



*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***

October 2022

Dear FSEVer,

Thank you so much for registering for the FSEV/AFC congress that will take place from October 19 to 21 in Paris, we are SOLD OUT! We have prepared you a diversified and rich program with a classy gala diner for the lucky ones who booked it in time! Prepare your berets and your baguettes, we are looking forward to meeting you in person to discuss our favorite research topics!

Best regards,
The FSEV board

NEWS FROM FSEV SOCIETY:

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

@ **FSEV 5th meeting (FSEV 2022)** in person at the Asiem in Paris, **19-21/10/2022**. **“Save the date!”** for a selected set of presentations, PhD award 2021 ceremony, and opportunities to connect with attendees. This meeting provides a unique forum to discuss advances in basic and translational research on extracellular vesicles. The first day will be dedicated to a workshop about flow cytometry and EVs co-organized with AFC (Association Française de Cytométrie).

Full program is available at <https://www.fsev.fr/>

@ **FSEV 2022 General Assembly** will be held during the FSEV 5th meeting, **21/10/2022** (see above). It will validate the accounts of the FSEV and its actions throughout the year and will allow our members to express their wishes for future actions.

@ **MOVE European Mobility Fellowships 2022**

EV societies across Europe has got together to form **MOVE (MObility for Vesicles research in Europe)** and their 1st project is to give early stage scientists the opportunity to work in a different European lab.

MOVE European Mobility Fellowship aims to foster collaboration between the 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 will be at 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&oid=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 from the list below.

ISEV (International Society for EVs) EVENTS:

@ 1st Virtual Meeting of the ISEV Reproduction Task Force, 10/11/22 5pm-8pm (CET)

Open to everyone, learn more and register by **01/11/22** at <https://www.surveymonkey.com/r/QVFSG6D>

@ Extracellular Vesicle Club, virtual, weekly on **Wednesdays (generally 6pm)**

Organized by **Ken Witwer**, ISEV Chair of Science and Meetings, Johns Hopkins Med U, Bethesda, USA.

You can sign up for the email list to receive the weekly program and link at: <https://www.surveymonkey.com/r/L25KDWB> or subscribe to the YouTube Channel for past events <https://www.youtube.com/c/ExtracellularVesicleClub>

You can also submit suggestions of topics for a future EVClub: <https://www.surveymonkey.com/r/DC5MY9X>

OTHER EV EVENTS:

HDR Defense:

@ Steffi Bosch: 17/10/2022 (1:30am, Oniris, Nantes)

Des vésicules extracellulaires bêta pour l'immunothérapie du diabète de type 1.

PhD Defense:

@ **Juliette Ferrant: 17/10/2022** (5pm, Amphi G, Fac de Medecine, Rennes)

Étude des vésicules extracellulaires plasmatiques dans le syndrome de Gougerot-Sjögren

Core Facility

@ **CurieCoreTech Extracellular Vesicles:** the Core facility of Institut Curie (Paris) dedicated to the isolation and analysis of EVs, is open for external users:

<https://institut-curie.org/platform/curiecoretech-extracellular-vesicles>

The facility was created in 2021 by Coralie Guérin and Clotilde Théry, internationally recognized experts in flow cytometry and extracellular vesicles, respectively.

Send your request for information and appointment to: extracellularvesicles@curie.fr

Virtual events, Conferences and Courses

@ **Keystone symposia: "Exosomes, Microvesicles and Other Extracellular Vesicles"** Rescheduled from February 2022 to **October 30 - November 02, 2022**. Santa Fe, New Mexico, United States.

More information at: <https://www.keystonesymposia.org/conferences/conference-listing/meeting?eventid=6951>

FSEV member Organizer: Clotilde Théry

FSEV member Speaker: Chantal Boulanger, Christian Néri, Clotilde Théry, Pascale Zimmerman

@ **GERLI**, Groupe d'Etude et de Recherche en Lipidomique, 17^{ème} congrès **06-09/11/2022** (Hôtel Delcloy à Saint Jean-Cap-Ferrat) avec une session "Exotic organelles and lipid signaling". For more information, please see <https://www.gerli.com>

FSEV member Speaker: Soazig Le Lay

@ **WebEVTalk:** Program to support networking in the field of Extracellular Vesicles by Carolina Soekmadji (Australia), with Jan Lötvall (Sweden) and Dolores Di Vizio (USA).

If you wish to present your work, you can send an email to Carolina Soekmadji (Carolina.Soekmadji@qimrberghofer.edu.au)

<https://www.facebook.com/groups/518888602152396/>

https://www.youtube.com/channel/UCvN_HxVQW8MQRLrDcNfMT6w

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!

@ **a 3-year PhD Position** is open at INRAE, Clermont-Ferrand/Saint Genes Champanelle, France. The PhD work will be performed out in the Biomarkers team of

the UMR Herbivores whose research programmes aimed at identifying, in cattle, the physiological mechanisms and biomarkers of feed efficiency and at determining the roles of adiposity and adipokines on animal performance.

