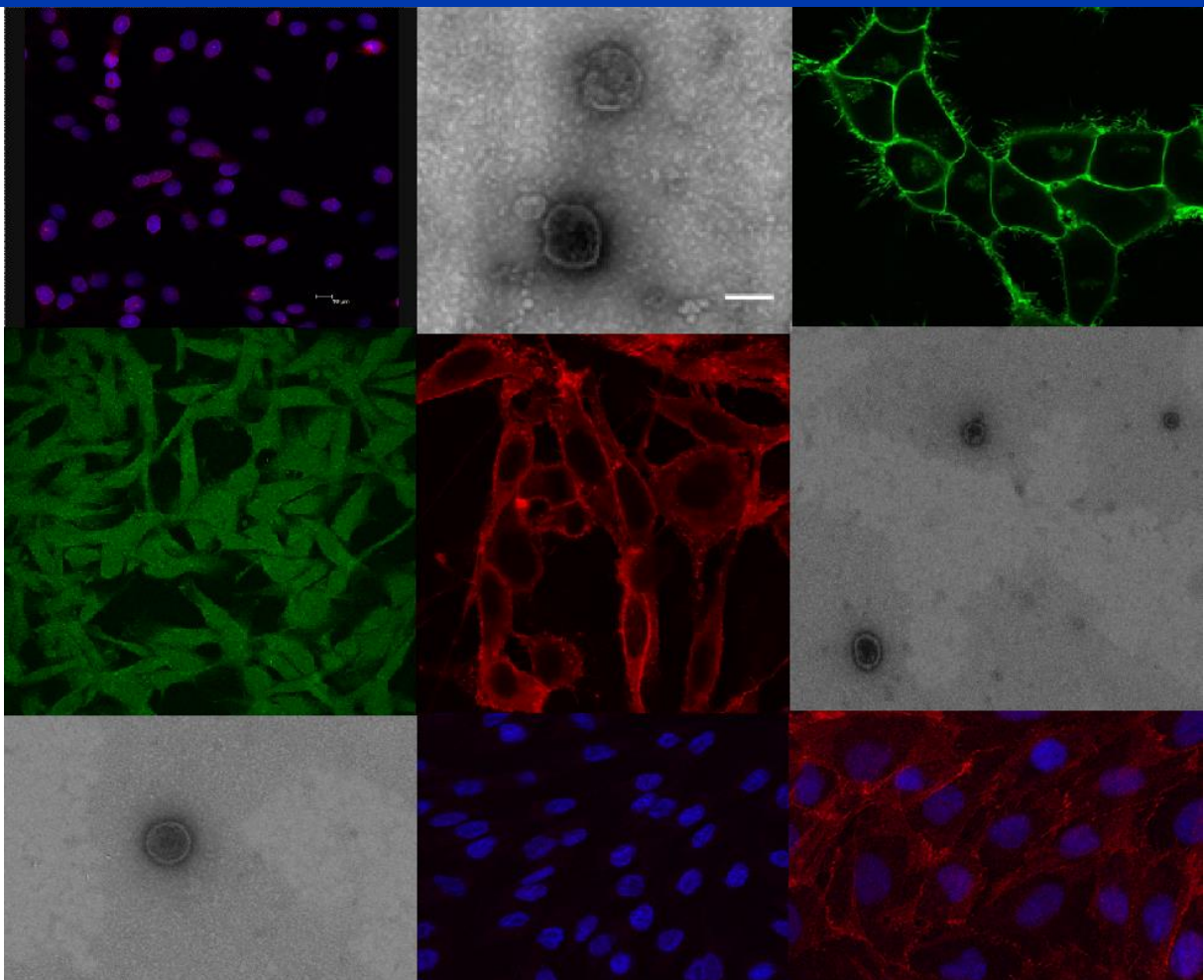


October 3 – 4, 2021.

