

International Symposium

“Cellular and molecular mechanisms and new therapeutic concepts in transplantation”

29 - 30 November 2017

Altes Rathaus Hannover

CONFIRMED SPEAKERS

- **Adrian E. Morelli**, University of Pittsburgh
- **Menna Clatworthy**, University of Cambridge
- **Pierre Gianello**, Université Catholique de Louvain, Leuven
- **Jörg Seebach**, Hôpitaux Universitaires Genève
- **Giovanna Lombardi**, King’s College London
- **Wim E. Fibbe**, Leiden University Medical Center
- **Stefan G. Tullius**, Brigham and Women’s Hospital, Boston
- **Alberto Sanchez-Fueyo**, King’s College London
- **Sandy Feng**, University of California, San Francisco
- **Qizhi Tang**, University of California, San Francisco

REQUESTED SPEAKERS

- **Mandy Ford**, Emory University School of Medicine, Atlanta
- **Carl H. June**, University of Pennsylvania
- **Alexandre Loupy**, Hôpital Necker, Paris

And 28 speakers of the organizing German research consortia

SESSIONS

- Innate and adaptive immune responses
- Regulatory and humoral responses
- Xenotransplantation and its translation
- New options in stem cell transplantation
- Cell and gene therapy
- Optimizing graft function and new graft options
- Personalized diagnostic and therapeutic approaches
- New and upcoming clinical trials



INFORMATION AND REGISTRATION

sfb738@mh-hannover.de

EXTERNAL REGISTRATION FEE

EUR 75

Supported by **DFG** Deutsche Forschungsgemeinschaft



THURSDAY, November 30th 2017

SESSION V

Cell and gene therapy

Chair: *Ulrike Köhl (Hannover, Germany)*
Mario Schiffer (Hannover, Germany)

8:30-9:00 *Giovanna Lombardi (London, UK)*
Tregs after transplantation

9:00-9:30 *Wim E. Fibbe (Leiden, Netherlands)*
New therapeutic approaches using MSC

9:30-9:45 *Nathanael Raschzok (Berlin, Germany)*
Cellular concepts for liver regeneration and support

9:45-10:00 *Tobias Cantz (Hannover, Germany)*
Cellular Reprogramming as therapeutic approach for liver disorders

10:00-10:15 *Axel Schambach (Hannover, Germany)*
Innovative transplants based on gene and cell therapy approaches

10:15-10:30 *Britta Eiz-Vesper / Britta Maecker-Kolhoff (Hannover, Germany)*
Broadly applicable virus-specific T cells to treat infections and tumors after transplantation

10:30-11:00 **Coffee break**

SESSION VI

Optimizing graft function and new graft options

Chair: *Johann Pratschke (Berlin, Germany)*
Hermann Haller (Hannover, Germany)

11:00-11:30 *Stefan G. Tullius (Boston, USA)*
Vascularized composite allografts: New developments

11:30-11:45 *Andres Hilfiker (Hannover, Germany)*
From decellularized allogeneic to decellularized xenogeneic heart valve prosthesis

11:45-12:00 *Anette Melk (Hannover, Germany)*
Taking senescence to the next level

12:00-12:30 *Gary Levy (Toronto, Canada)*
Living donation and autologous stem cell transplantation for tolerance induction

12:30-12:45 *Harald Stachelscheid (Berlin, Germany)*
iPS-derived human kidney organoids – biological and immunological challenges

12:45-13:00 *Elke Eggenhofer (Regensburg, Germany)*
Innate effector cells in ischemia reperfusion injury and alloresponses

13:00-14:00 **Lunch break**

SESSION VII

Personalized diagnostic and therapeutic approaches (IFB Session)

Chair: *Björn Nashan (Hamburg, Germany)*
Axel Haverich (Hannover, Germany)

14:00-14:30 *Alberto Sanchez-Fueyo (London, UK)*
Tolerance and its associated biomarkers

14:30-15:00 *Lori West (Edmonton, Canada)*
Garbage to gold: therapeutic regulatory T-cells from discarded human thymus

15:00-15:15 *Thomas Thum (Hannover, Germany)*
Noncoding RNA based diagnostic and treatment strategies in transplantation medicine

15:10-15:30 *Danny Jonigk (Hannover, Germany)*
Morphological and molecular injury patterns of the transplanted lung

