International Transplantation Science Meeting
April 30-May 3, 2023
Niagara-on-the-Lake
Ontario, Canada
www.its2023.org

FINAL PROGRAM

WEB APP: http://app.its2023.org
Wi-Fi Signal: Transplantation
Wi-Fi Password: Transplantation
Abstract Presentations

There are 3 types of abstract presentations:
Oral abstracts are 7-minute presentations followed by 3 minutes of questions
Mini-Oral abstracts are 5-minute presentations followed by 2 minutes of questions
Rapid-Fire abstracts are 3-minute presentations followed by 2 minutes of questions

Speaker Upload Area

We would ask that all presentations be uploaded at least 2 hours prior to the start of the session. If the session is early in the morning, please upload during the opening hours of the speaker upload (see below). It is important to upload your presentation as soon as possible in the event that we need to trouble-shoot any potential issues.

The upload desk will be open:

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<thead>
<tr>
<th>Date</th>
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<tr>
<td>April 30</td>
<td>13:00–17:00</td>
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<td>May 1</td>
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<td>May 3</td>
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Niagara Falls Tour - SOLD OUT

The tour is scheduled on May 1 and the buses will depart promptly at 3:40 pm in front of the hotel. Make sure you have your tour coupon, as they will be collected on the bus.
*make sure to wear comfortable clothes and shoes

Networking Event at Chateau des Charmes - SOLD OUT

The event is scheduled on May 2 and the buses will depart at 7:00 pm in front of the hotel. Make sure you have your dinner coupon, as they will be collected on the bus

NO ELECTRONIC RECORDING

Unauthorized recording (audio, visual, still photography, etc.) of any ITS 2023 presentation or event is strictly prohibited.

WEB APP: https://app.its2023.org
Wi-Fi Signal: Transplantation
Wi-Fi Password: Transplantation
**PRE-CONGRESS SESSION**

13:00–15:00 | Grand Georgian Ballroom

**Emerging ‘Omics’ and Machine Learning Techniques: The Next Frontier in Transplant Research**
Moderators: Maria Kaisar, United Kingdom and Xunrong Luo, United States

**PC.1 Translational Immunology**
Juliet Emamaullee, Los Angeles, CA, United States

**PC.2 Cite Sequencing**
Sören Lukassen, Berlin, Germany

**PC.3 Single Cell Sequencing and Spatial Transcriptomics in Kidney Disease**
Parker C. Wilson, Philadelphia, PA, United States

**PC.4 Spatial Proteomics**
Roman Fischer, Oxford, United Kingdom

**PC.5 Single-Cell Profiling of Healthy Human Kidney Reveals Features of Sex-Based Transcriptional Programs and Tissue-specific Immunity**
Ana Konvalinka, Toronto, ON, Canada

15:00–15:30 | Atrium

**Refreshment Break**
CONGRESS PROGRAM

15:30–16:40 | Grand Georgian Ballroom

#1 | Welcome Address and Keynote
Facilitator: Anita S. Chong, United States

1.1 Welcome Address
Fadi Issa, Oxford, United Kingdom

1.2 Revolutioning Immunology
Tak W. Mak, Toronto, ON, Canada

16:40–18:00 | Grand Georgian Ballroom

#2 | Abstracts Session 1
Moderators: Jonathan Maltzman, United States and Qizhi Tang, United States

2.1 ORAL ABSTRACT | Interclonal Help Promotes Allospecific CD8+ T Cell Avidity Maturation During Graft Rejection
Peter Wang, Chicago, IL, United States

2.2 ORAL ABSTRACT | Cell Therapy with Ex Vivo Expanded Human Group 2 Innate Lymphoid Cells Suppresses Allogenic T Cell Responses in Graft-Versus Host Disease
Kyle T. Reid, Toronto, ON, Canada

