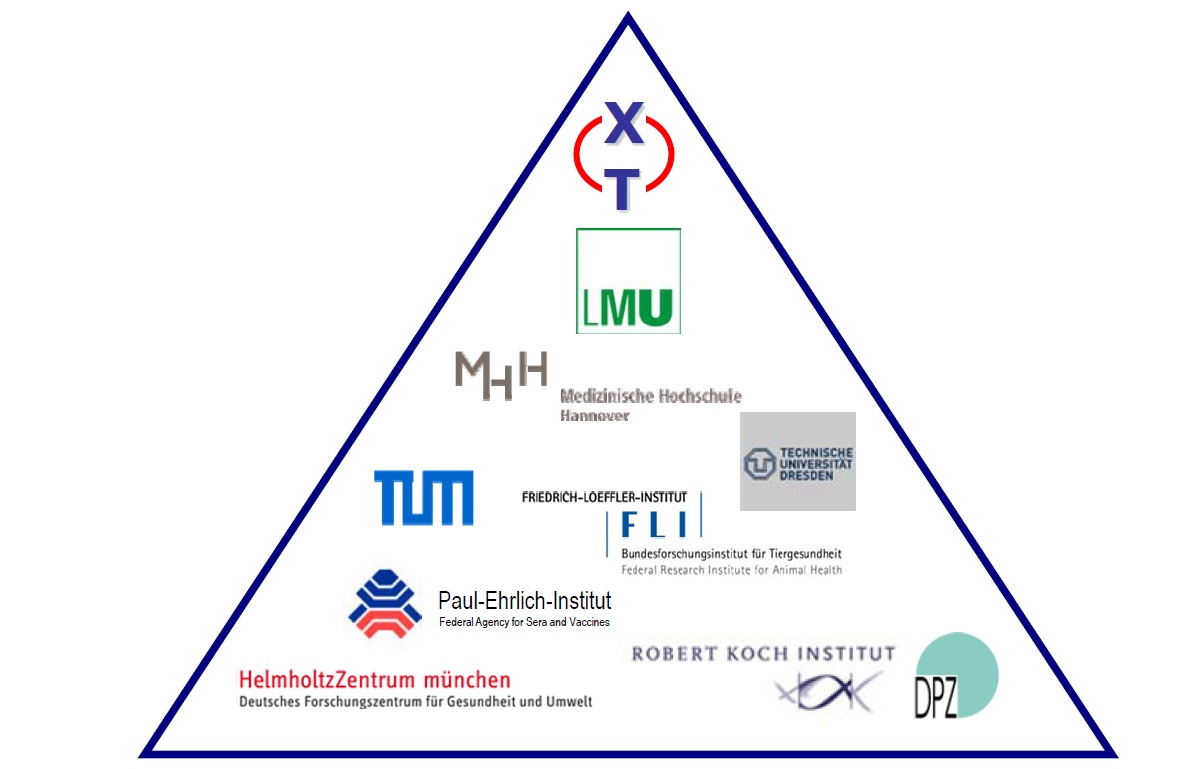
**Transregional Collaborative Research Center 127**



**Biology of Xenogeneic Cell, Tissue and Organ Transplantation –**

**From Bench to Bedside**

**Final Meeting 14.-17.05.2024**

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| **Venice International University**  **San Servolo, Venice, IT**  **https://www.univiu.org/** |

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**Tuesday, 14.05.2025**

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| 18.30 | *G E T T O G E T H E R* |
| 18.45 | Welcome and Introduction - Bruno Reichart, Eckhard Wolf |
| 19.00 | *D I N N E R – with members of the Leducq Excellence Network* |

