



*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 2021

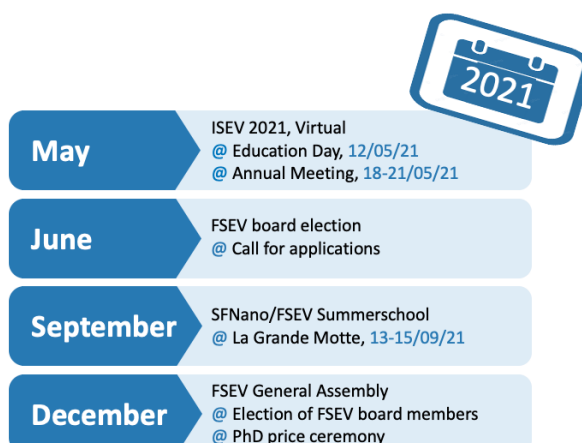
Dear FSEVer,

In this difficult period which particularly affects research, the FSEV wants to be at your side in order to connect young people looking for a job in the field of EVS and laboratories. For this we have created a special section on our WEB site which allows you to submit your CV and cover letters for a period of 3 months, at jobs@fsev.fr.

The situation did not allow us to have a congress in France this year, but we have worked a lot to allow the maximum of interactions between the participants during the ISEV2021 meeting. The FSEV is proud to see that many French people will present their work at **ISEV2021**. Do not miss this event which brings together the entire international community on extracellular vesicles.

Best regards,
The FSEV board

@ Browse EV FUTURE EVENTS AT A GLANCE



NEWS FROM FSEV SOCIETY:

@ Winners of scholarships for young researchers and technical staff members to attend ISEV 2021 Education Day. FSEV has granted the following applicants with a scholarship to cover for registration fees of the Education day (equivalent of 75\$), congratulations to:

Nandini Asokan, Goetz Lab Strasbourg (Post-doctoral fellow)

Claire Boursier, ONIRIS Nantes (Engineering student)

Katerina Jerabkova, Goetz Lab Strasbourg (Post-doctoral fellow)

Fariza Mezine, PARCC Paris (Study engineer)

@ Winners of ISEV2021 Oral Communication Prize for young researchers. FSEV has granted the following applicants, previously selected by the ISEV2021 IOC to present their abstracts as oral communication with a scholarship of 200\$. Congratulations to:

Alexia Blandin, Angers (PhD candidate)

Jérémy Boulestreau, Montpellier (PhD candidate)

Pierre-Mickael Coly, PARCC Paris (Post-doctoral fellow)

Eleonora Grisard, Institut Curie Paris (Post-doctoral fellow)

Juliana Rizzobana, Institut Pasteur Paris (Post-doctoral fellow)

Linda Yaker, Amiens (PhD candidate)

@ Call for FSEV PhD award 2020.

FSEV will offer 500€ awards for PhD theses defended in France in 2020 with outstanding contributions in the field of EV. The results will be published in the June newsletter!

FSEV EVENTS:

Scheduling of on-site events shall be considered in function of the evolution of the COVID19 situation in our country

ISEV (International Society for EVs) EVENTS:

@ ISEV 2021 annual meeting will take place virtually, **18-21/05/2021**, from 2 to 6pm. Education day will take place one week before the Annual Meeting on **12/05/2021**. Save the dates for these events **co-organized by FSEV!**

For more information: <https://na.eventscloud.com/website/16865/>

Program of Education day and of full meeting are available at:
<https://www.isev2021.org/website/16865/iseveducationday/>
<https://www.isev2021.org/website/16865/program/>

Chantal Boulanger, Research Director at the French Biomedical Research Agency (INSERM), was invited as plenary speaker and will talk on "EVS in Cardiovascular Disorders". In addition, several live or on-demand talks from French laboratories

including from the 6 recipients of the FSEV ISEV2021 Oral communication Prize, will be given.

@ 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 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 propose a topic for a future EVClub if you have an idea <https://www.surveymonkey.com/r/DC5MY9X>

OTHER EV EVENTS:

Virtual events, Conferences and Courses

@ ISCT 2021 annual meeting, virtual, 26-28/05/2021.

