



*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***

November 2019

NEWS FROM FSEV SOCIETY:

@ This Newsletter is yours. Please send any information you wish to spread to the FSEV community to newsletter@fsev.fr, it will be included in the following NL. Information for the NL can be for instance: local meetings, invited external speakers, PhD defences, job offers, publications of FSEV members, searches for partners in grant applications, etc.

@ 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:

@ FSEV-2019 was a very successful meeting!

Your responses to the satisfaction survey show 94,8% of "good" or "excellent" global appreciation!

The topics of presentations were interesting to all, and the meeting allowed a good amount of interactions and potential new collaborations.

A number of interesting suggestions will be taken into account for the next meetings.

Thank you for answering this survey, and for your participation to the meeting!

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

Save the Date: 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.

@ SFNano-FSEV joined summer school

Save the date: 10-12/06/2020, Montpellier, France.

More information to come soon.

ISEV (International Society for EVs) EVENTS:

@ 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=>

Submission deadline: 15/11/2019.

<https://www.surveymonkey.com/r/H8CWHTH>

@ ISEV Workshop “Imaging EVs in vivo”, Paris, IPNP, 19-20 March 2020.

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

Registration and Abstract **submission deadline: 22/11/2019.**

<https://www.surveymonkey.com/r/KBS5JGF>

Presentations of **19/03/2020** morning are open to max 200 attendees, registration is free but mandatory.

Round Tables of the workshop will accept max 60 participants, selected on abstract and motivation.

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

@ ISEV workshop: Open, reproducible and Standardized EV research, Ghent University, Belgium **02-03 December 2019.**

<https://www.isev.org/events/EventDetails.aspx?id=1196703&group=>

co-organized by FSEV member: Clotilde Théry

@ 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>

@ 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

@ Formation Continue "Vésicules Extracellulaires (VE) de la préparation à la caractérisation". Faculté de Médecine Lyon-Sud, Oullins, France. **18-22/11/2019**

Contact Organisateur: PASCAL COLOSETTI Email: pascal.colosetti@inserm.fr
Contact Formation continue: CARINE DULAC Email: carine.dulac@univ-lyon1.fr
http://focal.univ-lyon1.fr/offre-de-formation-focal/formation-718898.kjsp?FORM_ID=779#PRESENTATION

@ **GSEV-ASEV Autumn 2019**: Second Autumn Joined meeting of German and Austrian Societies of EVs. **28-29/11/2019** + **hands-on workshop 30/11/2019**.

<https://www.extracellular-vesicles.de/gsev-asev-autumn-meeting-2019/>

FSEV member invited speaker: Alain Brisson (Bordeaux).

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

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

Deadline talk submission: 06/12/2019.

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

FSEV member invited speaker: Clotilde Théry (Paris)

@ **ASCB/EMBO 2019 meeting, 7-11/12/2019**, Washington DC, USA.

<https://www.ascb.org/2019ascbembo/>

FSEV member invited speaker: Jacky Goetz (Strasbourg).

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

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

Invited Speakers on EVs in France

@ **Invited speaker: James Edgar**, University of Cambridge, UK: "*Tethered exosomes: roles in health and diseases*". **21/11/2019, 15h30**, Amphitheatre Lacassagne, Institut Curie, 26 rue d'Ulm, Paris. invited by Graça Raposo, CNRS UMR144.

PhD Defences

@ **Roberta Palmulli**: *Role of CD63 in the biogenesis and function of exosomes*. **22/11/2019, 14h**, Amphithéâtre Lacassagne, Institut Curie, Paris.

Thèse dirigée par Graça Raposo, Institut Curie and Guillaume van Niel, IPNP, Paris.

@ **Anaïs Larabi**: *Les exosomes, médiateurs fondamentaux de la communication intercellulaire au cours de l'infection par les bactéries AIEC impliquées dans la maladie de Crohn*. **29/11/2019, 13h**, Université de Clermont-Ferrand.

Thèse dirigée par Hang NGUYEN et Julien DELMAS, équipe Microbes, intestin, Inflammation et susceptibilité de l'hôte (M2iSH), UMR1071 INSERM, INRA USC-2018, Clermont-Ferrand.

@ **Stephany Fiore**: *Netrin-1 et Vésicules extracellulaires*. **29/11/2019, 14h**, Campus Rockefeller, Faculté de Médecine de Lyon Est.