2.3 MINI-ORAL ABSTRACT | Tracking Gene Expression and Clonal Expansion of CD8+ T Cells in the Biopsies and Urine of Patients Undergoing Kidney Transplant Rejection
David A. Hildeman, Cincinnati, OH, United States

2.4 MINI-ORAL ABSTRACT | ABO and COVID-19 Susceptibility: A Role for ABH glycans and ABO Antibodies?
Anne M. Halpin, Edmonton, AB, Canada

2.5 MINI-ORAL ABSTRACT | The Immunological Effects of COVID-19 Vaccination after Past Infection in Lung Transplant Recipients
Siqi Liu, Groningen, Netherlands

2.6 MINI-ORAL ABSTRACT | ST2+ Reparative Regulatory T Cell Therapy for Inflammation Reduction and Tissue Repair
Kassandra J. Baron, Pittsburgh, PA, United States

2.7 MINI-ORAL ABSTRACT | Water Channel Aquaporin 4 is Required for T Cell Activation
Michael Nicosia, Cleveland, OH, United States

2.8 RAPID-FIRE ABSTRACT | The Epigenetic and Transcriptional Landscape of Monocyte Memory Formation in Response to Allogeneic Non-self
Khodor I. Abou-Daya, Pittsburgh, PA, United States

2.9 RAPID-FIRE ABSTRACT | The Use of Histopathological Features as Endpoints in Acute T Cell-mediated Rejection (TCMR) Response in Renal Allografts
Handan Ozdemir, Ankara, Turkey
2.10 RAPID-FIRE ABSTRACT | Tackling Post-transplant Lymphoproliferative Disease - A New Model of Patient Derived Lung Organoids with Epstein-Barr-virus Transformed B Cells as Test Platform for Epstein-Barr-virus Specific T Cell Fighters
Lisa-Marie Burkhardt, Berlin, Germany

2.11 RAPID-FIRE ABSTRACT | Development of a Potency Assay for Regulatory T Cell Therapy Applications
Macyn L. Leung, Vancouver, BC, Canada

2.12 RAPID-FIRE ABSTRACT | Determining the Cytoplasmic and Membranous Localization of CD38 using ImageStream
Yonggyu Lee, Columbus, OH, United States

18:00–19:00 | Atrium
Welcome Reception
07:00–08:00 | Tiara Restaurant

**Breakfast** (included for registrants)

08:00–09:20 | Grand Georgian Ballroom

#3 | **Cellular Engineering for Transplantation**

Moderators: Carole Guillonneau, France and Nina Pilat, Austria

3.1 **Species-specific Regulation of IL-33 Expression**
Anne Sperling, Charlottesville, VA, United States

3.2 **Rescuing CAR Tregs from Dysfunction**
Julien Zuber, Paris, France

3.3 **Induction of Immune Tolerance by Cell-Therapy Using Inducible Suppressive T Cells**
Koichiro Uchida, Tokyo, Japan

3.4 **DarTregs in Liver Transplantation**
Qizhi Tang, San Francisco, CA, United States

09:20–10:20 | Grand Georgian Ballroom

#4 | **Abstracts Session 2**

Moderators: Xunrong Luo, United States and Leonardo Riella, United States

4.1 **MINI-ORAL ABSTRACT | CRISPR-Mediated Deletion of PD1 Enhances the Function of Human CAR Tregs**
Sonya Mangat, Vancouver, BC, Canada

4.2 **MINI-ORAL ABSTRACT | Mapping Natural Killer Cell Contributions to Antibody-Mediated Rejection of Kidney Allografts and Responsiveness to Immunosuppression**
Julia M. Murphy, Toronto, ON, Canada

4.3 **MINI-ORAL ABSTRACT | Genomic Mismatch at the SIRPA Locus and Long-term Kidney Allograft Outcomes**
Aravind Cherukuri, Pittsburgh, PA, United States

4.4 **MINI-ORAL ABSTRACT | Generation of EPO-overexpressing Kidney Organoids by DNA vectors**
Martin Hoogduijn, Rotterdam, Netherlands

