



*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 2020

Dear members,

As we transition to a new period of social distancing, the FSEV will try its very best to reinforce communication between its members.

The present newsletter highlights special endeavours to help you keep up with latests developments in the field in France. To start with, a virtual meeting promoting young scientists has been scheduled on December 3 as well as the Society's first virtual General Assembly. Please take benefit of this occasion to express your view on future actions and how FSEV could help to organize your research in the pandemic situation. Hot topics should include, for instance, issues such as how to reorganize (i) current attempts in favour of student mobility based on joint grant applications offered by FSEV with EV societies from Europe and abroad, and (ii) optimal networking to bring together FSEV researchers with common interests (PhD students, research subspecialities asf).

In 2020, FSEV was glad to facilitate the constitution of two new autonomous working groups namely the EV Therapy and the C'Nano-EV devoted to brainstorming, collective article and grant application writing. During the first period of social distancing and laboratory lock-downs in spring, FSEV further shared information on initiatives such as research petitions. Together with you, we would like to pursue these efforts to protect our weakened research institutions.

Happy HallowEVn!
Take care of you and your relatives,

The FSEV board

NEWS FROM FSEV SOCIETY:

@ Call for ideas The FSEV board members invite you to share your ideas for developing and improving FSEV. The results of the call should be presented during the

FSEV General Assembly (see below @FSEV events). Please do not hesitate to send your ideas to the following address: calls@fsev.fr

Don't miss this opportunity to participate to FSEV life!

FSEV EVENTS:

Some of these events might be canceled or transformed into virtual events, given the recent evolution of the COVID19 situation

@ FSEV General Assembly will be held at lunch time during the FSEV Virtual meeting for young investigators 2020, **03/12/2020** (see below @FSEV events). It will validate the accounts of the FSEV and its actions throughout this year, and will allow our members to express their wishes for future actions.

@ FSEV 3rd meeting (FSEV 2020) is a virtual meeting focusing on young investigators, **03/12/2020**, **"Save the date!"** for one day of live content with a selected set of presentations by 10 young FSEV members and opportunities to connect with attendees.

Please follow the link to [register https://fsev.fr/fsev-2020-meeting.html](https://fsev.fr/fsev-2020-meeting.html)

This compulsory and free registration will allow you to obtain the conditions of access to the seminar afterwards.

Full program and registration info will be available soon, please consult our website

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

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

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

@ SFNano-FSEV joint summer school

The French Society for Nanomedicine (SFNano) and the French Society for Extracellular Vesicles (FSEV) co-organize an **EV Summer School** that was supposed to take place in La Grande Motte, France. Due to the current Covid19 situation, this summer school is post-poned from **26-28/10/2020 to September 2021**. 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/>

ISEV (International Society for EVs) EVENTS:

@ ISEV 2021 annual meeting, Lyon, **19-23/05/2020**. Save the date for this event **co-organized by FSEV!**

The organizing committee is monitoring closely the evolution of the COVID19 pandemics, and will take appropriate decisions to include, if necessary, a virtual component to this meeting. So, do not hesitate to submit your abstract before **15/01/2021**: <https://na.eventscloud.com/website/16865/abstractinfo/>

OTHER EV EVENTS:

Virtual events, Conferences and Courses

@ **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

@ **Jan Lötvall**, Gothenburg University, Sweden: Youtube channel with numerous interviews of experts to discuss about the Extracellular Vesicle topic.

<https://www.youtube.com/user/janlot56/featured>

@ **Ken Witwer**, Johns Hopkins Med U, Bethesda, USA: Weekly journal club on EVs (Wednesdays). If you wish to present an article on EVs recently published or in BioRxiv (from someone else or from yourself), you can send an email to Ken Witwer (kwitwer1@jhmi.edu)

@ **2nd Digital Exosome Based Therapeutic Development Summit, 11 & 12/11/2020.**

This digital event will unite pharma, biotech, academic and technology providers to accelerate the discovery, development and commercialization of safe and effective exosome-based therapeutics. For more information, please follow the link:

https://exosomebasedtx.com/?utm_source=external&utm_medium=pd%2Fnewsletter&utm_campaign=16453-ebtds-european-pharmaceutical-manufacturer-sponsored-content-newsletter

FSEV member invited speakers: Guillaume Van Niel (Paris).

