



## FSEV Newsletter—February 2025

Dear FSEVers,

We are pleased to announce that FSEV will grant **4 travel fellowships** for young researchers to participate to the **ISEV 2025 meeting**: please send your application to [mehdi.kabani@cnrs.fr](mailto:mehdi.kabani@cnrs.fr).

We are also pleased to announce that FSEV will increase the amount of MOVE fellowships to 3000€, effective this year!

2025 is going to be an exciting year for our community with several key conferences at the initiative of FSEV including **EV2025** organized in Paris with INSERM in June and the **online FSEV meeting** organized by the YN-FSEV in November.

October 29-31, 2025, Montréal, Québec: save the dates for the **2nd international conference on Extracellular Vesicles in Nervous Systems** organized by the ISEV's SIG EViNS! Several hot topics will be covered. During ISEV 2025 in Vienna, EViNS will organize a satellite social event. Stay tuned for updates!


We look forward to connecting with you at the upcoming events and throughout the entire occasion.

The FSEV board



### News

**FSEV web site**: we are working on a new FSEV web site that will be filled with new info and features. We will keep you updated when the new site is up and running. The FSEV web site is down at the moment. As a consequence, our gmail account is also unavailable for the time being. Until further notice, urgent requests (info for the newsletter, travel grants applications, etc.) should be sent to [mehdi.kabani@cnrs.fr](mailto:mehdi.kabani@cnrs.fr).

**FSEV is leaving X** : You can follow FSEV on LinkedIn 

**FSEV Working Groups** : Following a proposal during the last FSEV General Assembly to create thematic working groups (WG), we call to consider, as a first step, the development of a **WG on bacterial extracellular vesicles (BEVs)**. To this end, we would like to identify the members of the French community working on this topic in order to discuss the need to create such a group. If this sounds like you, **please email Éric Guédon ([eric.guedon@inrae.fr](mailto:eric.guedon@inrae.fr))**. Please also help us to circulate our request to any colleagues who might be potentially interested.

**Call for ISEV2025 fellowships for young researchers**. The FSEV board is pleased to offer 4 fellowships (including one for a late breaking abstract) to support young researchers attending ISEV 2025. These fellowships will cover : ISEV Membership for one year and Early registration fees at member rate (registration before March 7).

These fellowships are open to **non-permanent researchers** selected by ISEV2025 to present their work as either an oral or poster presentation. **Applications are now open!** To apply, please send an email with the subject "IS 2025 Fellowship" to [mehdi.kabani@cnrs.fr](mailto:mehdi.kabani@cnrs.fr) as a single pdf: 1) a short CV including your laboratory status, communications to previous meetings and publications if applicable, 2) abstract submitted to USE 2025, 3) ISEV notification of oral or poster presentation.

**Deadline for application : 28/02/2025**



### EVENTS

#### ISEV

**ISEV2025 Annual Meeting**: Save the date! **23-27/04/25, Vienna, Austria** (Education day: 23/04/25 and Annual meeting: 24-27/04/25). Visit the ISEV2025 website for updates <https://isev2025.eventscribe.net/>

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## EVENTS

### ISEV

**Additional Upcoming Events:** ISEV Workshop on EV Biomolecular Corona, 27-28/02/2025

Visit ISEV website for more information at <https://www.isev.org/>

### OTHERS

#### Virtual events, Conferences and Courses

**EV2025**, an international conference organized by **three INSERM's Thematic Institutes** and by **FSEV, Paris, June 25-27**. Short talks will be selected: register and submit your abstract at: <https://itbcde.inserm.fr/index.php?pagendx=736>

Accelerating the translation of fundamental discoveries into novel biomarkers and therapeutic strategies requires high-precision tools specifically designed for EV research. Additionally, deeper mechanistic insights into EV biology are essential to ensure robust and meaningful clinical applications.

At the initiative of FSEV, and together with Inserm's Thematic Institutes (ITs), the EV2025 meeting will focus on:

1. Recent advances in understanding the biology and function of EVs.
2. Cutting-edge developments in the detection, isolation, and characterization of EVs for disease research, including their engineering and therapeutic applications.

EV2025 will provide an opportunity to present the state-of-the-art and to assess the community's readiness to tackle specific public-health challenges through EV research and innovation.

