

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 nucleus sequencing	TBC
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: ttspas)

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 [POSTER AREA]	!SESSION TIMING CHANGED!
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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	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

**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
 Megan Sykes | New York, United States

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	Megan Sykes 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