

October 20<sup>th</sup>, 2021

9 <sup>00</sup> - 10 <sup>45</sup>	<b>Translational Session II</b> <i>Christoph Schmitz, Karl-Ludwig Laugwitz</i> „Latest TAVI trends“ <i>Sabine Bleiziffer</i> (HDZ NRW, Bad Oeynhausen, Germany) „Right ventricle as outcome predictor for transcatheter valve procedures“ <i>Jakob Ledwoch</i> (München Klinik Neuperlach, Germany) „Ventricular tachycardias - treatment options in prevention of sudden death“ <i>Petra Hoppmann (MRI, TU Munich, Germany)</i> „Update SCAFFOLDS" - status quo resorbable stents in interventional therapies“ <i>Jens Martin (Biotronik, Berlin, Germany)</i> „Novel tools and models for gene and cell therapy“ <i>Wolfgang Wurst</i> (HelmholtzZentrum, Munich, Germany) „CUREPLaN: focus on treatment options“ <i>Pieter A. Doevendans (UMC Utrecht, Netherlands)</i>
10 <sup>45</sup> - 11 <sup>00</sup>	<b>Coffee break</b>
11 <sup>00</sup> - 12 <sup>15</sup>	<b>DFG/ANR Session II</b> <b>MIF proteins in other kingdoms: evolution, mechanisms &amp; applications</b> <i>Elias Lolis, Harald Keller</i> „MIFs in fungal pathogenesis“ <i>Karlheinz Kogel (JLU Gießen, Germany)</i> „Exploring functions and mechanisms of plant MIF“ <i>Ralph Panstruga (RWTH Aachen, Germany)</i> „eIF3-mediated protein quality control promotes mitochondrial homeostasis and muscle health“ <i>Dieter Wolf (MRI, TU Munich, Germany &amp; Xiamen University, China)</i>
12 <sup>15</sup> - 12 <sup>30</sup>	<b>Closing remarks</b> <i>Sabine Steffens, Jürgen Bernhagen, Christian Kupatt</i>
13 <sup>00</sup> - 17 <sup>00</sup>	<b>Business meeting of the ANR/DFG MIF-X-Kingdom Consortium</b> <i>Panstruga, Bernhagen, Kogel, Keller and teams</i>

**Official event organizer:**

Klinikum rechts der Isar (TU Munich)  
Ismaninger Straße 22  
81675 Munich

**Persons in charge:**

Prof. Dr. Christian Kupatt (MRI, TU Munich, Germany)  
[christian.kupatt@tum.de](mailto:christian.kupatt@tum.de)  
Prof. Dr. Sabine Steffens (LMU Munich, Germany)  
[sabine.steffens@med.uni-muenchen.de](mailto:sabine.steffens@med.uni-muenchen.de)  
Prof. Dr. Jürgen Bernhagen (LMU Munich, Germany)  
[juergen.bernhagen@med.uni-muenchen.de](mailto:juergen.bernhagen@med.uni-muenchen.de)

**Hybrid event in cooperation with the LMU Munich and the Venice International University on-site.**

**Funded by public & industrial partners:**



Sardocor Corp. (8.600 €), Edwards Lifesciences Corporation (5.000 €), Bristol-Myers Squibb (4.100 €), Alnylam Germany GmbH (4.000 €), Abiomed Europe GmbH (2.000 €), Lilly Deutschland GmbH (1.800 €), Biotronik SE & Co. KG (1.500 €), Siemens Healthcare GmbH (1.500 €), AstraZeneca GmbH (1.000 €), Zoll CMC GmbH (1.000 €), Eppendorf AG (300 €).

Approved as certificated training course for physicians by the the Bavarian Medical Board (<https://www.blaek.de/>);  
SNR 1130128.

**Registration to online participation:**

<https://entscheiderfabrik.com/form/code-login-9th-cardiac-regenerat>

# 9<sup>th</sup> Cardiac Regeneration and Vascular Biology Conference

San Servolo, Venice  
on-site & online

October 18<sup>th</sup>-20<sup>th</sup>, 2021



## October 18<sup>th</sup>, 2021

12 <sup>00</sup> - 12 <sup>15</sup>	<b>Opening remarks</b> <i>Sabine Steffens, Jürgen Bernhagen, Christian Kupatt</i>
12 <sup>15</sup> - 14 <sup>00</sup>	<b>Cardiovascular Session I</b> <i>Rabea Hinkel, Christian Kupatt</i> „Arteriogenesis by VEGF-titration“ <i>Ferdinand LeNoble (KIT Karlsruhe, Germany)</i> „Regulation of tertiary lymphoid structure formation by blood vessels“ <i>Florian Limbourg (MH Hannover, Germany)</i> „Microvesicles as signaling hubs“ <i>Gianluigi Condorelli (Humanitas Milano, Italy)</i> „Metabolic control of angiogenesis“ <i>Massimo Santoro (University of Padua, Italy)</i> „Cardiac stromal cells in fibrosis versus angiogenesis“ <i>Jean-Sébastien Hulot (Paris Cardiovascular Research Center, France)</i>
14 <sup>00</sup> - 15 <sup>30</sup>	<b>IRTG 1123 Joined Session I</b> <b>Mechanisms of atherosclerosis</b> <i>Sabine Steffens, Valentina Paloschi</i> „Neutrophils – key players in atherosclerosis“ <i>Carlos Silvestre-Roig (WWU Münster, Germany)</i> „An unbiased view of inflammasomes in atherosclerosis“ <i>Peter Duewell (UK Bonn, Germany)</i> „The balance of life and death in the vessel wall“ <i>Katey Rayner (Ottawa Heart Institute, Canada)</i> „Adipose inflammation in diabetes and atherosclerosis“ <i>Alexander Bartelt (LMU Munich, Germany)</i>
15 <sup>30</sup> - 17 <sup>00</sup>	<b>Coffee break and Poster Session I</b>
17 <sup>00</sup> - 18 <sup>00</sup>	<b>IRTG 1123 Joined Session II</b> <b>Young investigator competition</b> <i>Katey Rayner, Lars Maegdefessel &amp; Alex Bartelt</i> „Investigating the cellular and molecular mechanisms involving ADAMTS7 in atherosclerosis“ <i>Amin Sharifi (LMU Munich, Germany)</i> „The MIF homolog MIF-2/D-DT in atherosclerosis: causal player and role in metabolism“ <i>Chunfang Zan (LMU Munich, Germany)</i>

