

Donnerstag 05. März 2020 - GSEV**09:00-10:30 GSEV-1: Challenges in EV Preparation and Analyses**

Raum: Plateau 1 - Vorsitz: Tobias Tertel (Essen), Michael Pfaffl (Freising)

- 10 min - Welcome Address
Eva-Maria Albers / Bernd Giebel, Universität Mainz / Universität Essen, Mainz / Essen
- 20 min - Single EV analyses challenge EV purification and characterization methodologies
Tobias Tertel, University Hospital, Essen
- 20 min - EVs as diagnostic markers - on the road from research to clinical application
Stefan Holdenrieder, Deutsches Herzzentrum, München
- 20 min - How clinical biobanks can provide high-quality liquid samples for EV research and precision medicine
Jens Habermann, Universitätsklinikum Schleswig-Holstein/ESBB, Lübeck
- 20 min - In vivo labelling of EVs: Degron-tagged reporters for EV tracking and characterization
Katharina Beer, Rudolf Virchow Center, Universität Würzburg, Würzburg

10:30-11:00 Pause: Pause**11:00-12:30 GSEV-2: EV Applications: From Liquid Biopsy to Therapy**

Raum: Plateau 1 - Vorsitz: Irina Nazarenko (Freiburg), Stefan Momma (Frankfurt)

- 45 min - Extracellular vesicles and retirement
Peter Altevogt, DKFZ, Heidelberg
- 20 min - Protein content of extracellular vesicles as biomarker in cancer
Andreas Möller, QIMR Berghofer Medical Research Institute, Brisbane
- 20 min - Biotechnological Utilization of Tetraspanins in Exosome Manipulation, Downstream Processing and Vector Design
Jens Gruber, Leibniz Institute for Primate Research, Göttingen

12:30-14:00 GSEV: GSEV Member Meeting**14:00-15:30 GSEV-3: EVs and Nucleic Acids**

Raum: Plateau 1 - Vorsitz: Benedikt Kirchner (München), Gregor Fuhrmann (Saarland)

- 30 min - Travelling light or delivering the goods: reviewing the case for EVs as RNA transfer vehicles
Dave Carter, Oxford Brookes University, Oxford
- 20 min - miREV - Mining public NGS Data for miRNA References in EVs
Benedikt Kirchner, Technische Universität München, Freising
- 20 min - Determinants of EV-mediated RNA transfer specificity
Christian Preußner, Justus-Liebig-Universität Gießen, Giessen
- 20 min - Extracellular miR-574-5p induces osteoclast differentiation via TLR 7/8 in rheumatoid arthritis
Meike Saul, Technische Universität, Darmstadt

15:30-16:00 Pause: Pause**16:00-17:30 GSEV-4: EV Biology: From Basics to Function**

Raum: Plateau 1 - Vorsitz: Elke Pogge von Strandmann (Marburg), René Weiss (Krems)

- 30 min - Platelet-derived extracellular vesicles: changes in the paradigm
Pia Siljander, University of Helsinki, Helsinki
- 20 min - The possible role of EVs in Ciliopathies
Helen May-Simera, Johannes Gutenberg University, Mainz
- 20 min - Analysis of secretory MVB trafficking for the release of extracellular vesicles
Julia Gross, Universitätsmedizin, Göttingen
- 20 min - EV-associated ncRNAs in asthma
Holger Garn, University of Marburg, Marburg

17:30-18:00 Pause: Pause**18:00-19:00 Innovation-3: Extracellular Vesicles**

Raum: Plateau 1

- 10 min -
Particle Metrix
- 10 min - Nano-Flow Cytometry: A Platform for Comprehensive EV Analysis
Ben Peacock, NanoFCM, Nottingham
- 10 min - Multiparametric characterization and phenotypic analysis of EV surface and cargo proteins
Andrew Malloy, NanoView, Boston
- 10 min - Comparative analysis of differentially isolated urinary extracellular vesicles impacting downstream transcript
Veronika Mussack, Technische Universität München, Weihenstephan
- 10 min -
IZON
- 10 min -
ImmunoStep

19:00-21:00 Get Together: Get Together

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Die Inhalte dieser Veranstaltung werden produkt- und dienstleistungsneutral gestaltet. Wir bestätigen, dass die wissenschaftliche Leitung und die Referenten potentielle Interessenkonflikte gegenüber den Teilnehmern offenlegen. Es besteht kein Sponsoring der Veranstaltung, die Gesamtaufwendungen der Veranstaltung belaufen sich auf ca. 15.000 Euro.