Hayden Huy Gia Ly, Sydney, Australia

4.6 **RAPID-FIRE ABSTRACT | Validation of a Novel Suspension Microcavity System for Generation and Maintenance of Optimally-sized Primary Human Pancreatic Pseudo-islets**
Morgan F. Shaw, Newcastle Upon Tyne, United Kingdom
| 4.7 | RAPID-FIRE ABSTRACT | IgG and IgM ABO Antibodies Detected by a Novel Bead-based Assay Fail to be Discriminated by Hemagglutination Methods  
Anne M. Halpin, Edmonton, AB, Canada |
| 4.9 | RAPID-FIRE ABSTRACT | Deep Neural Network Model can Effectively Determine and Rank the Predictors of Failure after Kidney Transplantation in Patients Younger than 18  
Orkideh Olang, Toronto, ON, Canada |
| 4.10 | RAPID-FIRE ABSTRACT | Iron Availability Alters Immune Responses after Allogenic Skin Transplantation  
Amy R. Cross, Oxford, United Kingdom |
| 4.11 | RAPID-FIRE ABSTRACT | Activation of Human CD4+CD25+CD127lo Treg with Alloantigen and rIL-2  
Nirupama D. Verma, Liverpool, Australia |

### Coffee Break

10:20–10:50 | Atrium

### Grand Georgian Ballroom

#### #5 | Environmental Modifiers of Alloimmune Response
Moderators: Anita S. Chong, United States and Jonathan S. Bromberg, United States

| 5.1 | Metabolite Imbalance and Inflammation  
Dominik Mueller, Berlin, German |
| 5.2 | Commensal Immune Responses and Transplantation  
Maria-Luisa Alegre, Chicago, IL, United States |
| 5.3 | Impact of Diet and Short-Chain Fatty Acids on Transplant Outcomes  
Leonardo Riella, Boston, MA, United States |
| 5.4 | Trained Immunity in Organ Transplantation  
Jordi Ochando, New York, NY, United States |
| 5.5 | RAPID-FIRE ABSTRACT | Reprogramming CD8+FOXP3+Treg to deal with an Inflamed Environment  
Séverine Bézie, Nantes, France |
| 5.6 | RAPID-FIRE ABSTRACT | Human Pulmonary Endothelial Function is Improved by Nutrient Supplementation in Ex Vivo Lung Perfusion Perfusates  
Dejan Bojic, Toronto, ON, Canada |
12:20–13:40 | Grand Georgian Ballroom

#6 | Lunch Keynote Address
Facilitator: Maria Kaisar, United Kingdom

From Survive to Thrive: The Power of Mentorship
Lorna Marson, Edinburgh, United Kingdom

(Buffet lunch will be served in the Atrium. Please collect your plate and attend the keynote lecture in the Grand Georgian Ballroom)

13:40–15:10 | Grand Georgian Ballroom

#7 | Regenerative Medicine: Improve What’s Not Good Enough or Build from Scratch?
Moderators: Nina Pilat, Austria and Mohamed Ezzelarab, United States

7.1 Generating Thymus Organoids to Regenerate T Cell Differentiation
Matthieu Giraud, Nantes, France

7.2 Latest Insights of Organoids
Martin Hoogduijn, Rotterdam, Netherlands

7.3 Designing the Best Pig to Move to the Clinic
Richard N. Pierson III, Cambridge, MA, United States

7.4 From an In Vivo to an Ex Vivo Engraftment Strategy in Islet Transplantation
Lorenzo Piemonti, Milano, Italy

7.5 ORAL ABSTRACT | Immune Response of Human Kidney Organoid-based Tissues in a Humanized Mouse Model
Thiago J. Borges, Boston, MA, United States

