

35TH

EUROPEAN

IMMUNOGENETICS & HISTOCOMPATIBILITY
CONFERENCE
EFI 2022

AMSTERDAM - THE NETHERLANDS

**TOLERANCE
 ACCEPTANCE &
 PERMISSIVENESS**

MAY 17-20 2022

BEURS VAN BERLAGE

ASSOCIATED MEETINGS

Tuesday 17 May 2022

BLAUWEKAMER

8:30 - 16:00 Standards Committee Meeting
Chairperson: **Katy Latham**

ONTVANGKAMER

8:30 - 16:00 Accreditation Committee Meeting
Chairperson: **Blanka Vidan Jeras**

ADMINISTRATIEZAAL

8:30 - 16:00 Executive Committee Meeting
Chairperson: **Ann-Margaret Little**

MENDEZ DACOSTAKAMER

8:30 - 16:00 External Proficiency Testing Committee Meeting
Chairperson: **Helle Bruunsgaard**

ROLAND HOLSTKAMER

10:00 - 12:00 IT & Bioinformatics Committee Meeting
Chairperson: **Eric Spierings**

14:00 - 17:00 Educational Committee Meeting
Chairperson: **David Turner**

DERKINDERENKAMER

14:00 - 16:00 Scientific Committee Meeting
Chairperson: **Luca Vago**

16:00 - 17:30 Open Meeting of the Population Genetics Workgroup
Chairperson: **Alicia Sanches-Mazas**

SCIENTIFIC PROGRAM

Tuesday 17 May 2022

EFFECTENBEURSZAAL / GRAANBEURSZAAL

OPENING CEREMONY

17:30 - 18:00 Welcome Addresses
Eric Spierings, Sebastiaan Heidt, Ann-Margaret Little

18:00 - 18:20 Julia Bodmer Award
Luca Vago

18:20 - 18:30 HLA Award
Steven Marsh

18:30 - 19:00 Ceppellini Lecture
Ann-Margaret Little

GROTE ZAAL

19:00 - 21:00 Welcome Reception

Wednesday 18 May 2022

EFFECTENBEURSZAAL / GRAANBEURSZAAL

PLENARY SESSION 1

Tolerance in Solid Organ Transplantation

Chairpersons: **Dave Roelen, Silvia Gregori**

8:30 - 09:00 Microbiota and Immunoregulation: a focus on regulatory B Lymphocytes and transplantation
Sophie Brouard

9:00 - 09:30 Regulatory macrophages in solid organ transplantation
James Hutchinson

9:30 - 10:00 The Two study: reducing immunosuppression in renal transplant recipients with the use of Tregs
Fadi Issa

PARALLEL SESSIONS

EFFECTENBEURSZAAL

Special Joint Session EBMT and EFI

Chairpersons: **Katharina Fleischauer, Harry Dolstra**

10:30 - 11:00 Integrated HLA-DPB1 permissiveness models in stem cell transplantation
Katharina Fleischauer

11:00 - 11:30 CAR-T cell therapy: allogeneic versus autologous
Benjamin Reuben

11:30 - 12:00 Allogeneic (CAR)NK-cell adoptive transfer
Harry Dolstra

VEILINGZAAL

Abstract Session: Solid Organ Transplantation 1 (O9-O16)

Chairpersons: **Kirsten Geneugelijk, Gottfried Fischer**

ADMINISTRATIEZAAL

Abstract Session: NK Cells and Reproductive Immunology (O17-O24)

Chairpersons: **Lotte Wieten, John Trowsdale**

GRAANBEURSZAAL

Teaching session: Donor-specific HLA Antibodies - What Can Be Accepted?

