

1. Heart Failure and Cardiovascular Regeneration

Research Area: Heart Failure with Preserved Ejection Fraction and Cardiac Amyloidosis

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Projects and Project Leaders:

„Heart Failure with Preserved Ejection Fraction in Patients after Successful Surgical Aortic Valve Replacement“

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„Recurrent Heart Failure Hospitalizations in Patients with Preserved Ejection Fraction: Predictors and Outcome“

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„A Machine Learning-Derived Electrocardiographic Algorithm for the Detection of Cardiac Amyloidosis: A Prospective Multicenter Validation Study“

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„Safety of Oral Anticoagulants in Patients with Atrial Fibrillation and Transthyretin-Amyloid-Cardiomyopathy“

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„Artificial Intelligence for the Diagnosis and Management of Heart Failure“

Project Leader: Dr.med.univ. René Rettl

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Research Area: Remodeling and Reverse Remodeling

Team Leader: Univ.-Prof. Dr. Bruno Podesser

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Projects and Project Leaders:

„Small Diameter Vascular Grafts“

Project Leader: Ao.Univ.-Prof. Mag. Dr.med.univ. Dr.med.vet. Helga Bergmeister

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„Extracellular Matrix Materials from Human Placenta for Cardiovascular Tissue Engineering and Repair“

Project Leader: Dipl.-Ing. Dr. Karl Schneider

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„Cardiovascular Phenotype of the Dmdmdx rat – a Suitable Animal Model for Duchenne Muscular Dystrophy“ and „Characterization of Left Ventricular Dysfunction in Chronic TNF-Mediated Experimental Arthritis“

Project Leader: Dr.phil. Attila Kiss

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Research Area: Biomaterials for Cardiovascular Devices & Prostheses

Team Leader: Ao. Univ.-Prof. Dipl.-Ing. Dr. Heinrich Schima; Assoc.Prof. Dipl.-Ing. Dr. Francesco Moscato; Ao.Univ.-Prof. Mag. Dr.med.univ. Dr.vet.med. Helga Bergmeister

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Projects and Project Leaders:

Projects and Project Leaders:

„Nanostructured Biomaterials for Cardiovascular Implants“

Project Leader: Ao.Univ.-Prof. Mag. Dr.med.univ. Dr.med.vet. Helga Bergmeister, Dipl.-Ing.(FH) Christian Grasl Ph.D.

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"Coating of stents"

Project Leaders: a.o.Univ.Prof. DI Dr. Heinrich Schima, Dipl.-Ing.(FH) Christian Grasl Ph.D.

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„Mechanical Characterization and Tests for Cardiovascular Implants"

Project Leader: Dipl.-Ing. (FH) Martin Stoiber

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Nanomicrostructured surfaces for enhanced hemocompatibility within the "Optiflow3D project"

Project Leaders: Assoc. Prof. Dipl.-Ing. Dr. Francesco Moscato; Dipl.-Ing.(FH) Christian Grasl Ph.D., Assoc. Prof. Priv.-Doz. Mag. PhD Barbara Messner

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Research Area: Short Term Mechanical Circulatory Support

Team Leaders: Assoc. Prof. Priv.-Doz. Dr. Dominik Wiedemann; Assoc. Prof. Priv.-Doz. Dr. PhD Georg Goliash; Ao.Univ.-Prof. Dr.med.univ. Michael Holzer

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Project and Project Leaders:

„Interdisciplinary Database for Short Term Mechanical Circulatory Support (ICLS)“

Project Leaders: Dr.med.univ. Anne-Kristin Schäfer; Assoc. Prof. Priv.-Doz. Dr. PhD Klaus Distelmaier; Dr. Michael Poppe; Dr. Ingrid Magnet

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Research Area: Heart Failure with Reduced Ejection Fraction

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Projects and Project Leaders:

„PONTIAC II (NT-proBNP Selected PreventiOn of cardiac eveNts in a populaTion of dIabetic patients without A history of Cardiac disease: a randomized prospective international multicenter study)“