Thèse dirigée par Patrick Mehlen, INSERM U1052, CRCL, Lyon.

@ **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.

Prizes

@ **Marie Millard** a reçu le **22/11/2019**, à 14h30 à Metz, le **prix de thèse 2019 de l'école doctorale BioSE** (Université de Lorraine) pour sa thèse sur les EVs.

La thèse intitulée "*Optimisation de la thérapie photo dynamique par la nanovectorisation du photo sensibilisateur mTHPC à l'aide de vésicules extracellulaires*", a été effectuée au CRAN (Centre de Recherche en Automatique de Nancy), unité mixte de recherche (UMR 7039) Université de Lorraine-CNRS, sous la direction de Lina Bolotine, et soutenue le 14/12/2018.

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 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 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)

@ Reviews

-Vautrot V, Chanteloup G, Elmallah M, Cordonnier M, Aubin F, Garrido C, Gobbo J. Exosomal miRNA: Small Molecules, Big Impact in Colorectal Cancer. *J Oncol.* 2019 Oct 13;2019:8585276. doi: 10.1155/2019/8585276. eCollection 2019. Review. PubMed PMID: 31737071; PubMed Central PMCID: PMC6815599.

-Lafitte M, Lecointre C, Roche S. Roles of exosomes in metastatic colorectal cancer. *Am J Physiol Cell Physiol.* 2019 Nov 1;317(5):C869-C880. doi: 10.1152/ajpcell.00218.2019. Epub 2019 Jul 10. PubMed PMID: 31291143.

- Balaphas A, Meyer J, Sadoul R, Morel P, Gonelle-Gispert C, Bühler LH. Extracellular vesicles: Future diagnostic and therapeutic tools for liver disease and regeneration. *Liver Int.* 2019 Oct;39(10):1801-1817. doi: 10.1111/liv.14189. Epub 2019 Jul 22. Review. PubMed PMID: 31286675.

-Vidal M. Exosomes: Revisiting their role as "garbage bags". *Traffic.* 2019 Nov;20(11):815-828. doi: 10.1111/tra.12687. Epub 2019 Oct 1. Review. PMID: 31418976

-Gougelet A, Desbois-Mouthon C. Non-coding RNAs open a new chapter in liver cancer treatment. *Clin Res Hepatol Gastroenterol.* 2019 Nov;43(6):630-637. doi: 10.1016/j.clinre.2019.07.005. Epub 2019 Aug 7. PubMed PMID: 31401041.

-Thuringer D, Garrido C. Molecular chaperones in the brain endothelial barrier: neurotoxicity or neuroprotection? *FASEB J.* 2019 Nov;33(11):11629-11639. doi: 10.1096/fj.201900895R. Epub 2019 Jul 26. PubMed PMID: 31348679.

-Dagnelie MA, Corvec S, Khammari A, Dréno B. Bacterial extracellular vesicles: A new way to decipher host-microbiota communications in inflammatory dermatoses. *Exp Dermatol.* 2019 Oct 21. doi: 10.1111/exd.14050. [Epub ahead of print] Review. PubMed PMID: 31633842.

@ Inflammation

-Douanne T, André-Grégoire G, Trillet K, Thys A, Papin A, Feyeux M, Hulin P, Chiron D, Gavard J, Bidère N. Pannexin-1 limits the production of proinflammatory cytokines during necroptosis. *EMBO Rep.* 2019 Oct 4;20(10):e47840. doi: 10.15252/embr.201947840. Epub 2019 Aug 14. PubMed PMID: 31410978; PubMed Central PMCID: PMC6776911.

-Martin PJ, Héliot A, Trémolet G, Landkocz Y, Dewaele D, Cazier F, Ledoux F, Courcot D. Cellular response and extracellular vesicles characterization of human macrophages exposed to fine atmospheric particulate matter. *Environ Pollut.* 2019 Nov;254(Pt A):112933. doi: 10.1016/j.envpol.2019.07.101. Epub 2019 Jul 25. PubMed PMID: 31382213.

@ Biomarkers/cancer

-Vallier L, Bouriche T, Bonifay A, Judicone C, Bez J, Franco C, Guervilly C, Hisada Y, Mackman N, Houston R, Poncelet P, Dignat-George F, Lacroix R. Increasing the sensitivity of the human microvesicle tissue factor activity assay. *Thromb Res.* 2019 Oct;182:64-74. doi: 10.1016/j.thromres.2019.07.011. Epub 2019 Jul 19. PubMed PMID: 31450010; PubMed Central PMCID: PMC6825876.