Chairpersons: **Ann-Margaret Little, Malte Ziemann, Stefan Schaub**

10:30 - 11:00 Methods for donor HLA antibody detection
Stefan Schaub

11:00 - 11:30 DSA: what is acceptable in stem cell transplantation?
Ann-Margaret Little

11:30 - 12:00 DSA: what is acceptable in solid organ transplantation?
Malte Ziemann



BERLAGEZAAL

10:30 - 12:00 **Hands On Teaching Session: Bioinformatics - Molecular Mismatch Tools in Practice**

Pre-registration required

Chairpersons: **James Robinson, Ben Matern**

EFFECTENBEURSZAAL

13:00 - 13:45 **Industry Sponsored Symposium: CareDx**

GRAANBEURSZAAL

13:00 - 13:45 **Industry Sponsored Symposium: GenDx**

VEILINGZAAL

13:00 - 13:45 **Industry Sponsored Symposium: BAG Diagnostics**

ADMINISTRATIEZAAL

13:00 - 13:45 **Industry Sponsored Symposium: Devyser**

GRAANBEURSZAAL

14:00 - 15:30 **Abstract Session: Immunotherapy, Gene Therapy and New Technologies (O25-O32)**

Chairpersons: **James Traherne, Neema Mayor**

VEILINGZAAL

14:00 - 15:30 **Abstract Session: Bioinformatics (O33-O40)**

Chairpersons: **Nicolas Vince, Martin Maiers**

EFFECTENBEURSZAAL

Teaching session: Non-HLA Antibodies: How Permissible Are They in Transplant Settings?

Chairperson: **Henny Otten**

14:00 - 14:30 Non-HLA antibodies: acquirement and detection
Henny Otten

14:30 - 15:00 Clinical relevance for kidney transplantation: are non-HLA antibodies acceptable?
Maarten Naesens

15:00 - 15:30 Permissiveness of non-HLA antibodies in different transplantation settings
Stefan Berger

BERLAGEZAAL

14:00 - 15:30 **Meet the Expert Session**

Confirmed experts: **Sir Walter Bodmer, Sjaak Neefjes, Steven Marsh**

EFFECTENBEURSZAAL / GRAANBEURSZAAL

PLENARY SESSION 2

Big Data - Systems Biology

Chairpersons: **Irma Joosten, Elissaveta Naumova**

16:00 - 16:30 Cell atlas methods to study tissue-resident immunity
Menna Clatworthy

16:30 - 17:00 Human immunology through the lens of evolutionary genetics
Luis Quintana-Murci

17:00 - 17:30 Computational approaches and air-liquid interface organoids to study immune-mediated human disorders
Vincent van Unen

GRAANBEURSZAAL

17:30 - 20:00 **Moderated Wine and Cheese Poster Session**

Solid Organ Transplantation	P1 – P50
Reproductive Immunology	P51 – P54
Immunotherapy and Gene Therapy	P55 – P58
New Technologies	P59 – P79
Bioinformatics	P80 – P89
Stem Cell Transplantation	P90 – P115
NK Cells and KIR	P116 – P127
MHC, Evolution, Anthropology, Population Genetics	P128 – P160
SARS-CoV-2	P161 – P184
Miscellaneous	P185 – P219

Thursday 19 May 2022

EFFECTENBEURSZAAL / GRAANBEURSZAAL

PLENARY SESSION 3

Tolerance Through Gene Therapy

Chairpersons: **Mats Bengtsson, Antoine Sicard**

8:30 - 09:00 Innovative strategies for kidney bioengineering
Ton Rabelink

9:00 - 09:30 Engineering universal cells to evade immune detection
Rainer Blasczyk

9:30 - 10:00 HLA-specific CAR Tregs in organ transplantation - from bench to bedside
Megan Levings

PARALLEL SESSIONS

EFFECTENBEURSZAAL

Special Session: Acceptable and Unacceptable Antigens in Solid Organ Transplantation

Chairpersons: **Bouke Hepkema, Jean Villard**

10:30 - 11:00 Solid phase assays to determine HLA antibodies: pros and cons
Stefan Schaub

11:00 - 11:30 Utility of the virtual crossmatch in kidney transplantation
David Turner

11:30 - 12:00 Modes of identifying acceptable vs non-acceptable mismatches in kidney transplantation
Nils Lachmann

VEILINGZAAL

10:30 - 12:00 **Abstract Session: Stem Cell Transplantation (O41-O48)**

Chairpersons: **Laura Bungener, Esteban Arrieta Bolaños**

ADMINISTRATIEZAAL

10:30 - 12:00 **Abstract Session: MHC and Anthropology (O49-O56)**

Chairpersons: **Natasja de Groot, Jose Manuel De Abreu Nunes**

GRAANBEURSZAAL

Teaching Session: Tissue-specific Immunity

Chairpersons: **Michael Eijkmans, Arnold van der Meer**

10:30 - 11:00 Mucosal tolerance
Janneke Samson



- 11:00 - 11:30 Tolerance in kidney transplantation
Raphael Duivendoorn
- 11:30 - 12:00 Tolerance in stem cell transplantation
Femke van Wijke