15:40–19:00

Niagara Falls Tour - SOLD OUT ($ ticket required)
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<td>07:00–08:00</td>
<td>Tiara Restaurant</td>
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<td>Nicole Valenzuela, Los Angeles, CA, United States</td>
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<td>Carole Guillonneau, Nantes, France</td>
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9.7 MINI-ORAL ABSTRACT | The Impact of Different CD8+ Immune Cell Subsets on Allograft Rejection
Romy Steiner, Vienna, Austria

9.8 RAPID-FIRE ABSTRACT | Combining Human CD4+ and CD8+ Treg to Inhibit Experimental Acute GVHD
Séverine Bézie, Nantes, France

9.9 RAPID-FIRE ABSTRACT | Prolonged Warm Ischemia injury Enhances Cellular Immune Responses to Mouse Renal Allografts
Victoria Gorbacheva, Cleveland, OH, United States

9.10 RAPID-FIRE ABSTRACT | The Role of Dlc1 Beta in Attenuating Cardiac Ischemia-Reperfusion Injury during Heterotopic Heart Transplantation
Samantha L. Collings, London, ON, Canada

9.11 RAPID-FIRE ABSTRACT | Cardiac Allograft Monitoring using Cardiac Magnetic Resonance Imaging (cMRI) in a Porcine Heterotopic Heart Transplant Model of Acute Rejection
Michelle Mendiola Pla, Durham, NC, United States

10:30–11:00 | Atrium
Coffee Break

11:00–12:30 | Grand Georgian Ballroom

#10 | Patient Perspectives
Moderators: Lori J. West, Canada and Roslyn B. Mannon, United States
Session supported by:

10.1 Back to Basics: Integrating Patient, Family, and Donor Partners in Basic Science Research
Manuel Escoto, Edmonton, AB, Canada

10.2 Patients’ Presentations

10.3 RAPID-FIRE ABSTRACT | Immunosuppression Minimization during COVID Infection: Is it Safe?
Reza F. Saidi, Syracuse, NY, United States

10.4 RAPID-FIRE ABSTRACT | External Validation of the Abbreviated iBOX at 6-, 12-, and 24-months Post-kidney Transplant as a Secondary Endpoint Prognostic for Death-censored Graft Survival
Amanda Klein, Tucson, AZ, United States

10.5 RAPID-FIRE ABSTRACT | Research and Innovation in Organ Donation and Transplant - Recommendations from an International Consensus Forum
Mélanie Dieudé, Montreal, QC, Canada and Manuel Escoto, Edmonton, AB, Canada
10.6 **RAPID-FIRE ABSTRACT | “You Know You’re Not the Only One”: The Experiences and Perspectives of Adolescent Thoracic Transplant Recipients Participating in the iPeer2Peer Support Mentorship Program**
Samantha J. Anthony, Toronto, ON, Canada

10.7 **RAPID-FIRE ABSTRACT | “Weighing the Pros and Cons of Everything”: Perspectives about Living Donor Kidney Transplantation from Caregivers of Chinese Canadian Pediatric Patients with Chronic Kidney Disease**
Samantha J. Anthony, Toronto, ON, Canada

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**12:30–14:00 | Grand Georgian Ballroom**

#11 **Lunch Keynote Address**
Facilitator: Fadi Issa, United Kingdom

**Engineered T Cells in Transplantation**
Megan Levings, Vancouver, BC, Canada

*Buffet lunch will be served in the Atrium. Please collect your plate and attend the keynote lecture in the Grand Georgian Ballroom*

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**14:00–14:25 | Grand Georgian Ballroom**

#12 **Abstracts Session 4**
Moderators: Khodor I. Abou-Daya, United States and Anne M. Halpin, Canada

12.1 **MINI-ORAL ABSTRACT | The Temporary Inhibition of Tissue Factor in Pancreatic Islets Using a Synthetic siRNA can Reduce the Post Transplant Liver Ischemia**
Jan Kriz, Prague, Czech Republic

12.2 **MINI-ORAL ABSTRACT | Artificial Intelligence Algorithm Predicts Kidney Transplant Outcome by Using Donor-Recipients Factors: Study of 142,971 Transplant Pairs**
Mohammad Shafiee, Toronto, ON, Canada