@ **Formation Continue "Vésicules Extracellulaires de la préparation à la caractérisation"**, Lyon, France. **16-20/11/2020.**

For more information, please follow the link: http://offre-de-formations.univ-lyon1.fr/InsertPro/20200626_FORM_779_Formation_Vesicules_extracellulaires_form_2021.pdf

@ **EMBL Technology Day: Technologies for Extracellular Vesicles Research: Q&A, 24/11/2020.** This interactive **virtual** event targets scientists working in the field of extracellular vesicles (beginners level). It provides a platform to discuss about your methodology-related questions on EV isolation and characterization with the 4 organizers of the annual EMBL course on Extracellular Vesicles. They will give short presentations about pre-analytical variables, EV isolation methods, EV visualization by microscopy, and EV protein and RNA analysis. This will be followed by break-out sessions with the organizers for Q&A and further discussion. Please follow the link <https://www.embl.de/training/events/2020/EXO20-01/> for registration.

A more in-depth practical course will take place on **21-26/11/21.**

FSEV member co-organizer: Guillaume Van Niel (Paris).

@ **CellFit** (European network of excellence - COST Action CA16119), **Winter School: Basics to Work with Extracellular Vesicles**, Tartu, Estonia. **30/11-02/12/2020.** The aim is to introduce the basic methods for working with extracellular vesicles. The event will be available in a **hybrid** format. Participation is free of charge but application is

required. To apply, please send your CV and motivation letter by **09/11/2020** to oliivika@ut.ee

@ **UK Society for Extracellular Vesicles, UKEV Virtual Forum 2020. 07 & 08/12/2020.** Online and free to EU EV Society Members. <https://www.ukev.org.uk/ukev-forum-2020/>

@ **Netherlands Society for Extracellular Vesicles, NLSEV 2020 Annual meeting,** Amsterdam, Netherlands. **19/03/2021.** www.nlsev.nl 2020@nlsev.nl

FSEV member invited speakers: Clotilde Théry (Paris).

PhD Defense:

@ **Adrien Presle:** *Le facteur de restriction viral BST2/Tetherin ancre les Midbody post-cytokinétiques à la surface cellulaire.*

06/11/2020 (Paris). Supervisor: Neetu Gupta-Rossi (Institut Pasteur Paris - UMR CNRS 3691, Arnaud Echard's Team « Membrane Traffic and Cell Division »)

@ **Mathilde Mathieu :** *Etude des mécanismes moléculaires de biogenèse et de sécrétion des différents types de vésicules extracellulaires par suivi du trafic de marqueurs vésiculaires.*

01/12/2020 (Paris). Supervisor : Clotilde Théry (Institut Curie, INSERM U932).

JOB OPPORTUNITIES: for more details, please see FSEV website.

@ **Postdoctoral position for 2 years** at Université de Paris, Saint-Germain-des-Prés. The project focuses on extracellular vesicles transport between *legionella pneumophila* (*Lp*) and target human cells. The goal is to characterize this transport at the cellular and molecular levels and identify the core machinery responsible for *Lp*-derived EV delivery.

Send your applications to Gregory.lavieu@inserm.fr

@ **Postdoctoral position for 2 years** at Cancer Research Center, Toulouse, **starting Jan-Febr 2021.** The project aims to determine how lipid metabolism reprogramming in tumors impacts on extracellular vesicles secretion, content and anti-tumor functions in tumor cell models in vitro and in vivo and in patient samples.

