FSEV Newsletter—December 2024

Dear FSEVers,
The FSEV Board and the Organizing Committee of our 7th congress – FSEV2024 – would like to extend our heartfelt thanks to all attendees, YN-FSEV, participating societies, regional networks, solution providers, and sponsors – including the Région Grand Est – for their invaluable contributions in making this meeting a resounding success across all dimensions. With over 210 participants, the event was a vibrant hub of collaboration, innovation, and inspiring discussions, both during the scientific sessions and the General Assembly. We are also very grateful for YN-FSEV commitment and dedication to ensure the social aspects of the meeting were equally engaging and enjoyable, not to mention the Organizing Committee who masterfully organized the event, and special thanks to Vincent Hyenne and his colleagues from the Tumor Biomechanics' lab (CRBS, Strabourg).

The joint sessions with the national EV societies of Belgium and the Netherlands were particularly well-received, elevating the FSEV meeting to a truly European event and platform. These collaborations pave the way for using a similar format in future editions of our gathering, fostering even greater cross-border dialogue.

The General Assembly was a platform for exciting new ideas, and the Board is eager to engage with the community further to explore these concepts in more depth. We look forward to continuing this conversation and driving progress together.

Please enjoy the fresh makeover of our newsletter and…
Wishing you all a joyous holiday season and a prosperous New Year!

The FSEV board

News

FSEV 1st working group: BEV-WG. Following a proposal at the last FSEV General Assembly to create thematic **working groups** (WG), we propose to consider, as a first step, the development of a WG on **bacterial extracellular vesicles (BEVs)**. To do this, we would like to identify all the members of the French community working on/with BEVs in order to discuss the need to create such a group. If this sounds like you, please email Éric Guédon (eric.guedon@inrae.fr). Please also help us to circulate our request to any colleagues who may be interested.

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 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***."

Welcome to the New YN-FSEV board members
The YN-FSEV board has been renewed for a new one-year term with a new organization! A board with different positions have been set up and filled.

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News

The YN-FSEV and the FSEV warmly thanks the YN-FSEV outgoing members for their commitment and tireless efforts

Charlène Martin
Post Doc
CIRI, Lyon

Martial Caillaud
Post Doc
TENS, Nantes

Natayme Rocha Tartaglia
Post Doc
Institut Curie, Paris

Sébastien Charles
Post Doc
GIGA, Liège

Christopher Rovera
Post Doc
CRCM, Marseille

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.

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

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/*

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

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!

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EVENTS

PhD Defense

Antonin Marquant: Exploration of extracellular vesicle engineering to enable intracellular delivery of exogenous protein cargos 28/11/2024. Co-supervisors: Anne Aubert-Pouëssel and Marie Morille (ICGM, CNRS UMR 5253, Université de Montpellier)

Thibaud Dauphin: Bioproduction de vésicules extracellulaires à partir de cultures de sphéroïdes de cellules humaines en bioréacteurs à cuves agitées 05/12/2024. Supervisor: Blandine Lieubeau (Oniris, IECM USC INRAe 1383, Nantes); Co-supervisors: Mathilde Mosser (Oniris, IECM USC INRAe 1383, Nantes) and Éric Olmos (LRGP CNRS UMR 7274, Université de Lorraine, Nancy)

Geetika Raizada: High-Speed & Discriminant Analysis of Sub-populations of Extracellular Vesicles (EVs) Trapped on Multiplex Chips 17/12/2024. Supervisor: Céline Élie-Caille (Institut FEMTO-ST CNRS UMR 6174, Université Bourgogne Franche-Comté, Besançon); Co-supervisor: Éric Lesniewska (ICB CNRS UMR 6303, Université de Bourgogne, Dijon)

Enzo Lecoq: Effets des vésicules extracellulaires sur la cellule musculaire lisse vasculaire humaine de donneur masculin en condition de traitement aux stéroïdes sexuels 18/12/2024. Supervisor: Laure Joly (DCAC INSERM U1116, Université de Lorraine, Nancy); Co-supervisor: Eva Feigerlova (DCAC INSERM U1116, Université de Lorraine, Nancy)

HDR Defense

Annie Frelet-Barrand: De l'ingénierie des éléments biologiques à leurs caractérisations multi-échelles pour une meilleure compréhension des mécanismes biologiques 09/12/2024. Institut FEMTO-ST, CNRS UMR 6174, Université de Franche-Comté, Besançon.