4th autumn meeting of the
German Society for Extracellular Vesicles

Program



12.00 h **Registration**

13.00 h **Opening ceremony**
Irina Nazarenko and Bernd Giebel
(on behalf of organising committee and GSEV board)

13.10 h **SESSION I - EV origin and biogenesis**
15.10 h Chairs: Eva-Marie Krämer-Albers and Melanie Schwämmle

13.10 h **Invited speaker - Graça Raposo (Paris, France)**
Extracellular vesicles: Exosomes, microvesicles, and friends – lessons from immunity, pigmentation and development

Talks of young scientists selected from submitted abstracts

13.40 h **Martin Wolf (Salzburg, Austria)**
Essential role of a protein corona around extracellular vesicles in aiding angiogenesis and skin regeneration

13.55 h **Jochen Hernandez Bücher (Heidelberg)**
Vesicle induced receptor sequestration (VIRS): A universal mechanism for protein presentation by extracellular vesicles

14.10 h **Kerstin Menck (Münster)**
The adaptor protein CD2AP controls the biogenesis of small extracellular vesicles

14.25 h **Barnabas Irmer (Münster)**
Syntenin regulates the expression of adhesion proteins on small extracellular vesicles

Talks of industrial partners

14.40 h **Siobhan King (ONI/Oxford Nanoimaging Ltd)**
Single-molecule imaging of extracellular vesicles below the diffraction limit

14.55 h **Aquiles Carattino (Dispertech)**
Introducing nanoCET: measure size and scattering cross section of single EVs with high resolution

15.10 h **Coffee break and Poster viewing**
16.00 h

16.00 h	SESSION II - Enabling Technologies: Reference Materials, Purification & Analysis
18.20 h	Chairs: Michael Pfaffl and Jan Lueddecke
16.00 h	Invited speaker - Marcella Chiari (Milano, Italy) Integrated System for Extracellular Vesicles Isolation and Detection
16.30 h	Christian Preußner (Marburg) The EV Core Facility in Marburg - Combining Proven and New Technologies
Talks of young scientists selected from submitted abstracts	
16.50 h	Yanis Mouloud (Essen) Immortalization strategies for human mesenchymal stromal cells for large-scale production of extracellular vesicles
17.05 h	Dapi Menglin Chiang (München) Isolation and analysis of functional extracellular vesicles from Head and Neck Squamous Cell Carcinoma plasma by galectin-based glycan recognition particles EXÖBead
17.20 h	Josepha Rörig (Leipzig) Uptake and transport of milk-derived extracellular vesicles across the Caco-2 intestinal barrier model
17.35 h	Hui-Yu Liu (Karlsruhe) Tailored Lipid Membranes for EV Capture
Talks of industrial partners	
17.50 h	Ingrid Bloß (Particle Metrix GmbH) Colocalization Experiments with f-NTA
18.05 h	Stephane Mazlan (IZON Science Ltd) Extracellular Vesicles: Automating your Research for Isolation and Accurate Single Particle Characterisation
18.20 h	Finger food and Poster viewing
19.00 h	
19.00 h	Break
20.00 h	
20.00 h	Get together Party-time (Drinks, Music, Dancing)
23.30 h	

8.30 h **SESSION III - Physiological and pathophysiological aspects of EVs**
10.30 h Chairs: Elke Pogge von Strandmann and Ramsha Masood

8.30 h **Invited speaker - Ralf Jacob (Marburg)**
Late domain mediated exosome-recruitment

Talks of young scientists selected from submitted abstracts

9.00 h **Lothar C. Dieterich (Zürich, Switzerland)**
Melanoma-derived extracellular vesicles mediate lymphatic remodeling and impair tumor immunity in draining lymph nodes

9.15 h **María Gómez-Serrano (Marburg)**
Reprogramming of adipocytes in the ovarian cancer microenvironment boosts extracellular vesicle release with differential tetraspanin-coating

9.30 h **Ann-Kathrin Volz (Mainz)**
Ciliary-associated extracellular vesicles modulate WNT signalling

9.45 h **Meike Saul (Darmstadt)**
Small extracellular vesicle-derived miR-574-5p regulates PGE2-biosynthesis via TLR7/8 in lung cancer

