## Day 1: 15 May 2022 | Sunday

<table>
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<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
<th>Location</th>
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<tbody>
<tr>
<td>15:00 – 17:30</td>
<td><strong>Pre-Workshop:</strong> Single Cell Multimodal Omics?</td>
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<td></td>
<td>Chairs: Anita Chong</td>
<td>Chicago, United States</td>
<td>Janine Altmüller</td>
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<tr>
<td>15:00 – 15:20</td>
<td>Multimodal single-cell approaches shed light on T-cell heterogeneity</td>
<td>Ricardo Ferreira</td>
<td>Oxford, United Kingdom</td>
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<tr>
<td>15:20 – 15:40</td>
<td>Single-cell multi-omics profiling to understand disease progression cell-by-cell</td>
<td>Matthias Farlik</td>
<td>Vienna, Austria</td>
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<tr>
<td>15:40 – 16:00</td>
<td>Questions and discussion</td>
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<td>16:00 – 16:30</td>
<td><strong>COFFE BREAK</strong></td>
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<td>16:30 – 16:50</td>
<td>Monitoring genetic stability by single-cell sequencing</td>
<td>Ashley D. Sanders</td>
<td>Berlin, Germany</td>
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<tr>
<td>16:50 – 17:10</td>
<td>Single nucleotide sequencing</td>
<td>Christian Conrad</td>
<td>Berlin, Germany</td>
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<tr>
<td>17:10 – 17:30</td>
<td>Discussion panel with all speakers</td>
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Day 2: 16 May 2022 | Monday

08:20 – 08:30  Opening: Official Welcome to the ITS 2022

Anita Chong | Chicago, United States
Faddi Issa | Oxford, United Kingdom
Nina Pilat | Vienna, Austria

08:30 – 10:30  Session 1: B cells, Protective and Pathogenic Antibodies

Chairs: Cees van Kooten | Leiden, The Netherlands
TBA

08:30 – 08:50  Current strategies targeting B cells in autoimmunity
Thomas Dörner | Berlin, Germany

08:50 – 09:10  Intragraft antibody responses in human cardiac allograft vasculopathy
Emmanuel Zorn | New York, United States

09:10 – 09:30  Implementation and impact of assessing alloreactive memory B cells in kidney transplantation
Oriol Bestard | Barcelona, Spain

09:30 – 09:37  [OP07] CHANGES OF IMMUNOGLOBULIN E-RECEPTOR POSITIVE CELL SUBSETS AFTER CARDIAC ALLOGRAFT REJECTION IN MICE
Anna Marianne Weijler | Vienna, Austria

Rens Kraaijeveld | Rotterdam, The Netherlands

09:44 – 09:51  [OP09] CIRCULATING AND INTRAGRAFT DONOR(HLA)-SPECIFIC B CELLS DRIVE ALLOGRAFT REJECTION AFTER KIDNEY TRANSPLANTATION
Alba Torija | Hospitalet de Llobregat, Spain

09:51 – 10:30  Discussion panel with all speakers

10:30 – 11:00  COFFEE BREAK
11:00 – 12:30  Session 2:  
Big Data and Artificial Intelligence

Chairs:  
Maria Kaisar | Oxford, United Kingdom  
Xunrong Luo | Durham, United States

11:00 – 11:20  Genomic-related bioinformatics applications  
Sophie Limou | Nantes, France

11:20 – 11:40  Machine learning in clinical transplantation  
Katie Connor | Edinburgh, United Kingdom

11:40 – 12:00  Big data and artificial intelligence in liver transplantation  
Ali Zarrinpar | Gainesville, United States

12:00 – 12:30  Discussion panel with all speakers

12:30 – 14:00  LUNCH BREAK | POSTER VIEWING

13:00 – 13:30  Moderated e-Poster Session 1  
[POSTER AREA]

Chairs:  
TBA

13:00 – 13:05  [POS26] SINGLE CELL ALLOREACTIVE TCR REPERTOIRE PROFILING  
Moumita Paul-Heng | Sydney, Australia

13:05 – 13:10  [POS33] DONOR-SPECIFIC HYPORESPONSIVENESS FOLLOWING KIDNEY TRANSPLANTATION EXPLAINED BY LOSS OF DONOR-REACTIVE POLYFUNCTIONAL CD4+ EFFECTOR MEMORY T CELLS  
Amy van der List | Rotterdam, Netherlands

13:10 – 13:15  [POS34] DYNAMIC OF DONOR DERIVED CELL-FREE DNA AFTER PANCREAS TRANSPLANTATION  
Maria José Ramirez-Bajo | Barcelona, Spain