12.4 **RAPID-FIRE ABSTRACT | Investigation of New Biopsy Based Monitoring System to Predict Rejection or Diagnosis of Liver Transplant Tolerance**
Koji Tokushige, Tokyo, Japan

12.5 **RAPID-FIRE ABSTRACT | Retrospective Single Center Study of Post Kidney Transplant Tuberculosis**
Janmejay A. Kunpara, Ahmedabad, India

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**14:25-15:30 | Grand Georgian Ballroom**

#13 **Bioengineering for Transplantation**
Moderators: Megan Levings, Canada and Stephen Juvet, Canada

13.1 **Mab-decorated NPs to Target Cells with Specific Surface Expression of Markers**
Reza Abdi, Boston, MA, United States

13.2 **Nanoparticle-based Targeting of Alloantigen Presentation for Transplantation Tolerance**
Xunrong Luo, Durham, NC, United States
### 13.3 ORAL ABSTRACT | Regulatory T Cells Integrate Native and CAR-mediated Co-stimulatory Signals for Control of Allograft Rejection
Isaac Rosado Sanchez, Vancouver, BC, Canada

### 13.4 MINI-ORAL ABSTRACT | Modelling HLA-A2 CAR-Treg Therapy with a Novel Transgenic Mouse
Manjurul Haque, Vancouver, BC, Canada

### 13.5 MINI-ORAL ABSTRACT | Enzymatic Conversion of Blood Group A- to H-antigen in a Mouse Model to Facilitate ABO-incompatible Transplantation (ABOi Tx)
Lori J. West, Edmonton, AB, Canada

### 15:30–15:45 | Grand Georgian Ballroom
**Distribution of WIT, AST-COTS, TTS and AAI Awards**

### 15:45–16:15 | Atrium
**Coffee Break**

### 16:15–17:20 | Grand Georgian Ballroom

#### #14 | Abstracts Session 5
Moderators: Anna Valujskikh, United States and Heth R. Turnquist, United States

14.1 ORAL ABSTRACT | IL-2 and TGF-b Synergize to Induce Regulatory CD56bright NK Cells Observed Following Hematopoietic Stem Cell Transplant
Sarah Crome, Toronto, ON, Canada

14.2 MINI-ORAL ABSTRACT | Tributyrin Treatment Promotes Treg Differentiation and Increases Skin Graft Survival
Daniel M. Mendes, Boston, MA, United States

14.3 MINI-ORAL ABSTRACT | Donor hematopoietic Cell Expression of PD-L1 is Required for Prevention of Split Tolerance in MHC-mismatched Mixed Chimeras
Yaxun Huang, Duarte, NC, United States

14.4 MINI-ORAL ABSTRACT | ERK Signalling May be Responsible for LGALS1 Increase by Anti-HLA-I Antibody Stimulation in Glomerular Endothelial Cells
Alex Boshart, Toronto, ON, Canada

14.5 MINI-ORAL ABSTRACT | The Role of LAG3 in Aantibody Responses to Kidney Transplantation
Michael Nicosia, Cleveland, OH, United States

14.6 MINI-ORAL ABSTRACT | Beneficial Effects of C1q in Resolving Ischemia Reperfusion in Kidney Transplants
Hirotsugu Noguchi, Cleveland, OH, United States

14.7 RAPID-FIRE ABSTRACT | Protein and miRNA Expression Distinguish DSA+ Kidney Transplant Recipients with and without Antibody-mediated Rejection
Kieran Manion, Toronto, ON, Canada
14.8 **RAPID-FIRE ABSTRACT** | CD38 Activation with Methionine Choline Deficient (MCD) Diet-induced Liver Injury in Rats
Jung Lye Kim, Columbus, OH, United States