Jessica Schiavi-Tritz: Mechanobiological tuning of the bioproduction of extracellular vesicles and secretome by using bioprocess engineering 19/11/2024. Parrain scientifique: Emmanuel Guedon (LRGP CNRS UMR 7274, Université de Lorraine, Nancy)

Job opportunities

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) for more information.

Poste FSEP CNRS Ingénieur.e en sciences des matériaux/caractérisation au sein de l'équipe interdisciplinaire IVETh (https://iveth.u-paris.fr/) du laboratoire NABI (Nanomédecine, Biologie Extracellulaire, Intégratome et Innovations en Santé) en création au 1er janvier 2025 pour développer des méthodes de pointe (Spectroscopie Raman, Microscopie de super-résolution (SMLM), microfluidique et séparation analytique couplée à de multiples détecteurs [A4F-MALS/UVvis/dRI/DLS/Fluo]) pour la caractérisation de vésicules extracellulaires et autres nano-objets biologiques ou hybrides dans des fluides biologiques.
https://emploi.cnrs.fr/Offres/MOBINT/UMR7057-MOBINT-J56012/Default.aspx

Proposition de Thèse-CIFRE. L'équipe S12 de l'institut de la vision (INSERM UMR_S968, CNRS UMR 7210, UM80, Paris): physiopathologie du segment antérieur de l'œil, propose un sujet de thèse sur le rôle des vésicules extracellulaires de la surface oculaire dans la maladie de l'œil sec : relations avec le stress oxydant et l'inflammation.
https://www.institut-vision.org/recherche/pathophysiologie-du-segment-anterieur-de-loeil#ancre-0
For more information about this opportunity, you can contact: francoise.brignole@inserm.fr and karima.kessal@inserm.fr

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!

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Job opportunities

Fully funded Post-doctoral position for 4 years on functional efficacy of engineered extracellular vesicles from mesenchymal stromal cells in osteoarthritis at IRMB (INSERM U1183, Hôpital Saint-Eloi, Montpellier).
http://www.chu-montpellier.fr/fr/os-et-articulations/institute-for-regenerative-medicine-and-biotherapy/
The postdoc will carry out independent research on extracellular vesicles (EVs) derived from mesenchymal stromal cells (MSCs) and the evaluation of functional role in osteoarthritis. A selection of different RNA species with therapeutic interest will be transferred in EVs. Efficacy of EVs will be tested in relevant in vitro and in vivo models of osteoarthritis. The objective is to improve the potency of MSCs-derived EVs by modulating the expression of relevant RNA species with the aim of enhancing their therapeutic efficacy in osteoarthritis. Applications to include a covering letter, CV, and the contact details of three referees should be sent at: daniele.noel@inserm.fr

Awards

Sheryl Bui, postdoctoral researcher at Gregory Lavieu's lab (UMR CNRS 7057, INSERM U1316, Paris) was granted the
Young Talent Award by the L'Oreal Foundation and UNESCO
for her work on EV bio-engineering for drug delivery. More information at: https://www.linkedin.com/posts/fondationloreal_fwis2024-forwomeninscience-femmesenscience-activity-7249376461533380608-uyBM/?utm_source=share&utm_medium=member_desktop.https://www.linkedin.com/posts/sheryl-bui-medecine-sciences_forwomeninscience-femmesenscience-fwis2024-activity-7251547360885899265-1y21?utm_source=share&utm_medium=member_desktop

Recent publications from FSEV community

Practice guideline

-Bonifay A, Mackman N, Hisada Y, Sachetto ATA, Hau C, Gray E, Hogwood J, Aharon A, Badimon L, Barile L, Baudar J, Beckmann L, Benedikter B, Bolis S, Bouriche T, Brambilla M, Burrello J, Camera M, Campello E, Ettelaie C, Faille D, Featherby S, Franco C, Guldenpfennig M, Hansen JB, Judicone C, Kim Y, Kristensen SR, Laakmann K, Langer F, Latysheva N, Lucien F, de Menezes EM, Mullier F, Norris P, Nybo J, Orbe J, Osterud B, Paramo JA, Radu CM, Roncal C, Samadi N, Snir O, Suades R, Wahlund C, Chareyre C, Abdili E, Martinod K, Thaler J, Dignat-George F, Nieuwland R, Lacroix R. Comparison of assays measuring extracellular vesicle tissue factor in plasma samples: communication from the ISTH SSC Subcommittee on Vascular Biology. J Thromb Haemost. 2024 Oct;22(10):2910-2921. doi: 10.1016/j.jtha.2024.05.037. Epub 2024 Jun 25. PMID: 38925490.

