



# FSEV 2024

7<sup>th</sup> FSEV meeting, PMC, Strasbourg, Program



## DAY 1 (afternoon) – MONDAY, NOVEMBER 4<sup>th</sup>

13h40-14h - Welcome introduction: Vincent Hyenne (INSERM, Strasbourg), Christian Neri (IBPS-Paris)



### 14h-15h15 - Session 1: EVs Cell Biology – joint session with the Club Exo-Endo

Chairs: Rania Ghossoub (CRCM, Marseille) and Julien Saint-Pol (Exo-Endo, LBHE, Lille)

**Keynote: Deborah Goberdhan (Oxford, UK):** *Focusing on Rab11a-Exosome Cell Biology: New Insights into Physiological and Pathological Exosome Functions*

Short talk 1: **Rania Ghossoub** (CRCM, Marseille): Role of ADAM10 in the signaling of extracellular vesicles

Short talk 2: **Kuang - Jing Huang** (INSERM, Strasbourg): Tumor EVs secretion relies on the cooperation between EHD4 and Ra/A/B in shaping multi-vesicular bodies

Short talk 3: **Laura Salvessa** (Necker, Institut Curie, Paris): Coated for capture: extracellular vesicles determining biological particle uptake in skin

### 15h15-16h15 Coffee break & Poster session A



### 16h15-17h30 - Session 2: EV Engineering/Methodology – joint session with the French Society of Nanotechnology

Chairs: Marie Morille (ICGM, Univ. Montpellier) and Mathilde Mosser (Oniris, Nantes)

**Keynote: Pieter Vader (UMC Utrecht, Netherlands):** *Extracellular vesicles for RNA delivery: From mechanistic insights towards therapeutic applications*

Short talk 1: **Adiilah Mamode Cassim** (INSERM, CTM, Dijon): Cutting-Edge Microwave-Based Techniques for Analyzing PD-L1 on Extracellular Vesicles: A Novel Approach to Biomarker Detection

Short talk 2: **Maribel Lara Corona** (IPNP, Paris): Manipulation of Tumor Extracellular Vesicles Biodistribution and Uptake in vivo by a Cell-Surface "EV-Trap"

Short talk 3: **Steffi Bosch** (Oniris, Nantes): Insight process scale up: production of extracellular vesicles from anchorage-dependent beta cells

### 17h30-18h Closing, information about the following days

## DAY 2 – TUESDAY, NOVEMBER 5<sup>th</sup>

### 9h-10h15 - Session 3: EVs & Cancer

Chairs: Lucas Treps (CRCI2NA, Nantes) and Christopher Rovera (YN-FSEV, CRCM, Marseille)

**Keynote: Hector Peinado (Madrid, Spain):** *Tumor-secreted EVs, the leading edge of metastasis*

Short talk 1: **Louis Bochler** (INSERM, Strasbourg): Tumor extracellular vesicles promote metastasis through neutrophil mobilization and NETs formation

Short talk 2: **Nadia Cherradi** (INSERM, CEA): Constitutively active Wnt/ $\beta$ -Catenin signaling controls small extracellular vesicle biogenesis, composition and secretion in adrenocortical cancer

Short talk 3: **Shima Ghoroghi** (Institut Curie, Paris): Mechanisms and functions of CSF1 association to extracellular vesicles in anti-tumor immune responses

### 10h15-11h Coffee break & Poster session A

### 11h-12h15 Session 4: EVs in diagnostic and therapy

Chairs: Jessica Gobbo (CGFL, INSERM, Dijon) and Anaïs Becot (YN-FSEV, IPNP, Paris)

**Keynote: Catherine Alix-Panabières (Montpellier, France):** *Liquid Biopsy: From Discovery to Clinical Application*

Short talk 1: **Laetitia Guével** (CRCI2NA, Nantes): Monitoring concentration and lipid signature of plasma extracellular vesicles from HR+ metastatic breast cancer patients under CDK4/6 inhibitors treatment

Short talk 2: **Amandine Dupuy** (INSERM, Nantes): Extracellular vesicles produced by regulatory B cells: new approach in kidney transplantation

Short talk 3: **Lucas Walther** (INSERM, Transgene, Strasbourg): Therapeutic poxvirus triggers the secretion of extracellular vesicles with immunomodulatory anti-tumoral activity

### 12h15-13h Lunch & Poster session A

**13h-14h30 - FSEV General assembly** (Christian Neri, Jessica Gobbo and FSEV board members) / **Presentation of the regional networks / Presentation of the FSEV Young Network**

**FSEV PhD Award 2024**

### 14h30-15h45 - Session 5: FSEV- joint session with the Netherland Society of EVs (NLSEV)

Chairs: Céline Élie-Caille (FEMTO-ST, Besançon) and Rubina Baglio (NLSEV, Amsterdam UMC, Netherlands)

**Keynote: Esther Nolte-t Hoen (Utrecht, Netherlands):** *Formation and function of picornavirus-induced extracellular vesicles*

Short talk 1: **Crescenzo Massaro** (CCA, Netherlands): Tumor-secreted extracellular vesicles counteract bone cancer therapy response by triggering inflammatory mesenchymal stem cell development

Short talk 2: **Marije Kuipers** (Utrecht Univ, Netherlands): EVtrace: proteomic profiling of EV-associated proteins interacting with different recipient cells

Short talk 3: **Louise Merle** (Institut Curie, Paris): Deciphering the fate of tumor derived EVs within immune cells

### 15h45-16h15 Coffee break & Poster session B

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**16h15-17h30 - Session 6: Prokaryotes & Virus EVs – joint session with the French Society of Microbiology**