14.9 **RAPID-FIRE ABSTRACT** | Anti-apoptosis and Necrosis Effect of Necrostatin-1 in Skin and Muscle Cell Lines Subjected to Prolonged Cold Storage and Rewarming: Implications for Vascularized Composite Allograft Preservation
Po’okela Ng, Aurora, CO, United States

14.10 **RAPID-FIRE ABSTRACT** | Development of an MHC Class II-specific CAR for the Modulation of Alloreactivity in Mice
Andrew W. Brown, Vancouver, BC, Canada

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17:30–18:30 | Grand Georgian Ballroom

### #15 | Women in Transplantation Networking Session

Facilitators: Anita S. Chong, United States and Samantha J. Anthony, Canada
Organized by: [Women in Transplantation](#)

**Overcoming Barriers to Career Advancement as a Woman in the Field of Transplantation**
Jayne Danska, Toronto, ON, Canada and Lorna Marson, Edinburgh, United Kingdom

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19:30–22:30

**Networking Event at the Chateau des Charmes** - SOLD OUT ($ ticket required)
Bus will depart at 19:00 in front of the hotel
07:00–08:00 | Tiara Restaurant

**Breakfast** (included for registrants)

08:00–09:20 | Grand Georgian Ballroom

**#16 | Influence of Sex and Gender in Transplantation**

Moderator: Roslyn B. Mannon, United States and Bethany J. Foster, Canada

16.1 **Fetomaternal Tolerance through Glycan-mediated B Cell Suppression**

Gabrielle Rizzuto, New York, NY, United States

16.2 **Interactions between Sex and Microbiome Responses**

Jayne Danska, Toronto, ON, Canada

16.3 **Pregnancy Induced Humoral Sensitization and T Cell Tolerance**

Anita S. Chong, Chicago, IL, United States

16.4 **Sex and Gender: Modifiers of health, disease, and medicine**

Franck Mauvais-Jarvis, New Orleans, LA, United States

09:20–10:10 | Grand Georgian Ballroom

**#17 | Abstracts Session 6**

Moderators: Maria Kaisar, United Kingdom and Martin Oberbarnscheidt, United States

17.1 **MINI-ORAL ABSTRACT | Optimization of an Antigen-induced Marker Assay to Measure Vaccine-induced Immunity to SARS-CoV-2 in Transplant Recipients**

Torin JX Halvorson, Vancouver, BC, Canada

17.2 **MINI-ORAL ABSTRACT | Regulatory B Cells Biomarker Discovery and Their Prognostic Value of Improved Graft Outcome and Rejection Risk in Kidney Transplant Patients**

Marcella Franquesa, Badalona, Spain

17.3 **MINI-ORAL ABSTRACT | Transfer of CD8+T Regulatory Cells GMP Manufacturing for Clinical Trial in Kidney Transplanted Patients**

Séverine Bézie, Nantes, France

17.4 **MINI-ORAL ABSTRACT | A Longitudinal Study of T and B Cell Subsets in Lung Transplant Patients Before and After Transplantation**

Siqi Liu, Groningen, Netherlands

17.5 **MINI-ORAL ABSTRACT | Outcomes of Solid Organ Transplantation Recipients after Tixagevimab/Cilgavimab Treatment**

Adriana Montalvan, Boston, MA, United States

17.6 **RAPID-FIRE ABSTRACT | Donor-derived Cell-free DNA and Gene Expression Profile in Simultaneous Pancreas-Kidney Transplantation**

Pedro Ventura-Aguier, Barcelona, Spain

17.7 **RAPID-FIRE ABSTRACT | A Case Study Supporting the Use of AUC0-12 for Therapeutic Drug Monitoring of Mycophenolic Acid Following Liver Transplantation**

Claudia C. Beck, Carrollton, TX, United States
10:10–10:30 | Atrium

Coffee Break

10:30–11:00 | Grand Georgian Ballroom

#18 | Abstracts Session 7
Moderators: Martin Hoogduijn, Netherlands and Xunrong Luo, United States