Letter to editor

-Reddy SSP, Francis DL, Kulkarni V, Chopra SS. Letter to editor on 'isolation and characterization of human Wharton's jelly mesenchymal stem cell-derived extracellular vesicles'. J Cell Mol Med. 2024 Oct;28(20):e70168. doi: 10.1111/jcmm.70168. PMID: 39438269.

Review

-Bonifay A, Cointe S, Plantureux L, Lacroix R, Dignat-George F. Update on Tissue Factor Detection in Blood in 2024: A Narrative Review. Hamostaseologie. 2024 Oct;44(5):368-376. doi: 10.1055/a-2381-6854. Epub 2024 Oct 23. PMID: 39442509.

-Borlongan CV, Lee JY, D'Egidio F, de Kalbermatten M, Garitaonandia I, Guzman R. Nose-to-brain delivery of stem cells in stroke: the role of extracellular vesicles. Stem Cells Transl Med. 2024 Nov 12;13(11):1043-1052. doi: 10.1093/stcltm/szae072. PMID: 39401332.

-Brandt P, Singha R, Ene IV. Hidden allies: how extracellular vesicles drive biofilm formation, stress adaptation, and host-immune interactions in human fungal pathogens. mBio. 2024 Dec 11;15(12):e0304523. doi: 10.1128/mbio.03045-23. Epub 2024 Nov 18. PMID: 39555918.

-De Langhe N, Van Dorpe S, Guilbert N, Vander Cruyssen A, Roux Q, Deville S, Dedeyne S, Tummers P, Denys H, Vandekerckhove L, De Wever O, Hendrix A. Mapping bacterial extracellular vesicle research: insights, best practices and knowledge gaps. Nat Commun. 2024 Oct 31;15(1):9410. doi: 10.1038/s41467-024-53279-1. PMID: 39482295.

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Review

-Bonifay A, Cointe S, Plantureux L, Lacroix R, Dignat-George F. Update on Tissue Factor Detection in Blood in 2024: A Narrative Review. Hamostaseologie. 2024 Oct;44(5):368-376. doi: 10.1055/a-2381-6854. Epub 2024 Oct 23. PMID: 39442509.

-Borlongan CV, Lee JY, D'Egidio F, de Kalbermatten M, Garitaonandia I, Guzman R. Nose-to-brain delivery of stem cells in stroke: the role of extracellular vesicles. Stem Cells Transl Med. 2024 Nov 12;13(11):1043-1052. doi: 10.1093/stcltm/szae072. PMID: 39401332.

-Brandt P, Singha R, Ene IV. Hidden allies: how extracellular vesicles drive biofilm formation, stress adaptation, and host-immune interactions in human fungal pathogens. mBio. 2024 Dec 11;15(12):e0304523. doi: 10.1128/mbio.03045-23. Epub 2024 Nov 18. PMID: 39555918.

-De Langhe N, Van Dorpe S, Guilbert N, Vander Cruyssen A, Roux Q, Deville S, Dedeyne S, Tummers P, Denys H, Vandekerckhove L, De Wever O, Hendrix A. Mapping bacterial extracellular vesicle research: insights, best practices and knowledge gaps. Nat Commun. 2024 Oct 31;15(1):9410. doi: 10.1038/s41467-024-53279-1. PMID: 39482295.

-Duret T, Elmallah M, Rollin J, Gatault P, Jiang LH, Roger S. Role of purinoreceptors in the release of extracellular vesicles and consequences on immune response and cancer progression. Biomed J. 2024 Nov 5:100805. doi: 10.1016/j.bj.2024.100805. Epub ahead of print. PMID: 39510381.

-Lacouture C, Carrio B, Favard C, Muriaux D. HIV-1 assembly - when virology meets biophysics. J Cell Sci. 2024 Oct 1;137 (19):jcs262064. doi: 10.1242/jcs.262064. Epub 2024 Oct 15. PMID: 39404604.

