



*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***

April 2022

Dear FSEVers,

As we enjoy the first beautiful sunny days, some of our members are working under the neon lights to prepare an exceptional ISEV congress in Lyon!

We look forward to seeing you in person in the capital of French gastronomy. Many contributions from FSEV members will be presented and you will enjoy a top-notch program. Get your pens, notepads and your forks ready! See you soon!

Best regards,
The FSEV board

NEWS FROM FSEV SOCIETY:

@ FSEV needs YOU ! Help is wanted to **join FSEV communication team**. The new FSEV board members invite you to take an active part in our society by improving its visibility and its network. If you're willing to contribute to the FSEV website or any social media, please do not hesitate to send your application to the following address: calls@fsev.fr

@ 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/£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.

@ Call for FSEV PhD award 2021 postponed due to the COVID-19 situation

The FSEV will offer 500€ awards for PhD theses defended **in France** from 2021 to **31/08/2022** with outstanding contributions in the field of EVs

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

Deadline for application: **16/09/2022**

ISEV (International Society for EVs) EVENTS:

@ ISEV 2022 annual meeting in Lyon, **25-29 May**. This event is **co-organized by FSEV!**

Registration is now available. For more information please see: <https://www.eventscribe.net/2022/ISEV2022/>

@ Upcoming ISEV activities open only to ISEV members, for which ISEV will communicate in early 2022 include:

- Participation in the **MISEV2018 update**

@ 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:

Network announcement

@ SudEV: South Extracellular Vesicle Network creation proposition

Several regions are engaged into a scientific animation around EV research. Along these lines, we believe it is essential to structure these activities in the **Grand Sud** (the perimeter remains to be discussed, but the idea would be to integrate the **Occitanie and PACA regions**). In the context of a trans-regional and multidisciplinary approach, this network could become a regional relay representative of the FSEV activities, could make it possible to build a scientific animation on EV research, and possibly to mutualize expertise and knowledge to encourage and/or reinforce collaborations across regions.

The first step is to identify people interested in getting involved in this project, and particularly those who would be interested in participating actively in the steering committee.

1. If you are working on EVs in PACA or Occitanie region and if you're interested to be part of this future network, please follow the link at the end of this email to make a survey, and **do not hesitate to spread around you!**
2. If you are motivated to invest in the creation of this network and to be part of the **steering committee**, please send an email to marie.morille@umontpellier.fr

<https://docs.google.com/spreadsheets/d/1Qr0IOeIR9EouG0vph7EqQ74cFSVB8Umj3WCWOEzYaSI/edit?usp=sharing>

@ EVN: East Extracellular Vesicle Network

Creation of the French Eastern network on Extracellular Vesicles (EVN board: **Jessica GOBBO**, CGFL, Inserm U1231, Dijon; **Céline ELIE-CAILLE** - CNRS UMR 6174, Institut FEMTO-ST, Besançon; **Pascal COLOSETTI** - UMR Inserm U1060/INRAe 1397-CarMeN, ESSEV, Lyon).

The originality of this network is to cover the domains from pre-anALytical and EV qualifiCation to the cLINic (ALCALIN) and to be open to all researchers, engineers, technicians, students, from academic or industrial. This initiative aims to propose a methodological and technological solution to a problem that has arisen from numerous discussions within the community, sometimes highlighting incompatibilities, inconsistencies, or technological and analytical inefficiencies, encountered in the analysis of the secretome/vesiculome in certain complex biological fluids (whole blood, plasma/serum, urine, ...).

For more information, please see the web page on the Cancéropôle-Est website: <https://www.canceropole-est.org/la-recherche/la-recherche-au-sein-du-canceropole-est/reseau-biopsies-liquides/reseau-east>

Virtual events, Conferences and Courses

@ **28th Porto Cancer Meeting "Extracellular Vesicles, Cell Communication and Cancer"**, in-person & online, **May 12-13, 2022**. Meeting held at i3S – Institute for Research and Innovation in Health, the largest health research institute in Portugal.

For more information, please see: https://portocancermeeting.i3s.up.pt/?page_id=646
FSEV member Speaker: Clotilde Théry

@ **Gordon Research Conference "Lysosomes and Endocytosis"**, Physiological Adaptations of the Endo-Lysosomal System.

Rescheduled from June 19-24, 2022. Applications until **May 22, 2022**.

For more information, please follow the link: <https://www.grc.org/lysosomes-and-endocytosis-conference/2022/>

FSEV member Speaker: Guillaume van Niel and Graça Raposo

@ Gordon Research Conference “Extracellular vesicles”: **24-29/07/2022**, Grand Summit Hotel, Sunday River, Newry, USA.

Application until 26/06/2022 at <https://www.grc.org/extracellular-vesicles-conference/2022/>

FSEV member Speakers: Clotilde Théry, Jacky Goetz

@ 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 Lötvald (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!

