



*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***

March 2020

FSEV BOARD NOTE:

As the coronavirus continues to spread, many live events, meetings and congresses have been canceled, reorganized or postponed.

When possible, we have indicated the new dates for some events but we do not know, at the present time how long we will have to stay confined.

During this difficult period, protect yourself and others from infection and stay in contact with your family, friends and colleagues. This is particularly important during decreased social interactions.

Take care of you

With warm regards,

The FSEV board

NEWS FROM FSEV SOCIETY:

@ FSEV winner of a 1000€-travel grant for Junior scientists presenting oral communications at ISEV-2020

Shima Ghoroghi (INSERM UMR_S1109, Tumor Biomechanics; Université de Strasbourg, Fédération de Médecine Translationnelle de Strasbourg (FMTS), France). *Ral GTPases promote metastasis by controlling biogenesis and organotropism of extracellular vesicles. Selected by ISEV as featured abstract, congratulations!*

FSEV EVENTS:

@ SFNano-FSEV joint summer school

The French Society for Nanomedicine (SFNano) and the French Society for Extracellular Vesicles (FSEV) are pleased to announce an **EV Summer School** that will take place in La Grande Motte, France, on **10-12/06/2020** → **postponed to undetermined date**. This Summer School will focus on fundamental, technological, clinical and industrial aspects related to extracellular vesicles for therapy and diagnosis.

More information and list of speakers at:

<http://www.sfnano.fr/en/2019/11/22/summer-school-2020/>

@ Next meeting of the Grand-Ouest EV network (GO-EV)

29/05/2020 → **post-poned 30/11/2020**, Journées Scientifiques de l'Université de Nantes, cité des congrès, Nantes. **"Grand-Ouest Extracellular Vesicle Network: Innovations for Health"**. Registration will be free but mandatory (limited to 80

participants). Abstracts for poster and/or oral communications are welcome (deadline **29/09/2020**).

Please visit the website: <https://js.univ-nantes.fr/colloques/grand-ouest-extracellular-vesicle-network-innovations-for-health-2564694.kjsp?RH=1486401620746>

Keynote speakers: Gwennan André-Grégoire (Nantes); Juan Manuel Falcon-Perez (Spain); Estefania Lozano Andres (Netherlands); Jean-Sébastien Silvestre (Paris).

For more information, please contact: laetitia.guevel@univ-nantes.fr

@ **Thematic group on EV therapeutics**

S. Banzet and A. Silva-Brun have decided to launch a **thematic group to gather the French actors interested in EV therapeutics**. The goal is to create an active network to share experience and skills in, for instance: optimisation of the clinical grade EV production, product qualifying, quality control, potency assays, as well as stability/conservation and regulatory questions. This project will be presented during the SFNano/FSEV Summer School of June 2020.

For FSEV members interested in such an initiative, please contact:

Sébastien Banzet (MD, PhD), UMR-1197, Institut de Recherche Biomédicale des Armées, Clamart (sebastien.banzet@inserm.fr)

Amanda Brun (PharmD, PhD), UMR 7057, Laboratoire Matière et Systèmes Complexes, Paris (amanda.brun@univ-paris-diderot.fr)

ISEV (International Society for EVs) EVENTS:

@ **ISEV Annual Meeting 2020**, Philadelphia, USA, **20-24/05/2020**
<https://www.isev.org/mpage/2020home>

The meeting will be replaced by a **virtual event at the initial dates, and possibly rescheduled in person meeting later in the year** (upcoming decision by ISEV).

Please refer to <https://www.isev.org/mpage/2020COVID19> for more information.

The page will be updated periodically as new informations are becoming available.

@ **ISEV Workshop “Imaging EVs in vivo”, Paris, IPNP, ~~19-20/03/2020~~ → postponed**
<https://www.isev.org/events/EventDetails.aspx?id=1232987&group=>

Co-organized by FSEV members: Guillaume van Niel (chair, Paris), Frederik Verweij (Paris), Vincent Hyenne (Strasbourg), Xavier Loyer (Paris), Gisela d'Angelo (Paris).

OTHER EV EVENTS:

Conferences and Courses

@ **ISCT (International Society for Cell Therapy) 2020 Annual meeting, ~~27-30/05/2020~~ → withdrawn**, Paris. <http://www.isct2020.com/>

The meeting will not take place in person. **Possibly replaced** by a virtual event on **28-29/05/2020**. A statement with additional details can be found at the ISCT 2020 website (<http://www.isct2020.com/information-on-covid-19/>).

FSEV member invited speakers: Clotilde Théry (Paris).

@ **Club Exo-Endo 2020 Annual meeting, ~~04-06/06/2020~~ → postponed to 05-06/2021**, Munster, France.

<http://exoendo.org/meeting-2020.html>

Session "exosomes and microvesicles", chaired by Guillaume van Niel (Paris, FSEV) and Remy Sadoul (Grenoble).

@ **11th Journée Roger Monier, ~~27/03/2020~~ → canceled**, Institut Gustave Roussy, Villejuif, France. « Cancer : cell autonomous versus non-cell autonomous processes ».

