

# WORKSHOP ON EXTRACELLULAR VESICLES

Wednesday June 8<sup>th</sup> 2022, 10:10 am – 15:30 pm

Institute for Cancer Research (K building), seminar room 1 and 2  
Oslo University Hospital, The Norwegian Radium Hospital  
Ullernchausseen 70, 0379 Oslo

Organized by the Norwegian Society for Extracellular Vesicles, NOR-EV  
Supported by *Olga og Minius Øieren til minne*



**10:10-10:20 / Welcome Reidun Øvstebø, NOR-EV board member**

**10:20-10:50 / Extracellular Vesicles: General perspectives and challenges and their role in cancer research**  
International invited speaker Professor Lorraine O'Driscoll  
Trinity College, The University of Dublin, Ireland

Replaced due to illness with:

**Extracellular Vesicles: Mechanisms of release and use as biomarkers of prostate cancer.**

**Alicia Llorente, Professor**

Oslo University Hospital and Oslo Metropolitan University

**10:50-11:00/ Zoom connection**

**11:00-11:20 / Proteomic analysis of extracellular vesicles by mass spectrometry (via zoom)**

**Tuula Anneli Nyman, PhD**

Researcher and leader of the Proteomics Core facility at Oslo University Hospital

**11:20-11:30 / Short break**

**11:30-11:50 / Identifying EV subsets derived from NK cells is important for tumor killing**

**Marit Inngjerdengen, Professor**

University of Oslo

**11:50-12:10 / Contractile activity of smooth muscle cells affects the microRNA and protein cargo of EVs**

**Kari Bente Foss Haug, PhD**

Oslo University Hospital

**12:10-12:20 / Impressions from ISEV 2022**

**Reidun Øvstebø, PhD**

Oslo University Hospital

**12:20-13:00 / Lunch**

**13:00-13:10 / Electron microscopy of Extracellular Vesicles**

**Espen Stang, PhD**

Scientist, Oslo University Hospital

**13:10-13:20 // User involvement in research**

**Espen Stang, PhD**

Member of the Norwegian Cancer Society national group on user involvement

**13:20-13:35 // Extracellular vesicles of activated platelets acquire a distinctive biomolecular profile and display an increased procoagulant activity via the prothrombinase complex**

**Eduarda Mazagao Guerreiro, PhD**

University of Tromsø

**13:35-13:50 // Next-generation sequencing (NGS) reveals higher mitochondrial DNA (mtDNA) diversity in plasma extracellular vesicles (EVs) than in other blood components and tumor tissue from colorectal cancer (CRC) patients**

**Tonje Bjørnestrø, PhD**

University of Oslo

**13:50-14:00 // The ISEV task forces and MOVE**

**Alicia Llorente, Professor**

Oslo University Hospital and Oslo Metropolitan University

**14:00-14:30 // Coffee break and poster session\***

**14:30 -14:45 // The role of γRNAs and γRNA fragmentation in the development and progression of Alzheimer's disease (AD)**

**Ingrid Lovise Augestad, PhD**

Oslo University Hospital

**14:45 -15:00 // Microfluidic technologies for pre-concentration and separation of exosomes.**

**Elizaveta Vereshchagina, PhD**

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**15:00-15:20 // NOR-EV status and plans**

NOR-EV board: Alicia Llorente, Kari Bente F. Haug, Reidun Øvstebø, Marit Inngjerdingen, Beate Vestad

**\*Posters:**

**Constitutive release of beta-2 adrenergic receptor via extracellular vesicles**

Presenter: Krizia Sagini, Oslo University Hospital

**EV-derived cytokine profiling in locally advanced breast cancer patients**

Presenter: Andliena Tahiri, Oslo University hospital

**Bacterial Extracellular vesicles from P. gingivalis - isolation and characterization".**

Presenter: Helene Rygvold Haugsten, University of Oslo

**Effects of X-ray radiation in extracellular vesicles isolated from head and neck cancer cells**

Presenter: Inga Solgård Juvkam, University of Oslo

**High mitochondrial DNA diversity in plasma extracellular vesicles from colorectal cancer patients**

Presenter: Tonje Bjørnestrø, University of Oslo

**Characterization of bacterial extracellular vesicles from a fish pathogen, their role in virulence and possible function as vaccine in aquaculture**

Presenter: Verena Mertens, University of Oslo

**$\beta$ -adrenergic stimulation accelerates uptake of plasma extracellular vesicle in porcine coronary artery endothelial cells**

Presenter: Trude Aspelin, Oslo University Hospital

**Isolation of a subset of CD63/NKG7 positive extracellular vesicles from NK cells enriched in Granzyme B**

Presenter: Yunjie Wu, University of Oslo

**Comparative proteomics profiling of NK-cell derived extracellular vesicles from primary NK cells and cell lines reveal optimal composition for anti-tumor activity of extracellular vesicles**

Presenter: Miriam Aarsund, University of Oslo

**Antirheumatic therapy is associated with changes in extracellular vesicles proteomic profiles in patients with rheumatoid arthritis**

Presenter: Reidun Øvstebø, Oslo University Hospital

**Contractile activity of human primary myotubes in culture affects the microRNA and protein cargo of secreted extracellular vesicles**

Presenter: Kari Bente Foss Haug; Oslo University Hospital