18.2 RAPID-FIRE ABSTRACT | Subpopulations of Blood Lymphocytes in Long-surviving Renal Transplant Patients, Comparison with Healthy Volunteers
Prateek Rakesh, Sydney, Australia

18.3 RAPID-FIRE ABSTRACT | Conversion to Belatacept in Kidney Transplant Recipients
Peter J. Floramonti, Syracuse, NY, United States

18.4 RAPID-FIRE ABSTRACT | Which Pathological Factors Affect Kidney Allograft Outcome in Chronic Active Antibody-mediated Rejection?
Kazunobu Shinoda, Kawasaki, Japan

18.5 RAPID-FIRE ABSTRACT | Frequency and Stability of Subpopulations of CD4+CD25+Foxp3+CD127lo T Regulatory Cells in Healthy Adult Volunteers
Ranje Al-Atiyah, Liverpool, Australia

18.6 RAPID-FIRE ABSTRACT | New Approach to Therapeutic Drug Monitoring ofMycophenolic Acid (MPA) and Mycophenolic Acid Glucuronide (MPAG) Based on Pharmacokinetics for Solid Organ Transplant Patients using LC-MS/MS
Claudia C. Beck, Carrollton, TX, United States

11:00–12:35 | Grand Georgian Ballroom

#19 | New Perspectives in Innate/ILC Immunity and Tissue-resident Leukocytes
Moderators: Robert L. Fairchild, United States and Nina Pilat, Austria
Session supported by: ISHLT

19.1 Macrophages in Transplantation
Ben Kopecky, St. Louis, MO, United States

19.2 Innate Allorecognition and Memory
Khodor I. Abou-Daya, Pittsburgh, PA, United States

19.3 Alveolar Macrophages in Lung Transplantation
Stephen Juvet, Toronto, ON, Canada

19.4 MINI-ORAL ABSTRACT | Recipient Derived Monocytes Induced Proliferation of Endogenous Donor-reactive Memory CD8 T Cells within Highly Ischemic Allografts
Hidetoshi Tsuda, Cleveland, OH, United States

19.5 MINI-ORAL ABSTRACT | Defining Protective and Pathogenic Resident Immune Cells in Kidney Transplantation
Martin L. Mak, Toronto, ON, Canada
19.6 **MINI-ORAL ABSTRACT** | Interplay Between Intrahepatic Macrophages and Alloreactive and Regulatory T-Cells Mediates the Complex Alloimmune Microenvironment during Acute Rejection in Clinical Liver Transplantation
Arianna Barbetta, Los Angeles, CA, United States

19.7 **MINI-ORAL ABSTRACT** | Cell Therapy with Group 2 and Group 3 Innate Lymphoid Cells Prevents Rejection in Humanized Models of Islet Transplant
Sarah J. Colpitts, Toronto, ON, Canada

19.8 **MINI-ORAL ABSTRACT** | Microvascular Injury with Macrophage, Neutrophil, and HLA-DR Positive Inflammatory Infiltrate, either in DSA Positive or Negative ABMR, Determines the Prognosis in Renal Allografts
Handan Ozdemir, Ankara, Turkey

**12:35–12:45 | Grand Georgian Ballroom**
#20 | **Closing Address**

**12:45–13:30 | Atrium**
*Grab and Go Lunch*
REGISTER NOW!

AMERICAN TRANSPLANT CONGRESS
ATC 2023
SAN DIEGO, CA • JUNE 3-7, 2023
SAN DIEGO CONVENTION CENTER
atcmeeting.org / #ATC2023SanDiego

Disruptive Innovation, Trusted Care

Early registration deadline: 31 May 2023

Save the Dates!

TTS 2024 ISTANBUL TURKEY
September 22-25
30th International Congress of The Transplantation Society
Visit our website www.tts2024.org
The Organisers would like to extend our gratitude to the following supporters for their collaboration in the ITS 2023 Meeting.