@ Call to hire junior and/or senior group leaders in Infection – Inflammation – Immunology at Institute for Infectious and Inflammatory Diseases of Toulouse (Infinity), France (<https://www.infinity.inserm.fr/en/>). The institute is seeking up to two outstanding group leaders at the junior and/or senior level. All projects in line with Infinity’s research axes are welcome.

Junior candidates should be eligible for start-up programs such as ERC Starting/Consolidator Grant, ATIP-Avenir, or equivalent. Support will be provided to obtain research funding, which will be a prerequisite for joining Infinity as a group leader. Depending on the amount of secured funding, the selected candidate(s) will be allocated additional resources to facilitate integration.

Application deadline: **May 31st 2022**. Applications in English should include a CV (2 pages), a short description of achievements and records of self-financing (2 pages), a research project (3 pages) plus the names and contact information of 3 referees. Application material should be sent as a single pdf to call2022.infinity@inserm.fr

Short-listed candidates will be invited for an on-site visit and interview in **Sept/Oct 2022**.

Please see job posting at the following link: https://www.infinity.inserm.fr/wp-content/uploads/2022/02/FINAL_call_new_team_Infinity_2022.pdf

Twitter: <https://twitter.com/academpositions/status/1498266865453387782>

@ Research assistant position in molecular and cellular neurobiology at Brain-C Lab, CNRS UMR8256, Paris, France, **immediately available**.

This 1-2 year research assistant (IE) position is available to characterize and stimulate cell-autonomous and non-cell- autonomous neuronal survival mechanisms in Huntington's disease. Established hands-on experience in cell biology, cellular imaging, and molecular biology is mandatory. Established experience with the differentiation and transduction of human induced pluripotent stem cells (iPSC) or with establishing and transducing mouse primary neurons, or both, will be a plus. Interested candidates should hold a Master (M2) in Cell Biology or a closely related field, obtained not more than 4 years ago, and they should have no more than a 2-year history of academic contracts

@ Technicien en immunologie et biologie cutanée à l'IRS2/Laboratoire d'immunodermatologie Hôtel Dieu (INCIT UMR Inserm 1302), Nantes.

Les missions du poste sont les suivantes : activité de recherche et développement en biologie cutanée dans le cadre du développement du pansement biologique pour les brûlures du second degré, le composant biologique étant un sécrétome constitué de protéines sécrétées dans un milieu de culture par des banques cellulaires de fibroblastes et kératinocytes fœtaux.

15 projets de recherche ont obtenu un soutien financier dans le cadre du 4^{ème} appel à projets de « Recherche Hospitalo-Universitaire en santé » (RHU) du programme d'investissement d'avenir, dont l'opérateur est l'ANR. Parmi eux, le projet SUccESS, mené par le Pr Brigitte Dréno du CHU de Nantes qui est l'établissement coordinateur, prévoit de développer un pansement régénératif constitué d'un sécrétome protégé par une matrice pour les grands brûlés. Pour avoir plus d'informations sur la candidature, contacter: brigitte.dreno@atlanmed.fr

@ Post-doctorat en immunologie et biologie cutanée à l'IRS2/Laboratoire d'immunodermatologie Hôtel Dieu (INCIT UMR Inserm 1302), Nantes.

La personne recrutée aura les fonctions suivantes : recherche translationnelle, développement et transfert vers la clinique dans le domaine de la peau et de la régénération cutanée, production et caractérisation de vésicules extracellulaires à partir d'un sécrétome.

15 projets de recherche ont obtenu un soutien financier dans le cadre du 4^{ème} appel à projets de « Recherche Hospitalo-Universitaire en santé » (RHU) du programme d'investissement d'avenir, dont l'opérateur est l'ANR. Une équipe Inserm : équipe 2 (recherche clinique et translationnelle cutanée) au sein d'INCIT UMR 1302 a obtenu un programme de recherche hospitalo-universitaire (RHU SUccESS; coordinatrice Pr B. Dréno) dans l'axe cicatrisation cutanée. L'objectif est de produire un pansement régénératif pour des brûlures du 2^{ème} degré. Cette équipe, travaille en collaboration avec l'Unité de Thérapie Cellulaire et Génique du CHU de Nantes pour la création de ce pansement. Pour avoir plus d'informations sur la candidature, contacter: brigitte.dreno@atlanmed.fr

@ Post-doctoral position at the Schultz and Goetz labs in **Strasbourg**, France.

The Nanotumor consortium (<https://fr.nanotumor.fr/>) is looking for a postdoctoral fellow with background in cell biology, microscopy and cancer biology to dissect **new pathways in endosome formation and extracellular vesicle secretion in metastasis**. The selected candidate will use a combination of cell engineering, cell biology, proteomic analysis and volumetric imaging and animal experiments to probe the role of recently identified proteins. In particular, 3D electron microscopy (FIB-SEM) will be used to characterize endosomal phenotypes at nanoscale resolution.

