



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

December 2019

NEWS FROM FSEV SOCIETY:

@ FSEV offers **4 travel grants of 1000€** for **Junior scientists presenting oral communications at ISEV-2020**. Please send your application to admin@fsev.fr as a single pdf including

- 1) the abstract submitted to ISEV-2020,
- 2) the email from ISEV notifying of its selection for oral presentation,
- 3) ½ page motivation to attend ISEV-2020,
- 4) 1 page CV including full affiliation, status (PhD student with date of 1st year, Post-doc with date of PhD defence), publications (oral or poster communications, articles: accepted or submitted).

Deadline for application: **20/02/2020**

(abstract notification of ISEV expected 14/02/2020).

Results expected **28/02/2020**

(deadline for ISEV-2020 registration of oral presenters is 02/03/2020).

Possible re-opening of the call for late-breaking abstracts, if remaining fellowships available.

FSEV EVENTS:

@ SFNano-FSEV joined 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**. 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/>

Registration will open in January 2020 at <https://evsummerschool.sciencesconf.org>

Deadline for abstract submission (short oral presentation): **31/01/2020**

A tentative theme issue at Advanced Drug Delivery Reviews (Impact factor 15.5) about Technological and translational challenges for EVs in therapy and diagnosis will include a limited number of articles from participants. If you intend to participate to the Summer school and if you are willing to contribute to this theme issue (submission dead-line: end 2020), please send a provisional title to guillaume.van-niel@inserm.fr and amanda.silva@univ-paris-diderot.fr by **20/12/2019**.

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

05/02/2020 7th GO-EV meeting, Rennes. Theme: "**Functions and activities of EVs**". Contact: eric.guedon@inra.fr

29/05/2020, 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. Contact: laetitia.guevel@univ-nantes.fr

@ Thematic group on the use of EV in therapy

S. Banzet and A. Silva-Brun have decided to launch a thematic group to gather the French actors interested in EV in 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 ethical questions. This project will be also presented at 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 has opened a call for application as **members at large of its board** for the 05/2020-05/2022 term.

Deadline for applications 06/01/2020

If you are an ISEV member, you have received an email from International Society for Extracellular Vesicles <contact@isev.org> with a link to surveymonkey for application. If not, you probably need to renew your membership or to apply for it.

@ ISEV Annual Meeting 2020, Philadelphia, USA, **20-24/05/2020** + Education Day **19/05/2020**. <https://www.isev.org/mpage/2020home> (opened on 08/11/019).

Early registration deadline **13/03/2020**

Abstract submission deadline **17/01/2020**

<https://www.abstractscorecard.com/cfp/submit/login.asp?EventKey=MARHKFFL>

@ ISEV Workshop "EVs in immunology", Buenos Aires, Argentina 05-06 March 2020. Plus free Education day on **04 March 2020**.

<https://www.isev.org/events/EventDetails.aspx?id=1232985&group=>

@ ISEV Workshop "Imaging EVs in vivo", Paris, IPNP, 19-20 March 2020

Presentations of **19/03/2020** morning will be opened to max 200 attendees, registration is free but mandatory. A link to the registration website will be provided in the January Newsletter.

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

<https://www.isev.org/events/EventDetails.aspx?id=1232987&group=>

@ The second Open Access course (MOOC 2) on EVs in health and Disease has been launched by ISEV in October 2019

<https://www.coursera.org/learn/extracellular-vesicles-health-disease>

MOOC 2 is designed for intermediate learners, and prepared by team of 54 well known International EV scientists. It covers 19 topics on the roles of EVs in humans. MOOC 2 expands on the learnings from MOOC 1 and aims to provide current understanding about EVs and their role in health and disease.

FSEV members involved in preparing courses of MOOC 2 include: R. Lacroix (Marseille, coagulation), R. Andriantsitohaina and C. Martinez (Angers, metabolism), C. Théry and M. Tkach (Paris, tumour and immune system interaction), C. Boulanger (Paris, cardiovascular diseases).

OTHER EV EVENTS:

Conferences and Courses

@ **Moscou Oncology Symposium, 16-18/12/2019**, Moscou, Russia.

FSEV members invited speakers: Julie Gavard (Nantes), Gregory Lavieu (Paris).

@Two "Fusion Conferences" in March 2020, Nassau Bahamas:

-**Exosomes in Infectious Diseases conference, 05-07/03/2020.**

Deadline talk submission: **19/12/2019**. Poster submission: **09/01/2020**. Registration: **10/01/2020**.

