

Small New World



Joint Meeting of ASEV & GSEV



October 28 & 29. 2022, Salzburg, AUSTRIA

Scientific Program

Friday, 28.10.2022

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| 10:00 - 10:15 | Welcome Notes from the ASEV & GSEV Presidents Welcome Notes from the local organizers & technical introduction | |
| 10:15 - 12:00 | SCIENTIFIC SESSION 1 Cellular Sources <i>Nanovesicles as drug substance or drug delivery vehicle</i> (Chairs: Nicole Meisner-Kober & Wolfgang Holthoner) | |
| 10:15 - 10:45 | Samir EL Andaloussi (Sweden) | Advanced engineering of extracellular vesicles for targeted delivery of biotherapeutics |
| 10:45 - 11:00 | Miriam Romano (Italy) | EV-protein corona and EV surface engineering, a first study |
| 11:00 - 11:15 | Aymar Abel Ganguin (Switzerland) | Bioderived therapeutics in chronic liver diseases |
| 11:15 - 11:30 | Susanne Sasse (Germany) | Proof of principle of EV application in a cochlea implantation trauma model with guinea pigs preventing fibrosis and residual hearing loss. |
| 11:30 - 11:45 | Vida Mashayekhi (Germany) | Characterization of the impact of tumor promoting RNA binding protein IGF2BP2 on polarization of macrophages using cancer cell-derived EVs |
| 11:45 - 12:00 | Vera Tscherrig (Switzerland) | Unravelling the neuro-regenerative potential of small extracellular vesicles (sEV) from Wharton's jelly mesenchymal stromal cells |
| 12:00 - 13:30 | Lunch Break / General Assembly (ASEV; GSEV) | |

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| 13:30 - 15:00 | SCIENTIFIC SESSION 2 Secretomes and Vesicles <i>purity meets function</i> (Chairs: Mario Gimona & Bernd Giebel) | |
| | 13:30 - 14:00 | António Salgado (Portugal) Stem Cells Secretome as a Regenerative Tool for CNS Applications |
| 14:00 - 14:15 | André Görgens (Sweden) | Identification of storage conditions stabilizing Extracellular Vesicle preparations |
| 14:15 - 14:30 | Agnes Mistlberger-Reiner (Austria) | Does density gradient separation after SEC remove lipoprotein miRNAs and increase the yield of EV associated miRNAs? |
| 14:30 - 14:45 | Johanna Trisko (Austria) | Surface Properties of Endothelial Derived Extracellular Vesicles |
| 14:45 - 15:00 | Martin Wolf (Austria) | EV corona reloaded |

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| 15:00 - 16:15 | CORPORATE SESSION (Chairs: Wolfgang Holnthoner & Bernd Giebel) | |
| | 15:00 - 15:15 | Alice Law (NanoFCM) Specific labelling and identification of EVs within complex particle isolations using nano-flow cytometry |
| 15:15 - 15:30 | Marc Richter (NanoView Biosciences) | Know your EVs inside out with ExoView |
| 15:30 - 15:45 | Vi Tran (FUJIFILM Wako Chemicals) | Powerful Tim4-based PS-affinity method for EV isolation and detection |
| 15:45 - 16:00 | Andreas Wicovsky (Beckman Coulter Life Sciences) | FLEXible Flow Solutions for Extracellular Vesicle Research |
| 16:00 - 16:15 | Clemens Helmbrecht (Particle Metrix) | Determination of Colocalization Ratios by Nanoparticle Tracking Analysis |

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| 16:15 - 16:45 | Coffee Break |
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| 16:45 - 18:00 | SCIENTIFIC SESSION 3 Natural & Novel Sources <i>Nanovesicles from food, bacteria, platelets and iPSCs</i> (Chairs: Dirk Strunk & Irina Nazarenko) | |
| | 16:45 - 17:15 | Kenneth Witwer (USA) A B-side to their A-game? EV biodistribution and response to inflammation |
| 17:15 - 17:30 | Irma Schabussova (Austria) | Modulation of allergy-related immune responses by bacterial membrane vesicles: Small blebs with big potential |
| 17:30 - 17:45 | Janis A Müller (Germany) | EVs from various body fluids prevent Zika virus infection by competing with viral particles for cell attachment |
| 17:45 - 18:00 | Patricia Ebner-Peking (Austria) | Human Platelet-EVS facilitate self-assembly of stem/progenitor cells into skin organoids and accelerate skin regeneration in vivo |

