



INTERNATIONAL TRANSPLANTATION SCIENCE MEETING

Nov. 16-19, 2025
San Diego, CA

Sunday, November 16, 2025

1:00 PM – 3:00 PM

Pre-Workshop: The Transformative Potential of AI

Moderator: Leonardo Riella, MD, PhD

1. **A Machine-Learning Approach to Human Ex Vivo Lung Perfusion Predicts Transplantation Outcomes And Promotes Organ Utilization**
Speaker: Marcelo Cypel MD, MSc, FRCSC
2. **The Transformative Potential of AI In Solid Organ Transplantation**
Speaker: Khodor Abou-Daya, MD
3. **AI at the Cutting Edge: Real-Time Imaging to Optimize Organ Selection for Transplantation**
Speaker: George Kourounis, BSc, MBBS, MSc, MRCS

PANEL DISCUSSION

3:00 PM – 3:30 PM

Break

3:30 PM - 4:40 PM

Welcome and Keynote

Moderator: Maria Kaisar, DPhil

Machine Learning and AI for Accelerating Molecular Discovery to Clinical Translation: A Case Study with an FDA-Cleared Point-of-Care Molecular Test

Keynote Speaker: Purvesh Khatri, PhD, M.S

4:40 PM - 6:00 PM

Abstract Session 1

6:00 PM - 7:00 PM

Welcome Reception

Monday, November 17

8:00 AM – 9:20 AM

Session 1 – Understanding and Targeting Biological Age in Transplantation

Moderator: Fadi Issa, DPhil, FRCS

1. **Senolytics: Mechanisms and Therapeutic Potential**
Speaker: Darren Baker, MS, PhD
2. **Rejuvenating Organs: Reality or a Pipe Dream**
Speaker: Stefan Tullius, MD, PhD
3. **Senescent Cells as Drivers of Innate and Adaptive Immunity**
Speaker: Varvara Kirchner, MD
4. **Organ Aging Signatures in Health and Disease**

9:20 AM - 10:20 AM *Speaker: Jarod Rutledge, PhD*
Abstract Session 2

10:20 AM – 10:50 AM **Coffee Break**

10:50 AM- 12:20 PM **Session 2: The Role of Mitochondria in Transplantation**
Moderator: Maria Kaiser, DPhil

1. Cardioprotection Using Autologous Mitochondrial Transplantation

Speaker: James McCully, PhD

2. Engineering Extracellular Vesicles to Modulate Their Innate Mitochondrial Load

Speaker: Devika Manickam, PhD

3. The Power and Potential of Mitochondria Transfer

Speaker: Jonathan Brestoff, MD, PhD, MPH

4. Real-Time Monitoring of Mitochondrial Oxygenation During Machine Perfusion Using Resonance Raman Spectroscopy Predicts Organ Function

Speaker: Shannon N. Tessier, PhD

12:20 PM – 12:35 PM **Break**

12:35 PM - 1:55 PM **Lunch with Keynote: Mandy Ford**

1:55 PM – 3:25 PM **Session 3: The Role of B cells in Transplant Rejection and Tolerance**
Moderator: Jonathan Bromberg, MD, PhD

1. Transitional B Cell Cytokines Risk Stratify Early Borderline Rejection After Renal Transplantation

Speaker: Aravind Cherukuri, MBBS, PhD, MRCP

2. B Cells Play an Important Role In Clad In Lung Transplantation By Driving Formation of Tertiary Lymphoid Organs (TLOs)

*Speaker: Oliver Eickelberg,
MD, FERS, ATSF*

3. Tigit+ Human Memory B Cells in Immune Regulation

Speaker: SangKon Oh, PhD

4. Harnessing IL-10-Producing B Cells: A New Frontier in Transplantation Tolerance

Speaker: Olivia Martinez, PhD

PANEL DISCUSSION

Tuesday, November 18

8:00 AM – 9:20 AM

Session 4: Antigen Presentation: Direct, Indirect, Semi-Direct – XL Description

Moderator: Maria Kaisar, DPhil, and Natasha Rogers, MBBS, PhD, FRACP, FASN

1. Graft-Derived Extracellular Vesicles Transported Across Subcapsular Sinus Macrophages Elicit B Cell Alloimmunity After Transplantation

Speaker: Adrian E Morell, MD, PhD

2. Tap Dysfunction in Dendritic Cells Enables Noncanonical Cross-Presentation For T Cell Priming

Speaker: Julie Magarian Blander, PhD

3. The Immunopeptidome landscape in transplantation.

Speaker: Nicole Mifsud, PhD, BSc

4. Bringing alloreactivity into focus through the lens of cross-reactivity

Speaker: David Hildeman, PhD

2 Top Oral Abstract Presentations

PANEL DISCUSSION

9:20 AM-10:30 AM

Abstract Session 3

10:30 AM-11:00 AM

Coffee Break

11:00 AM-12:20 PM

Session 5: Xenotransplantation

Moderator: Leonardo Riella, MD, PhD

1. Xenotransplantation in Non-Human Primates: Lessons Learned and Path to Clinical Translation

Speaker: Andrew Adams, MD, PhD

2. The Immune Response in Xenotransplantation

Speaker: Brenden Keating, PhD

3. Xenotransplantation in Living Humans: Initial Experiences and Immune Challenges

Speaker: Leonardo Riella, MD, PhD

PANEL DISCUSSION

12:20 PM – 12:30 PM

Break

12:30 PM - 1:45 PM

Lunch with Keynote: Carla Baan (Career Development)

Moderator: Maria Kaisar, DPhil

1:45 PM-2:30 PM

Abstract Session 4

2:30 PM-3:30 PM	Session 6: Bioengineering/Organ Engineering Moderator: Xunrong Luo, MD, PhD, FAST and Willam Scott, PhD, MSc Bioengineering Universal Stem Cells for Beta Cell Replacement Therapy For Diabetes Speaker: Shusen Wang Bioengineering During Evlp for Enhanced Graft Survival Speaker: Constanca Figueiredo, PhD 3D Genome Mapping to Discover New Targets for Transplant Tolerance Speaker: Andrew Wells, PhD
3:30 PM-3:45 PM	Distribution of Best Abstracts awards
3:45 PM-4:15 PM	Coffee Break
4:15 PM-5:30 PM	Abstract Session 5
6:30 PM	Networking Dinner - OFFSITE

Wednesday, November 19, 2025

8:00 AM – 9:20 AM	Session 7: Cell Therapy: Potency and Safety Considerations Moderator: Willam Scott, PhD, MSc Challenges with adequately defining Potency for cell-based cancer therapeutics Speaker: Klearchos Papas, PhD Stakeholder views of cell tracking and safety following transplantation Speaker: Volker Morath, PhD MRI-Based Approaches to Track Cell Therapies Following Transplantation Speaker: Mya Thu, MBA PANEL DISCUSSION
9:20 AM-10:10 AM	Abstract Session 6
10:10 AM-10:30 AM	Coffee Break
10:30 AM-11:00 AM	Abstract Session 7

11:10 AM-12:35 PM

Session 8: Tolerance

Moderator: Fabian Eibensteiner, MD and Willam Scott, PhD, MSc

1. Cell-Based Approaches to Tolerance

Speaker: Megan Sykes, MD

2. Tolerance and Chimerism in Pediatric Kidney Transplantation: Case Study and Lessons Learned

*Speaker: Julien Zuber, MD,
PhD*

3. Balancing Risk with Benefit: Pros And Cons Of Tolerance in Transplantation

Speaker: Fabian Eibensteiner, MD

PANEL DISCUSSION

12:35 PM-1:00 PM

Closing Address