

## Welcome to the 2nd FISEV Seminar

February 6th, 2023, at 9.00 – 16.00 EET Hybrid event will be free of charge to all FISEV Members.

University of Eastern Finland, Snellmania, Seminar room sn210, Yliopistonranta 1, 70210 Kuopio.

The second FISEV seminar organized by the Finnish Society of Extracellular Vesicles is open to all interested in extracellular vesicle research and it offers excellent possibility for Finnish research teams to report they research and network. We encourage all to join either at place in Kuopio or virtually through TEAMS.

We have the honor to welcome Professor Susanne Gabrielsson from Karolinska Institute as a Keynote Speaker. In addition, leading Finnish scientists in EV field will share their visions on timely topics while our sponsor companies will share their latest advances in product development.

## FISEV Seminar program

### CATEGORIZING EVs

- 9:10-9:30 Welcome lecture: “Correlative light and electron microscopy in EV research” by **Kirsi Rilla**
- 9:30-10:30 Keynote lecture: “Extracellular vesicles for cancer immunotherapy” by Professor **Susanne Gabrielsson**, Karolinska Institutet
- 10.30-10.45 **Finnadvance** (sponsor talk): “A microfluidic platform to assess the transport and delivery of extracellular vesicles”
- 10:45-11:00 Coffee

### WHEN NOT ONLY CONTENT, BUT ALSO THE FUNCTIONS MATTER

- 11:00-11:30 “Why we need to develop functional EV assays: case platelet” by **Pia Siljander**
- 11:30-12:15 *Presentations (3\*15 min each)*
- 11:30-11:45 “Estrogen deficiency caused by menopause blunts acute exercise-induced circulating microRNA response in extracellular vesicles” by **Sira Karvinen**
- 11:45-12.00 “Adipocytes alleviate obesity-induced inflammation and metabolic disturbance via increased secretion of extracellular vesicles” by **Johanna Matilainen**
- 12:00-12:15 “Extracellular vesicles derived from proinflammatory macrophages induce inflammatory and invasive responses in melanoma cells” by **Kaisa Mäki-Mantila**
- 12.15-12.30 **ONI** (sponsor talk)
- 12:30-13:30 Lunch break (at canteen at own cost)

### FISHING OUT VESICLES FOR BIOMARKER PURPOSES

- 13:30-14:00 “Extracellular vesicles and liquid biopsy sampling on anti-cancer therapy response evaluation” by **Arto Mannermaa**
- 14:00-15:15 *Presentations (3\*15 min each)*
- 14:00-14:15 “Validation of surface protein and capture tools for downstream analysis of astrocyte derived EVs” by **Genevieve Bart**
- 14:15-14:30 “Identifying glucose deprivation associated EV based miRNA changes in MCF7 breast cancer cells and their subsequent role in cancer pathogenesis” by **Saket Ahuja**
- 14:30- 14:45 “Advanced fluorescence microscopies for drug delivery studies” by **Elina Vuorimaa-Laukkanen**
- 14:45-15:00 **NanoFCM** (sponsor talk)
- 15:00-15:15 Coffee

### EV BASED THERAPIES

- 15:15-15:45 “The Great Balls on Fire – EV Sparkle of Life, Disease and Therapies” by **Seppo Vainio**
- 15:45-16:15 *Presentations (2\*15 min each)*
- 15:45-16:00 “CD44 mediates interactions of hyaluronan-coated extracellular vesicles with target cells” by **Heikki Kyykallio**
- 16:00-16:15 “Platelet and red blood cell concentrate derived extracellular vesicles targeting into different immune cells” by **Petra Ilvonen**
- 16:15-16:30 Wrapping up the meeting