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| 18:30 - | Poster Session and Social Evening |
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Saturday, 29.10.2022

| SCIENTIFIC SESSION 4 | | |
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| EV Diagnostics and Biomarkers | | |
| <i>simplicity in complexity</i> | | |
| (Chairs: Metka Lenassi & Michael Pfaffl) | | |
| 09:00 - 09:30 | Metka Lenassi (Slovenia) | EV-bound DNA, future biomarker in transplant medicine? |
| 09:30 - 09:45 | Janes Efing (Germany) | Extracellular vesicles as novel mode of intercellular trafficking for the Wnt receptors ROR1/2 |
| 09:45 - 10:00 | Tanja Eichhorn (Austria) | Blood-derived extracellular vesicles in sepsis and COVID-19 |
| 10:00 - 10:15 | Katrin S. Reiners (Germany) | A novel serum extracellular vesicle protein signature to monitor glioblastoma tumor progression |
| 10:15 - 10:30 | Benedikt Kirchner (Germany) | Comprehensive analysis of small RNA gene expression – Obtaining valid biomarker signatures from EVs made easy |
| 10:30 - 10:45 | Charlotte Flynn (Germany) | Detection of Her2+ extracellular vesicles in breast cancer patients by flow-cytometry |

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| 10:45 - 11:30 | Coffee Break | |
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| NETWORK SESSION | | |
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| Chair: t.b.d. | | |
| 11:30 - 11:40 | Bernd Giebel (Germany) |  GSEV |
| 11:40 - 11:50 | Wolfgang Holnthoner (Austria) |  ASEV |
| 11:50 - 12:00 | Mario Gimona (Austria) |  EVTT |
| 12:00 - 12:10 | Eva Rohde (Austria) | ISEV TF Clinical use of EVs and Regulatory Affairs |
| 12:10 - 12:30 | Ken Witwer (<i>President Elect ISEV</i>) (USA) |  INTERNATIONAL SOCIETY for EXTRACELLULAR VESICLES MISEV 2022 and ISEV Q & A |

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| 12:30 - 13:45 | Lunch Break | |
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| SCIENTIFIC SESSION 5 | |
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| Nanovesicle Analytics <i>uptake, activity assays and in vivo tracing</i> (Chairs: Viktoria Weber & Eva-Maria Krämer-Albers) | |
| 13:45 - 14:15 | Pietro Parisse (Italy) Biophysical tools to highlight fusion mechanisms and functionality of Extracellular Vesicles |
| 14:15 - 14:30 | Maximilian Härtinger (Germany) How did you get in here? An investigation into the internalization of extracellular vesicles in Schwann cells |
| 14:30 - 14:45 | Melanie Schürz (Austria) EVAnalyzer: An Open Source ImageJ Plugin for automated, quantitative, high content single vesicle imaging and its applications for routine characterisation of extracellular vesicles |
| 14:45 - 15:00 | Bilal Alashkar Alhamwe (Germany) Single-cell sequencing unravels EVs uptake in a preclinical Cre-loxP reporter model of pancreatic cancer |
| 15:00 - 15:15 | Alexander Otahal (Austria) Polybrene enhances uptake of extracellular vesicles derived from Hoffa mesenchymal stromal cells into primary osteoarthritic chondrocytes |

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| 15:15 - 16:00 | Coffee Break |
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| SCIENTIFIC SESSION 6 | |
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| Clinical Application and Regulatory Compliance <i>beyond anecdotal evidence</i> (Chairs: Eva Rohde & Elke Pogge von Strandmann) | |
| 16:00 - 16:30 | Douglas Williams (USA) Early Clinical Experience with engEx Therapeutic Exosomes |
| 16:30 - 16:45 | Athanasia Warnecke (Germany) Towards clinical application: Preclinical safety and efficacy of MSC-EVs to reduce insertion trauma of the inner ear after implant injury |
| 16:45 - 17:00 | Yanis Mouloud (Germany) Clonal Immortalized Mesenchymal Stromal Cells: an ideal cell source for the production of therapeutic extracellular vesicles |

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| 17:00 - 17:15 | Closing Remarks & Farewell Notes |
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Industry Partners

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