FSEV speaker: Mercedes Tkach, Institut Curie, Paris.

@ **Gordon Research Conference** "*Physiological adaptations of the endo-lysosomal system*", **21-26/06/2020** → **withdrawn, will be rescheduled in 2022**, Andover, NH, USA. <https://www.grc.org/lysosomes-and-endocytosis-conference/2020/>

FSEV member invited speakers: Graça Raposo (Paris): Keynote session "Lysosome-like organelles". Guillaume van Niel (Paris): session "Inter-organelle and inter-cellular communication".

@ **Gordon Research Conference** "*Understanding EV Biogenesis and composition for detection and treatment of diseases*", **26-31/07/2020** → **withdrawn, will be rescheduled in 2022**, Sunday River, MA, USA. <https://www.grc.org/extracellular-vesicles-conference/2020/>

FSEV member invited speakers: Clotilde Théry (Paris), Jacky Goetz (Strasbourg)

PhD Defenses

@ **Henri CHARRIER**: *Identification d'une signature de 7 microRNAs pour prédire l'insuffisance cardiaque après un infarctus et caractérisation des vésicules extracellulaires cardiaques impliquées dans leur transport*. **31/03/2020** → **postponed to undetermined date** (Lille).

Thèse dirigée par Florence Pinet (Université de Lille)

JOB OPPORTUNITIES:

@ **Engineer position for 30 months** at the Endosomal dynamic in neuropathies lab, IPNP, Paris (INSERM/Université de Paris).

<https://ipnp.paris5.inserm.fr/research/teams-and-projects/17-equipe-van-niel/>, to work on the impact of extracellular vesicles in the brain tumor microenvironment in vivo.

Please send your application before **01/06/2020** including CV, motivation letter and 2 references to Guillaume van Niel (guillaume.van-niel@inserm.fr).

@ **Post-doc position for 2 years** in the team 3 of IRSET UMR INSERM 1085, at the University of Rennes 1, France, under the supervision of Professor Lydie Sparfel and Dr Eric Le Ferrec. To work on the "*Impact of polycyclic aromatic hydrocarbons on extracellular vesicles-mediated delivery of microRNAs from human blood circulating cells – study of paracrine effects to endothelial and hepatic cells*", **starting 01/09/2020**.

Please email your detailed CV, including a complete list of your publications, a cover letter of motivation explaining your interest for the chosen position, a short statement on career planning, and 2 letters of references to Professor Lydie SPARFEL (lydie.sparfel@univ-rennes1.fr) before **01/06/2020**.

@ **Post-doc position for 2 years** in INSERM U1063 Stress Oxydant et Pathologies Métaboliques, under the supervision of Dr Ramarason Andriantsitohaina. To work on "Exosomes as innovative nanomedicine approaches to reverse obesity and its metabolic and psychotic complications with specific targeting of the hypothalamus", **starting 01/06/2020**.

Please email your detailed CV, including a complete list of your publications, a cover letter of motivation, a short statement on career planning, and 2 letters of references to Ramarason Andriantsitohaina (ramarason.andriantsitohaina@univ-angers.fr).

@ **R&D project leader position available at** EVerZom, an industrial bio-production platform for extracellular vesicles available for researchers from the pharmaceutical industry designing breakthrough biotherapies. This start-up incubated at Paris Biotech

Santé and has joined the healthcare accelerator Wilco. The company is looking for PhD in biology/biotechnology/pharmacy **starting 15/04/2020**.

All the information are available on the following link: http://www.sfnano.fr/wp-content/uploads/2020/03/Fiche-de-poste-chef.fe-de-projet-RD_EverZom.pdf.

Please contact Jeanne Volatron for any details (jeanne.volatron@everzom.com).

RECENT publications from the french FSEV community

SEND US YOUR ACCEPTED PAPERS and those presented in BioRxiv

@ Launching of a special issue in “Sensors Journal” dealing with the Nanobiosensing of EVs in biofluids.

*In this Special Issue are welcome position paper, reviews and original research papers describing the development and validation of EVs biosensors in any biological fluids. For further information, please visit mdpi.com/si/26108. The submission process is opened until **march 2020**.*

Guest Editors: Dr. Wilfrid Boireau (wilfrid.boireau@femto-st.fr) and Dr. Yu-Jui Fan (ray.yj.fan@tmu.edu.tw)

@ Review

-Gaillard M, Thuairé A, Nonglaton G, Agache V, Roupioz Y, Raillon C. Biosensing extracellular vesicles: contribution of biomolecules in affinity-based methods for detection and isolation. *Analyst*. 2020 Mar 21;145(6):1997-2013. doi: 10.1039/c9an01949a. Epub 2020 Jan 21. PubMed PMID: 31960838.

-Menasché P. Cardiac cell therapy: Current status, challenges and perspectives. *Arch Cardiovasc Dis*. 2020 Mar 11. pii: S1875-2136(20)30040-1. doi: 10.1016/j.acvd.2020.01.002. [Epub ahead of print] Review. PubMed PMID: 32171698.