**Inserm**  
A symposium organized by Inserm thematic institutes:  
• Cell biology, reproduction, development and evolution (BCRDE)  
• Health technologies (ITS)  
• Immunology, inflammation, infectiology and microbiology (ISM)

**Université Paris Cité**

**FSEV** SOCIÉTÉ FRANÇAISE DES EXTRACELLULAIRES VÉSICULAIRES

**Extracellular Vesicles (EV 2025)**  
June 25-27 2025

**Invited speakers**

Fabrizia **Ambrosio** (Charlestown - USA),  
Sébastien **Banzet** (Clamart - France), Luc **Buée** (Lille - France), Celine **Elie-Caille** (- France), Juan **Falcon** (Bizkaia - Spain), Jessica **Gobbo** (Dijon - France), An **Hendrix** (Gent - Belgium), Guilhem **Janbon** (Paris - France), Gregory **Lavieux** (Paris - France), Lorena **Martin-Jaular** (Paris - France), Stefan **Momma** (Frankfurt - Germany), Marie **Morille** (Montpellier - France), Daniele **Noel** (Montpellier - France), Jason **Shepherd** (Salt Lake City - USA), Clotilde **Théry** (Paris - France), Fred **Verweij** (Utrecht - The Netherlands), Pascale **Zimmerman** (Leuven - Belgium)

**Organizing committee**

Franck **Dufour**, IT ISM  
Thierry **Galli**, IT BCRDE  
Ama **Gassama Diagne**, IT BCRDE  
Nathalie **Heuzé-Vourc'h**, IT TS  
Christine **Lemaitre**, IT BCRDE  
Franck **Lethimonnier**, IT TS  
Christian **Neri**, FSEV  
Patricia **Renesto**, IT ISM  
Yazdan **Yazdanpanah**, IT ISM

**Registration**  
**Free but mandatory**

Amphitheater Buffon, 15 rue Hélène Brion, 75013 Paris

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**Cold Spring Harbor Asia conference** on “Molecular Mechanisms and Physiology of Unconventional Secretion” in Suzhou (China), 10-14/03/2025. The conference will include eight oral sessions and one poster session covering the latest findings across many topics in Unconventional Secretion. Many talks will be selected from the openly submitted abstracts on the basis of scientific merit and relevance. **FSEV member Speaker: Clotilde Théry**  
More information at <https://www.csh-asia.org/?content/2492>

**11th European Conference on Tetraspanins**, 17-19/09/2025, Montpellier. The conference will cover various aspects of tetraspanin biology, including extracellular vesicles. More information to come!

**Young Network (YN)-FSEV Webinar series.** For their next webinar, YN-FSEV will have the pleasure of welcoming Dr Guillaume van Niel (FSEV past president; Team EVICAT, CRCI2NA, Nantes). Dr Van Niel will present tools developed in his team to investigate the life cycle of EVs and their properties.

See you on Wednesday, **February 19th at 4 pm on Zoom** at the following link:

<https://univ-rennes1-fr.zoom.us/j/63430851710>

ID de réunion: 634 3085 1710

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#### PhD Defense

**Solène Ducarre** (Université de Rennes) : “Nanoparticules luminescentes pour sonder les Vésicules extracellulaires du micro-environnement gamétique humain” 06/12/2025. Co-supervisors : Valérie Marchi et Célia Ravel

**Pauline Guillot** (Université Jean Monnet, Saint-Etienne) : “Analyse des effets du syndrome d'apnée obstructive du sommeil sur la barrière hémato-encéphalique associée au vieillissement. Mise en place d'une stratégie de prévention des risques cérébro-vasculaires par recherche de biomarqueurs : les vésicules extracellulaires” 16/12/2024. Co-supervisors : Nathalie Perek, Frédéric Roche, and Nathalie Barth.

