



This newsletter, created to promote spreading of information on EVs, is yours! Do not hesitate to [send any information you wish to see there or any request to newsletter@fsev.fr](mailto:newsletter@fsev.fr)

September 2024

Dear FSEVers,

We wish the best for your research as we enter the 4th quarter of the year.

Our community is growing and getting more connected, and 2024 and 2025 will be pivotal years for the FSEV, with several ongoing initiatives that will be presented and discussed at the **Strasbourg congress**. We strongly encourage you to register (**registrations are open until October 18th**) if you have not already done so for this very important event in our community!

Looking forward to meeting you all in Strasbourg!
The FSEV board

NEWS:

@ FSEV Congress 2024 will be held on **04-06/11/2024** in Palais des Congrès de Strasbourg. **We look forward to welcoming you all for an exceptional meeting!** The 2024 FSEV meeting is an international event, and space is limited. See the updated program https://www.fsev.fr/uploads/9/8/7/0/98705346/preliminary_program-fsev24_v5.pdf

Registrations are open until October 18th!

Do not miss out this opportunity to be part of a high-profile conference. Join scientific leaders, young researchers, representatives of national societies, innovators, industrials and like-minded professionals as we discuss the latest advances in EV research and novel initiatives for promoting our community. Foster the visibility of your lab and make new connections in France and abroad.

Registrations at <https://secure.key4events.com/key4register/?e=1712>

@ FSEV2024 PhD Awards (500€ grants) open to **PhD theses defended in France from the 01/09/2023 to the 31/08/2024** with outstanding contributions in the field of Extracellular Vesicles.

Please spread the word to former PhDs who may no longer receive FSEV emails.

The Winner will have a chance to **present her/his work at the FSEV Congress 2024** in Strasbourg.

To apply, please send a single pdf file including: your CV, a summary of your work using a graphical abstract, a short motivation letter (≤ 1 page), the reports of the PhD defense, a recommendation letter from your PhD supervisor to calls@fsev.fr

Deadline for application: **15/10/2024**

@ AAP Cluster Health 2025: A call on “**Advancing cell secretome-based therapies**” will be presented online to FSEV members by INSERM on **October 21st at 3pm**. More information to come.

@ Your news: You've got some piece of news? Please send us what to cover in our next newsletter at admin@fsev.fr

@ LinkedIn: also remember to follow us at <https://www.linkedin.com/company/french-society-for-extracellular-vesicles-fsev/?viewAsMember=true>

@ Join the Young Network-FSEV (YN-FSEV): you will just have to fill this form (<https://forms.gle/r1Sczeh2mH8UrRso9>) and accept the charter to guarantee a safe and professional space for everyone. All you'll have to do after is click on the link you will receive on your email address.

This platform (SLACK) is now open to postdocs, PhD students, master students, technicians and engineers with **no more than 6 years experience**, working on EVs in French labs. For those who don't meet these criteria, don't hesitate to contact the FSEV network. For any question you can reach us at yn.fsev@gmail.com."

@ MOVE European Mobility Fellowships 2024

EV societies across Europe have got together to form **MOVE (MObility for Vesicles research in Europe)** to give early-stage scientists the opportunity to work in a different European lab in 2024.

The MOVE European Mobility Fellowship aims to foster collaborations between members of different European EV Societies and Networks. The Fellowship will enable Early-Career Researchers (the applicants) to travel to another lab in Europe (the hosts) to develop both their technical skills and enlarge their own professional networks.

The Fellowship is intended for technicians, PhD students and early-stage postdoctoral researchers (≤ 5 years, excluding career breaks). There may be some exceptions. This is left to the discretion of each national society.

FSEV will offer two Fellowships to cover travel and subsistence (but not bench fees) to work within a host lab at an academic institution in a different European country for 1-3 months, to a maximum value of €2000.

Process: <https://www.ukev.org.uk/move-mobility-ev-europe/>

- Look up host labs registered with the project on:

<https://docs.google.com/spreadsheets/d/19y7JppcAJLyTlaV21A5YCpyAfhtivkUh/edit?usp=sharing&ouid=106664164426554744978&rtpof=true&sd=true>

Applications are now open to study abroad!

- Contact the host lab directly to discuss your proposed project

- Apply for the placement through the specific forms and process of your society
This is a rolling application and different societies will have different times to apply and rules, so contact them directly.

ISEV (International Society for EVs) EVENTS:

@ 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/>

@ ISEVxTech, 21-23/11/2024, Baltimore (Maryland, USA).

