



Extracellular Vesicles as next-generation clinical biomarkers and therapeutic agents

FET-PROACT project MARVEL symposium

2nd Lugano ExoDay
13 APRIL
2022

PROGRAM - MORNING SESSION

09:00 – 10:00 Registration

10:00 – 10:10 Welcome and Opening

Lucio Barile, Istituto Cardiocentro Ticino EOC, Lugano, Switzerland

MORNING SESSION

Moderators:

Loredana De Bartolo, National Research Council of Italy at ITM-CNR

Natasa Zarovni, HansaBioMed Life Sciences, Tallinn, Estonia

10:15 – 10:55 Overview and background on Extracellular Vesicles

Lecture Expert - Edit Buzàs

Department of Genetics, Cell- and immunobiology, Semmelweis University Budapest, Hungary

10:55 – 11:10 Coffee break

11:15 – 12:15 Young Investigators Flash Oral Presentations [8' + 2']

Comparative Analysis of Extracellular Vesicles from Adipose Tissue- And Bone Marrow-Mesenchymal Stromal Cells in Endothelial Proliferation and Chondrogenesis.

Cansu Gorgun, University of Genova, Genova, Italy

MicroRNAs in small extracellular vesicles (EVs) from Wharton's jelly mesenchymal stromal cells and their potential neuro-regenerative role

Vera Tscherrig, University of Bern, Bern, Switzerland

On the surface-to-bulk partition of proteins in extracellular vesicles.

Andrea Zandrini, Università degli Studi di Brescia, Brescia, Italy

Isolation of EV subpopulations from the nanoscale to the microscale with asymmetrical flow field-flow fractionation (A4F): an innovative approach for the EV-diagnostic field

Daniele D'Arrigo, Ente Ospedaliero Cantonale, Lugano, Switzerland

FTIR spectroscopy for cancer-derived Extracellular Vesicles discrimination: a promising liquid biopsy tool for cancer diagnosis

Sabrina Romano, Università Cattolica Del Sacro Cuore, Roma, Italy

12:20 – 13:00 Cross talk between malignant cells and the vascular system, immune cells, and secreted extracellular vesicles

Lecture Expert – Michele De Palma

EPFL Swiss Federal Institute of Technology in Lausanne, School of Life Science, Lausanne, Switzerland

13:00 – 14:00 Lunch and Invited Posters

Università della Svizzera italiana
Lugano, Switzerland



WITH THE SUPPORT OF:



MARVEL project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement № 951768



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PROGRAM - AFTERNOON SESSION

AFTERNOON SESSION

Moderators:

Daniel Quesada, Paperdrop Diagnostics, Barcelona, Spain

Riccardo Vago, Vita-Salute San Raffaele University, Milano, Italy

14:00 – 14:30

EU funded FET-PROACT project: MARVEL

Marina Cretich, National Research Council of Italy at SCITEC-CNR, Milano, Italy

Alessandro Gori, National Research Council of Italy at SCITEC-CNR, Milano, Italy

14:40 – 16:00

Young Investigators Flash Oral Presentations [8' + 2']

Comparing Digital Detection Platforms in High Sensitivity Immune-phenotyping of Extracellular Vesicles

Roberto Frigerio, SCITEC-CNR, Milano, Italy

Optimizing Isolation and Purification of EV-like Nanoparticles from Ginger Rhizome

Francesca Loria, HansaBioMed Life Sciences, Tallinn, Estonia

Exosomes for therapeutic applications: GMP-grade large scale manufacturing method, product characterization and stability

Elena Provasi, Istituto Cardiocentro Ticino, EOC, Lugano, Switzerland

Ischemic stroke risk assessment based on the detection of miRNA-638 derived from EVs in serum by a new molecular lateral flow assay

Ana Rubio Monterde, Paperdrop Diagnostics, Barcelona, Spain

In-silico model of Membrane-sensing peptides

Alessandro Strada, National Research Council of Italy ITM-CNR-Giulio Natta; Milano, Italy

Exploiting EVs for efficient chemotherapeutics delivery

Alessia Brancolini, Università Vita Salute San Raffaele; Milano, Italy

16:00 – 16:40

Extracellular Vesicles as Therapeutic Tool

Lecture Expert – Benedetta Bussolati

Department of Molecular Biotechnology and Health Sciences, University of Turin, Turin, Italy

16:40 – 17:00

Wrap-up and Conclusive remarks

Marina Cretich, National Research Council of Italy at SCITEC-CNR, Milano, Italy

17:00

Aperitif



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