-Malet-Villemagne J, Vidic J. Extracellular vesicles in the pathogenesis of Campylobacter jejuni. Microbes Infect. 2024 Nov-Dec;26(8):105377. doi: 10.1016/j.micinf.2024.105377. Epub 2024 Jun 11. PMID:38866352.

-Njoku GC, Forkan CP, Soltysik FM, Nejsum PL, Pociot F, Yarani R. Unleashing the potential of extracellular vesicles for ulcerative colitis and Crohn's disease therapy. Bioact Mater. 2024 Nov 11;45:41-57. doi:10.1016/j.bioactmat.2024.11.004. PMID: 39610953.

-Papoutsoglou P, Morillon A. Extracellular Vesicle lncRNAs as Key Biomolecules for Cell-to-Cell Communication and Circulating Cancer Biomarkers. Noncoding RNA. 2024 Nov 5;10(6):54. doi: 10.3390/ncrna10060054. PMID: 39585046.

-Sbarigia C, Rome S, Dini L, Tacconi S. New perspectives of the role of skeletal muscle derived extracellular vesicles in the pathogenesis of amyotrophic lateral sclerosis: the 'dying back' hypothesis. J Extracell Biol. 2024 Nov 12;3(11):e70019. doi: 10.1002/jex2.70019. PMID: 39534483.

-Verwilt J, Vromman M. Current Understandings and Open Hypotheses on Extracellular Circular RNAs. Wiley Interdiscip Rev RNA. 2024 Nov-Dec;15(6):e1872. doi: 10.1002/wrna.1872. PMID: 39506237.

Biomarkers

-Di Paolo V, Paolini A, Galardi A, Gasparini P, De Cecco L, Colletti M, Lampis S, Raieli S, De Stefanis C, Miele E, Russo I, Di Ruscio V, Casanova M, Alaggio R, Masotti A, Milano GM, Locatelli F, Di Giannatale A. Plasma-derived extracellular vesicles miR-335-5p as potential diagnostic biomarkers for fusion-positive rhabdomyosarcoma. J Exp Clin Cancer Res. 2024 Oct 9;43(1):282. doi: 10.1186/s13046-024-03197-3. PMID: 39385294.

-Fayezi S, Oehms S, Wolff von Gudenberg H, Ponnaiah M, Lhomme M, Strowitzki T, Germeyer A. De novo synthesis of monounsaturated fatty acids modulates exosome-mediated lipid export from human granulosa cells. Mol Cell Endocrinol. 2024 Oct 1;592:112317. doi: 10.1016/j.mce.2024.112317. Epub 2024 Jun 18. PMID: 38901632.

-Guillot P, Celle S, Barth N, Roche F, Perek N. 'Selected' Exosomes from Sera of Elderly Severe Obstructive Sleep Apnea Patients and Their Impact on Blood-Brain Barrier Function: A Preliminary Report. Int J Mol Sci. 2024 Oct 15;25(20):11058. doi: 10.3390/ijms252011058. PMID: 39456840.

-Labbé M, Chang M, Saintpierre B, Letourneur F, de Beaurepaire L, Véziers J, Deshayes S, Cotinat M, Fonteneau JF, Blanquart C, Potiron V, Supiot S, Fradin D. Loss of miR-200c-3p promotes resistance to radiation therapy via the DNA repair pathway in prostate cancer. Cell Death Dis. 2024 Oct 16;15(10):751. doi: 10.1038/s41419-024-07133-3. PMID: 39414799.

-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 Biology 2024 Dec;3(12):e70013. doi: 10.1002/jex2.70013.

Recent publications from FSEV community

Bioproduction

-Thouvenot E, Charnay L, Burshtein N, Guigner JM, Dec L, Loew D, Silva AKA, Lindner A, Wilhelm C. High-Yield Bioproduction of Extracellular Vesicles from Stem Cell Spheroids via Millifluidic Vortex Transport. Adv Mater. 2024 Nov 12:e2412498. doi: 10.1002/adma.202412498. Epub ahead of print. PMID:39530646.

Blood and vessels

-Coly PM, Chatterjee S, Mezine F, Jekmek CE, Devue C, Nipoti T, Mazlan S, Corona ML, Dingli F, Loew D, van Niel G, Loyer X, Boulanger CM. Low fluid shear stress stimulates the uptake of noxious endothelial extracellular vesicles via MCAM and PECAM-1 cell adhesion molecules. J Extracell Vesicles. 2024 Oct;13(10):e12414. doi: 10.1002/jev2.12414. PMID: 39400522.