@ Technology

-Breuer CB, Hanlon KS, Natasan JS, Volak A, Meliani A, Mingozi F, Kleinstiver BP, Moon JJ, Maguire CA. In vivo engineering of lymphocytes after systemic exosome-associated AAV delivery. *Sci Rep*. 2020 Mar 11;10(1):4544. doi: 10.1038/s41598-020-61518-w. PubMed PMID: 32161326.

-Delauzun V, Amigues B, Gaubert A, Leone P, Grange M, Gauthier L, Roussel A. Extracellular vesicles as a platform to study cell-surface membrane proteins. *Methods*. 2020 Mar 7. pii: S1046-2023(19)30259-2. doi: 10.1016/j.jymeth.2020.03.004. [Epub ahead of print] PubMed PMID: 32156657.

-Olivares D, Perez-Hernandez J, Perez-Gil D, Chaves FJ, Redon J, Cortes R. Optimization of small RNA library preparation protocol from human urinary exosomes. *J Transl Med*. 2020 Mar 18;18(1):132. doi: 10.1186/s12967-020-02298-9. PubMed PMID: 32188466.

@ Brain diseases

-Counil H, Krantic S. Synaptic Activity and (Neuro)Inflammation in Alzheimer's Disease: Could Exosomes be an Additional Link? *J Alzheimers Dis*. 2020 Mar 11. doi: 10.3233/JAD-191237. [Epub ahead of print] PubMed PMID: 32176642.

@ Cancer

-AmraneDjedidi R, Rousseau A, Larsen AK, Elalamy I, Van Dreden P, Gerotziafas GT. Extracellular vesicles derived from pancreatic cancer cells BXP3 or breast cancer cells MCF7 induce a permanent procoagulant shift to endothelial cells. *Thromb Res*. 2020 Mar;187:170-179. doi: 10.1016/j.thromres.2019.09.003. Epub 2019 Sep 5. PubMed PMID: 32006891.

-Chanteloup G, Cordonnier M, Isambert N, Bertaut A, Marcion G, Garrido C, Gobbo J. Membrane-bound exosomal HSP70 as a biomarker for detection and monitoring of malignant solid tumours: a pilot study. *Pilot Feasibility Stud*. 2020 Mar 3;6:35. doi: 10.1186/s40814-020-00577-2. eCollection 2020. PubMed PMID: 32161659.

@ Muscle & exercise

-Louzada RAN, Bouviere J, Matta LP, Werneck de Castro JPS, Dupuy C, de Carvalho DP, Fortunato RS. Redox signaling in widespread health benefits of exercise. *Antioxid Redox Signal*. 2020 Mar 15. doi: 10.1089/ars.2019.7949. [Epub ahead of print] PubMed PMID: 32174127.

@ Release & trafficking

-Al Amir Dache Z, Otandault A, Tanos R, Pastor B, Meddeb R, Sanchez C, Arena G, Lasorsa L, Bennett A, Grange T, El Messaoudi S, Mazard T, Prevostel C, Thierry AR. Blood contains circulating cell-free

respiratory competent mitochondria. *FASEB J.* 2020 Mar;34(3):3616-3630. doi: 10.1096/fj.201901917RR. Epub 2020 Jan 19. PubMed PMID: 31957088.

-Gasecka A, Nieuwland R, Budnik M, Dignat-George F, Eyileten C, Harrison P, Lacroix R, Leroyer A, Opolski G, Pluta K, van der Pol E, Postuła M, Siljander P, Siller-Matula JM, Filipiak KJ. Ticagrelor attenuates the increase of extracellular vesicle concentrations in plasma after acute myocardial infarction compared to clopidogrel. *J Thromb Haemost.* 2020 Mar;18(3):609-623. doi: 10.1111/jth.14689. Epub 2020 Jan 9. PubMed PMID: 31833175.

-Ghossoub R, Chéry M, Audebert S, Leblanc R, Egea-Jimenez AL, Lembo F, Mammar S, Le Dez F, Camoin L, Borg JP, Rubinstein E, David G, Zimmermann P. Tetraspanin-6 negatively regulates exosome production. *Proc Natl Acad Sci U S A.* 2020 Mar 17;117(11):5913-5922. doi: 10.1073/pnas.1922447117. Epub 2020 Feb 27. PubMed PMID: 32108028.

-Yamaguchi S, Ito S, Masuda T, Couraud PO, Ohtsuki S. Novel cyclic peptides facilitating transcellular blood-brain barrier transport of macromolecules in vitro and in vivo. *J Control Release.* 2020 Mar 2;321:744-755. doi: 10.1016/j.jconrel.2020.03.001. [Epub ahead of print] PubMed PMID: 32135226.

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

-Molecular and functional diversity of distinct subpopulations of extracellular vesicles from stressed pancreatic beta cells: implications for autoimmunity. Khem Raj Giri, View ORCID Profile Laurence De Beaurepaire, Dominique Jegou, Margot Lavy, Mathilde Mosser, Aurelien Dupont, Romain Fleurisson, Laurence Dubreil, Mayeul Collot, Peter Van Endert, Jean-Marie Bach, Gregoire Mignot, Steffi Bosch.

doi: <https://doi.org/10.1101/2020.03.26.003145>

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