Please send your application to jacky.goetz@inserm.fr and pat@igbmc.fr.

More informations available here:

https://www.fsev.fr/uploads/9/8/7/0/98705346/pdf_nanotumor_jan2022.pdf

@ 1-year Post-doctoral position with possibility of extension at IECM, Oniris, Nantes, starting **immediatly available**.

Type 1 diabetes is a chronic disease resulting from the autoimmune destruction of the insulin-secreting pancreatic beta cells. Extracellular vesicles endowed with immune-regulatory properties have gained attention for immune therapy of autoimmune conditions, but standardized procedures to evaluate their tolerogenic potential remain to be developed prior to clinical translation. To address this issue, the Post-doc candidate will develop ex vivo and in vivo functional assays in lymph nodes, which concentrate initiators and effectors of innate and adaptive (auto-) immune responses. This work will be performed in close collaboration with a PhD student optimizing a bioprocess for large-scale EV production from mouse and human beta cell lines.

To apply, please send your CV, motivation letter, publication list and contact information of referees to steffi.bosch@oniris-nantes.fr

@ PhD position dans l'équipe '**Stress, membrane, signalisation**' (IRSET, Inserm U1085 de Rennes).

Titre de la thèse : "Les vésicules extracellulaires comme nouveaux biomarqueurs de l'exposition aux perturbateurs endocriniens dans la progression de la maladie stéatosique du foie". Le(a) candidat(e) devra passer le concours de l'école doctorale Biologie Santé de Bretagne-Loire.

Pour plus d'informations, contacter directement les directrices de thèse: Corinne Martin-Chouly (corinne.chouly@univ-rennes1.fr) et Dominique Lagadic-Gossmann (dominique.lagadic@univ-rennes1.fr)

RECENT publications from the french FSEV community:

SEND US YOUR ACCEPTED PAPERS

@ Commentary

-Vincent B. Plasma extracellular vesicles from the periphery as spreading vectors of Alzheimer's disease pathogenesis? *EBioMedicine*. 2022 Apr;78:103961. doi: 10.1016/j.ebiom.2022.103961. Epub 2022 Mar 21. PMID: 35325782.

@ Review

-Monfoulet LE, Martinez MC. Dietary modulation of large extracellular vesicles: the good and the bad for human health. *Nutr Rev*. 2022 Apr 8;80(5):1274-1293. doi: 10.1093/nutrit/nuab106. PMID: 34875084.

@ Blood

-Bonifay A, Robert S, Champagne B, Petit PR, Eugène A, Chareyre C, Duchez AC, Véliér M, Fritz S, Vallier L, Lacroix R, Dignat-George F. A new strategy to count and sort neutrophil-derived extracellular vesicles: Validation in infectious disorders. *J Extracell Vesicles*. 2022 Apr;11(4):e12204. doi: 10.1002/jev2.12204. PMID: 35362257.

-Glémain A, Néel M, Néel A, André-Grégoire G, Gavard J, Martinet B, Le Bloas R, Riquin K, Hamidou M, Fakhouri F, Bruneau S. Neutrophil-derived extracellular vesicles induce endothelial inflammation and damage through the transfer of miRNAs. *J Autoimmun*. 2022 Apr 1;129:102826. doi: 10.1016/j.jaut.2022.102826. Epub ahead of print. PMID: 35378380.

-Puhm F, Allaëys I, Lacasse E, Dubuc I, Galipeau Y, Zaid Y, Khalki L, Belleannée C, Durocher Y, Brisson AR, Wolberg AS, Langlois MA, Flamand L, Boilard E. Platelet activation by SARS-CoV-2 implicates the release of active tissue factor by infected cells. *Blood Adv*. 2022 Apr 20:bloodadvances.2022007444. doi:10.1182/bloodadvances.2022007444. Epub ahead of print. PMID: 35443030.

@ Cancer

-Georgievski A, Michel A, Thomas C, Mlamlá Z, Pais de Barros JP, Lemaire-Ewing S, Garrido C, Quéré R. Acute lymphoblastic leukemia-derived extracellular vesicles affect quiescence of hematopoietic stem and progenitor cells. *Cell Death Dis*. 2022 Apr 12;13(4):337. doi: 10.1038/s41419-022-04761-5. PMID: 35414137.

-Record M, Attia M, Carayon K, Pucheu L, Bunay J, Soulès R, Ayadi S, Payré B, Perrin-Cocon L, Bourgailh F, Lamazière A, Lotteau V, Poirot M, Silvente-Poirot S, de Medina P. Targeting the liver X receptor with dendrogenin A differentiates tumour cells to secrete immunogenic exosome-enriched vesicles. *J Extracell Vesicles*. 2022 Apr;11(4):e12211. doi: 10.1002/jev2.12211. PMID: 35411723.