Dirk Kuypers | Leuven, Belgium


14:00 – 15:30  **Session 3:** Innate Immunity  

**Chairs:** Katja Kotsch | Berlin, Germany  
Cees van Kooten | Leiden, The Netherlands  

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<th>Time</th>
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| 14:00  | Lymph node fibroblastic reticular cells steer immune responses       | Jonathan S Bromberg           | Baltimore, United States  
| 14:20  | Innate lymphoid cells                                                 | Andreas Diefenbach             | Berlin, Germany   |
| 14:40  | [OP14] OCCURRENCE OF VIRAL INFECTIONS MAY BE PREDICTED BY LONGITUDINAL MONITORING OF TORQUE-TENO VIRUS IN PEDIATRIC KIDNEY TRANSPLANT PATIENTS | Fabian Eibensteiner           | Vienna, Austria   |
| 14:47  | [OP 15] COMPLEMENT SYSTEM ACTIVATION IN BRAIN DEATH AND THE EFFECT OF LUMINAL INTESTINAL PRESERVATION | Marc Weiss                    | Aarhus, Denmark   |
| 14:54  | Discussion panel with all speakers                                    |                                |                  |

15:30 – 16:00  **COFFEE BREAK**
16:00 – 17:30 Session 4: DISCUSSION PANEL
Scientific Leadership in Transplantation

Chairs: Caroline Dudreuilh | London, United Kingdom
TBA

Discussion panel on:
- Career challenges
- Value of mentorship
- Do’s and don’ts while doing PhD

Anita Chong | Chicago, United States
Andreas Zuckermann | Vienna, Austria
Liset Pengel | Oxford, United Kingdom
Fadi Issa | Oxford, United Kingdom

All participants are invited to watch a movie prior to the meeting. We wish to use it as a base for discussion. Movie: “Picture a scientist” available on streaming platform Netflix.

17:30 – 18:30 Networking Event

18:00 – 18:30 Moderated e-Poster Session 2
[POSTER AREA]

Chairs: TBA

18:00 – 18:05 [POS46] A PIG CROSS-CIRCULATORY PLATFORM FOR MONITORING AND MODULATING THE INNATE RESPONSES IN LUNG GRAFTS.
Matthieu Glorion | Suresnes, France

18:05 – 18:10 [POS47] CHARACTERISING THE PROTEOME OF PERFUSATE FROM HUMAN KIDNEYS UNDERGOING HYPOTHERMIC PERFUSION IN THE CLINIC: INSIGHT INTO PROTECTIVE MECHANISMS?
John Mulvey | Oxford, United Kingdom

18:10 – 18:15 [POS55] SINGLE-NUCLEUS RNA SEQUENCING IDENTIFIES CONSERVED TRANSCRIPTIONAL PROGRAMS IN MOUSE- AND PIG MODELS OF CELL-FREE NORMOTHERMIC MACHINE PERFUSION
Jan Czogalla | Hamburg, Germany
18:15 – 18:20 [POS61] CHIMERISM AND BIDIRECTIONAL ALLORESPONSES IN PATIENTS RECEIVING LUNG TRANSPLANTATION
Jianing Fu | New York, United States

18:20 – 18:25 [POS68] HUMORAL RESPONSE TO 3 AND 4 DOSES OF MRNA COVID-19 VACCINE IN KIDNEY TRANSPLANT RECIPIENTS WITHOUT PRIOR SEROCONVERSION
Clara Brandstetter | Linz, Austria

18:25 – 18:30 [POS80] VALIDATION OF THE OPTIMAL TT VIRUS RANGE FOR RISK STRATIFICATION OF GRAFT REJECTION AND INFECTION IN KIDNEY TRANSPLANT RECIPIENTS BY TTV R-GENE®
Frederik Haupenthal | Vienna, Austria
Day 3: 17 May 2022 | Tuesday

08:30 - 10:00  Session 5: Marginal organs and ex-vivo machine perfusion

Chairs: Georg Lurje | Berlin, Germany
        TBA

08:30 – 08:50  Improving outcomes in liver transplantation with HOPE  Zlotan Czigany | Aachen, Germany

08:50 – 09:10  Pumping kidneys as a solution for everything?  Cyril Moers | Groningen, The Netherlands

09:10 – 09:30  Silencing HLA expression through ex vivo machine perfusion  Constanca Figueiredo | Hannover, Germany

09:30 – 09:37  [OP 16] EXTRACELLULAR VESICLE SUBSETS RELEASED DURING NORMOTHERMIC MACHINE PERFUSION ARE ASSOCIATED WITH HUMAN KIDNEY CHARACTERISTICS  Wouter Woud | Rotterdam, The Netherlands