Brain

-Dias C, Ballout N, Morla G, Alileche K, Santiago C, Guerrera IC, Chaubet A, Ausseil J, Trudel S. Extracellular vesicles from microglial cells activated by abnormal heparan sulfate oligosaccharides from Sanfilippo patients impair neuronal dendritic arborization. Mol Med. 2024 Nov 4;30(1):197. doi: 10.1186/s10020-024-00953-1. PMID: 39497064.

Drug delivery systems

-Zhao Z, Lacombe J, Simon L, Sanchez-Ballester NM, Khanishayan A, Shaik N, Case K, Dugas PY, Repellin M, Lollo G, Soulairol I, Harris AF, Gordon M, Begu S, Zenhausern F. Physical, biochemical, and biological characterization of olive-derived lipid nanovesicles for drug delivery applications. J Nanobiotechnology. 2024 Nov 18;22(1):720. doi: 10.1186/s12951-024-02964-w. PMID: 39558361.

Fertility

-Couty N, Estienne A, Le Lay S, Rame C, Chevaleyre C, Allard-Vannier E, Péchoux C, Guerif F, Vasseur C, Aboulouard S, Salzet M, Dupont J, Froment P. Human ovarian extracellular vesicles proteome from polycystic ovary syndrome patients associate with follicular development alterations. FASEB J. 2024 Oct 31;38(20):e70113. doi: 10.1096/fj.202400521RR. PMID: 39436214.

Lipids

-Tveit Solheim E, Vestrheim Thomsen LC, Bjørge L, Anandan S, Peter E, Desestret V, Totland C, Vedeler CA. Altered exosomal miRNA profiles in patients with paraneoplastic cerebellar degeneration. Ann Clin Transl Neurol. 2024 Oct 29. doi: 10.1002/acn3.52232. Epub ahead of print. PMID: 39473143.

Liver

-Ali S, Vidal-Gómez X, Piquet M, Vergori L, Simard G, Dubois S, Ducluzeau PH, Pomiès P, Kamli-Salino S, Delibégovic M, Henni S, Gagnadoux F, Andriantsitohaina R, Martínez MC; Metabol Study Group. Circulating extracellular vesicle-carried PTP1B and PP2A phosphatases as regulators of insulin resistance. Diabetologia. 2024 Oct 18. doi: 10.1007/s00125-024-06288-0. Epub ahead of print. PMID: 39422717.

Methods

-Raizada G, Brunel B, Guillouzouic J, Aubertin K, Shigeto S, Nishigaki Y, Lesniewska E, Le Ferrec E, Boireau W, Elie-Caille C. Raman spectroscopy of large extracellular vesicles derived from human microvascular endothelial cells to detect benzo[a]pyrene exposure. Anal Bioanal Chem. 2024 Nov;416(28):6639-6649. doi: 10.1007/s00216-024-05567-4. Epub 2024 Oct 1. PMID: 39352473.

Microbiology

-Metwally NG, Tauler MDPM, Torabi H, Allweier J, Mohamed S, Bessemoulin M, Bouws P, Alshikh F, Wu Y, Temori M, Schell T, Rakotonirinalalao M, Honecker B, Höhn K, Jacobs T, Heine H, Bruchhaus I. Distinct brain and lung endothelial miRNA/mRNA profiles after exposure to Plasmodium falciparum infected red blood cells. iScience. 2024 Oct 28;27(11):111265. doi: 10.1016/j.isci.2024.111265. PMID: 39569379.

Regenerative medicine

-Back F, Barras A, Nyam-Erdene A, Yang JC, Melinte S, Rumipamba J, Burnouf T, Boukherroub R, Szunerits S, Chuang EY. Platelet Extracellular Vesicles Loaded Gelatine Hydrogels for Wound Care. Adv Healthc Mater. 2024 Oct 25:e2401914. doi: 10.1002/adhm.202401914. Epub ahead of print. PMID: 39449544.

-Boulestreau J, Maumus M, Bertolino Minani G, Jorgensen C, Noël D. Anti-aging effect of extracellular vesicles from mesenchymal stromal cells on senescence-induced chondrocytes in osteoarthritis. Aging (Albany NY). 2024 Nov 22;16(21):13252-13270. doi: 10.18632/aging.206158. Epub 2024 Nov 22. PMID:39578049.