There will be one plenary session "First in man" and 3 breakout sessions: "EVs and cardiovascular diseases", "EVs for Infectious Diseases and Preparedness for future pandemics" and "EVs as drug delivery vehicles". More info at: <https://isct2021.com/>

FSEV member invited speakers: Lorena Martin-Jaular (Paris).

@ Scientific Day of Nantes University, virtual, 01/06/2021. "Grand-Ouest Extracellular Vesicle Network : Innovation, Cancer & Therapy". Deadline registration: **15/05/2021**. For more information, please follow the link: <https://js.univ-nantes.fr/colloques/grand-ouest-extracellular-vesicle-network-innovations-for-health>

@ 23rd annual meeting Exo/Endo to be held online on **10-11/06/2021** with special sessions on Extracellular vesicles.

Abstracts will be selected for 15 min presentations and to replace posters, flash presentations of 3 minutes will be planned. For more information, please see: <http://www.exoendo.org/>

Registration & dead-line abstract: 20/04/2021, follow the link: <https://forms.gle/nqA8PSoyBY3NyE4Z7>. Please note that registration is free but is mandatory even if you do not submit an abstract.

@ NANOTUMOR 2021 1st series of virtual meetings around Intravital Imaging & Cancer, NANOTUMOR is a French initiative whose objective is to map key ultrastructural and protein elements in cancer cells using multi-resolution approaches.

Session 7 about EVs "Imaging the Niche" **25/06/2021** (12:00-14:00pm, GMT), Chaired by P. Timpson (AU) & J.G. Goetz (FR). For more information, please follow the link: <https://www.nanotumor.fr/2021-virtual-seminars>

@ III international AICC Exosome Meeting, virtual, 07-08/06/2021 "Cell to cell delivery in cancer and therapy: a matter of carriers and messages". More info at: <https://didattica.xeniaeventi.it/front/single/30>

FSEV member invited speakers: Lorena Martin-Jaular (Paris).

@ **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.

@ **Postdoctoral position** to study the relative contribution and composition of extracellular vesicles from normal and cancerous tissues. This exciting project will contribute to define the potential of extracellular vesicles as cancer biomarkers. The postdoctoral scholar will have the unique opportunity to work in highly interdisciplinary environment from basic to translational cancer research that creates opportunities of bench-to-bedside research. The project is co-led by Drs Ema Cocucci in the Division of Pharmaceutics and Pharmacology and Dario Palmieri in the Department of Cancer Biology and Genetics. Please directly contact Dr. Cocucci if interested (cocucci.1@osu.edu) and/or apply at:

https://osu.wd1.myworkdayjobs.com/OSUCareers/job/Columbus-Campus/Post-Doctoral-Scholar_R11073-1

@ **A 12-month fixed-term postdoctorate position**, funded by ANR is immediately available in the laboratory of “Spatio-Temporal Regulation of Cell Signaling”, at the Cancer Research Centre of Marseilles (CRCM), a leading European Cancer Centre set on the Mediterranean shores in Southern France. The focus of our research group is to identify, to understand, to validate and to target molecular networks involved in cancer signaling, with the specific purpose of facilitating the transfer of therapeutic and pharmacological targets into preclinical and clinical development programs in oncology. For more information please visit: <https://www.crcm-marseille.fr/en/presentation-of-the-crcm/>. The postdoctoral scientist will focus on the engineering of Vectorized Exosomes in Cancer Therapy.

To apply, please send your complete CV, a brief motivation letter (1 page) and contact information of 2 referees to: pascale.zimmermann@inserm.fr.

@ **A 3-year PhD position and a Postdoctoral position for 2 years** (possibly extensible) opened immediately in neurobiology and computational image analysis at Institut Pasteur, Paris. The lab is focused on the study of the molecular mechanisms regulating protein sorting and intracellular trafficking in polarized epithelial cells and neuronal cells, and on the mechanisms of protein(s) and organelle(s) exchanges between cells, with the aim of understanding how these pathways contribute to/are altered in diseases like cancer and neurodegenerative disorders.