„JAK2VF617-dependent clonal hematopoiesis leads to a prothrombotic phenotype in atherosclerosis by accelerated platelet-production and -neutrophil-interaction“  
*Ul Ain Quarrat (LMU Munich, Germany)*

„Mammalian Sterile-20 Like Kinase1 controls neutrophil homeostasis through regulation of G-CSF receptor signaling“  
*Sergi Masgrau-Alsina (LMU Munich, Germany)*

18<sup>00</sup> - 19<sup>00</sup> **DZHK Keynote Lecture**  
*Christian Kupatt*  
„Modelling of complex genetics in iPSC models“  
*Alessandra Moretti (MRI, TU Munich, Germany)*

## October 19<sup>th</sup>, 2021

9 <sup>00</sup> - 10 <sup>30</sup>	<b>DFG/ANR Session I</b> <b>MIF proteins in inflammation and cardiovascular disease</b> <i>Session Chair: Seamas Donnelly</i> „MIF proteins in health & disease“ <i>Richard Bucala (Yale University, New Haven, USA)</i> „MIF proteins, early age and innate immunity“ <i>Thierry Roger (CHUV, Lausanne, Switzerland)</i> „3D structures of MIF proteins, their receptors and inhibitor complexes“ <i>Elias Lolis (Yale University, New Haven, USA)</i> „MIF & the lung“ <i>Seamas Donnelly (Trinity College Dublin, Ireland)</i>
10 <sup>30</sup> - 10 <sup>45</sup>	<b>Coffee Break</b>
11 <sup>00</sup> - 12 <sup>30</sup>	<b>DZHK Session I</b> <b>New trends and technologies</b> <i>Karl-Ludwig Laugwitz, Alessandra Moretti</i> „Genetic risk in coronary artery disease – novel therapeutic targets“ <i>Thorsten Kessler (German Heart Center, TU Munich, Germany)</i> „The extracellular matrix protein Agrin improves MI outcome in pigs“ <i>Andrea Bähr (MRI, TU Munich, Germany)</i> „Engineered human myocardium for heart repair“ <i>Malte Tiburcy (UMC Goettingen, Germany)</i>

„Targeting non-coding RNAs for vascular cell therapy“  
*Lars Maegdefessel (MRI, TU Munich, Germany)*

12 <sup>30</sup> - 14 <sup>00</sup>	<b>Lunch break and Poster Session II</b>
14 <sup>00</sup> - 15 <sup>45</sup>	<b>Translational Session I</b> <i>Nikolai Klymiuk</i> „Novel vector systems for effective gene therapy“ <i>Roger Hajjar (Flagship, Cambridge, MA, USA)</i> „RNAi therapeutics for cardiac regeneration“ <i>Mauro Giacca (King's College London, UK)</i> „Novel aspects in pacemaker cell and cardiomyocyte programming“ <i>Robert David (RTC, University Rostock, Germany)</i> „RNAi therapy – future-orientated approaches“ <i>Eimo Martens (MRI, TU Munich, Germany)</i> „Interplay of nervous and immune system in hypertension and heart failure“ <i>Daniela Carnevale (Sapienza University of Rome, Italy)</i> „Gene therapy in rare diseases“ <i>Oliver Müller (UMC Kiel, Germany)</i> „Thrombo-inflammation in cardiovascular disease“ <i>Meinrad Gawaz (Medizinische Universitätsklinik Tübingen, Germany)</i>
15 <sup>45</sup> - 16 <sup>00</sup>	<b>Coffee break</b>
16 <sup>00</sup> - 17 <sup>30</sup>	<b>Innovative reperfusion therapeutics Session I</b> <i>Richard Bucala</i> „CD98-mediated vascular cell proliferation“ <i>William Boisvert (University of Hawaii School of Medicine, Honolulu, USA)</i> „Tailored approaches to treat cardiac fibrosis“ <i>Thomas Thum (IMTTS, Hannover Medical School, Germany)</i> „miR-21 as a therapeutic target in heart failure“ <i>Deepak Ramanujam (MRI, TU Munich, Germany)</i> „Cardiac regenerative therapies - from animal models to clinical trials“ <i>Eldad Tzahor (Weizmann Institute of Science, Rahot, Israel)</i>
19 <sup>00</sup>	<b>Social event</b> (all participants) venue: restaurant “Antica Locanda Montin”