09:37 – 09:44  [OP 17] LIVER NORMOTHERMIC MACHINE PERFUSION SUPPORTS TRANSLATION AND MITOCHONDRIAL FUNCTION AND REDUCES DEGRADATION AND METABOLIC IMBALANCE  Maria Letizia Lo Faro | Oxford, United Kingdom

09:44 – 09:51  [OP 18] REMOVAL OF NEUTROPHIL EXTRACELLULAR TRAPS DURING EX VIVO LUNG PERFUSION SHOWS IMPROVEMENT OF LUNG FUNCTION IN A PORCINE LUNG INJURY MODEL  Margareta Mittendorfer | Lund, Sweden

09:51 – 10:30  Discussion panel with all speakers

10:30 – 11:00  COFFEE BREAK
### Session 6: Mechanisms of alloimmunity and tolerance

**Chairs:** Marisa Alegre | Chicago, United States  
Elke Eggenhofer | Regensburg, Germany

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<tr>
<th>Time</th>
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<th>Location</th>
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<tbody>
<tr>
<td>11:00 – 11:20</td>
<td>The holy grail of (central) tolerance: Generation of MHC/peptide ligands for T cell repertoire selection</td>
<td>Ludger Klein</td>
<td>Munich, Germany</td>
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<tr>
<td>11:20 – 11:40</td>
<td>Selective co-stimulation blockade with antagonist anti-CD28 therapeutics in transplantation</td>
<td>Gilles Blancho</td>
<td>Nantes, France</td>
</tr>
<tr>
<td>11:47 – 11:54</td>
<td>[OP 19] GPR109A ACTIVATION IN HUMAN REGULATORY MACROPHAGES ENHANCES INDUCED TREG GENERATION</td>
<td>Laura Cordero</td>
<td>Regensburg, Germany</td>
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<tr>
<td>11:54 – 12:30</td>
<td>Discussion panel with all speakers</td>
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**12:30 – 14:00** LUNCH BREAK | POSTER VIEWING

### Satellite Symposium

**13:00 – 14:00** SATELLITE SYMPOSIUM

### Session 7: COVID-19 – immunological response to vaccination

**Chairs:** Anita Chong | Chicago, United States  
Katja Kotsch | Berlin, Germany

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<th>Time</th>
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<tbody>
<tr>
<td>14:00 – 14:20</td>
<td>SARS-CoV2 vaccination of adolescent and adult kidney transplant recipients: outcomes after different approaches based on comprehensive humoral-, B- and T cell analysis</td>
<td>Arne Sattler</td>
<td>Berlin, Germany</td>
</tr>
</tbody>
</table>

**Version: 9 March 2022**
14:20 – 14:40  Low-Avidity CD4+ T Cell Responses to SARS-CoV-2 in Unexposed Individuals and Humans with Severe COVID-19  
Petra Bacher | Kiel, Germany

David Cucchiari | Barcelona, Spain

14:47 – 14:54  [OP22] B CELL COMPOSITION IS ALTERED AFTER KIDNEY TRANSPLANTATION AND TRANSITIONAL B CELLS CORRELATE WITH SARS-COV-2 VACCINATION RESPONSE  
Max Schuller | Graz, Austria

14:54 – 15:01  [OP 23] ASSESSING SARS-COV-2-SPECIFIC ADAPTIVE IMMUNITY TO PREDICT SEROCONVERSION AFTER MRNA-BASED VACCINATION IN SOT  
Laura Donadeu | Barcelona, Spain

15:01 – 15:30  Discussion panel with all speakers

15:30 – 16:00  COFFEE BREAK

16:00 – 17:00  Session 8:  
Keynote lecture

Chairs: Jonathan Bromberg | Baltimore, United States

16:00 – 16:45  Single cell profiling of myeloid cell in health and disease  
Florent Ginhoux | Singapore

16:45 – 17:00  Q&A session

17:00 – 18:00  Session 9:  
You make us look good... (Patients are the real heroes)

Chairs: Jonathan Bromberg | Baltimore, United States  
TBA

Session will focus on looking at the specific case seen from perspective of surgeon and his patient after heart transplantation.