Candidates should apply by sending a CV, a motivation letter as well as the name and contact details of at least 2 academic references to chiara.zurzolo@pasteur.fr

@ **Postdoctoral position for 2 years** at the Hormone Laboratory, Department of Medical Biochemistry and Pharmacology, Haukeland University Hospital (Norway). The project aims to use nanoscaled exosomes as a tool to specifically target the hypothalamic areas with DNA that encodes proteins modulating energy balance. The aim is to implement this strategy in various animal models of obesity.

Send your applications to Johan.Ferno@uib.no

@ Postdoctoral position for 2 years in vascular biology and EVs is available in Chantal Boulanger's lab at the Paris Cardiovascular Research Center (PARCC), UMR 970 INSERM-Université de Paris.

The postdoc will work on mechanisms of EV release and biodistribution in the context of cardiovascular disease development. The applicant, with a strong background in cell biology, molecular biology and/or pathology-physiology, should have obtained a PhD in the last 2 years. Excellent communication skills are also expected. Previous experience with EV would be an advantage.

The appointment will start as early as **June 1st, 2021**. Applications will be considered as they are received and will be evaluated continuously until the position is filled. Interested candidates should send their CV, list of publications, motivation letter and the name of two referees to Chantal Boulanger (chantal.boulanger@inserm.fr).

More info about the lab and the research center: <http://parcc.inserm.fr>

@ Postdoctoral position for 1 year (with possibilities to extend) The Goetz Lab at INSERM U1109 (Tumor Biomechanics, www.goetzlab.com, CRBS, Strasbourg, France) is seeking a talented postdoctoral scientist with strong background in **Intravital Microscopy and Cancer biology** and interest in interdisciplinary research. The project is centered on imaging tumor cells and its microenvironnement in mice, with a focus on tumor EVs and biomechanics. Details can be found here:

https://7ade5b55-6b9e-4d65-875b-5767fd49f112.filesusr.com/ugd/e6f78d_3102eadf1cfa45dea3eae29e4e2ae3aa.pdf

For more information on the group's research, see www.goetzlab.com

All applications must be sent to: Jacky G. Goetz (jacky.goetz@inserm.fr)

@ Mobility offer : the team of Pascale Zimmermann in Leuven and in Marseille is looking for co-workers interested to explore the benefit of vectorized exosomes in the treatment of pancreatic ductal adenocarcinoma. This project will be developed in collaboration with European academic teams and companies.

For more information or to apply (1 page CV + motivation letter) please contact pascale.zimmermann@kuleuven.be

RECENT publications from the french FSEV community:

SEND US YOUR ACCEPTED PAPERS

@ FASEB BioAdvances "Special Collection on Extracellular Vesicles and Homeostasis"

Follow the link [https://faseb.onlinelibrary.wiley.com/doi/toc/10.1096/\(ISSN\)2573-9832.Extracellular-Vesicles-Homeostasis](https://faseb.onlinelibrary.wiley.com/doi/toc/10.1096/(ISSN)2573-9832.Extracellular-Vesicles-Homeostasis) to see FSEV members contribution: Graça Raposo, Guillaume van Niel (authors and editors), Laurence Nieto, Soazig Le Lay, Xavier Loyer, Sophie Rome, Gisela D'Angelo, and Vincent Hyenne.

@ Editorial

-Colas L, Brouard S. B cells and extracellular vesicles: New key players in solid organ transplantation? *Am J Transplant.* 2021 Apr;21(4):1361-1362. doi: 10.1111/ajt.16253. Epub 2020 Aug 29. PMID: 32777133.

@ Review

-Lunar Silva I, Cascales E. Molecular strategies underlying *Porphyromonas gingivalis* virulence. *J Mol Biol.* 2021 Apr 2;433(7):166836. doi: 10.1016/j.jmb.2021.166836. Epub 2021 Feb 1. PMID: 33539891.

-Passera S, Boccazzi M, Bokobza C, Faivre V, Mosca F, Van Steenwinckel J, Fumagalli M, Gressens P, Fleiss B. Therapeutic potential of stem cells for preterm infant brain damage: can we move from the heterogeneity of

preclinical and clinical studies to established therapeutics? *Biochem Pharmacol.* 2021 Apr;186:114461. doi: 10.1016/j.bcp.2021.114461. Epub 2021 Feb 8. PMID: 33571501.