The thesis aims to characterize the molecular signatures present in circulating microvesicles (exosomes) and explaining feed efficiency or body composition in meat-producing crossbred cattle raised on grass. Its program relies on the hypothesis that the integration of proteomic and lipidomic exosomal signatures and phenotypic data will characterize the mechanisms involved in these phenotypes and identify minimally invasive biomarkers to characterize them.

-Recommended training: Master in cellular and molecular biology or in animal physiology.

-Desired knowledge: whole-body physiology in mammals, datamining.

-Experience appreciated: data analysis on R, M2 internship or end of study carried out in a research laboratory

-Skills sought: writing and presentation skills will be appreciated. Knowledge of physiology or livestock in general will be an advantage for the understanding of the project.

For application details please contact:

isabelle.cassar-malek@inrae.fr and *muriel.bonnet@inrae.fr*

@ a 2-year Post-doc Position in Immunology and Cutaneous Biology with experience in Extracellular Vesicles, INCIT, Nantes. Under the auspices of the competitive 4th call for "Hospital-University Research in Health" (RHU) projects of the future investment program (PIA ANR), the INSERM "clinical and translational skin research" team (INCIT UMR 1302) coordinates the RHU SUccESS in the area of skin healing. The objective is to produce a regenerative dressing for deep 2nd degree burns from a fetal secretome. Team is focused on the immunological properties of this secretome and the production and characterization of Extracellular Vesicles (EVs) produced by the secretome.

For application details please contact:

brigitte.dreno@atlanmed.fr & *catherine.ruiz@chu-nantes.fr*

RECENT publications from the french FSEV community:

SEND US YOUR ACCEPTED PAPERS

@ Review

-Bertolino GM, Maumus M, Jorgensen C, Noël D. Recent Advances in Extracellular Vesicle-Based Therapies Using Induced Pluripotent Stem Cell-Derived Mesenchymal Stromal Cells. *Biomedicines*. 2022 Sep 14;10(9):2281. doi:10.3390/biomedicines10092281. PMID: 36140386.

-Coly PM, Boulanger CM. Role of extracellular vesicles in atherosclerosis: An update. *J Leukoc Biol*. 2022 Jan;111(1):51-62. doi: 10.1002/JLB.3MIR0221-099R. Epub 2021 Sep 8. PMID: 34494296.

-Lamarre Y, Nader E, Connes P, Romana M, Garnier Y. Extracellular Vesicles in Sickle Cell Disease: A Promising Tool. *Bioengineering (Basel)*. 2022 Sep 5;9(9):439. doi: 10.3390/bioengineering9090439. PMID: 36134985.

-Ley K, Boulanger CM. Small matters: Introduction to extracellular vesicles. *Immunol Rev*. 2022 Sep 22. doi:10.1111/imr.13140. Epub ahead of print. PMID: 36134519.

-Nikanjam M, Kato S, Kurzrock R. Liquid biopsy: current technology and clinical applications. *J Hematol Oncol*. 2022 Sep 12;15(1):131. doi: 10.1186/s13045-022-01351-y. PMID: 36096847; PMCID: PMC9465933.

@ Cancer

-André-Grégoire G, Maghe C, Douanne T, Rosińska S, Spinelli F, Thys A, Trillet K, Jacobs KA, Ballu C, Dupont A, Lyne AM, Cavalli FMG, Busnelli I, Hyenne V, Goetz JG, Bidère N, Gavard J. Inhibition of the pseudokinase MLKL alters extracellular vesicle release and reduces tumor growth in glioblastoma. *iScience*. 2022 Sep 13;25(10):105118. doi:10.1016/j.isci.2022.105118. PMID: 36185361.

-de Medina P, Bunay J, Poirot M, Record M, Silvente-Poirot S. Targeting NR1H/liver X receptor with dendrogenin A differentiates tumor cells to activate a new secretory pathway releasing immunogenic anti-tumor vesicles enriched in LC3-II-associated exosomes. *Autophagy*. 2022 Sep 5:1-3. doi: 10.1080/15548627.2022.2116175. Epub ahead of print. PMID: 36063487.

-Lazar I, Clement E, Carrié L, Esteve D, Dauvillier S, Moutahir M, Dalle S, Delmas V, Andrieu-Abadie N, Larue L, Muller C, Nieto L. Adipocyte Extracellular Vesicles Decrease p16^{INK4A} in Melanoma: An Additional Link between Obesity and Cancer. *J Invest Dermatol*. 2022 Sep;142(9):2488-2498.e8. doi: 10.1016/j.jid.2022.01.026. Epub 2022 Feb 9. PMID: 35150661.

-Salek A, Selmi M, Barboura M, Martinez MC, Chekir-Ghedira L, Andriantsitohaina R. Enhancement of the In Vitro Antitumor Effects of Berberine Chloride When Encapsulated within Small Extracellular Vesicles. *Pharmaceutics*. 2022 Sep 9;14(9):1913. doi: 10.3390/pharmaceutics14091913. PMID: 36145661.