Freitag 06. März 2020 - GSEV/GSCN

08:30-10:00 GSEV-1: EVs in Senescence and Neural Disease

Raum: Plateau 1 - Vorsitz: Eva-Maria Krämer-Albers (Mainz)

- 30 min - Microglia EVs in neuroinflammation and demyelinating disease
Claudia Verderio, CNR Institute of Neuroscience, Milan, Italy
- 20 min - Senescent cell derived EVs: a dark side?
Johannes Grillari, Ludwig Boltzmann Institute for Experimental and Clinical Traumatology, Vienna, Austria
- 20 min - Prion Protein on extracellular vesicles: dual role in neurodegenerative diseases
Susanne Krasemann, University Medical Center Hamburg Eppendorf UKE, Hamburg
- 20 min - In vivo validation of interneural EV-transfer
Christina Müller, Universität, Mainz

10:00-10:30 Pause: Pause**10:30-12:00 Joint Session: IGLD-INSTAND-GSEV. From the Bench to the Routine Diagnostic Site**

Raum: Plateau - Vorsitz: Kai Gutensohn (Hamburg), Eva-Maria Krämer-Albers (Mainz)

- 30 min - Extrazelluläre Vesikel: Zellspuren auf dem Weg zum diagnostischen Biomarker
Bernd Giebel, Universitätsklinikum, Essen
- 30 min - Qualitätssicherung als Brücke zwischen Forschungs- und Routinetestverfahren
Michael Spannagl, LMU Klinikum der Universität, München
- 30 min - Der Weg der Leukämieprobe durch das Labor
Wolfgang Kern, MLL Münchner Leukämie Labor, München

12:00-13:30 Pause: Pause**13:30-15:00 GSCN/GSEV-3: EV and Stem Cell Biology**

Raum: Plateau 1 - Vorsitz: Bernd Giebel (Essen)

- 30 min - Advancing therapeutics for myocardial repair; the use of extracellular vesicles
Joost Sluijter, University Medical Center Utrecht, Utrecht
- 20 min - Role of neutrophils as mediators of post-ischemic neuroprotection by MSC-derived small EVs
Dirk Hermann, University Hospital, Essen
- 20 min - Drug loading of stem cell-derived extracellular vesicles for treating cancer and inflammation
Gregor Fuhrmann, Helmholtz-Institut für Pharmazeutische Forschung Saarland (HIPS), Saarbrücken
- 20 min - The role of extracellular vesicles (EVs) in the leukemia niche
Heide-Marie Binder, Paracelsus Medizinische Privatuniversität (PMU), Cell Therapy Institute, Salzburg

15:00-15:30 Pause: Pause**15:30-17:00 GSCN-4: New developments in stem cell research**

Raum: Plateau 1 - Vorsitz: Daniel Besser (Berlin), Karen Bieback (Mannheim)

- 23 min - High-Throughput Screening for Modulators of CFTR Activity Based on Genetically Engineered Cystic Fibrosis Disease-Specific iPSCs
Ulrich Martin, Rebirth, Medizinische Hochschule Hannover, Hannover
- 22 min - Automated production and non-invasive analysis of 3D tissue models
Marco Metzger, Fraunhofer-Translationszentrum für Regenerative Therapien (TLZ-RT), Universität, Würzburg
- 23 min - Regulation of dormant hematopoietic stem cells
Nina Cabezas-Wallscheid, Max-Planck-Institute of Immunobiology and Epigenetics, Freiburg
- 22 min - CRISPR-Cas9-mediated hematopoietic stem cell (HSC) gene therapy for sickle cell anemia in nonhuman primates
Stefan Radtke, Fred Hutchinson Cancer Research Center, Seattle

17:00-17:30 Pause: Pause**17:30-19:00 GSEV-5: EVs in Tumour and Immune Biology**

Raum: Plateau 1 - Vorsitz: Elke Pogge (Marburg), Wolfgang Holnthoner (Wien)

- 30 min - Melanoma extracellular vesicles and generation of myeloid-derived suppressor cells (MDSC)
Viktor Umansky, German Cancer Research Center (DKFZ), Heidelberg
- 20 min - Immune cell derived vesicles in disease control
Veronika Lukacs-Kornek, University, Bonn
- 20 min - Microvesicles - Shedding light on intercellular communication in breast cancer
Kerstin Menck, Universitätsklinikum Münster, Münster
- 20 min - Farwell
Krämer-Albers / Giebel, German Society of EVs, GSEV

20:00-22:00 Netzwerkabend: Netzwerkabend