Last held in 2022, ISEVxTech has been one of ISEV's most popular meeting offerings and centers on extensive, often hands-on demonstrations of technologies and methods, surrounded by fascinating talks, panel discussions, poster sessions, and interactive offerings. More information at <https://www.isev.org/isevxtech2024>

@ Additional Upcoming Events

2nd Move Symposium, 8-11/10/2024, Belgrade (Serbia)

APSEV2024 Asia Pacific Spotlight on EVs, 15/11/2024, Guangzhou (China)

2024 CSEVP, 2-4/12/2024, Rome (Italy)

ISEV Workshop on EV Biomolecular Corona, 27-28/02/2025

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

OTHER EV EVENTS:

Virtual events, Conferences and Courses

@ Webinaires de l'Association Française de Cytométrie (AFC), 10/10/2024 at noon.
Please see <https://www.alphavisa.com/webinars/afc/2024/documents/Webinaires-AFC-2024.html>

It is our great pleasure to announce the registration for the first High-Content Cytometry Day to be held on Thursday June 13th, 2024 in Lille (France) at the Institut Pasteur.

@ IMMUNOCELL : Maladies auto-immunes et thérapies cellulaires innovantes, Diplôme Universitaire de la Faculté de Médecine de Montpellier, inscriptions 2024-2025 sous l'égide de l'IHU Immun4Cure où des cours sur les EVs seront dispensés.

Information ci-après: <https://du-diu-facmedecine.umontpellier.fr/diplome-immunocell-maladies-auto-immunes-et-therapies-cellulaires-innovantes-303>

@ Precision EV Forum: EVs in medicine, 23-24/10/2024, Cambridge (UK)

The EV and exosomes field is followed by a large, enthusiastic, and dedicated research community that is extremely relevant to precision medicine, encompassing precise diagnostics and targeted treatment with great potential for precision medicine. The EV Forum, will focus on translational aspects of EV research and development that will have clinical applications, including Biomarkers, Diagnostics, Therapeutics, Drug Delivery and Regenerative Medicine.

Full program and registration at <https://www.precisionmedicineforum.com/our-conferences/extracellular-vesicles-2024/>

@ 27th “Cytometry” annual congress, 17-19/12/2024, Marseille, organized by our partner [AFC](#). More information at https://www.alphavisa.com/afc/documents/Prenez-dates-AFC_2024_Marseille.html

It is our great pleasure to announce the registration for the first High-Content Cytometry Day to be held on Thursday June 13th, 2024 in Lille (France) at the Institut Pasteur.

@ 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>

PhD Defense

@ Aleksandra Georgievski:

Rôle des vésicules extracellulaires produites par les cellules leucémiques et développement d'immunoliposomes thérapeutiques pour le traitement des cancers hématologiques

20/09/2024. Supervisor: Ronan Quéré (Inserm U1231 Center of translational and molecular medicine, Université de Bourgogne, Dijon)

JOB OPPORTUNITIES:

For more details, please see FSEV website (<https://www.fsev.fr/jobs.html>)

In order to keep the job offers up to date, we ask employers to indicate monthly (before the last week of the current month), whether the offer is still open.

If no update information is provided, the announcement will be deleted from this section. Thank you for your understanding!

@ 6-month Master 2 internship is open at Université de Lorraine (Nancy, France) from **January to June 2025** on hybrid vesicles as new therapeutics to regenerate cartilage.

Osteoarthritis is the most common cause of articular cartilage degeneration. To date, there are no pharmacological treatments capable of regenerating cartilage and there is a highly unmet medical need for disease-modifying therapies. This project will lead to a PhD. It aims to develop hybrid vesicles by fusing extracellular vesicles and liposomes to create a curative treatment for osteoarthritis and regenerate articular cartilage.

The work will be done at the molecular engineering and physiopathology laboratory (IMoPA UMR CNRS 7365/Université de Lorraine) in collaboration with the biomolecular engineering laboratory (LIBio, Université de Lorraine/ENSAIA, Nancy). We are seeking for a person interested in interdisciplinary projects with a strong motivation to learn and a great interest in biomedical innovation. A background in cellular and molecular biology, biochemistry, or nanotechnology-bioengineering would be appreciated. An ability to work independently, rigor, curiosity as well as good written and oral communication skills are required to realize this research successfully. A solid capacity for autonomous and creative thinking would be considered.