@ Brain

-Demais V, Pohl A, Wunderlich KA, Pfaller AM, Kaplan L, Barthélémy A, Dittrich R, Puig B, Giebel B, Hauck SM, Pfrieger FW, Grosche A. Release of VAMP5-positive extracellular vesicles by retinal Müller glia in vivo. *J Extracell Vesicles*. 2022 Sep;11(9):e12254. doi: 10.1002/jev2.12254. PMID: 36043482.

-Leroux E, Perbet R, Caillierez R, Richetin K, Lieger S, Espourteille J, Bouillet T, Bégard S, Danis C, Loyens A, Toni N, Déglon N, Deramecourt V, Schraen-Maschke S, Buée L, Colin M. Extracellular vesicles: Major actors of heterogeneity in tau spreading among human tauopathies. *Mol Ther*. 2022 Feb 2;30(2):782-797. doi:10.1016/j.ymthe.2021.09.020. Epub 2021 Sep 24. PMID: 34563677

@ Immunology

-Neyrinck-Leglantier D, Tamagne M, L'honoré S, Cagnet L, Pakdaman S, Marchand A, Pirenne F, Vingert B. Autologous blood extracellular vesicles and specific CD4⁺ T-cell co-activation. *Front Immunol*. 2022 Sep 12;13:992483. doi: 10.3389/fimmu.2022.992483. PMID: 36172364.

@ Lipids

-Hullin-Matsuda F, Colosetti P, Rabia M, Luquain-Costaz C, Delton I. Exosomal lipids from membrane organization to biomarkers: Focus on an endolysosomal-specific lipid. *Biochimie*. 2022 Sep 29;S0300-9084(22)00252-8. doi:10.1016/j.biochi.2022.09.016. Epub ahead of print. PMID: 36184001.

@ Microbiology

-da Luz BSR, de Rezende Rodvalho V, Nicolas A, Chabelskaya S, Jardin J, Briard-Bion V, Le Loir Y, de Carvalho Azevedo VA, Guédon É. Impact of Environmental Conditions on the Protein Content of *Staphylococcus aureus* and Its Derived Extracellular Vesicles. *Microorganisms*. 2022 Sep 9;10(9):1808. doi:10.3390/microorganisms10091808. PMID: 36144410

@ Reproduction

-de Alcântara-Neto AS, Cuello C, Uzbekov R, Bauersachs S, Mermillod P, Almiñana C. Oviductal Extracellular Vesicles Enhance Porcine In Vitro Embryo Development by Modulating the Embryonic Transcriptome. *Biomolecules*. 2022 Sep 15;12(9):1300. doi: 10.3390/biom12091300. PMID: 36139139.

-Neyroud AS, Chiecho RM, Moulin G, Ducarre S, Heichette C, Dupont A, Budzynski M, Even-Hernandez P, Lo Faro MJ, Yemifova M, marchi V, Ravel C. Diversity of Extracellular Vesicles in Human Follicular Fluid: Morphological Analysis and Quantification. *Int. J. Mol. Sci*. 2022, 23(19), 11676. doi: 10.3390/ijms231911676

@ Trafficking

-Verweij FJ, Bebelman MP, George AE, Couty M, Bécot A, Palmulli R, Heiligenstein X, Sirés-Campos J, Raposo G, Pegtel DM, van Niel G. ER membrane contact sites support endosomal small GTPase conversion for exosome secretion. *J Cell Biol*. 2022 Dec 5;221(12):e202112032. doi: 10.1083/jcb.202112032. Epub 2022 Sep 22. PMID:36136097.

@ Viruses

-Bergamelli M, Martin H, Aubert Y, Mansuy JM, Marcellin M, Burlet-Schiltz O, Hurbain I, Raposo G, Izopet J, Fournier T, Benchoua A, Bénard M, Groussolles M, Cartron G, Tanguy Le Gac Y, Moinard N, D'Angelo G, Malnou CE. Human Cytomegalovirus Modifies Placental Small Extracellular Vesicle Composition to Enhance Infection of Fetal Neural Cells In Vitro. *Viruses*. 2022 Sep 13;14(9):2030. doi: 10.3390/v14092030. PMID: 36146834.

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

-Estefanía Lozano-Andrés, Agustin Enciso-Martinez, Abril Gijbers, Sten F.W.M. Libregts, Cláudio Pinheiro, Guillaume Van Niel, An Hendrix, Peter J. Peters, Cees Otto, Ger J.A. Arkesteijn, Marca H.M. Wauben. Physical association of low density lipoprotein particles and extracellular vesicles unveiled by single particle analysis. doi: <https://doi.org/10.1101/2022.08.31.506022>

-Junjun Liu, Frederik Johannes Verweij, Guillaume Van Niel, Lydia Danglot, Philippe Bun. ExoJ: an ImageJ/Fiji plugin for automated spatiotemporal detection of exocytosis. doi: <https://doi.org/10.1101/2022.09.05.506585>

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