

# 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](mailto: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*

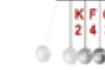
**This International Symposium is organized by:**



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:

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Pls. register online on [www.sfb738.de](http://www.sfb738.de)  
Registration fee: EUR 75

### CONTACT INFORMATION

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#### Scientific Secretary of CRC738:

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