



Sept 13th afternoon:

- 13:30 Registration @ Palais de Congrès
- 14:30 Introduction

EV engineering and drug delivery

*chaired by Bernard Lebleu, Université Montpellier,
sponsored by Oligonucleotide Therapeutics Society*

- 14:45 **Guillaume Van Niel**, *INSERM Paris*
Extracellular vesicles: Basics and challenges for their use as therapeutics.
- 15:15 **Samir El Andaloussi**, *Karolinska Institutet, Stockholm, Sweden*
Engineered extracellular vesicles for delivery of biotherapeutics
- 16:00 Post production modified murine mesenchymal stem cells (mMSC) derived EV:
interesting bioinspired nanocarriers for protein intracellular delivery?
Marie MORILLE, *Institut Charles Gerhardt Montpellier, Univ Montpellier, ENSCM, CNRS, Montpellier, France*
- 16:15 **Coffee Break** ☕
- 16:45 **Reka Haraszti**, *University of Tübingen, Germany*
Composition-function relationship of EVs: a path to artificial EVs for RNA delivery
- 17:30 Improvements to the Quantification of Nanoparticles and Extracellular Vesicles
Michael Olszowy, *Sartorius*
- 17:45 **Pieter Vader**, *University Medical Center Utrecht, The Netherlands*
Extracellular vesicle-mediated RNA delivery: from mechanistic insights to therapeutic applications
- 18:30 **IBANE ABASOLO** *VHIR, Barcelona, Spain*
EV engineering for enzyme replacement therapy
- 19:30 **Get together and dinner @ Hotel Mercure**

Sep. 14th morning:

EV and biogenic vesicles: from characterization to in vivo models

chaired by ESNAM - Simo Schwarz and Ibane Abasolo

- 9:00** Introduction of the European Society of Nanomedicine (ESNAM) – Simo Schwarz
- 9:10** **Antoine Monsel**, *Pitié-Salpêtrière Hospital, France*
MSC EVs for the therapy of the acute respiratory distress syndrome
- 9:55** A novel role for Caveolae in small EV secretion and uptake under mechanical stress, **Cristian Saquel**, *Institut Curie UMR3666 INSERM U1143*
- 10:10** Rapid, Accurate Isolation and Quantification of Extracellular Vesicles, **Stephane Mazlan**, *IZON*
- 10:25** Molecular and functional signatures of distinct subpopulations of extracellular vesicles: implications for autoimmunity, **Steffi Bosch** *IECM, ONIRIS, INRA, USC1383, Nantes*
- 10:40** Coffee Break 
- 11:10** Proteogenomic analysis of adrenocortical cancer cell-derived exosomes reveals their potential pro-angiogenic and oncogenic functions, **Soha Reda El Sayed**, *Univ. Grenoble Alpes, INSERM, CEA, IRIG, Biology of Cancer and Infection Laboratory UMR_S 1036, F-38000 Grenoble*
- 11:25** Role of small extracellular vesicles in the non-targeted bystander effects of targeted radiotherapy. **Jihad Karam**, *IRCM, Inserm U1194, ICM, Université de Montpellier*
- 11:40** Fractionation and characterization of size, particle count and composition of EV's using FFF-MALS, **Stéphanie Terme Ferrari**, *Wyatt*
- 11:55** **Daniele Noël**, *University of Montpellier, France*
The potential of EVs in the therapy of joint diseases: a focus on osteoarthritis
- 12:40** Lunch Break @ Palais de Congres 

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Sep 14th afternoon:

