

## Day 1: 15 May 2022 | Sunday

**15:00 – 17:30**

### **Pre-Workshop: Single Cell Multimodal Omics?**

Chairs: Anita Chong | Chicago, United States  
 Janine Altmüller | Berlin, Germany

15:00 – 15:20	Multimodal single-cell approaches shed light on T-cell heterogeneity	Ricardo Ferreira   Oxford, United Kingdom
15:20 – 15:40	Single-cell multi-omics profiling to understand disease progression cell-by-cell	Matthias Farlik   Vienna, Austria
15:40 – 16:00	Questions and discussion	
16:00 – 16:30	COFFE BREAK	
16:30 – 16:50	Monitoring genetic stability by single-cell sequencing	Ashley D. Sanders   Berlin, Germany
16:50 – 17:10	Single Cell Transcriptomics in Discovering Novel Cellular Pathways for Kidney Transplant Rejection	Xunrong Luo   Durham, United States
17:10 – 17:30	Discussion panel with all speakers	

**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:              Aravind Cherukuri | Pittsburgh, United States  
 Cees van Kooten | Leiden, The Netherlands

08:30 – 08:50	Autoreactive innate B cells infiltrate kidney allografts undergoing AMR	Anita Chong   Chicago, United States
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	[OP 07] CHANGES OF IMMUNOGLOBULIN E-RECEPTOR POSITIVE CELL SUBSETS AFTER CARDIAC ALLOGRAFT REJECTION IN MICE	Anna Marianne Weijler   Vienna, Austria
09:37 – 09:44	[OP 08] A NOVEL IMMUNOSUPPRESSIVE COMPOUND (79-6) THAT TARGETS BCL6 PREVENTS THE HUMORAL ALLORESPONSE	Rens Kraaijeveld   Rotterdam, The Netherlands
09:44 – 09:51	[OP 09] 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 applications in kidney transplantation	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 – 14:00**      **SATELLITE SYMPOSIUM**

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

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

14:00 – 14:20	Lymph node fibroblastic reticular cells steer immune responses	Jonathan S Bromberg   Baltimore, United States
14:20 – 14:40	Innate lymphoid cells	Andreas Diefenbach   Berlin, Germany
14:40 – 14:47	[OP 14] 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 – 14:54	[OP 15] COMPLEMENT SYSTEM ACTIVATION IN BRAIN DEATH AND THE EFFECT OF LUMINAL INTESTINAL PRESERVATION	Marc Weiss   Aarhus, Denmark
14:54 – 15:30	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  
 Nina Pilat | Vienna, Austria

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

*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.*

*You can also view it via THIS LINK (password: tts pas)*

Liset Pengel | Oxford, United Kingdom

Fadi Issa | Oxford, United Kingdom

*Movie: Picture a Scientist (<https://www.pictureascientist.com/>)*

*PICTURE A SCIENTIST chronicles the groundswell of researchers who are writing a new chapter for women scientists. Biologist Nancy Hopkins, chemist Raychelle Burks, and geologist Jane Willenbring lead viewers on a journey deep into their own experiences in the sciences, ranging from brutal harassment to years of subtle slights. Along the way, from cramped laboratories to spectacular field stations, we encounter scientific luminaries - including social scientists, neuroscientists, and psychologists - who provide new perspectives on how to make science itself more diverse, equitable, and open to all.*

**17:30 – 19:00**

**Networking Event**



**18:00 – 18:30**

**Moderated e-Poster Session 1  
 [POSTER AREA]**

Chairs: Thomas Resch | Innsbruck, Austria

18:00 – 18:05 [POS 80] 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

18:05 – 18:10 [POS 47] *withdrawn*

18:10 – 18:15 [POS 59] *withdrawn*

18:15 – 18:20	[POS 61] CHIMERISM AND BIDIRECTIONAL ALLORESPONSES IN PATIENTS RECEIVING LUNG TRANSPLANTATION	Jianing Fu   New York, United States
18:20 – 18:25	[POS 68] 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	[POS 46] A PIG CROSS-CIRCULATORY PLATFORM FOR MONITORING AND MODULATING THE INNATE RESPONSES IN LUNG GRAFTS.	Matthieu Glorion   Suresnes, France