Project Leader: Priv.-Doz. Dipl.-Ing. Dr. PhD Noemi Pavo

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„Alpin-HF“ (Alprostadint in Heart Failure: a Double Blinded Prospective Randomized International Multicenter Study“

Project Leader: Priv.-Doz. Dipl.-Ing. Dr. PhD Noemi Pavo

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„Cardiac Biomarkers in Oncology“

Project Leader: Priv.-Doz. Dipl.-Ing. Dr. PhD Noemi Pavo

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„EKG-Veränderungen und deren Bedeutung für das Überleben von Tumorpatienten“

Project Leader: Dr.med.univ. PhD Maria Frey

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„Peritoneal Dialysis in End-Stage Heart Failure“

Project Leader: Priv.-Doz. Dipl.-Ing. Dr. PhD Noemi Pavo

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„Neurohumoral Patterns in Heart Failure – an Avenue for Precision Medicine?“

Project Leader: Priv.-Doz. Dipl.-Ing. Dr. PhD Noemi Pavo

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„Neurohumoral Memory in End Stage Heart Failure Patients Undergoing Heart Transplantation or LVAD Implantation“

Project Leader: Priv.-Doz. Dipl.-Ing. Dr. PhD Noemi Pavo

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„The Adipositas Paradox in Patients with Heart Failure and Diabetes“

Project Leader: Bakk.rer.nat. Dr.med.univ. Suriya Prausmüller

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„Circulating RAS Regulation vs. Myocardial Tissue RAS Regulation in End Stage Heart Failure Patients“

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„Neprilysin Regulation in Patients with Advanced Heart Failure (- Awarded for CVC Translational Synergy Grant 2020)“

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„Circulating and Imaging Biomarker for a Unified Understanding of Heart Failure“

Project Leader: Bakk.rer.nat. Dr.med.univ. Georg Spinka

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„Cardiac Specific Effects by SGLT2-Inhibition in Heart Failure with Reduced Ejection Fraction“

Project Leader: Dr.med. Univ. PhD Henrike Arfsten

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Research Area: Noncoding RNAs in Cardiovascular Regeneration, Role of Network Medicine

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Projects and Project Leaders:

„Comparative Effect of Bone Marrow Derived MSC or MSC Secretome on Hypoxic Cardiomyocytes“

Project Leader: BSc. Nina Kastner

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„Long Term in Vivo Tracking of PET-Reporter Gene Transfected Xenogeneic Porcine Mesenchymal Stem Cells Seeded on Tissue-Engineered Heart Valve Implanted in Sheep“

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„Development of an Enhanced CRT Device with Implanted Blood Pressure, Respiration, pH and Gas Pressure Sensors in a Large Animal Model“

Project Leader: Dr.med.univ. Andreas Spannbauer

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„Inflammation and Stem Cell Markers in Pediatric Implants for Treatment of Congenital Heart Disease“ and „Metabolic-Function Mismatch of Infarcted Myocardium Predicts Worse Long-Term Outcome“

Project Leader: Ena Hašimbegović, MD, PhD

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„Identifying of Circulating miRNAs Responsible for Acute Myocardial Ischemia-Related Malignant Ventricular Arrhythmias in a Translational Study“

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„Deep RNA-Sequencing Identified a Novel Circular RNA, circ-RCAN2 in Pig Hearts with Potential Regulatory Functions in Acute Myocardial infarction“

Project Leader: MSc. Julia Mester-Tonczar

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„Differences in Myocardial Fibrosis Phenotypes Based on Disease-Relevant Gene Expression“

Project Leader: Dominika Lukovic, PhD mgr.