Chairs: Annie Frelet-Barrand (FEMTO-ST, Besançon) and Priscilla Branchu (SFM, IRSD, Toulouse)

**Keynote: Leo Eberl (Zurich, Switzerland):** *Mechanisms of bacterial vesiculation and their role in biofilm formation and antibiotic resistance*

Short talk 1: **Julia Papail** (INRAE, Rennes): The double life of *Staphylococcus aureus* extracellular vesicles inside and outside the host cells

Short talk 2: **Anaïs Halbert** (INRAE, Nantes): Effects of antibiotherapy on extracellular vesicle production from primary bacterial colonizers of the newborn gut microbiota

Short talk 3: **Julia Bos** (Institut Pasteur, Paris): Extracellular vesicles are key drivers of antibiotic adaptation in bacteria

Evening: Young Researcher Network - FSEV Gala dinner

**DAY 3 – WEDNESDAY, NOVEMBER 6<sup>th</sup>**

**9h30-10h45 - Session 7: EVs in Physiology & Metabolism**

Chair: Cécile Malnou (INFINITY, Toulouse) and Louise Merle (YN-FSEV, Institut Curie, Paris)

**Keynote: Marie Barberon (Geneva, Switzerland):** *EV structures associated with suberin deposition in plant cell walls*

Short talk 1: **Laura Entz** (RMES, Nantes): Characterization of cargos of bone-derived extracellular vesicle in the context of aging

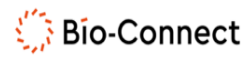
Short talk 2: **Charlene Martin** (INFINITY, Toulouse): Role of extracellular vesicles in placenta-brain dialogue during congenital human cytomegalovirus infection

Short talk 3: **Joan Guillouzouic** (IRSET, Rennes): Effect of Benzo(a)Pyrene on the production of large extracellular vesicles containing mitochondria by endothelial HMEC-1 cells

10h45-11h15 - Coffee break & Poster session B

**11h15-12h30 - Sponsor session: Sponsor talks and Round table: Methodology and technology challenges**

Sponsor talks: Beckman Coulter, Agilent, Izon, Myriade, Bio-Connect



Round Table animated by Marie Morille & Jessica Gobbo

12h30-14h - Lunch & Poster session B



### 14h-15h15 - Session 8: FSEV- joint session with the Belgian Society for EVs (BESEV)

Chairs: Émilie Velot (Univ Lorraine, Nancy) and Basile Stamatopoulos (BSEV, Bruxelles Univ, Belgium)

**Keynote: Pascale Zimmermann (Leuven, Belgium - Marseille, France):** *Engineering of extracellular vesicles for biomedical applications – facing the pharmaceutical reality*

Short talk 1: **Basile Stamatopoulos** (Bruxelles Univ, Belgium): Extracellular vesicles from chronic lymphocytic leukemia cells promote leukemia aggressiveness by inducing the differentiation of monocytes into tumor associated macrophages via an RNA-dependent mechanism

Short talk 2: **Aleksandra Georgievski** (CTM INSERM, Dijon): Development of synthetic extracellular vesicle mimetics for targeting immunosuppressive cells and cancer therapy

Short talk 3: **Priscilla Branchu** (IRSD, Toulouse): Pathogenic *Escherichia coli* produce specific extracellular vesicles that alter epithelial permeability

### 15h15-15h35 - Coffee break & Poster session B

### 15h35-16h50 - Session 9: EVs in neurosciences & cardio-vascular biology

Chairs: Christian Neri (IBPS, Paris) and Natayme Rocha Tartaglia (YN-FSEV, Institut Curie, Paris)

**Keynote: Guillaume Van Niel (Nantes, France):** *The winding road of CD63*

Short talk 1: **Corentin Bernou** (IRIM, Montpellier): Cultured adult human brain explants to investigate the role of extracellular vesicles in network electrophysiological activity

Short talk 2: **Sandy Hmadeh** (CRBS, Strasbourg): Extracellular Vesicle Generation by Osteogenic Valvular Interstitial Cells: Potential Role in Valvular Dysfunction and Remodeling

Short talk 3: **Laura Merlet** (CRCI2NA, Nantes): Exploring the functions of centriolar satellites in glioblastoma

### 16h50-17h15 - Closing ceremony & Awards

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#### FSEV 2024 Local Organizing committee

Céline Élie-Caille (FEMTO-ST, Besançon), Annie Frelet-Barrand (FEMTO-ST, Besançon), Rania Ghossoub (CRCM, Marseille), Jessica Gobbo (CGFL, INSERM, Dijon), Vincent Hyenne (CNRS, INSERM, Strasbourg), Cécile Malnou (INFINITY, Toulouse), Marie Morille (ICGM, Univ. Montpellier), Christian Neri (IBPS-Paris), Julien Saint-Pol (LBHE, Lille), Lucas Treps (CRCI2NA, Nantes), Émilie Velot (Univ Lorraine, Nancy)

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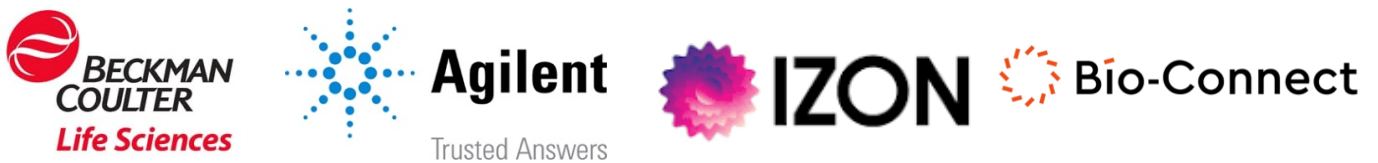


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