

SECOND
INTERNATIONAL
MUNICH
ROS
MEETING
GERMAN HEART CENTER
MUNICH
July 6-8, 2018

Welcome

In the past two decades, reactive oxygen species (ROS) have been found to not only evoke cellular damage but also to affect redox regulations and various signaling pathways important for physiological as well as pathophysiological processes.

The International Munich ROS Meeting has been established in the course of major European consortia funded by EU and the German BMBF such as EU-ROS, Acidox and Epiros as an interdisciplinary forum to discuss the double-faced biology of ROS.

The **2nd International Munich ROS Meeting** will continue this path. Internationally renowned experts will discuss the role of ROS and redox regulations in cardiovascular, metabolic and cancer diseases, and in the context of development, regeneration and cell stress responses.

You are cordially invited to participate in this exciting meeting and we are looking forward to welcoming you at the German Heart Center Munich this summer!

Prof. Dr. med. Agnes Görlach



Deutsches Herzzentrum München
des Freistaates Bayern
Klinik an der Technischen Universität München



Technische Universität München



Bundesministerium
für Bildung
und Forschung

Venue

German Heart Center Munich
at the Technical University Munich
Lazarettstr. 36
80636 Munich
www.dhm.mhn.de



Registration

Poster with abstract: **June 25th, 2018**

General admission: **July 1st, 2018**

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Admission is free of charge

Organizer

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Friday, July 6th, 2018

14.00-14.15	Welcome	
14.15-15.15	Opening lecture <i>Chair: Agnes Görlach</i>	
	Hypoxic signalling and metabolic regulation in heart and skeletal muscle	Thomas Braun Bad Nauheim, DE
15.15-16.45	ROS, cardiac development and remodeling <i>Chair: Jozef Dulak</i>	
	Hypoxia signaling and metabolic reprogramming of the embryonic heart	Silvia Martin-Puig, Madrid, ES
	Combinatorial effects of diabetes and Hif1a mutation on cardiovascular development and function	Gabriela Pavlinkova, Prague, CZ
	Cardiac remodeling, nitric oxide synthases and oxidant stress	Jean-Luc Balligand, Leuven, BE
16.45-17.15	Coffee break	
17.15-19.15	ROS, redox and cell stress <i>Chair: Thomas Kietzmann</i>	
	Lipoxygenase products in the cardiovascular system	Christopher Thomas, Cardiff, UK
	Ferroptosis mechanisms and pathophysiological relevance	Marcus Conrad, Munich, DE
	Oxeiptosis – a cell death pathway to mitigate damage caused by radicals	Andreas Pichlmair, Munich, DE
	On the role of ROS in induction of liver cancer	Matthias Heikenwälder, Heidelberg, DE
19.15	Reception at DHM	

Saturday, July 7th, 2018

08.30-10.30	ROS and cancer <i>Chair: Sonia Rocha</i>	
	Cellomics of mitochondrial morphofunction	Werner Koopman, Nijmegen, NL
	Mitochondria at the crossroad: metabolic symbiosis within cancer microenvironment	Paola Chiarugi, Florence, IT
	Oxidative stress and breast cancer	Semir Vranic, Doha, QA
	ROS signalling and redox metabolism in angiogenesis and cancer	Massimo Santoro, Padova, IT
10.30-11.00	Coffee break	
11.00-12.00	Keynote lecture <i>Chair: Agnes Görlach</i>	
	Translational control of the oxidative stress response--common pathways across diverse diseases	Poul Sørensen, Vancouver, CA
12.00-13.00	Hypoxia signaling <i>Chair: Silvia Martin-Puig</i>	
	Mitochondria-dependent regulation of hypoxia signaling	Thomas Kietzmann, Oulu, FI
	Oxygen sensing by chromatin	Sonia Rocha, Liverpool, UK
13.00-14.00	Lunch break	
14.00-16.30	ROS, cardiovascular dysfunction and regeneration <i>Chair: Massimo Santoro</i>	
	Endothelial dysfunction in mice with heart failure driven by cardiomyocyte-specific overexpression of Gαq* protein	Stefan Chlopicki, Krakov, PL
	Nox5 NADPH oxidase in human vasculature - from atherosclerosis to aneurysm development	Tomaz Guzik, Glasgow, UK
	Role of Nrf2 and Hmox1 in muscle satellite cells differentiation	Jozef Dulak, Krakov, P
	Peroxidasin: a link between reactive oxygen and ECM formation	Miklos Geiszt, Budapest, HU
	A cell lineage perspective of scar tissue development and diversity	Yuhai Rinkevich, Munich, DE
16.30-17.00	Coffee break	

Saturday, July 7th, 2018

17.00-19.30	ROS and metabolic dysfunction <i>Chair: Gabriela Pavlinkova</i>	
	NADPH oxidases in metabolic regulation	Ildiko Szanto, Geneva, CH
	A novel brown adipose tissue specific mechanism regulating autophagy	Siegfried Ussar, Munich, DE
	Redox regulation in adipose tissue - Revealing the link between obesity, cardio-metabolic diseases and cancer	Aleksandra Jankovic, Belgrade, RS
	Macrophage contribution to insulin resistance independently of inflammation	Myriam Aouadi, Huddinge, SE
	Non-genetic control of multigenerational health	Raffaele Teperino, Munich, DE
20.00	Dinner	

Sunday, July 8th, 2018

08.45-11.15	ROS: New technologies and perspectives <i>Chair: Paola Chiarugi</i>	
	EPR 4 ROS. Applications in biology and medicine	Milos Mojovic, Belgrade, RS
	Extracellular vesicles in cell communication: messengers between neural cells and beyond	Eva-Maria Albers, Mainz, DE
	Mitochondrial ROS-mediated redox regulations upon inflammation	Andrey Kozlov, Vienna, AT
	Mitochondrial ROS in Wilson disease	Hans Zischka, Munich, DE
	The enigmas of Nox5	Rhian Touyz, Glasgow, DE
11.15-11.30	Wrap up and Farewell	
	Lunch at Restaurant	