**18:30 – 19:00**      **Moderated e-Poster Session 2**      **!SESSION TIMING CHANGED!**  
**[POSTER AREA]**

Chairs:                      Bill Scott | Newcastle, United Kingdom

18:30 – 18:35	[POS26] SINGLE CELL ALLOREACTIVE TCR REPERTOIRE PROFILING	Alexandra Sharland   Sydney, Australia
18:35 – 18:40	[POS 33] DONOR-SPECIFIC HYPORESPONSIVENESS FOLLOWING KIDNEY TRANSPLANTATION EXPLAINED BY LOSS OF DONOR-REACTIVE POLYFUNCTIONAL CD4+ EFFECTOR MEMORY T CELLS	Amy van der List   Rotterdam, Netherlands
18:40 – 18:45	[POS 34] DYNAMIC OF DONOR DERIVED CELL-FREE DNA AFTER PANCREAS TRANSPLANTATION	Maria José Ramírez-Bajo   Barcelona, Spain
18:45 – 18:50	[POS 39] NON-INVASIVE METABOLITE-BASED URINE SIGNATURE DETECTS OVER-IMMUNOSUPPRESSION IN RENAL TRANSPLANT RECIPIENTS.	Dirk Kuypers   Leuven, Belgium
18:50 – 18:55	[POS 40] NOVEL AVENUE OF ALLOGRAFT MONITORING: DIRECT MEASUREMENT OF DONOR-DERIVED EXTRACELLULAR VESICLES IN HUMAN PLASMA	Wouter Woud   Rotterdam, Netherlands
18:55 – 19:00	[POS 45] TISSUE BIOENERGETICS DURING THE EARLY PHASE OF NORMOTHERMIC MACHINE PERFUSION OF THE LIVER PREDICTS CLINICAL OUTCOME AFTER TRANSPLANTATION	Andras T. Meszaros   Innsbruck, 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  
Cyril Moers | Groningen, The Netherlands

08:30 – 08:50	Improving outcomes in liver transplantation with HOPE	Zoltan 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

**11:00 – 12:30 Session 6:  
Mechanisms of alloimmunity and tolerance**

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

11:00 – 11:20	The holy grail of (central) tolerance: Generation of MHC/peptide ligands for T cell repertoire selection	Ludger Klein   Munich, Germany
11:20 – 11:40	Selective co-stimulation blockade with antagonist anti-CD28 therapeutics in transplantation	Gilles Blancho   Nantes, France

11:40 – 11:47	[OP 19] GPR109A ACTIVATION IN HUMAN REGULATORY MACROPHAGES ENHANCES INDUCED TREG GENERATION	Laura Cordero   Regensburg, Germany
11:47 – 11:54	[OP 20] INTRINSIC TISSUES FACTORS PREDISPOSE SUSCEPTIBILITY OF ISCHEMIA-REPERFUSION INJURY BY INFLUENCING THE RECRUITMENT OF TREGS INTO KIDNEY ALLOGRAFTS	Zheng Zhang   Chicago, United States
11:54 – 12:30	Discussion panel with all speakers	

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

**13:00 – 14:00 SATELLITE SYMPOSIUM**

**14:00 – 15:30 Session 7:  
 COVID-19 – immunological response to vaccination**

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

14:00 – 14:20	SARS-CoV2 vaccination of adolescent and adult kidney transplant recipients: outcomes after different approaches based on comprehensive humoral-, B- and T cell analysis	Arne Sattler   Berlin, Germany
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
14:40 – 14:47	[OP 21] THREE-DOSE COURSE OF MRNA-1273 COVID-19 VACCINE IN KIDNEY TRANSPLANT RECIPIENTS: EVOLUTION OF CELLULAR AND HUMORAL IMMUNITY	David Cucchiari   Barcelona, Spain
14:47 – 14:54	[OP 22] 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