EFFECTENBEURSZAAL

- 13:00 - 13:45 **Industry Sponsored Symposium: Oxford Nanopore Technologies**

GRAANBEURSZAAL

- 13:00 - 13:45 **Industry Sponsored Symposium: Thermo Fischer One Lambda**

VEILINGZAAL

- 13:00 - 13:45 **Industry Sponsored Symposium: Omixon**

ADMINISTRATIEZAAL

- 13:00 - 13:45 **Industry Sponsored Symposium: Immucor**

GRAANBEURSZAAL

- 14:00 - 15:30 **Abstract Session: Solid Organ Transplantation 2 (O57-O72)**

Chairpersons: **Christien Voorter, David Turner**

ADMINISTRATIEZAAL

- 14:00 - 15:30 **Abstract Session: SARS-Cov-2 and Miscellaneous**

Chairpersons: **Ilias Doxiadis, Jill Hollenbach**

BERLAGEZAAL

- 14:00 - 15:30 **Hands on Teaching Session: Permissiveness of DSAs: to Transplant or Not?**

Pre-registration required

Chairpersons: **Christine Voorter, Michael Eikmans, Laura Bungener, Arnold van der Meer**

EFFECTENBEURSZAAL

Teaching Session: Bioinformatics

Chairpersons: **XXX**

- 14:00 - 14:30 Developing bio informatics tools in NGS
Gerhard Schöfl
- 14:30 - 15:00 NGS-based HLA typing in practice
Neema Mayor
- 15:00 - 15:30 TCR sequencing with NGS
Peter de Greef

EFFECTENBEURSZAAL / GRAANBEURSZAAL

PLENARY SESSION 4

Future Perspectives in Stem Cell Transplantation

Chairpersons: **Adriaan van Beek, Luca Vago**

- 16:00 - 16:30 Cell and tissue-specific cellular and molecular mechanisms that influence tolerance vs anti-tumor immunity upon stem cell transplantation
Ronjon Chakraverty
- 16:30 - 17:00 HLA-DQA/DQB permissiveness in stem cell transplantation
Effie Petersdorf
- 17:00 - 17:30 gd-T cells and future perspectives of stem cell transplantation
Jurgen Kuball

EFFECTENBEURSZAAL

- 17:30 - 19:00 **General Assembly**

FRIDAY 20 May 2022

EFFECTENBEURSZAAL

- 8:30 - 10:00 **Best Abstract Session (O1-O8)**
Chairpersons: **Luca Vago, Sebastiaan Heidt, Eric Spierings**

PLENARY SESSION 5

State of the Art: COVID-19

Chairpersons: **Joannis Mytilineos, John Trowsdale**

- 10:00 - 10:30 How the Sars-Cov2 pandemic unfolded
Marc Bonten
- 10:30 - 11:00 Immunogenetics and COVID-19
Jill Hollenbach
- 11:00 - 11:30 Sars-Cov2 peptide presentation and immune response
Juliane Walz

EFFECTENBEURSZAAL

- 12:00 - 13:00 **Special Session: Reports From the 18th IHIWS**
Chairpersons: **Sebastiaan Heidt, Eric Spierings**

EFFECTENBEURSZAAL

CLOSING CEREMONY

Chairpersons: **Sebastiaan Heidt, Eric Spierings, Ann-Margaret Little**

- 13:00 - 13:45 **Neuromagic**
"Neuromagic is a combination of illusionism, psychology, medicine and sleight of hand. While leaving the classical form of magic behind, Victor takes his audience in an entertaining and intelligent way along a range of illusions and neuropsychological experiments. How easily will you be distracted? How do you erase someone's memory? And does a free will actually exist? Find out how easy your own brain and senses are being fooled."
Victor Mids, illusionist and medical doctor
- 13:45 - 14:00 Jon van Rood Award and Best Abstracts Awards
Committee chair: **Frans Claas**
- 14:00 - 14:15 Best Poster Awards
Committee chair: **Kirsten Geneugelijk**
- 14:15 - 14:30 Closing remarks