-Villard A, Boursier J, Andriantsitohaina R. Microbiota-derived extracellular vesicles and metabolic syndrome. *Acta Physiol (Oxf).* 2021 Apr;231(4):e13600. doi: 10.1111/apha.13600. Epub 2021 Jan 22. PMID: 33319492.

-Villard A, Boursier J, Andriantsitohaina R. Bacterial and eukaryotic extracellular vesicles and nonalcoholic fatty liver disease: new players in the gut-liver axis? *Am J Physiol Gastrointest Liver Physiol.* 2021 Apr 1;320(4):G485-G495. doi: 10.1152/ajpgi.00362.2020. Epub 2021 Jan 20. PMID:33471632.

@ Cancer

-Adams SD, Csere J, D'angelo G, Carter EP, Romao M, Arandis T, Dodel M, Kocher HM, Grose R, Raposo G, Mardakheh F, Godinho SA. Centrosome amplification mediates small extracellular vesicle secretion via lysosome disruption. *Curr Biol.* 2021 Apr 12;31(7):1403-1416.e7. doi: 10.1016/j.cub.2021.01.028. Epub 2021 Feb 15. PMID:33592190.

-Dumontet E, Pangault C, Roulois D, Desoteux M, Léonard S, Marchand T, LaTour M, Legoix P, Loew D, Dingli F, DuLong J, Flecher E, Coulouarn C, Cartron G, Fest T, Tarte K. Extracellular vesicles shed by follicular lymphoma B cells promote the polarization of bone marrow stromal cell niche. *Blood.* 2021 Feb 24;blood.2020008791. doi:10.1182/blood.2020008791. Epub ahead of print. PMID: 33881493.

-Pluchart C, Barbe C, Poitevin G, Audonnet S, Nguyen P. A pilot study of procoagulant platelet extracellular vesicles and P-selectin increase during induction treatment in acute lymphoblastic leukaemia paediatric patients: two new biomarkers of thrombogenic risk? *J Thromb Thrombolysis.* 2021 Apr;51(3):711-719. doi: 10.1007/s11239-020-02346-7. Epub 2020 Nov 28. PMID: 33247807.

-Zoaiter M, Nasser R, Hage-Sleiman R, Abdel-Sater F, Badran B, Zeaiter Z. Helicobacter pylori outer membrane vesicles induce expression and secretion of oncostatin M in AGS gastric cancer cells. *Braz J Microbiol.* 2021 Apr 13. doi: 10.1007/s42770-021-00490-7. Epub ahead of print. PMID: 33851342.

@ Immunomodulation

-Prunevieuille A, Babiker-Mohamed MH, Aslami C, Gonzalez-Nolasco B, Mooney N, Benichou G. T cell antigenicity and immunogenicity of allogeneic exosomes. *Am J Transplant.* 2021 Apr 1. doi: 10.1111/ajt.16591. Epub ahead of print. PMID: 33794063.

@ Methods

-Caselli L, Ridolfi A, Cardellini J, Sharpnack L, Paolini L, Brucale M, Valle F, Montis C, Bergese P, Berti D. A plasmon-based nanoruler to probe the mechanical properties of synthetic and biogenic nanosized lipid vesicles. *Nanoscale Horiz.* 2021 Apr 19. doi: 10.1039/d1nh00012h. Epub ahead of print. PMID: 33870976.

-Martin-Jaular L, Nevo N, Schessner JP, Tkach M, Jouve M, Dingli F, Loew D, Witwer KW, Ostrowski M, Borner GHH, Théry C. Unbiased proteomic profiling of host cell extracellular vesicle composition and dynamics upon HIV-1 infection. *EMBO J.* 2021 Apr 15;40(8):e105492. doi: 10.15252/embj.2020105492. Epub 2021 Mar 11. PMID: 33709510.

@ Reproduction

-Barnett-Itzhaki Z, Knapp S, Avraham C, Racowsky C, Hauser R, Bollati V, Baccarelli AA, Machtinger R. Association between follicular fluid phthalate concentrations and extracellular vesicle microRNAs expression. *Hum Reprod.* 2021 Apr 22;deab063. doi: 10.1093/humrep/deab063. Epub ahead of print. PMID: 33885134.