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

**19:30 – 22:00    Networking Event (offsite)  
Beach Mitte  
Caroline-Michaelis-Str. 8  
10115 Berlin**

*For those who wish to walk together we will be meeting at 19:15 in the lobby of the venue.*



**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

08:30 – 08:50	Organoids and liver regenerative medicine	Luc van der Laan   Rotterdam, The Netherlands
08:50 – 09:10	Kidney organoids	Nuria Montserrat   Barcelona, Spain
09:10 – 09:17	[OP 10] DE NOVO SIX2 ACTIVATION IN HUMAN KIDNEYS TREATED WITH NEONATAL KIDNEY STEM/PROGENITOR CELLS DURING NORMOTHERMIC MACHINE PERFUSION	Fanny Arcolino   Leuven, Belgium
09:17 – 09:24	[OP 11] ADMINISTRATION OF MESENCHYMAL STROMAL CELLS TO REJECTED DONOR LUNGS RESULTS IN REGENERATION AND REDUCTION OF PRIMARY GRAFT DYSFUNCTION	Anna Niroomand   Lund, Sweden
09:24 – 09:31	[OP 12] <i>withdrawn</i>	
09:31 – 09:38	[OP 13] 17B-ESTRADIOL AND METHYLPREDNISOLONE ASSOCIATION AMELIORATES LUNG INFLAMMATION AFTER BRAIN DEATH IN FEMALE RATS	Marina Vidal-dos- Santos   Sao Paulo, Brazil
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  
 Nina Pilat | Vienna, Austria

10:30 – 10:42	[OP 01] TARGETED DELIVERY OF GALUNISERTIB SUPPRESSES FIBROGENESIS IN AN INTEGRATED EX VIVO RENAL TRANSPLANT AND FIBROSIS MODEL	Leonie van Leeuwen   Groningen, The Netherlands
10:42 – 10:54	[OP 02] IMPLICATION OF CD8+ CELLS IN TREG MEDIATED SKIN GRAFT SURVIVAL	Romy Steiner   Vienna, Austria

10:54 – 11:06	[OP 03] RENAL-RESIDENT INNATE LYMPHOID CELLS TYPE 2 ARE LOST FOLLOWING RENAL TRANSPLANTATION AND ARE NOT RESTORED AFTER THERAPEUTIC IL-33 TREATMENT	An He   Berlin, Germany
11:06 – 11:18	[OP 04] REGULATORY T CELLS SUPPRESS MEMORY IL-17A PRODUCTION IN HIGHLY SENSITISED PATIENTS WITH END-STAGE RENAL DISEASE	Caroline Dudreuilh   London, United Kingdom
11:18 – 11:30	[OP 05] THE ROLE OF CHIMERIC ANTIGEN RECEPTOR (CAR) VERSUS ENDOGENOUS CO-STIMULATION IN THE FUNCTION OF ALLOANTIGEN-SPECIFIC TREGS	Isaac Rosado-Sánchez   Vancouver, Canada
11:30 – 11:42	[OP 06] TRANSITIONAL-1 B CELL IL-10/TNFA RATIO RISK-STRATIFIES RENAL TRANSPLANT PATIENTS WITH EARLY BORDERLINE CHANGE	Aravind Cherukuri   Pittsburgh, United States
11:42 – 12:00	Discussion with all speakers	

12:00 – 12:30 BREAK (LIGHT LUNCH)

**12:30 – 14:00 Session 11:  
Biobanks and Bioassays**

Chairs: Maria Kaiser | Oxford, United Kingdom  
 Nina Pilat | Vienna, Austria

12:30 – 12:50	Quality in Organ Donation and Transplantation. From clinical samples to whole organs bioresource	Sarah Cross   Oxford, United Kingdom
12:50 - 13:10	The alloreactive T cell repertoire	Jianing Fu   New York, United States
13:10 – 13:30	Bioassays to determine activity of extracellular matrix remodelling can contribute to an accurate prognosis in kidney transplant recipient	Federica Genovese Herlev, Denmark
13:30 – 14:00	Discussion panel with all speakers	

**14:00 – 14:30 AWARDS CEREMONY & CLOSING**