

Friday, 05.11.2021

Sponsors:

09:30 - 11:30 **COVID19 – impact on microvascular and cardiac function**
Chairs: Andre Fischer, Ed Eringa

09:30 - 10:00 **Stefanie Dimmeler**
Key note: Single cell analysis to decipher endothelial responses to injury

10:00 - 10:20 **Maximilian Ackermann**
COVID19: vascular inflammation, thrombosis and intussusceptive angiogenesis

10:20 - 10:40 **Liz Jones**
Microvascular changes in the COVID infected heart

10:40 - 11:00 **Stefan Pöhlmann**
SARS-CoV-2 entry into cells and its inhibition

11:00 - 11:20 **Wolfram Zimmermann**
COVID19 Induced Heart Muscle Damage

11:20 - 11:30 Selected talk from abstracts

11:30 - 12:30 Coffee - Lunch Break

12:30 - 15:00 **Biomechanics in the cardiovascular system**
Chairs: Christian Kupatt, Johannes Backs

12:30 - 13:00 **Christopher Chen**
Key note: Mechanoregulation of structure and function: a story of adhesions and the cytoskeleton

13:00 - 13:10 Selected talk from abstracts

13:10 - 13:20 Selected talk from abstracts

13:20 - 13:30 Selected talk from abstracts

13:30 - 14:00 **Carlijn Bouten**
Key note: Scaffold-driven in situ vascular tissue engineering

14:00 - 14:10 Selected talk from abstracts

14:10 - 14:20 Selected talk from abstracts

14:20 - 14:30 Selected talk from abstracts

14:30 - 15:00 **Stephan Huvneers**
Key note: Endothelial stiffness in health and disease

Award ceremony for best poster, best oral communication Announcement of 2022 GfMVB meeting in Berlin Announcement of the International Vascular Biology meeting (IVBM) 2024 in Amsterdam, The Netherlands



SARTORIUS

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Joint Vascular Biology meeting 2021

German Society
for Microcirculation and Vascular Biology
&
Netherlands Vascular
Biology Organization

03. – 05.11.2021
Göttingen / Germany





Wednesday, 03.11.2021

12:00 - 12:45	Welcome and registration
12:45 - 13:00	Opening, Rabea Hinkel and Ferdinand le Noble
13:00 - 15:00	Seeing is believing – emerging imaging modalities Chairs: Axel Pries
13:00 - 13:10	Introduction of Nobel Laureate by Prof. Axel Pries and Stefan Treue
13:10 - 13:50	Stefan Hell , Nobel Laureate: Molecular resolution in fluorescence microscopy Key Note: novel imaging modalities
13:50 - 14:10	Friedemann Kiefer Regional lymphatic vessel specializations
14:10 - 14:30	Katie Bentley Mouse retinal cell behaviour in 3D/4D using light sheet microscopy
14:30 - 14:50	Jan Huisken Fast and gentle imaging of vascular patterning in zebrafish with light sheet microscopy
14:50 - 15:00	Selected talk from abstracts
15:00 - 15:30	Coffee Break
15:30 - 16:00	Shahin Rafii (USA) Key Note: Engineering adaptable and Hemodynamic Human Endothelial Cells for Organogenesis Chairs: Karina Yaniv, Florian Limbourg
16:00 - 17:30	Molecular control of endothelial cell behavior Chairs: Liz Jones, Ferdinand le Noble
16:00 - 16:20	Lars Jakobsson Arteriovenous malformation - learning from individual cells
16:20 - 16:40	Sarah de Val Using gene enhancers to understand vessel development in the heart and beyond
16:40 - 17:00	Rui Benedito Exclusionary zoning during angiogenesis
17:00 - 17:20	Katrien de Bock Endothelial metabolism in the muscle microenvironment
17:20 - 17:30	Selected talk from abstracts

17:30 - 18:00	Coffee Break
18:00 - 18:30	Jim Faber Key Note: Collaterals—nature's endogenous bypass vessels: physiology, genetics and Darwin Chair: Ferdinand le Noble, Jaap van Buul
18:30 - 20:30	Poster Session 1: including drinks and snacks. Location: DPZ foyer and side-rooms Poster judges: board members of GfMVB & NVBO
>20:00	Drinks, PhD/PostDoc party

Thursday, 04.11.2021

09:00 - 11:00	Coronary vascular remodeling and cardiac regeneration Chairs: Ebba Brakenhielm, Guido Krenning
09:00 - 09:30	Jeroen Bakkers Key Note: Heart regeneration: Lessons from zebrafish
09:30 - 09:50	Andrew Baker Defining mechanisms that control vascular remodeling
09:50 - 10:10	Riikka Kivelä Remodeling of the cardiac endothelial cell transcriptome by cardiovascular disease risk factors and exercise
10:10 - 10:30	Eldad Tzahor Fixing a broken heart
10:30 - 10:40	Selected talk from abstracts
10:40 - 10:50	Selected talk from abstracts
10:50 - 11:00	Selected talk from abstracts
11:00 - 11:30	Coffee Break
11:30 - 13:00	Therapeutic targeting of vascular networks Chairs: Sara de Val, Friederike Cuello
11:30 - 11:50	Paul Quax 14Q32 microRNAs and snoRNAs in the regulation of ischemia driven neovascularization
11:50 - 12:10	Christian Kupatt When microvessels shrink.... Reasons and remedies of capillary rarefaction
12:10 - 12:30	Tim Chico Therapeutic targeting of neurovascular coupling using novel zebrafish models

12:30 - 12:50	Niels Riksen Innate immune cell reprogramming in atherosclerosis
12:50 - 13:00	Selected talk from abstracts
13:00 - 15:00	Lunch Break & Poster Session 2
15:00 - 16:00	Hermann Rein Award Chairs: Rabea Hinkel, Ferdinand le Noble, Bodo Levkau, HRA judges
15:00 - 15:20	HR award-1 Selected talk from HRA application
15:20 - 15:40	HR award-2 Selected talk from HRA application
15:40 - 16:00	HR award-3 Selected talk from HRA application

16:00 - 18:45	Aletta Jacobs award session Chairs: Kristina Lorenz, Bianca Nitzsche, Laura Zelarayan-Behrend
16:00 - 16:30	Christina Ruhrberg Key note: Semaphorin regulation of organ vascular development
16:30 - 16:50	Ebba Brakenhielm Cardiac lymphangiogenesis in cardiovascular diseases – influence of gender
16:50 - 17:10	Susanne Fleig Loss of endothelial Notch signaling promotes tertiary lymphoid structure formation in parenchymatous organs
17:10 - 17:30	Karina Yaniv (Israel) Vascular control of organ growth and regeneration
17:30 - 17:45	Coffee Break
17:45 - 18:15	Introduction Aletta Jacobs award session for junior researchers Chair: Ferdinand le Noble, Susanne Lutz
17:45 - 17:55	AJ award-1 Selected talk from abstracts
17:55 - 18:05	AJ award-2 Selected talk from abstracts
18:05 - 18:15	AJ award-3 Selected talk from abstracts
18:15 - 18:45	Kristy Red-Horse Key note: Modeling blood flow in regenerating and non-regenerating hearts Chair: Susanne Lutz
19:00	SOCIAL EVENT Special Speaker, Social Event, Hermann Rein and Aletta Jacobs award ceremonies