Patient: Milos Nikolic | Belgrade, Serbia  
Surgeon: Andreas Zuckermann | Vienna, Austria
Day 4: 18 May 2022 | Wednesday

08:30 – 10:00  **Session 10: Basic mechanisms of organ regeneration & organoids**

**Chairs:**
Elke Eggenhofer | Regensburg, Germany  
Bill Scott | Newcastle, United Kingdom

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<tr>
<th>Time</th>
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<tr>
<td>08:30</td>
<td>Organoids and liver regenerative medicine</td>
<td>Luc van der Laan</td>
<td>Rotterdam, The Netherlands</td>
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<tr>
<td>08:50</td>
<td>Kidney organoids</td>
<td>Nuria Montserrat</td>
<td>Barcelona, Spain</td>
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<tr>
<td>09:10</td>
<td>[OP 10] DE NOVO SIX2 ACTIVATION IN HUMAN KIDNEYS TREATED WITH NEONATAL KIDNEY STEM/PROGENITOR CELLS DURING NORMOTHERMIC MACHINE PERFUSION</td>
<td>Fanny Arcolino</td>
<td>Leuven, Belgium</td>
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<td>09:17</td>
<td>[OP 11] ADMINISTRATION OF MESENCHYMAL Stromal Cells To Rejected Donor Lungs Results In Regeneration And Reduction Of Primary Graft Dysfunction</td>
<td>Anna Niroomand</td>
<td>Lund, Sweden</td>
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<td>09:24</td>
<td>[OP 12] AIF-1 DEFICIENCY PROMOTES REPAIR OF ISCHEMIC KIDNEYS BY REPROGRAMMING RESIDENT MACROPHAGES FOR EFFEROCYTOSIS</td>
<td>Irma Husain</td>
<td>Durham, United States</td>
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<td>09:31</td>
<td>[OP 13] 17B-ESTRADIOL AND METHYLPRIDNISOLONE ASSOCIATION AMELIORATES LUNG INFLAMMATION AFTER BRAIN DEATH IN FEMALE RATS</td>
<td>Marina Vidal-dos-Santos</td>
<td>Sao Paulo, Brazil</td>
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09:38 – 10:00  Discussion panel with all speakers

10:00 – 10:30  **COFFEE BREAK**
## 10:30 – 12:00  Best Abstracts Session

**"A star is born"**

### Chairs:
Marisa Alegre | Chicago, United States
Megan Sykes | New York, United States

### 10:30 – 10:42

<table>
<thead>
<tr>
<th>OP 01</th>
<th>TARGETED DELIVERY OF GALUNISERTIB SUPPRESSES FIBROGENESIS IN AN INTEGRATED EX VIVO RENAL TRANSPLANT AND FIBROSIS MODEL</th>
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<td>Leonie van Leeuwen</td>
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### 10:42 – 10:54

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<thead>
<tr>
<th>OP 02</th>
<th>IMPLICATION OF CD8+ CELLS IN TREG MEDIATED SKIN GRAFT SURVIVAL</th>
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<td>Romy Steiner</td>
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### 10:54 – 11:06

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<tr>
<th>OP 03</th>
<th>RENAL-RESIDENT INNATE LYMPHOID CELLS TYPE 2 ARE LOST FOLLOWING RENAL TRANSPLANTATION AND ARE NOT RESTORED AFTER THERAPEUTIC IL-33 TREATMENT</th>
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<td>Linda Marie Laura Thole</td>
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### 11:06 – 11:18

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<tr>
<th>OP 04</th>
<th>REGULATORY T CELLS SUPPRESS MEMORY IL-17A PRODUCTION IN HIGHLY SENSITISED PATIENTS WITH END-STAGE RENAL DISEASE</th>
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<td>Caroline Dudreuilh</td>
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### 11:18 – 11:30

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<tr>
<th>OP 05</th>
<th>THE ROLE OF CHIMERIC ANTIGEN RECEPTOR (CAR) VERSUS ENDOGENOUS COSTIMULATION IN THE FUNCTION OF ALLOANTIGEN-SPECIFIC TREGS</th>
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<tr>
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<td>Isaac Rosado-Sánchez</td>
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### 11:30 – 11:42

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<tr>
<th>OP 06</th>
<th>TRANSITIONAL-1 B CELL IL-10/TNF-Α RATIO RISK-STRATIFIES RENAL TRANSPLANT PATIENTS WITH EARLY BORDERLINE CHANGE</th>
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<td>Aravind Cherukuri</td>
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### 11:42 – 12:00
Discussion with all speakers

### 12:00 – 12:30
BREAK (LIGHT LUNCH)
<table>
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<tr>
<th>Time</th>
<th>Session 11: Biobanks and Bioassays</th>
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<tr>
<td>12:30 – 12:50</td>
<td>Quality in Organ Donation and Transplantation. From clinical samples to whole organs bioresource</td>
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<td>12:50 – 13:10</td>
<td>The alloreactive T cell repertoire</td>
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<td>13:10 – 13:30</td>
<td>Bioassays to determine activity of extracellular matrix remodelling can contribute to an accurate prognosis in kidney transplant recipient</td>
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<td>13:30 – 14:00</td>
<td>Discussion panel with all speakers</td>
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<th>AWARDS CEREMONY &amp; CLOSING</th>
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