-Cordeiro L, Riou C, Uzbekov R, Gérard N. Avian sperm increase in vitro the release of exosomes from SST-enriched organoids. *Reproduction.* 2021 Apr;161(4):375-384. doi: 10.1530/REP-20-0421. PMID: 33539315.

@ Trafficking

-de la Riva-Carrasco R, Perez-Pandolfo S, Suárez Freire S, Romero NM, Bhujabal Z, Johansen T, Wappner P, Melani M. The immunophilin Zonda controls regulated exocytosis in endocrine and exocrine tissues. *Traffic.* 2021 Apr;22(4):111-122. doi: 10.1111/tra.12777. Epub 2021 Jan 25. PMID: 33336828.

-Peruzzotti-Jametti L, Bernstock JD, Willis CM, Manferrari G, Rogall R, Fernandez-Vizarra E, Williamson JC, Braga A, van den Bosch A, Leonardi T, Krzak G, Kittel Á, Benincá C, Vicario N, Tan S, Bastos C, Bicci I, Iraci N, Smith JA, Peacock B, Muller KH, Lehner PJ, Buzas EI, Faria N, Zeviani M, Frezza C, Brisson A, Matheson NJ, Viscomi C, Pluchino S. Neural stem cells traffic functional mitochondria via extracellular vesicles. *PLoS Biol.* 2021 Apr 7;19(4):e3001166. doi: 10.1371/journal.pbio.3001166. PMID: 33826607.

-Vats S, Galli T. Introducing secretory reticulophagy/ER-phagy (SERP), a VAMP7-dependent pathway involved in neurite growth. *Autophagy*. 2021 Apr;17(4):1037-1039. doi: 10.1080/15548627.2021.1883886. Epub 2021 Feb 8. PMID: 33554711.

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

-Laure David, Frédéric Taieb, Marie Pénary, Pierre-Jean Bordignon, Rémi Planès, Valérie Duplan-Eche, Etienne Meunier, Eric Oswald. Outer membrane vesicles produced by pathogenic strains of *Escherichia coli* block autophagic flux and exacerbate inflammasome activation. *bioRxiv* 2021.04.20.440604; doi:<https://doi.org/10.1101/2021.04.20.440604>

-Erwan Lambert, Orthis Saha, Bruna Soares Landeira, Ana Raquel Melo de Farias, Xavier Hermant, Arnaud Carrier, Alexandre Pelletier, Lindsay Davoine, Cloé Dupont, Philippe Amouyel, Frank Lafont, Farida Adelfettah, Patrik Verstreken, Julien Chapuis, Nicolas Barois, Fabien Delahaye, Bart Dermaut, Jean-Charles Lambert, Marcos R. Costa, Pierre Dourlen. The Alzheimer's disease genetic risk factor BIN1 induces isoform-dependent neurotoxicity through early endosome defects. *bioRxiv* 2021.04.02.438184; doi:<https://doi.org/10.1101/2021.04.02.438184>

-Christopher Rovera, Ilona Berestjuk, Margaux Lecacheur, Serena Diazzi, Aude Mallavialle, Jean Albregues, Cédric Gaggioli, Christophe Girard, Thierry Passeron, Marcel Deckert, Sophie Tartare-Deckert, Virginie Prod'homme. Invasive dedifferentiated melanoma cells inhibit JAK1-STAT3-driven actomyosin contractility of human fibroblastic reticular cells of the lymph node. *bioRxiv* 2021.03.25.436913; doi:<https://doi.org/10.1101/2021.03.25.436913>

-Quentin Sabbagh, Gwennan André-Grégoire, Carolina Alves-Nicolau, Nicolas Bidère, Emmanuel Jouglar, Laëticia Guével, Jean-Sébastien Frénel, Julie Gavard. The von Willebrand Factor stamps Plasmatic Extracellular Vesicles from Glioblastoma Patients. *bioRxiv* 2021.03.25.437073; doi:<https://doi.org/10.1101/2021.03.25.437073>

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