Please apply before **November 8th 2024** by sending a motivation letter, your CV, and the contact details of two referees to: elmira.arab-tehrany@univ-lorraine.fr and emilie.velot@univ-lorraine.fr

@ Marseille-position for an engineer, coordinating the EV-scientific platform of the Region PACA. We are looking for a motivated candidate to fill the position of engineer responsible for the management of the CEEVEC (Centre d'Expertises et d'Expérimentations sur les Vésicules Extracellulaires en Cancérologie) platform. The engineer will be responsible for the training and supervision of the users of the CEEVEC facility, designing experiments in concert with the scientific staff, conducting experiments as service provider, and coordinating the follow-up of the projects and interaction with the scientific steering committee. The engineer will also manage the CEEVEC financials, including requests for funding and service revenues, develop the platform by identifying "calls for proposals" and coordinating ad hoc responses, manage the equipment, coordinate the user network, and organize training days and scientific meetings.

The ideal candidate should possess excellent organizational and problem-solving skills, be familiar with project management and, have expertise in the 'Extracellular Vesicle'-field. Fluency in both French and English (written and spoken) is a must. If you are passionate about research, education, innovation and coordination, we encourage you to apply for this exciting opportunity to shape the future development of our activities. This engineer position is funded by Canceropôle PACA for up to three years. For more information about this opportunity, you can contact rania.ghossoub@inserm.fr and pascale.zimmermann@inserm.fr.

To apply, please send a motivation letter, your CV, and the contact details of two referees via e-mail to: richard.tomasini@inserm.fr and laurent.gagnoux@unice.fr

RECENT publications from the french FSEV community:

SEND US YOUR ACCEPTED PAPERS

@ Editorial

-Kanellopoulos JM, Rieux-Laucat F, Ojcius DM. Biological functions of extracellular vesicles from mammalian cells. *Biomed J.* 2024 Sep 12;47(5):100788. doi: 10.1016/j.bj.2024.100788. Epub ahead of print. PMID: 39276866.

@ Comment

-Carbillon L. Long-term cardiovascular protection by normotensive placental extracellular vesicles. *Am J Obstet Gynecol.* 2024 Aug;231(2):e83. doi: 10.1016/j.ajog.2024.03.029. Epub 2024 Mar 22. PMID:38522721.

@ Spotlight

-Codron P, Millecamps S, Corcia P. EVolution in ALS diagnosis: molecular markers in extracellular vesicles. *Trends Mol Med.* 2024 Jul 27:S1471-4914(24)00192-8. doi: 10.1016/j.molmed.2024.07.006. Epub ahead of print. PMID: 39069396.

@ Review

-Filippini F, Galli T. Unveiling defects of secretion mechanisms in Parkinson's disease. *J Biol Chem.* 2024 Jul 25;300(9):107603. doi: 10.1016/j.jbc.2024.107603. Epub ahead of print. PMID: 39059489.

-Hu HT, Nishimura T, Kawana H, Dante RAS, D'Angelo G, Suetsugu S. The cellular protrusions for inter-cellular material transfer: similarities between filopodia, cytonemes, tunneling nanotubes, viruses, and extracellular vesicles. *Front Cell Dev Biol.* 2024 Jul 5;12:1422227. doi: 10.3389/fcell.2024.1422227. PMID: 39035026.

-Kurma K, Eslami-S Z, Alix-Panabières C, Cayrefourcq L. Liquid biopsy: paving a new avenue for cancer research. *Cell Adh Migr.* 2024 Dec;18(1):1-26. doi: 10.1080/19336918.2024.2395807. Epub 2024 Sep 1. PMID: 39219215.

-Larbi A. From Genesis to Old Age: Exploring the Immune System One Cell at a Time with Flow Cytometry. *Biomedicines.* 2024 Jul 3;12(7):1469. doi: 10.3390/biomedicines12071469. PMID:39062042.

-Merret PE, Sparfel L, Lavau C, Lagadic-Gossmann D, Martin-Chouly C. Extracellular vesicles as a potential source of biomarkers for endocrine disruptors in MASLD: A short review on the case of DEHP. *Biochimie.* 2024 Sep 21:S0300-9084(24)00219-0. doi: 10.1016/j.biochi.2024.09.009. Epub ahead of print. PMID:39307409.

- Michaelis S, Gomez-Valero L, Chen T, Schmid C, Buchrieser C, Hilbi H. Small molecule communication of *Legionella*: the ins and outs of autoinducer and nitric oxide signaling. *Microbiol Mol Biol Rev.* 2024 Sep 26;88(3):e0009723. doi: 10.1128/mubr.00097-23. Epub 2024 Aug 20. PMID: 39162424.

-Smadja DM. Extracellular Microvesicles vs. Mitochondria: Competing for the Top Spot in Cardiovascular Regenerative Medicine. *Stem Cell Rev Rep.* 2024 Jul 8. doi: 10.1007/s12015-024-10758-8. Epub ahead of print. PMID: 38976143.