<https://www.fusion-conferences.com/conference/105>

FSEV member Co-organizer: Graça Raposo (Paris), Invited speaker: Guillaume van Niel (Paris)

-**2nd Immuno-Metabolic Mechanisms of Atherosclerosis, 02-04/03/2020.**

Deadline talk submission: **20/12/2019**. Poster submission: **06/01/2020**. Registration: **06/01/2020**.

One session on EVs. <https://www.fusion-conferences.com/conference/103>

FSEV member invited speaker: Clotilde Théry (Paris)

@ **Gordon Research Conference "Understanding EV Biogenesis and composition for detection and treatment of diseases", 26-31/07/2021**, Sunday River, MA, USA. Application open until **28/06/2020** at

<https://www.grc.org/extracellular-vesicles-conference/2020/>

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

PhD Defenses

@ **Anaïs BÉCOT**: *Les APP-CTFs au cœur du processus pathologiques de la maladie d'Alzheimer: contribution du système lysosomal-autophagique et de la sécrétion exosomale*. 16/12/2019, 14h, Université Sophia-Antipolis, Nice.

Thèse dirigée par Inger Lauritzen et Frédéric Checler, IPMC et Distalz.

@ **Khem Raj GIRI**: *Role of Extracellular Vesicles in Type 1 Diabetes*". 31/01/2020, Oniris, Salle 103, Nantes.

Thèse co-dirigée par Steffi Bösch, Jean-Marie Bach et Peter van Endert.

JOB OPPORTUNITIES:

@ **PhD position** at the Institut de Biologie Structurale de Grenoble (CNRS/ CEA / University Grenoble-Alpes), directed by Rémi Sadoul, in the team of W. Weissenhorn, to work on the molecular mechanisms allowing the intercellular transfer of biologically active molecules via exosomes.

Send application before **20/03/2020** in a single pdf file including CV, motivation letter, Bachelor and Master transcripts to Professor Remy Sadoul (remy.sadoul@univ-grenoble-alpes.fr)

@ **Early post-doc/engineer position** at the Signaling in Oncogenesis, Angiogenesis and Permeability Lab, CRCINA, Nantes (INSERM/CNRS/Université de Nantes), in the team of Julie Gavard, to work on the impact of extracellular vesicles in the brain tumor microenvironment.

Please send your application before **01/06/2020** including CV, motivation letter and two references to Julie Gavard (Julie.gavard@inserm.fr).

RECENT publications from the 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](https://www.mdpi.com/si/26108). The submission process is opened from **april 2019 to march 2020**.

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

@ Bookchapters

- « Exosomes : A Clinicial Compendium » - 1st Edition

Editors: Lawrence Edelstein, John Smythies, Peter Quesenberry, Denis Noble

<https://www.elsevier.com/books/exosomes/edelstein/978-0-12-816053-4>

Chapter 15 : Exosomes in Metabolic Syndrome

Soazig Le Lay, Ramaroson Andriantsitohaina, Carmen M Martinez

@ Original Articles

Cancer

Vignard V, Labbé M, Marec N, André-Grégoire G, Jouand N, Fonteneau JF, Labarrière N, Fradin D. MicroRNAs in Tumor Exosomes Drive Immune Escape in Melanoma. *Cancer Immunol Res*. 2019 Dec 19. pii: canimm.0522.2019. doi: 10.1158/2326-6066.CIR-19-0522. [Epub ahead of print] PubMed PMID: 31857348.

Neurobiology

-Lauritzen I, Bécot A, Bourgeois A, Pardossi-Piquard R, Biferi MG, Barkats M, Checler F. Targeting γ -secretase triggers the selective enrichment of oligomeric APP-CTFs in brain extracellular vesicles from Alzheimer cell and mouse models. *Transl Neurodegener*. 2019 Dec 5;8:35. doi: 10.1186/s40035-019-0176-6. eCollection 2019. PubMed PMID: 31827783; PubMed Central PMCID: PMC6894230.

-Lemaire Q, Raffo-Romero A, Arab T, Van Camp C, Drago F, Forte S, Gimeno JP, Begard S, Colin M, Vizioli J, Sautière PE, Salzet M, Lefebvre C. Isolation of microglia-derived extracellular vesicles: towards miRNA signatures and neuroprotection. *J Nanobiotechnology*. 2019 Dec 4;17(1):119. doi: 10.1186/s12951-019-0551-6. PubMed PMID: 31801555; PubMed Central PMCID:PMC6894150.