**Maribel Lara Corona** (Université Paris Cité) : “Etude des propriétés d'exosomes modifiés en tant que véhicules thérapeutiques in vivo” 13/12/24. Supervisors : Guillaume van Niel



### Job opportunities

**A 1-year (renewable) study engineer position (IE CDD) is available in the lab of Christian Neri (IBPS, Paris)** to study the role and biomarker potential of extracellular vesicles secreted by human Huntington's disease neurons in collaboration with the lab of Clotilde Thery (Institut Curie, Paris). Starting date is June 1st, 2025. Candidates should hold a M2 in cell biology, or a related field, obtained no more than 3 years ago. At least a 1-year post-master research experience in cell biology is mandatory. Hands-on experience in studying EVs will be a major plus. Interested candidates should apply immediately. Please send a letter of motivation, a full CV, and the names and emails of two references to [Christian.neri@inserm.fr](mailto:Christian.neri@inserm.fr).  
<https://www.ibps.sorbonne-universite.fr/en/research/neuroscience/brain-c>

**Research scientific permanent position** will very likely be open for competition in 2025 in the field of bacterial extracellular vesicle and interaction with intercellular interactions (bacteria-bacteria and bacteria-eukaryotic cells). Follow this link to be notified as soon as the position is confirmed: <https://jobs.inrae.fr/en>  
In the meantime, feel free to contact Eric Guédon ([eric.guedon@inrae.fr](mailto:eric.guedon@inrae.fr)) for more information.



### Recent publications from FSEV community

#### Editorial

Crescitelli R, Falcon-Perez J, Hendrix A, Lenassi M, Minh LTN, Ochiya T, Noren Hooten N, Sandau U, Théry C, Nieuwland R. Reproducibility of extracellular vesicle research. J Extracell Vesicles. 2025 Jan;14(1):e70036. doi: 10.1002/jev2.70036. PMID: 39822156.

#### Opinion

Bare Y, Defourny K, Bretou M, Van Niel G, Nolte-'t Hoen E, Gaudin R. The endoplasmic reticulum as a cradle for virus and extracellular vesicle secretion. Trends Cell Biol. 2024 Dec 26:S0962-8924(24)00250-2. doi: 10.1016/j.tcb.2024.11.008. Epub ahead of print. PMID: 39730274.

#### Letter

Trioën C, Soulier T, Massoud J, Bouchez C, Stoup N, Lefebvre A, Dewalle AS, Grolez GP, Delhem N, Moralès O. Efficient 5-ALA-photodynamic therapy in nasopharyngeal carcinoma induces an immuno-activation mediated by tumoral extracellular vesicles and associated with immunogenic cell death. Cancer Commun (Lond). 2025 Jan 3. doi: 10.1002/cac2.12656. Epub ahead of print. PMID: 39749695.

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### Recent publications from FSEV community

#### Review

- Constanzo J, Pouget JP. Extracellular vesicles role in radio(nuclide)therapy. J Radiat Res. 2024 Dec 16;65(Supplement\_1):i6-i14. doi: 10.1093/jrr/rrae084. PMID: 39679885.
- Pérez Vázquez K, Tau J, Leal Denis MF, Fader CM, Ostuni MA, Schwarzbach PJ, Herlax V. Alpha hemolysin of Escherichia coli induces a necrotic-like procoagulant state in platelets. Biochimie. 2024 Dec;227(Pt A):1-14. doi: 10.1016/j.biochi.2024.06.001. Epub 2024 Jun 8. PMID: 38857695.
- Sánchez SV, Otavalo GN, Gazeau F, Silva AKA, Morales JO. Intranasal delivery of extracellular vesicles: A promising new approach for treating neurological and respiratory disorders. J Control Release. 2025 Jan 18;379:489-523. doi: 10.1016/j.jconrel.2025.01.018. Epub ahead of print. PMID: 39800240.

