

## Inserm Workshop 273

### Applications thérapeutiques des vésicules extracellulaires Advances in therapeutic applications of extracellular vesicles

12-14 Juin 2023 / June 12-14, 2023 ■ Bordeaux, France

Lundi 12 Juin 2023 ■ Monday June, 12 2023

15:00 - 15:30	Reception of participants
15:30 - 15:45	Welcome and presentation by the organizers
15:45 - 16:30	Introduction conference: EVs, from cell dust to magic bullet? Insights and perspective on a translational ongoing experience <b>Philippe Menasché (HEGP, Paris, France)</b>
<b>SESSION I</b>	<b>Deciphering the mechanism(s) of action of EVs</b>
16:30 - 17:15	How EVs interact with cell and deliver their cargo? <b>Grégory Lavieu (MSC, Paris, France)</b>
17:15 - 17:45	Coffee break
17:45 - 18:30	Biodistribution : How long and how far EVs circulate in the body? RNA transfer : Myth or reality? <b>Pieter Vader (UMC Utrecht, Netherlands)</b>
18:30 - 19:15	Predictive models and potency assays <b>Danièle Noël (IRMB, Montpellier, France)</b>
19:15 - 20:15	<b>Round table:</b> How diverse and dynamic EVs are? Benefit and pitfalls The risk of purity: EV-enriched secretome, EV-like, false and bona fide EV, Separating EV subpopulation
20:15	Dinner

Mardi 13 Juin 2023 ■ Tuesday June, 13 2023

06:30 - 08:30	Breakfast
<b>SESSION II</b>	<b>Which EVs for which purpose? Engineering and optimization</b>
08:30 - 09:15	EV engineering and loading <b>Marie Morille (ICGM, Montpellier, France)</b>
09:15 - 10:00	Modulating EV identity or secretome content? optimizing EV activity? Hit to lead approach <b>Max Piffoux (CHU Lyon, France)</b>
10:00 - 10:30	Coffee break
10:30 - 11:15	Immunomodulation using EVs <b>Jean Marie Bach (ONIRIS, Nantes, France)</b>
11:15 - 12:00	<b>Round table:</b> Diversity of cell sources (eukaryote, prokaryote, plant...) EV-like, hybrids and other subcellular therapies (mitochondria, virus etc...)
12:00 - 14:00	Lunch

<b>SESSION III</b>	<b>Which indications to go to the clinic?</b>
14:00 - 14:45	EV for the delivery of active agents to the CNS <b>Anne des Rieux (Université catholique de Louvain, Belgium)</b>
14:45 - 15:30	Kidney regeneration <b>Benedetta Bussolati (DBMSS, Torino, Italy)</b>
15:30 - 16:15	Acute inflammation and organ failure, <b>Antoine Monsel (CHU Pitié Salpêtrière, Paris, France)</b>
16:15 - 16:45	<b>Coffee Break</b>
16:45 - 17:30	Engineering of Extracellular Vesicles for targeted delivery of biotherapies <b>Samir El Andaloussi (Karolinska Institute, Sweden)</b>
17:30 - 18:15	Enzyme replacement therapy <b>Ibane Abasolo (CIBBIM, Barcelona, Spain)</b>
18:15 - 19:00	Organ Protection (organ graft, ischemia/reperfusion, stroke) <b>Sara Martinez de Lizarrondo (Cyceron, Caen, France)</b>
19:30 - 20:15	<b>Cocktail</b>
20:15	<b>Dinner</b>

Mercredi 14 Juin 2023 ■ **Wednesday June, 14 2023**

06:30 - 08:30	<b>Breakfast</b>
<b>SESSION IV</b>	<b>Nanometrology and machine learning approaches</b>
08:30 - 09:15	Multimodal characterization toolbox, standardization and nanometrology <b>Céline Elie Caille (FEMTO-ST, Univ. Franche Comté, France)</b>
09:15 - 10:00	Characterizing / modifying EV identity and activity : machine learning for analytical validation <b>Kelly Aubertin and Alice Grangier (MSC, IVETH, Paris, France)</b>
10:00 - 10:30	<b>Coffee Break</b>
<b>SESSION V</b>	<b>Industrial hurdles : Bioproduction, quality control, toxicology, regulatory issues</b>
10:30 - 11:15	EV bioproduction, scale up and industrial work flow <b>Jeanne Volatron (Everzom, Paris, France)</b>
11:15 - 12:00	Formulation, quality control, GMP procedure, Regulatory issues <b>Amanda Silva Brun (MSC, Paris, France)</b>
12:00 - 12:45	First in man and design of clinical trials <b>Sebastien Banzet (CTSA, Villejuif, France)</b>
12:45 - 14:30	<b>Lunch</b>
14:00	<b>Departure</b>