-Buscail E, Chauvet A, Quincy P, Degrandi O, Buscail C, Lamrissi I, Moranvillier I, Caumont C, Verdon S, Brisson A, Marty M, Chiche L, Laurent C, Vendrely V, Moreau-Gaudry F, Bedel A, Dabernat S. CD63-GPC1-Positive Exosomes Coupled with CA19-9 Offer Good Diagnostic Potential for Resectable Pancreatic Ductal Adenocarcinoma. *Transl Oncol.* 2019 Nov;12(11):1395-1403. doi: 10.1016/j.tranon.2019.07.009. Epub 2019 Aug 7. PubMed PMID: 31400579; PubMed Central PMCID: PMC6699195.

-Papageorgiou L, Alhaj Hussen K, Thouroude S, Mbemba E, Cost H, Garderet L, Elalamy I, Larsen A, Van Dreden P, Dimopoulos MA, Mohty M, Gerotziafas GT. Modelization of Blood-Borne Hypercoagulability in Myeloma: A Tissue-Factor-Bearing Microparticle-Driven Process. *TH Open.* 2019 Nov 4;3(4):e340-e347. doi: 10.1055/s-0039-1700885. eCollection 2019 Oct. PubMed PMID: 31693008; PubMed Central PMCID: PMC6828570.

-Buscail E, Alix-Panabières C, Quincy P, Cauvin T, Chauvet A, Degrandi O, Caumont C, Verdon S, Lamrissi I, Moranvillier I, Buscail C, Marty M, Laurent C, Vendrely V, Moreau-Gaudry F, Bedel A, Dabernat S, Chiche L. High Clinical Value of Liquid Biopsy to Detect Circulating Tumor Cells and Tumor Exosomes in Pancreatic Ductal Adenocarcinoma Patients Eligible for Up-Front Surgery. *Cancers (Basel).* 2019 Oct 26;11(11). pii: E1656. doi: 10.3390/cancers11111656. PubMed PMID: 31717747.

@ Psoriasis

-Jacquin-Porretaz C, Cordonnier M, Nardin C, Boullerot L, Chanteloup G, Vautrot V, Adotevi O, Garrido C, Gobbo J, Aubin F. Increased Levels of Interleukin-17A Exosomes in Psoriasis. *Acta Derm Venereol.* 2019 Nov 1;99(12):1143-1147. doi: 10.2340/00015555-3300. PubMed PMID: 31449317

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

- Exosomes transmit retroelement RNAs to drive inflammation and immunosuppression in Ewing Sarcoma. Valentina Evdokimova, Peter Ruzanov, Hendrik Gassmann, Syed H. Zaidi, Vanya Peltekova, Lawrence E. Heisler, John D. McPherson, Marija Orlic-Milacic, Katja Specht, Katja Steiger, Sebastian J. Schober, Uwe Thiel, Trevor D. McKee, Mark Zaidi, Christopher M. Spring, Eve Lapouble, Olivier Delattre, Stefan Burdach, Lincoln D. Stein, Poul H. Sorensen. bioRxiv 806851; doi: <https://doi.org/10.1101/806851>. October 16, 2019.

- Adipocyte vesicles: ‘all-in-one’ packages that stimulate tumor mitochondrial metabolism and dynamics. Emily Clement, Ikrame Lazar, Camille Attané, Lorry Carrié, Stéphanie Dauvillier, Manuelle Ducoux-Petit, Thomas Menneteau, Mohamed Moutahir, Sophie Le Gonidec, Stéphane Dalle, Philippe Valet, Odile Burlet-Schiltz, Catherine Muller, Laurence Nieto doi: <https://doi.org/10.1101/649327>. May 26, 2019.

- Origin of the bidirectionality of cerebrospinal fluid flow and impact on long-range transport between brain and spinal cord. Olivier Thouvenin, Ludovic Keiser, Yasmine Cantaut-Belarif, Martin Carbo-

Tano, Frederik Verweij, Nathalie Jurisch-Yaksi, Pierre-Luc Bardet, Guillaume Van Niel, François Gallaire, Claire Wyart doi: <https://doi.org/10.1101/627166>. May 7, 2019.

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