15:30-16:00 **Coffee break**

SESSION VIII

New and upcoming clinical trials

Chair: *Bernhard Banas (Regensburg, Germany)*
Jürgen Klempnauer (Hannover, Germany)

16:00-16:30 *Sandy Feng (San Francisco, USA)*
Weaning of immunosuppression



Christmas Market in Hannover's Old Town

16:30-16:45 *Ulrike Köhl (Hannover, Germany)*
CAR expressing effector cells in stem cell transplantation

16:45-17:00 *Matthias Edinger (Regensburg, Germany)*
Donor Treg therapy in acute GVHD

17:00-17:30 *Qizhi Tang (San Francisco, USA)*
Clinical trials using adoptive Treg therapy

17:30-17:40 **Farewell address**
Michael P. Manns (Hannover, Germany)

17:40-19:30 **Visit of Christmas market Hannover**

19:30 **Speaker's dinner**



The Venue: The old Town Hall

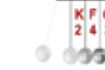
This International Symposium is organized by:



SFB738 "Optimization of conventional and innovative transplants"



Integrated Research and Treatment Center Transplantation (IFB-Tx)



Clinical Research Group KFO 243 "Early immunological determinants of late transplant outcome"



Transregio SFB-TRR127 "Biology of xenogeneic cell and organ transplantation"



SFB 650 "Cellular approaches to a suppression of unwanted immune reactions – from bench to bedside"



"The ONE study" Regensburg



Charité Berlin

MHH

Hannover Medical School



International Symposium

Cellular and Molecular Mechanisms and New Therapeutic Concepts in Transplantation

November 29-30, 2017 Altes Rathaus Hannover



Dear colleagues,

We would like to invite you to the International Symposium "Cellular and molecular mechanisms and new therapeutic concepts in transplantation" organized by five German Collaborative Research Centers (SFB738 "Optimization of conventional and innovative transplants", Integrated Research and Treatment Center Transplantation (IFB-Tx), Clinical Research Goup KFO 243 "Early immunological determinants of late transplant outcome", Transregio SFBTRR127 "Biology of xenogeneic cell and organ transplantation", SFB 650 "Cellular approaches to a suppression of unwanted immune reactions – from bench to bedside"), the European "The ONE study" and the Charité Berlin. The meeting will be held on 29 and 30 November 2017 in Hannover in the Old Town Hall (Altes Rathaus) next to the famous and traditional Hannover Christmas market.

We aim in bringing together national research activities in the field of immunology, regulatory immune responses, xenotransplantation, stem cell transplantation, cell- & gene therapy, new innovative grafts, biomarkers and clinical trials. The meeting is addressed to basic scientists, translational researchers and physicians interested in understanding mechanisms of immune activation and its regulation in the context of transplantation medicine. The topics presented will stretch from basic science to bedside and back. We are happy that fourteen internationally renowned speakers will contribute to the scientific discussion as well as 28 speakers from our national collaborative research centers. The congress fee is sponsored by the collaborative research centers to enable the participation of numerous scientists and students. We encourage participants to submit a poster for our poster session on the evening of 29 November 2017.

We are sure that you will enjoy the atmosphere of the surroundings and we are convinced that a lively scientific debate will take place.

We hope to welcome you in Hannover in November 2017,



Prof. Dr. Michael Manns

Chairman

SFB 738

On behalf of the organizing committee

Dr. Elmar Jaeckel

Scientific Secretary

SFB 738

WEDNESDAY, November 29th 2017

SESSION I

8:45-8:50 **Introduction**
Michael P. Manns (Hannover, Germany)

8:50-9:00 **Welcome address**
Christopher Baum (Hannover, Germany)

Innate and adaptive immune responses (IFB-Session)

Chair: Reinhold Förster (Hannover, Germany)
Reinhold E. Schmidt (Hannover, Germany)

9:00-9:30 Adrian E. Morelli (Pittsburgh, USA)
Exosomes in alloimmune responses

9:30-9:45 Christine S. Falk (Hannover, Germany)
Immunomodulation during ex vivo lung perfusion – a window of opportunity for organ preservation

9:45-10:00 Michael Schmück-Henneresse (Berlin, Germany)
Refined translation – T cell therapy in solid organ transplantation from bench to bedside and back

10:00-10:30 Mandy Ford (Atlanta, USA)
Costimulation blockade: Next generation

10:30-10:45 Birgit Sawitzki (Berlin, Germany)
Targeting mitochondrial functions to reinforce T cell tolerance