@ Biomarkers

-Amossé J, Souki R, El Hajjar M, Marques M, Genêt V, Février A, Le Gall M, SaintPierre B, Letourneur F, Le Ferrec E, Lagadic-Gossmann D, Demeilliers C, Sparfel L. Exploration of microRNAs from blood extracellular vesicles as biomarkers of exposure to polycyclic aromatic hydrocarbons. *Ecotoxicol Environ Saf.* 2024 Sep 20;285:117065. doi: 10.1016/j.ecoenv.2024.117065. Epub ahead of print. PMID:39305779.

-Brugière O, Dreyfuss D, Guilet R, Rong S, Hirschi S, Renaud-Picard B, Reynaud-Gaubert M, Coiffard B, Bunel V, Messika J, Demant X, Le Pavec J, Dauriat G, Saint Raymond C, Falque L, Mornex JF, Tissot A, Lair D, Le Borgne Krams A, Bousseau V, Magnan A, Picard C, Roux A, Glorion M, Carmagnat M, Gazeau F, Aubertin K, Carosella E, Vallée A, Landais C, Rouas-Freiss N, LeMaout J; COLT Consortium. Circulating Vesicular-bound HLA-G as Noninvasive Predictive Biomarker of CLAD After Lung Transplantation. *Transplantation.* 2024 Sep 19. doi: 10.1097/TP.0000000000005175. Epub ahead of print. PMID:39294868.

@ Brain

-Delila L, Nebie O, Le NTN, Timmerman K, Lee DY, Wu YW, Chou ML, Buée L, Chou SY, Blum D, Devos D, Burnouf T. Neuroprotective effects of intranasal extracellular vesicles from human platelet concentrates supernatants in traumatic brain injury and Parkinson's disease models. *J Biomed Sci.* 2024 Sep 5;31(1):87. doi: 10.1186/s12929-024-01072-z. PMID: 39237980.

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@ Cancer

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exosome biogenesis as a driver of immune escape in hepatocellular carcinoma. *Elife*. 2024 Jul 15;13:RP95191. doi: 10.7554/eLife.95191. PMID: 39008536.

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@ Cell biology

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@ EV engineering

-Simon L, Constanzo J, Terraza-Aguirre C, Ibn Elfekih Z, Berthelot J, Benkhaled BT, Haute T, Pednekar K, Clark K, Emerson SJ, Atis S, Benedetti C, Langlois S, Marquant A, Prakash J, Wang A, Devoisselle JM, Montier T, Djouad F, Pouget JP, Lapinte V, Morille M. Surface modification of extracellular vesicles with polyoxazolines to enhance their plasma stability and tumor accumulation. *Biomaterials*. 2025 Feb;313:122748. doi: 10.1016/j.biomaterials.2024.122748. Epub 2024 Aug 5. PMID: 39180918.

@ Lipids

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@ Lungs

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@ Methods

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@ Microbiology

-Cano-Castaño B, Corral-Lugo A, Gato E, Terrón MC, Martín-Galiano AJ, Sotillo J, Pérez A, McConnell MJ. Loss of Lipooligosaccharide Synthesis in *Acinetobacter baumannii* Produces Changes in Outer Membrane Vesicle Protein Content. *Int J Mol Sci*. 2024 Aug 27;25(17):9272. doi: 10.3390/ijms25179272. PMID: 39273220.

@ Plants

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@ Regenerative medicine

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@ Veterinary medicine

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@ BioRxiv pre-prints (<https://www.biorxiv.org/>)

-Investigation of Lipid-PEG Anchorage of Proteins onto Mesenchymal Stem Cell Derived Extracellular Vesicles for Intracellular Delivery: A Quantitative Assessment. Antonin Marquant, Jade Berthelot, Claudia Bich, Zeineb Ibn Elfekih, Laurianne Simon, Baptiste Robin, Joël Chopineau, David Tianpei Wang, Samuel Jay Emerson, Aijun Wang, Clément Benedetti, Simon Langlois, Laurence Guglielmi, Pierre Martineau, Anne Aubert-Pouëssel, Marie Morille
bioRxiv 2024.08.28.610030; doi: <https://doi.org/10.1101/2024.08.28.610030>

-Caveolin-1 and mechanical stress control the release of a pro-metastatic subpopulation of small extracellular vesicles. Cristian Saquel, Celine Gracia, Christine Viaris de Lesegno, Frederik Verweij, Carlos Urena-Martin, Graça Raposo, Christophe Lamaze
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-Extracellular Vesicles heterogeneity through the lens of multiomics
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