-Tkach M, Thalmensi J, Timperi E, Gueguen P, Névo N, Grisard E, Sirven P, Cocozza F, Gouronnet A, Martin-Jaular L, Jouve M, Delisle F, Manel N, Rookhuizen DC, Guerin CL, Soumelis V, Romano E, Segura E, Théry C. Extracellular vesicles from triple negative breast cancer promote pro-inflammatory macrophages associated with better clinical outcome. *Proc Natl Acad Sci U S A*. 2022 Apr 26;119(17):e2107394119. doi: 10.1073/pnas.2107394119. Epub 2022 Apr 19. PMID: 35439048.

@ Exosome-like nanoparticles

-Qin X, Wang X, Xu K, Zhang Y, Ren X, Qi B, Liang Q, Yang X, Li L, Li S. Digestion of Plant Dietary miRNAs Starts in the Mouth under the Protection of Coingested Food Components and Plant-Derived Exosome-like Nanoparticles. *J Agric Food Chem*. 2022 Apr 13;70(14):4316-4327. doi: 10.1021/acs.jafc.1c07730. Epub 2022 Mar 30. PMID: 35352925.

@ Liver

-Ryaboshapkina M, Saitoski K, Hamza GM, Jarnuczak AF, Pechberty S, Berthault C, Sengupta K, Rye Underwood C, Andersson S, Scharfmann R. Characterization of the secretome, transcriptome and proteome of human β cell line EndoC- β H1. *Mol Cell Proteomics*. 2022 Apr 1:100229. doi: 10.1016/j.mcpro.2022.100229. Epub ahead of print. PMID: 35378291.

@ Methods

-Mazouzi Y, Sallem F, Farina F, Loiseau A, Tartaglia NR, Fontaine M, Parikh A, Salmain M, Neri C, Boujday S. Biosensing Extracellular Vesicle Subpopulations in Neurodegenerative Disease Conditions. *ACS Sens*. 2022 Apr 21. doi: 10.1021/acssensors.1c02658. Epub ahead of print. PMID: 35446554.

@ Microbiology

-David L, Taieb F, Pénary M, Bordignon PJ, Planès R, Bagayoko S, Duplan-Eche V, Meunier E, Oswald E. Outer membrane vesicles produced by pathogenic strains of *Escherichia coli* block autophagic flux and exacerbate inflammasome activation. *Autophagy*. 2022 Apr 7:1-13. doi: 10.1080/15548627.2022.2054040. Epub ahead of print. PMID: 35311462.

-Veith PD, Glew MD, Gorasia DG, Cascales E, Reynolds EC. The Type IX Secretion System and Its Role in Bacterial Function and Pathogenesis. *J Dent Res.* 2022 Apr;101(4):374-383. doi: 10.1177/00220345211051599. Epub 2021 Dec 10. PMID: 34889148.

@ Neuron

-Le Gall L, Duddy WJ, Martinat C, Mariot V, Connolly O, Milla V, Anakor E, Ouandaogo ZG, Millecamps S, Lainé J, Vijayakumar UG, Knobloch S, Raoul C, Lucas O, Loeffler JP, Bede P, Behin A, Blasco H, Bruneteau G, Del Mar Amador M, Devos D, Henriques A, Hesters A, Lacomblez L, Laforet P, Langlet T, Leblanc P, Le Forestier N, Maisonobe T, Meininger V, Robelin L, Salachas F, Stojkovic T, Querin G, Dumonceaux J, Butler Browne G, González De Aguilar JL, Duguez S, Pradat PF. Muscle cells of sporadic amyotrophic lateral sclerosis patients secrete neurotoxic vesicles. *J Cachexia Sarcopenia Muscle.* 2022 Apr;13(2):1385-1402. doi: 10.1002/jcsm.12945. Epub 2022 Feb 22. PMID: 35194965.

@ Trafficking

-Campisi D, Desrues L, Dembélé KP, Mutel A, Parment R, Gandolfo P, Castel H, Morin F. Chemotactic cell migration: the core autophagy protein ATG9A is at the leading edge. *Autophagy.* 2022 Apr 25. doi: 10.1080/15548627.2022.2069903. Epub ahead of print. PMID: 35468023.

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

- Release of VAMP5-positive extracellular vesicles from specialized domains of retinal Müller cells in vivo. Valerie Demais, Anne Pohl, Kirsten A. Wunderlich, Anna M. Pfaller, Lew Kaplan, Amelie Barthélémy, Robin Dittrich, Berta Puig, Bernd Giebel, Stefanie M. Hauck, Frank W. Pfrieger, Antje Grosche doi: <https://doi.org/10.1101/2022.04.20.488918>

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