Send your applications to Sandrine.poirot@inserm.fr

RECENT publications from the french FSEV community:

SEND US YOUR ACCEPTED PAPERS

@ Review

-Bosch S, Young N.A., Mignot G., Bach J.M. Epigenetic mechanisms. In immune disease: The significance of Toll-like receptor-binding extracellular vesicle-encapsulated microRNA. *Fronti. Genet.* 2020 Oct 11:578335. doi:10.3389/fgene.2020.578335.

-Mhaidly R, Mechta-Grigoriou F. Fibroblast heterogeneity in tumor micro-environment: Role in immunosuppression and new therapies. *Semin Immunol.* 2020 Oct 16:101417. doi:10.1016/j.smim.2020.101417. PMID:33077325

@ Brain

-Bhatt S, Kanoujia J, Dhar AK, Arumugam S, A Silva AK, Mishra N. Exosomes: A Novel Therapeutic Paradigm for Treatment of Depression. *Curr Drug Targets.* 2020 Oct 6. doi:10.2174/1389450121999201006193005. PMID:33023431.

-Gloaguen C, Raimundo AF, Elie C, Schmitt A, Floriani M, Favard S, Monneret D, Imbert-Bismut F, Weiss N, Deli MA, Tack K, Lestaevel P, Benadjaoud MA, Legendre A. Passage of uranium through human

cerebral microvascular endothelial cells: influence of time exposure in mono- and co-culture in vitro models. *Int J Radiat Biol.* 2020 Oct 6:1-11. doi:10.1080/09553002.2020.1828655. PMID:32990492.

@ Cancer

-Dumas JF, Brisson L. Interaction between adipose tissue and cancer cells: role for cancer progression. *Cancer Metastasis Rev.* 2020 Oct 2. doi:10.1007/s10555-020-09934-2. PMID:33009650.

-Hofman P. Liquid biopsy for lung cancer screening: Usefulness of circulating tumor cells and other circulating blood biomarkers. *Cancer Cytopathol.* 2020 Oct 2. doi:10.1002/cncy.22367. PMID:33007153.

@ Reproduction

-Alcántara-Neto AS, Schmaltz L, Caldas E, Blache MC, Mermillod P, Almiñana C. Porcine oviductal extracellular vesicles interact with gametes and regulate sperm motility and survival. *Theriogenology.* 2020 Oct 1;155:240-255. doi:10.1016/j.theriogenology.2020.05.043. PMID:32791377.

-Saint-Dizier M, Mahé C, Reynaud K, Tsikis G, Mermillod P, Druart X. Sperm interactions with the female reproductive tract: A key for successful fertilization in mammals. *Mol Cell Endocrinol.* 2020 Oct 1;516:110956. doi:10.1016/j.mce.2020.110956. PMID:32712384.

@ Plants

-Middleton H, Yergeau É, Monard C, Combier JP, El Amrani A. Rhizospheric Plant-Microbe Interactions: miRNAs as a Key Mediator. *Trends Plant Sci.* 2020 Oct 6:S1360-1385(20)30272-7. doi:10.1016/j.tplants.2020.09.005. PMID:33036916.

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

-Katarzyna Polak, Noémie Greze, Maëlle Lachat, Delphine Merle, Steve Chiumento, Christelle Bertrand-Gaday, Bernadette Trentin, Robert Z. Mamoun. Extracellular vesicle-based vaccine platform displaying native viral envelope proteins elicits a robust anti-SARS-CoV-2 response in mice. doi: <https://doi.org/10.1101/2020.10.28.357137>.

-Mathilde Mathieu, Nathalie Névo, Mabel Jouve, José Ignacio Valenzuela, Mathieu Maurin, Frederik Verweij, Roberta Palmulli, Danielle Lankar, Florent Dingli, Damarys Loew, Eric Rubinstein, Gaëlle Boncompain, Franck Perez, Clotilde Théry. Specificities of exosome versus small ectosome secretion revealed by live intracellular tracking and synchronized extracellular vesicle release of CD9 and CD63. doi: <https://doi.org/10.1101/2020.10.27.323766>.

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