10:45-11:00 Matthias Mack (Regensburg, Germany)
Basophils contribute to cardiac allograft fibrosis by release of IL-4

11:00-11:30 **Coffee break**

SESSION II

Regulatory and humoral responses

Chair: Edward K. Geissler (Regensburg, Germany)
Birgit Sawitzki (Berlin, Germany)

11:30-12:00 Menna Clatworthy (Cambridge, UK)
B cell responses after transplantation

12:00-12:15 Elmar Jaeckel (Hannover, Germany)
Regulatory T cells for tolerance induction after transplantation

12:15-12:30 Jochen Huehn (Braunschweig, Germany)
Generation of stable, alloantigen-specific Foxp3+ regulatory T cells

12:30-12:45 James Hutchinson (Regensburg, Germany)
Mechanisms of Mreg development and action

12:45-13:00 Anke Franzke (Hannover, Germany)
Development of immune intervention strategies in allogeneic stem cell transplantation based on donor regulatory T cells

13:00-14:00 **Lunch break**

SESSION III

Xenotransplantation and its translation

Chair: Eckhard Wolf (Munich, Germany)
Heiner Niemann (Mariensee, Germany)

14:00-14:30 Pierre Gianello (Brussels, Belgium)
Islet Xenotransplantation

14:30-14:45 Barbara Ludwig (Dresden, Germany)
Islet cell Tx

14:45-15:00 Heiner Niemann (Mariensee, Germany)
Multi-tg pigs for clinical Xeno Tx

15:00-15:30 Jörg Seebach (Geneva, Switzerland)
Novel Approaches to prevent cellular immune responses to xenografts

15:30-15:45 Jan Abicht (Munich, Germany)
Heart Tx in primates

15:45-16:00 Reinhard Schwinzer (Hannover, Germany)

Immunomodulation by enhancement of inhibitory signals

16:00-16:30 **Coffee break**

SESSION IV

New options in stem cell transplantation

Chair: Arnold Ganser (Hannover, Germany)
Renata Stripecke (Hannover, Germany)

16:30-17:00 Carl H. June (Philadelphia, USA)
CAR-based cell therapies

17:00-17:15 Martin Sauer (Hannover, Germany)
Co-transplantation of CAR-gene engineered precursor T cells leads to suppressed T cell development and increased NK cell-based CAR-mediated anti-leukemic activity

17:15-17:30 Il-Kang Na (Berlin, Germany)
Bone marrow niche defects impair B cell reconstitution after allogeneic hematopoietic stem cell transplantation

17:30-17:45 Christian Könecke (Hannover, Germany)
Prevention of acute Graft-versus-Host Disease after bone marrow transplantation by molecular targeting of anti-apoptotic proteins in donor T cells

17:45-18:00 Ernst Holler (Regensburg, Germany)
Microbiota, antimicrobial peptides and GvHD

18:00-20:30 **Poster session and dinner**

Administrative coordinator of CRC 738:

Petra Huber
Hannover Medical School
Department of Gastroenterology, Hepatology and Endocrinology
Carl-Neuberg Straße 1, 30625 Hannover, Germany
Phone: +49 (0) 511-532 6763; +49 (0)176 15326763
Fax: +49 (0) 511 532 5692
E-mail: SFB738@mh-hannover.de

Pls. register online on www.sfb738.de
Registration fee: EUR 75

CONTACT INFORMATION

Speaker of CRC738:

Prof. Dr. med. Michael P. Manns
Hannover Medical School
Department of Gastroenterology, Hepatology and Endocrinology
Carl-Neuberg Straße 1, 30625 Hannover, Germany

Scientific Secretary of CRC738:

Dr. med. Elmar Jaeckel
Hannover Medical School
Department of Gastroenterology, Hepatology and Endocrinology
Carl-Neuberg Straße 1, 30625 Hannover, Germany

Venue:

Altes Rathaus, Hannover
Karmarschstraße 42, 30159 Hannover, Germany
Phone +49 (511) 3008040
Fax +49 (511) 3008044
www.altes-rathaus-hannover.de



Hotel:

Concorde Hotel am Leineschloss
Am Markte 12, 30159 Hannover, Germany
Phone +49 (511) 357910
Fax +49 (511) 35791100
www.concordehotel-am-leinenschloss.de