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„Analysis of Myocardial Samples and Explanted Materials from the Pediatric Patients with Complex Cardiac Diseases Registry (PETTICOAT)“

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Research Area: Engineering and Outcome Research for Mechanical Circulatory Support

Team Leaders: Ao. Univ.-Prof. Dipl.-Ing. Dr. Heinrich Schima & Assoc. Prof. DI Dr. Francesco Moscato; Univ. Prof. PD. Dr. Daniel Zimpfer, MBA, FECS; Assoc.Prof.Dr. Dominik Wiedemann

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Projects and Project Leaders:

„VAD (Ventricular Assist Device)-Outcome Research and Early Adverse Event Detection“

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„Noninvasive Diagnostics of Fully Magnetically Levitated Blood Pumps“

Project Leader: MSc. Thomas Schlöglhofer; BSc. Theodor Abart

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„Eye-Tracking Supported Simulation and Human Factors Engineering of Mechanical Circulatory Support Devices“

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„Left Ventricular Assist Device Driveline Feature Characterization and Cold Atmospheric Plasma Treatment for Wound Infections“

Project Leader: MSc. Thomas Schlöglhofer

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„Evaluation of Response to Aspirin Platelet Therapy in Left Ventricular Assist Device Patients“

Project Leader: MSc. Thomas Schlöglhofer; Assoc.-Prof. Priv. Doz. Mag. Dr. Barbara Messner

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„Feedback Control of Cardiac Assist Devices“

Project Leader: Assoc.Prof. DI Dr. Heinrich Schima

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„Optimization of VAD-Positioning Strategies Using 3D-Modelling“

Project Leader: MSc. Philipp Aigner; Assoc. Prof. Dipl.-Ing. Dr. Francesco Moscato

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„Patient monitoring with wearable devices“

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„Influence of Renal Function on Outcomes after Implantation of Durable Ventricular Assist Devices“

Project Leader: [Dr.med.univ. Roxana Moayedifar](#)

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„Development and Evaluation of Minimally Invasive Techniques for Ventricular Assist Device Implantation“

Project Leader: [Dr.med.univ. Julia Riebandt](#)

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„Diagnosis and Treatment of Ventricular Assist Device Thrombosis“

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Research Area: Innovationen der Herztransplantation bzw. klinische und translationelle Innovation im Bereich HTX

Team Leader: Ao.Univ.-Prof. Dr.med.univ. Andreas Zuckermann

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Projects and Project Leaders:

„DCD (Donation after Circulatory Death)“

Project Leader: Assoc. Prof. Dr.med.univ. Arezu Aliabadi-Zuckermann

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„MMDX (das molekulare Mikroskop bei Herztransplantation)“

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„Spenderanalyse“

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„HLA-Epitope“

Project Leader: Dr.med.univ. Emilio Osorio Jaramillo

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„Personalized Immunosuppression (TTV, Fast Metabolizer, CF-Donor-DNA)“

Project Leader: Dr. Keziban Uyanik Ünal Enise Ceran

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„Organprotektion (Maschinenperfusion; transport devices)“

Project Leader: Assoc. Prof. Dr.med.univ. Arezu Aliabadi-Zuckermann

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„AB0 inkompatible HTX“

Project Leader: Ao.Univ.-Prof. Dr.med.univ. Nina Worel

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„Sensibilisierung, Antikörper medierte Abstossung (AMR)“

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„Extracorporeal Photopheresis“

Project Leader: Dr.med.univ. Johannes Gökler

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„Heart-Transplant Biobank and Cell-Free Donor DNA Driven Analysis of Rejection“

Project Leaders: Dr. Kathrin Freystätter, BSc.; Assoc. Prof. PD Dr. Martin Andreas, MBA, PhD, MEBCTS

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Research Area: Infarct-Network

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Project and Project Leader:

„Infarct-Network: Non-Randomized Evidence in Cardiovascular Clinical Research“

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Research Area: Coronary Artery Diseases and Tissue Engineering

Team Leader: Assoc.-Prof. Priv.-Doz. Mag. PhD. Barbara Messner

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Project and Project Leader:

„Establishment of a Novel and Structure Preserving Decellularization Method for off-the-Shelf Vessels Usable in Cardiac Surgery“

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