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Recent publications from FSEV community

BioRXiv pre-prints

-Scalability of spheroid-derived small extracellular vesicles production in stirred systems. Thibaud Dauphin, Laurence De Beaurepaire, Apolline Salama, Quentin Pruvost, Clémentine Claire, Karine Haurogné, Sophie Sourice, Aurélien Dupont, Jean-Marie Bach, Julie Hervé, Eric Olmos, Steffi Bosch, Blandine Lieubeau, Mathilde Mosser. Authorea. October 17, 2024. doi:10.22541/au.172916168.82000990/v1

-The food grade bacterium Lactobacillus helveticus VEL12193 promotes autophagy by releasing membrane vesicles. Marie-Agnès Bringer, Jana Al Azzaz, Bénédicte Buteau, Lil Proukhnitzky, Amaury Aumeunier, Simon Manceau, Luis G. Bermúdez-Humarán, Chain F Florian, Catherine Daniel, Elise Jacquin, Niyazi Acar, Aurélie Rieu, Pierre Lapaquette. bioRxiv 2024.10.13.618067; doi:https://doi.org/10.1101/2024.10.13.618067

-New proteomic signature in circulating extracellular vesicles from tumor-draining vein of lung adenocarcinomas patients. Jérémy Tricard, Stéphanie Durand, Amy Gateau, Luc Negroni, Alain Chaunavel, François Bertin, Massimo Conti, Hussein Akil, Fabrice Lalloué. bioRxiv 2024.10.28.620567; doi: https://doi.org/10.1101/2024.10.28.620567

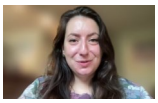
-Pathogen threat proximity shapes host extracellular vesicle production in pre-infection response. Klaudia Kołodziejska, Agata Szczepańska, Nathalie Pujol, Wojciech Pokrzywa, Michał Turek. bioRxiv 2024.11.18.624080; doi: https://doi.org/10.1101/2024.11.18.624080

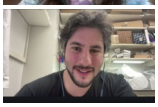
-Development of intimin-enriched outer membrane vesicles (OMVs) as a vaccine to control intestinal carriage of Enterohemorrhagic Escherichia coli. Asja Garling, Cécile Goursat, Carine Seguy, Patricia Martin, Audrey Goman, Jean-Philippe Nougayrède, Éric Oswald, Frédéric Auvray, Priscilla Branchu. bioRxiv 2024.12.09.627534; doi: https://doi.org/10.1101/2024.12.09.627534

Focus : FSEV 2024

Thanks and congratulations to our Local Organizing Committee for this wonderful event:

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, Lens), Lucas Treps (CRCI2NA, Nantes),
Émilie Velot (IMoPA, Univ Lorraine, Nancy)



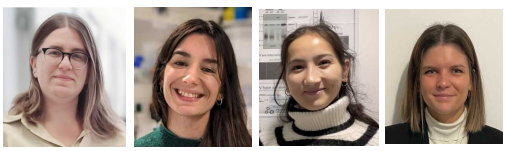


Congrats to the winners of the 2024 FSEV PhD Award !

Chloé Dias (INSERM UMR1291, CNRS UMR 5051, CHU Purpan, Université Toulouse III)
Characterization of extracellular vesicles and study of their role in the mucopolysaccharidosis type III neuropathology
Vincenzo Verdi (INSERM U1266, Université Paris Cité)
Manipulation of Tumor Extracellular Vesicles Biodistribution and Uptake in vivo by a Cell-Surface "EV-Trap"

Congrats to the winners of the 2024 FSEV meeting best talk (Aleksandra & Laura) and best poster (Manon & Marie) Awards !

From left to right: **Aleksandra Geogievski** (INSERM U1231, Université de Bourgogne, Dijon), Development of synthetic extracellular vesicle mimetics for targeting immunosuppressive cells and cancer therapy. **Laura Salavessa** (INSERM U1151, CNRS UMR 8253, Université Paris Cité) , Coated for capture: extracellular vesiclesdetermining biological particle uptake in skin. **Manon Chang** (INSERM U1307, CNRS UMR 6075, Nantes Université), Impact of microRNA and protein of lung cancer derived small extracellular vesicles in the antitumor immune response. **Marie Huber** (Centre de Recherche en Cancérologie de Marseille) MT1-MMP and the syntenin-syndecan extracellular vesicles, partners in crime for matrix invasion?



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