Editor	Jeffrey L Winters, MD
	Writing and Submitting Abstracts	Jay Raval, MD

	Implementation of Ultrasound Guided Peripheral Access	Anna-Marie Eller Thomsen, RN & Michaela Mayhew, RN, MSc
	Graduate Medical Education: Defining the Role and Challenges of the Apheresis Service Medical Director Both in Hospital and Mobile Services	Yvette Tanhehco, MD, PhD, MS & Patricia Shi, MD
8:45AM – 12:15PM --Concurrent Session	Closing Symposium – Apheresis in Renal Transplantation - Dedicated to Dr. Karen King	
	Chairs: Chisa Yamada, MD & Sally Campbell-Lee, MD	
	8:45AM – 9:15AM	Kidney Transplantation: State of the Art and Unmet Needs Joseph Leventhal, MD, PhD
	9:15AM – 9:45AM	Antigen Sensitization: A barrier for solid organ transplantation Milagros Samaniego, MD, PhD
	9:45AM – 10:15AM	Desensitization in a Deceased Donor Kidney Transplant Program Tim Taber, MD, PhD
	10:15AM – 10:45AM	Break in Foyer
	10:45AM – 11:15AM	Incompatible Kidney Transplant Methods and Long Term Outcome John Friedewald, MD
	11:15AM – 11:45AM	Therapeutic Plasma Exchange for Incompatible Kidney Transplantation Aaron Tobian, MD, PhD
	11:45AM – 12:15PM	Kidney Paired Donation Programs Adam Bingaman, MD
	Education Session VII: Mononuclear Cell Collection for engineered T-cells	
	Chairs: Yvette Tanhehco, MD, PhD, MS & Joseph Roig, MSc	
8:45AM – 10:15AM --Concurrent Session	8:45AM – 9:15AM	Leukopheresis for CAR T-Cell Therapy Andrew Fesnak, MD
	9:15AM – 9:45AM	Leukopheresis for Gene Therapy John Manis, MD
	9:45AM – 10:15AM	Regulatory Aspects of Immune Effector Cells Collections Victoria Lake, RAC
10:15AM – 10:45AM	Break in Foyer	
	Education Session VIII: Pediatric Apheresis – How Low Can You Go	
	Chairs: Alicia Garcia, RN, HP(ASCP) & Lindsay Palomino, BSN, RN, HP(ASCP)	
10:45AM – 12:15PM --Concurrent Session	10:45AM – 11:15AM	Collection from Donor Less <1000 gram Elizabeth Valdez, RN
	11:15AM – 11:45AM	Pediatric ECP- Minimizing Volume Monique Crenshaw, RN & Dana Diblasi, RN
	11:45AM – 12:15PM	RBC Exchange Normovolemic Hemodilution Erin Meyer, MD
12:15PM – 1:30PM	Post-Conference ASFA Board of Directors Meeting (by invitation only)	