**Wednesday, 15.05.2024**

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| **Modulating the host-to-xenograft immune response** | |
| 08.30 | **Targeting stimulatory and inhibitory receptor/ligand interactions to diminish human anti-pig immune responses** Reinhard Schwinzer, Constanca Ferreira de Figueiredo (A1) |
| 09.00 | **Local immunomodulation by viral vectors and genetic modifications**Andrea Bähr, Sebastian Michel, Peter Murray, Christian Kupatt (A2) |
| 09.30 | **Immunogenicity of islets of different clinically relevant sources in a preclinical humanized mouse model** Claudia Waskow, Barbara Ludwig, Andreas Linkermann (A5) |
| 10.00 | **Regulatory T cells in xenotransplantation**  Elmar Jaeckel, Fatih Noyan (A4) |
| 10.30 | *C O F F E E* |
| 11.00 | **Immunity, macrophage: T cell cross-talk, self-tolerance, amino acid metabolism** Peter Murray, Max Planck Institute of Biochemistry, Munich |
| 11.30 | **snRNA-seq and spatial transcriptomics to provide new insights into xenotransplant rejection mechanisms** Daniel Reichart, Department of Cardiology, LMU Klinikum, and Gene Center, LMU Munich |
| 12.00 | **N.N.**  Joshua I. Weiner, Columbia University, Department of Surgery |
| 12.30 | L U N C H |
| **Optimizing source pigs for xenotransplantation** | |
| 14.00 | **Modifying the porcine genome for xeno-organ transplantation**  Konrad Fischer, Wilfried Kues (B1&2) |
| 14.30 | **Auckland Island pigs – new source for xenogeneic organ transplantation**  Asghar Ali, Gene Center, LMU Munich |
| 14.40 | **Genetically engineered donor pigs with improved pancreatic islets** Elisabeth Kemter, Anika Böttcher, Nikolai Klymiuk, Eckhard Wolf (B2) |
| 15.00 | **Genetic analysis of PERV**  Nikolai Klymiuk (B2) |
| 15.20 | **Microbiological including virologic safety** Antonia W. Godehardt, Ralf R. Tönjes, Joachim Denner, Benedikt B. Kaufer |
| 16.00 | *C O F F E E* |
| **Exogenesis – cellular humanization of porcine organs** | |
| 16.30 | **Engineering humanized vasculature in a gene edited pig** Daniel J. Garry, University of Minnesota |
| 17.00 | **Exogenous organs for transplantation without rejection** Hiromitsu Nakauchi, Stanford University and Tokyo Medical and Dental University |
| 17.30 | **Overcoming xeno-barriers in human-animal chimera formation** Hideki Makaki, Tokyo Medical and Dental University |
| 18.00 | **Recapitulating porcine cardiac development in vitro: from expanded potential stem cell to embryo culture models** Monika Nowak-Imialek, Technical University of Munich |
| 19.00 | *D I N N E R* |

**Thursday, 16.05.2024**

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| **Xenogeneic and allogeneic beta-cell replacement strategies** | |
| 08.30 | **Comparative developmental biology of murine, porcine and human islets**  Heiko Lickert, Helmholtz Munich |
| 09.00 | **Optimization of porcine neonatal islet like cell clusters for clinical transplantation therapy**  Stephan Speier, Christian Cohrs, Elisabeth Kemter (C1) |
| 09.30 | **Treatment of type 1 diabetes with porcine islet cells: transplantation of multi-transgenic islets expressing immunomodulatory molecules**  Lelia Wolf-van Buerck, Jochen Seissler (C3) |
| 10.00 | **Optimizing porcine islet macroencapsulation for the treatment of patients with insulin-dependent diabetes mellitus**  Barbara Ludwig, Stefan Bornstein, Rocio Sancho Zapatero, Petra Welzel (C4) |
| 10.30 | *C O F F E E* |
| **Gene and cell therapies of cardiac and skeletal muscle** | |
| 11.00 | **Humanized skeletal muscle in pig** Mary G. Garry, University of Minnesota |
| 11.30 | **Gene therapy of Duchenne muscular dystrophy** Christian Kupatt, Technical University of Munich |
| 12.00 | **Designer cells for cardiac regeneration**  Alessandra Moretti, Technical University of Munich |
| 12.30 | *L U N C H* |
| **Xenotransplantation of heart valves and hearts** | |
| 14.00 | **Preclinical assessment of antigen-reduced decellularized porcine heart valves** Andres Hilfiker, Serghei Cebotari, Falk Büttner, Heiner Niemann |
| 14.30 | **Steps to clinical xenogeneic cardiac replacement**  Matthias Längin, Jan-Michael Abicht, Paolo Brenner, Bruno Reichart |
| 15.00 | **Cardiac xenotransplantation in humans**  Muhammad M. Mohiuddin, University of Maryland School of Medicine |
| 16.00 | *C O F F E E* |
| **Ethical, legal and societal implications** | |
| 16.30 | **Ethical, legal, psychosocial, and societal issues of xenotransplantation and exogenesis** Georg Marckmann, Jochen Sautermeister, Nils Hoppe |
| 17.45 | **Finances and reporting**  Dorothea Marquardt, Eckhard Wolf |
| 18.00 | **Views back and views ahead**  Bruno Reichart, Eckhard Wolf |
| 19.00 | *D I N N E R* |

**Friday, 17.05.2024**

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| 09.00 | Venice Tour |
| 12.30 | *L U N C H* |
| 13.30 | End of the Meeting |