Inserm Workshop 273
Advances in therapeutic applications of extracellular vesicles

REGISTRATION DEADLINE: **March 17, 2023**

ORGANIZERS: Florence GAZEAU (MSC CNRS/Université Paris Cité, FRA), Philippe MENASCHÉ (HEGP, FRA) and Max PIFFOUX (CHU Lyon Sud/Centre Léon Bérard, FRA)

AIMS: This workshop will provide an overview of the extracellular vesicles (EVs) field and their potential therapeutical applications. It will cover the concepts, technological advances, preclinical evaluation, regulatory field, industrial development and clinical applications.

PHASE I – CRITICAL ASSESSMENT

June 12-14, 2023 in Bordeaux

OPENING CONFERENCE
Philippe MENASCHÉ (HEGP, FRA)

DECIPHERING THE MECHANISM(S) OF ACTION OF EVS
Grégory LAVIEU (MSC, FRA), Pieter VADER (UMC Utrecht, NLD) and Danièle NOËL (IRMB, FRA)

WHICH EVS FOR WHICH PURPOSE? ENGINEERING AND OPTIMIZATION
Marie MORILLE (ICGM, FRA), Max PIFFOUX (CHU Lyon Sud/Centre Léon Bérard, FRA) and Jean Marie BACH (ONIRIS, FRA)

WHICH INDICATIONS TO GO TO THE CLINIC?
Anne DES RIEUX (Université Catholique de Louvain, BEL), Benedetta BUSSOLATI (DBMSS, ITA), Antoine MONSEL (CHU Salpétrière, FRA), Samir EL ANDALOUSSI (Karolinska Institute, SWE), Ibane ABASOLO (CIBBIM, ESP) and Sara MARTINEZ DE LIZARRONDO (Cyceron, FRA)

NANOMETROLOGY AND MACHINE LEARNING APPROACHES
Céline ELIE-CAILLE (FEMTO-ST, University of Franche Comté, FRA), Alice GRANGIER and Kelly AUBERTIN (MSC, FRA)

INDUSTRIAL HURDLES: BIOPRODUCTION, QUALITY CONTROL, TOXICOLOGY, REGULATORY ISSUES
Jeanne VOLATRON (Everzom, FRA), Amanda SILVA-BRUN (MSC, FRA) and Sebastien BANZET (CTSA, FRA)

PHASE II – TECHNICAL WORKSHOP

October 2-6, 2023 - Paris

Allow participants to discover and have hands on experiences with different advanced techniques on their own samples. Each participant can attend 3 to 5 sessions consecutively.

Each session lasts a day:
Session 1: **Single vesicle imaging techniques:** Nanoscopy of single vesicles
Session 2: **EV fractionnation and characterization:** TFF, A4F-MALS/UV-Vis/RI/Fluo, NTA
Session 3: **EV phenotyping and biological identity:** Introduction to Nanoparticle flow cytometry, Exoview platform
Session 4: **Raman spectroscopy**
Session 5: **Introduction to Machine learning methods**
Session 6: **Potency tests** using High content screening microscopy

SELECTION: 20 trainees will be selected among Phase I participants

Information and registration:
https://ateliersinserm.dakini-pco.com

Inserm

*Ateliers Inserm - Réalisation : Audrey Peloni (DRH-SDevRH) - Crédit image : @N. Rolhion, @E. Dugat-Bony, @B. Chassaing - Janvier 2023