#### Biomarkers

- Boulestreau J, Molina L, Ouedraogo A, Laramy L, Grich I, Van TNN, Molina F, Kahli M. Salivary extracellular vesicles isolation methods impact the robustness of downstream biomarkers detection. Sci Rep. 2024 Dec 28;14(1):31233. doi: 10.1038/s41598-024-82488-3. PMID: 39732788.
- Charles S, Fatrara T, Bouriche T, Bonifay A, Lecompte T, Dignat-George F, Tardy B, Frere C, Lacroix R, Chalayer E. Tissue factor-bearing extracellular vesicles, procoagulant phospholipids and D-dimer as potential biomarkers for venous thromboembolism in patients with newly diagnosed multiple myeloma: A comprehensive analysis. Thromb Res. 2025 Jan 10;247:109256. doi: 10.1016/j.thromres.2025.109256. Epub ahead of print. PMID: 39823789.
- Kraft A, Kirschner MB, Orlowski V, Ronner M, Bodmer C, Boeva V, Opitz I, Meerang M. Exploring RNA cargo in extracellular vesicles for pleural mesothelioma detection. BMC Cancer. 2025 Feb 7;25(1):212. doi: 10.1186/s12885-025-13617-y. PMID: 39920655.
- Mohamed AH, Abaza T, Youssef YA, Rady M, Fahmy SA, Kamel R, Hamdi N, Efthimiado E, Braoudaki M, Youness RA. Extracellular vesicles: from intracellular trafficking molecules to fully fortified delivery vehicles for cancer therapeutics. Nanoscale Adv. 2025 Jan 15. doi: 10.1039/d4na00393d. Epub ahead of print. PMID: 39823046.
- Richard M, Moreau R, Croyal M, Mathiot L, Frénel JS, Campone M, Dupont A, Gavard J, André-Grégoire G, Guével L. Monitoring concentration and lipid signature of plasma extracellular vesicles from HR+ metastatic breast cancer patients under CDK4/6 inhibitors treatment. J Extracell Biol. 2024 Dec 17;3(12):e70013. doi: 10.1002/jex2.70013. PMID: 39691590.
- Szunerits S, Chuang EY, Yang JC, Boukherroub R, Burnouf T. Platelet extracellular vesicles-loaded hydrogel bandages for personalized wound care. Trends Biotechnol. 2025 Jan 24;S0167-7799(24)00393-7. doi: 10.1016/j.tibtech.2024.12.010. Epub ahead of print. PMID: 39863439.

#### Cancer

- Forte D, Pellegrino RM, Falvo P, Garcia-Gonzalez P, Alabed HBR, Maltoni F, Lombardi D, Bruno S, Barone M, Pasini F, Fabbri F, Vannini I, Donati B, Cristiano G, Sartor C, Ronzoni S, Ciarrocchi A, Buratta S, Urbanelli L, Emiliani C, Soverini S, Catani L, Bertolini F, Argüello RJ, Cavo M, Curti A. Parallel single-cell metabolic analysis and extracellular vesicle profiling reveal vulnerabilities with prognostic significance in acute myeloid leukemia. Nat Commun. 2024 Dec 30;15(1):10878. doi: 10.1038/s41467-024-55231-9. PMID: 39738118.
- Puppo M, Croset M, Ceresa D, Valluru MK, Canuas Landero VG, Hernandez Guadarrama M, Iuliani M, Pantano F, Dawn Otte-well P, Clézardin P. Protective effects of miR-24-2-5p in early stages of breast cancer bone metastasis. Breast Cancer Res. 2024 Dec 18;26(1):186. doi: 10.1186/s13058-024-01934-2. PMID: 39696397.

#### Inflammation

- Payet T, Astier J, Bournot L, Sicard F, Robert S, Lacroix R, Wabitsch M, Landrier JF, Mounien L. Vitamin D modulates the content of inflammatory microRNAs in extracellular vesicles from human adipocyte cells in inflammatory context. Biofactors. 2025 Jan-Feb;51(1):e70003. doi: 10.1002/biof.70003. PMID: 39887543.
- Tessier S, Halgand B, Aubeux D, Véziers J, Galvani A, Jamoneau J, Pérez F, Geoffroy V, Gaudin A. Small Extracellular Vesicles Derived from Lipopolysaccharide-Treated Stem Cells from the Apical Papilla Modulate Macrophage Phenotypes and Inflammatory Interactions in Pulpal and Periodontal Tissues. Int J Mol Sci. 2024 Dec 31;26(1):297. doi: 10.3390/ijms26010297. PMID: 39796155.

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### Recent publications from FSEV community

#### Methods

Korenjak B, Tratenšek A, Arko M, Romolo A, Hočevár M, Kisovec M, Berry M, Bedina Zavec A, Drobne D, Vovk T, Iglič A, Nemec Svete A, Erjavec V, Kralj-Iglič V. Assessment of Extracellular Particles Directly in Diluted Plasma and Blood by Interferometric Light Microscopy. A Study of 613 Human and 163 Canine Samples. *Cells*. 2024 Dec 12;13(24):2054. doi: 10.3390/cells13242054. PMID: 39768146.