Towards EV clinical translation

chaired by ECELLFrance - Daniele Noel and Meary Center – Guillaume Churlaud

14:00	Bernd Giebel , <i>Uniklinik Essen, Germany</i> Clinical potential of MSC-EVs and translational challenges
14:45	Solutions and advances for extracellular vesicles characterization, Nathalie Vollmer , <i>HORIBA</i>
15:00	GMP production of EVs for clinical trials phase 1 and 2 in France : Feedback from the MEARY cell and gene therapy center (AP-HP Paris hospitals), Guillaume Churlaud , <i>Plateforme de production de MTI, centre MEARY, Hopital St Louis</i>
15:15	Eva Rohde , <i>Paracelsus Medical University, Austria</i> Stromal cell derived extracellular vesicles as novel therapeutics (and regulatory needs for their clinical evaluation)
16:00	Coffee Break ☕
16:30	Philippe Menasché , <i>Hopital Européen Georges Pompidou, France</i> EV for cardiac repair: Rationale and Translational Roadblocks
17:15	Pure preparations, proven reagents and accurate characterizations – update 2021 on BEC LS solutions supporting Exosomes & Extracellular Vesicles research, Anis Larbi , <i>Beckmann and Coulter</i>
17:30	TFF improves EV hPL depletion allowing large, xenobiotic-free, clinical grade-compatible, production of human cell-derived extracellular vesicles, Bileyle Lorenzini , <i>INSERM UMR-MD-1197, Villejuif, France</i>
17:45	Sébastien Banzet , <i>Institut de Recherche Biomédicale des Armées, Clamart, France</i> French EV clinical translation group
18:00	Work meeting of the French group on EV-based therapy – optional for interested people
20:00	Banquet @ Yacht Club 🍴🍷



Sep 15th morning:

EV imaging and diagnosis

chaired by IVETH core facility Florence Gazeau

- 8:30** **Guillaume Van Niel**, *Inserm Paris*
Fundamental aspects and therapeutic applications of in vivo Imaging of EVs
- 9:15** Interlaboratory project for a complementary and an intercomparative analytical study of extracellular vesicles in biological fluids
Celine Elie-Caille, *Institut FEMTO-ST, UMR6174 CNRS*
- 9:30** Extracellular vesicle from liquid biopsies as biomarker for breast cancer metastasis follow-up, **Laetitia Guével**, *Team SOAP, CRCINA, INSERM, CNRS, Universités de Nantes et Angers*
- 9:45** Synthesis of hybrid Nanoparticles to target and sort Extracellular Vesicles as a diagnostic tool, **Melanie Romain**, *Université de Bourgogne*
- 10:00** Fluorescent Labelling of membranes and analysis by Malvern Panalytical Fluo-NTA, **Aymeric Audfray**, *MALVERN*
- 10:10** **Coffee Break** 
- 10:45** **Pierre-Emmanuel Rautou**, *Bichat Hospital, Paris*
EVs in liver diseases: on the way from research to the medical analysis laboratory
- 11:30** Blood contains circulating cell-free respiratory competent mitochondria, **Alain Thierry**, *Institute of Cancer Research of Montpellier, INSERM U1194.*
- 11:45** Development of a DLD-based microfluidic device for bio-targeted sorting of extracellular vesicles, **Marie Gaillard**, *CEA, Leti, Grenoble*
- 12:00** **Michiel Pegtel**, *Amsterdam University Medical Center, The Netherlands*
Turning exosomes as dynamic drivers of oncogenesis into a promising liquid biopsy source
- 12:45** **Lunch Break @ Palais de Congres** 

Sep 15th afternoon: EV industrial aspects

*chaired by Medicen – Valerie Brunner and
EVOLVE-France – Sébastien Banzet*

- 14:00** **Amanda Silva / Thibaut Fourniols / Hadrien Lanvin,**
Université de Paris / Everzom / Evora Bioscience
EV production, administration and therapeutic application: from academic research to spin-off companies
- 14:45** Turbulence in spinner flasks increases extracellular vesicle release from non-adherent cells, **Alice Grangier,** *Université de Paris*
- 15:00** Production, biochemical and biophysical characterizations of prokaryotic and eukaryotic extracellular vesicles, **Annie Frelet-Barrand,** *FEMTO-ST Institute, UBFC, UMR6174 CNRS, Besançon*
- 15:15** **Robert Mamoun,** *CILOA, Montpellier, France*
Industrial aspects related to extracellular vesicles for therapy
- 16:00** **Concluding remarks and Young Researcher prize-giving**