10.00 h **Venkatesh Sadananda Rao (Dresden)**
TIMP1-dependent remodelling of the extracellular matrix is mediated by extracellular vesicles in colorectal liver metastases

10.15 h **Samantha Lasser (Mannheim)**
The role of extracellular vesicles-associated microRNA in the generation of myeloid-derived suppressor cells in malignant melanoma

10.30 h **Coffee break and Poster viewing**

11.00 h

11.00 h **SESSION IV - EV in clinical diagnostics – performing reliable EV**
13.45 h **biomarker analysis**
Chairs: Gregor Fuhrmann and Johanna Niermann

11.00 h **Invited speaker - Marca Wauben (Utrecht, Netherlands)**
Single-EV analysis by flow cytometry to study EV heterogeneity

Talks of young scientists selected from submitted abstracts

- 11.30 h **Jerome Nouvel (Freiburg)**
Purification of small extracellular vesicles by fast protein liquid chromatography (FPLC) from blood and application for a robust detection of tumor biomarkers.
- 11.45 h **Elmo Neuberger (Mainz)**
Kinetics and topology of Extracellular Vesicles associated DNA during exercise
- 12.00 h **Jan Van Deun (Erlangen)**
Cutting edge: extracellular vesicle-associated protease activity as biomarker for melanoma
- 12.15 h **Jan-Ole Baur (Erlangen)**
Plasma extracellular vesicles (pEV) may reflect acute and chronic inflammation
- 12.30 h **Kai Breitwieser (Darmstadt)**
Cell-specific characterization of extracellular vesicles by tetraspanin expression and colocalization
- 12:45 h **Karolina Soroczyńska (Warschau, Poland)**
Detection of arginase containing small extracellular vesicles in biological fluids of endometriosis patients as a potential immunosuppressive factor

Talks of industrial partners

- 13.00 h **Ben Peacock (NanoFCM)**
Nano-Flow cytometry characterization of labelled and bio-engineered EVs
- 13.15 h **Andrew Malloy (NanoView Biosciences Inc.)**
ExoView - Next Generation Product Launch - Customizable assays for detecting up to 5 biomarkers on individual EVs and viruses
- 13.30 h **Peter Rhein (Luminex)**
Enhancing the detection of Extracellular Vesicles by using camera-based Amnis® flow cytometers
- 13.45 h **Lunch Break and Poster viewing**
15.15 h
- 14.15 h **GSEV General Assembly / Mitgliederversammlung (for Members**
15.30 h **only) Board election and other issues**
-

15.30 h	SESSION V - Drug delivery and therapeutics approaches
16.45 h	Chairs: Bernd Giebel and Oskar Staufer
15.30 h	Invited speaker - Samir EL Andaloussi (Stockholm, Sweden) Engineering of extracellular vesicles
	Talks of young scientists selected from submitted abstracts
16.00 h	Aladin Samara (Tel Aviv, Israel) Using NK-derived exosomes to treat leukemia
16.15 h	Katrin Bedenbender (Marburg) Impact of bacterial vesicles and secreted host factors on endothelial RNase1 in Sepsis
	Talks of industrial partners
16.30 h	Vi Tran (Fujifilm) Advanced Research Tools for Purification, Detection, and Production of intact EVs
16.45 h	Thomas Bauer-Jazayeri (Fidabio) Qualification and Quantification of Extracellular Vesicles with accurate “first principle” Technology
17.00 h	MISEV guidelines, controls, main pitfalls in EV research:
17.55 h	Introduction and Round table discussion Chair: Irina Nazarenko
17.00 h	Dirk Strunk (Salzburg, Austria) Adherence to MISEV criteria - Pain & Glory.
17.10 h	Round table discussion: Invited speakers and GSEV Board members MISEV guidelines, controls, main pitfalls in EV research
17.50 h	Award ceremony: best talks, best posters, special Peter Altevogt- and
18.00 h	Margot Zoeller-prizes Closing ceremony