#### Microbiology

-Bernabe MCM, Fonseca BB, Silva MVC, Pedrosa IE, Silva MB, Sommerfeld S, de Sousa ALP, de Leva Resende BC, Sousa ACP, Dos Santos Freitas A, de Azevedo VAC, Guédon É, da Silva ESM. Equine endometrial bacteria inhibition by metabolite and extracellular vesicles of *Lactobacillus acidophilus* and *Lactiplantibacillus plantarum*. *Vet Res Commun*. 2025 Jan 2;49(1):61. doi: 10.1007/s11259-024-10626-3. PMID: 39747753.

-Goman A, Ize B, Jeannot K, Pin C, Payros D, Goursat C, Ravon-Katosky L, Murase K, Chagneau CV, Revillet H, Taieb F, Bleves S, David L, Meunier E, Branchu P, Oswald E. Uncovering a new family of conserved virulence factors that promote the production of host-damaging outer membrane vesicles in gram-negative bacteria. *J Extracell Vesicles*. 2025 Jan;14(1):e270032. doi: 10.1002/jev2.70032. PMID: 39840902.

#### Mineralization

-Cominal JG, Gobbi Sebinelli H, Hayann L, Nogueira LFB, Cruz MAE, Mello MT, da Silva Andrilli LH, Bolean M, Ramos AP, Mebarek S, Bottini M, Millán JL, Ciancaglini P. A protein corona modulates the function of mineralization-competent matrix vesicles. *JBMR Plus*. 2024 Dec 24;9(2):ziae168. doi: 10.1093/jbmrpl/ziae168. PMID: 39877729.

#### Regenerative medicine

-Alric H, Mathieu N, Sebbagh A, Peré G, Demarquay C, Cronemberger A, Berger A, Marcel B, Wilhelm C, Gazeau F, Mariani A, Karoui M, Clément O, Araujo-Filho I, Silva AKA, Rahmi G. Thermoresponsive gel embedding extracellular vesicles from adipose stromal cells improves the healing of colonic anastomoses following irradiation in rats. *Commun Biol*. 2024 Dec 19;7(1):1673. doi: 10.1038/s42003-024-07364-2. PMID: 39702754.

-Burdeyron P, Giraud S, Lepoittevin M, Jordan N, Brishoual S, Jacquard M, Ameteau V, Boildieu N, Lemarie E, Daniel J, Martins F, Mélis N, Coué M, Thuillier R, Leuvenink H, Pellerin L, Hauet T, Steichen C. Dynamic conditioning of porcine kidney grafts with extracellular vesicles derived from urine progenitor cells: A proof-of-concept study. *Clin Transl Med*. 2024 Dec;14(12):e70095. doi: 10.1002/ctm2.70095. PMID: 39673122.

-Tissot FS, Estrach S, Seguin L, Cailleteau L, Levy A, Aberdam D, Féral CC. Functional transfer of integrin co-receptor CD98hc by small extracellular vesicles improves wound healing in vivo. *Matrix Biol*. 2025 Feb;135:99-105. doi: 10.1016/j.matbio.2024.12.006. Epub 2024 Dec 12. PMID: 39674554.

#### Vesicle secretion

Lauritzen I, Bini A, Bécot A, Gay AS, Badot C, Pagnotta S, Chami M, Checler F. Presenilins as hub proteins controlling the endocytic and autophagic pathways and small extracellular vesicle secretion. *J Extracell Vesicles*. 2025 Jan;14(1):e70019. doi: 10.1002/jev2.70019. PMID: 39815792.

#### Viruses

Hirigoyen U, Guilbaud C, Krejbich M, Fouet M, Fresquet J, Arnaud B, Com E, Pineau C, Cadiou G, Burlaud-Gaillard J, Erbs P, Fradin D, Labarrière N, Fonteneau JF, Petithomme T, Boisgerault N. Oncolytic viruses alter the biogenesis of tumor extracellular vesicles and influence their immunogenicity. *Mol Ther Oncol*. 2024 Sep 26;32(4):200887. doi: 10.1016/j.omton.2024.200887. PMID: 39492948.

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