Cardiology

-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 vesicles concentrations in plasma after acute myocardial infarction compared to clopidogrel. *J Thromb Haemost*. 2019 Dec 12. doi: 10.1111/jth.14689. [Epub ahead of print] PubMed PMID: 31833175.

-Kenneweg F, Bang C, Xiao K, Boulanger CM, Loyer X, Mazlan S, Schroen B, Hermans-Beijnsberger S, Foinquinos A, Hirt MN, Eschenhagen T, Funcke S, Stojanovic S, Genschel C, Schimmel K, Just A, Pfanne A, Scherf K, Dehmel S, Raemon-Buettner SM, Fiedler J, Thum T. Long Noncoding RNA-Enriched Vesicles Secreted by Hypoxic Cardiomyocytes Drive Cardiac Fibrosis. *Mol Ther Nucleic Acids*. 2019 Dec 6;18:363-374. doi: 10.1016/j.omtn.2019.09.003. Epub 2019 Sep 13. PubMed PMID: 31634682; PubMed Central PMCID: PMC6807307.

stem cell

-Le Saux S, Aarrass H, Lai-Kee-Him J, Bron P, Armengaud J, Miotello G, Bertrand-Michel J, Dubois E, George S, Faklaris O, Devoisselle JM, Legrand P, Chopineau J, Morille M. Post-production modifications of murine mesenchymal stem cell (mMSC) derived extracellular vesicles (EVs) and impact on their cellular interaction. *Biomaterials*. 2019 Dec 7;231:119675. doi: 10.1016/j.biomaterials.2019.119675. [Epub ahead of print] PubMed PMID: 31838346.

Imagery

-Bebelmann MP, Bun P, Huveneers S, van Niel G, Pegtel DM, Verweij FJ. Real-time imaging of multivesicular body-plasma membrane fusion to quantify exosome release from single cells. *Nat Protoc*. 2019 Dec 13. doi: 10.1038/s41596-019-0245-4. [Epub ahead of print] PubMed PMID: 31836866.

- Yefimova M, Bere E, Neyroud AS, Jegou B, Bourmeyster N, Ravel C. Myelinosome-like vesicles in human seminal plasma: A cryo-electron microscopy study. *Cryobiology*. 2019 Sep 21. pii: S0011-2240(19)30168-3. doi: 10.1016/j.cryobiol.2019.09.009. [Epub ahead of print]. PMID: 31550454

Reviews

- Russell AE, Sneider A, Witwer KW, Bergese P, Bhattacharyya SN, Cocks A, Cocucci E, Erdbrügger U, Falcon-Perez JM, Freeman DW, Gallagher TM, Hu S, Huang Y, Jay SM, Kano SI, Lavieu G, Leszczynska A, Llorente AM, Lu Q, Mahairaki V, Muth DC, Noren Hooten N, Ostrowski M, Prada I, Sahoo S, Schøyen TH, Sheng L, Tesch D, Van Niel G, Vandenbroucke RE, Verweij FJ, Villar AV, Wauben M, Wehman AM, Yin H, Carter DRF, Vader P. Biological membranes in EV biogenesis, stability, uptake, and cargo transfer: an ISEV position paper arising from the ISEV membranes and EVs workshop. *J Extracell Vesicles*. 2019 Nov 8;8(1):1684862. doi:10.1080/20013078.2019.1684862. eCollection 2019. PubMed PMID: 31762963; PubMed. Central PMCID: PMC6853251

- Pérez PS, Romaniuk MA, Duette GA, Zhao Z, Huang Y, Martin-Jaular L, Witwer KW, Théry C, Ostrowski M. Extracellular vesicles and chronic inflammation during HIV infection. (2019). *J Extracell Vesicles*, 8: 1687275

- Follain G, Herrmann D, Harlepp S, Hyenne V, Osmani N, Warren SC, Timpson P, Goetz JG. Fluids and their mechanics in tumour transit: shaping metastasis. *Nat Rev Cancer* 2019 Nov 28. doi: 10.1038/s41568-019-0221-x. [Epub ahead of print]

Other

-Le Goff M, Lagadic-Gossmann D, Latour R, Podechard N, Grova N, Gauffre F, Chevance S, Burel A, Appenzeller BMR, Ulmann L, Sergent O, Le Ferrec E. PAHs increase the production of extracellular vesicles both in vitro in endothelial cells and in vivo in urines from rats. *Environ Pollut*. 2019 Dec;255(Pt 1):113171. doi: 10.1016/j.envpol.2019.113171. Epub 2019 Sep 10. PubMed PMID: 31539851.

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