



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](mailto:newsletter@fsev.fr)**

## February 2020

### NEWS FROM FSEV SOCIETY:

@ **FSEV** offers a few **travel grants of 1000€** for **Junior scientists presenting oral communications at ISEV-2020**. Please send your application to [admin@fsev.fr](mailto: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 1<sup>st</sup> year, Post-doc with date of PhD defence), publications (oral or poster communications, articles: accepted or submitted).

**Results** of first round submission will be sent on **28/02/2020**

**For late-breaking abstracts**: submission to **FSEV: 25/03/2020** and results: **29/03/2020**.

### 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**. 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 and abstract submission at <https://evsummerschool.sciencesconf.org>

**Abstract submission and registration deadline** (short oral presentation) **29/02/2020**

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.vaniel@inserm](mailto:guillaume.vaniel@inserm) and [amanda.silva@univ-paris-diderot.fr](mailto:amanda.silva@univ-paris-diderot.fr) by **29/02/2020**.

#### @ **Next meeting of the Grand-Ouest EV network (GO-EV) 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 (limited to 80 participants). Abstracts for poster and/or oral communications are welcome (deadline **27/03/2020**).

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](mailto: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](mailto:sebastien.banzet@inserm.fr)

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

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#### **ISEV (International Society for EVs) EVENTS:**

**@ ISEV Annual Meeting 2020**, Philadelphia, USA, **21-24/05/2020**, Education Day **20/05/2020**. <https://www.isev.org/mpage/2020home>.

**Late breaking Abstract submission deadline 02/03/2020.**

**Presenting Author registration deadline: 02/03/2020.**

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

**@ ISEV Workshop “EVs in immunology”, Buenos Aires, Argentina 05-06/03/2020.** Plus free Education day on **04 March 2020**.

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

**FSEV members presenters** at Education Day: Mercedes Tkach, Lorena Martin-Jaular (Paris).

**@ ISEV Workshop “Imaging EVs in vivo”, Paris, IPNP, 19-20/03/2020**

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

Morning presentations of **19 and 20/03/2020** are open to max 200 attendees. Afternoon sessions are limited to previously accepted applicants.

**Registration to morning sessions** is free but mandatory at [surveymonkey.com/r/JP758J6](https://surveymonkey.com/r/JP758J6)

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

**@ Joint ISCT-ISEV session on MSC-EVs as novel therapeutic approach. ISCT (International Society for Cell Therapy) 2020 Annual meeting, 27-30/05/2020, Paris.**

<http://www.isct2020.com/>

Late Breaking Abstract submission deadline **08/03/2020**.

Early registration deadline **24/02/2020**.

Session "Basics and translational potential of extracellular vesicles including exosomes", Saturday 30/05/2020 1:30-3pm.

**FSEV member invited speakers:** Clotilde Théry (Paris).

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#### **OTHER EV EVENTS:**

## Conferences and Courses

@ Two "Fusion Conferences" in Nassau Bahamas:

**2nd Immuno-Metabolic Mechanisms of Atherosclerosis conference, 01-04/03/2020.**

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

**FSEV member invited speaker:** Clotilde Théry (Paris)

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

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

**FSEV member Co-organizer:** Graça Raposo (Paris), Invited speakers: Guillaume van Niel (Paris), Clotilde Théry (Paris)

@ **Club Exo-Endo 2020 Annual meeting, 04-06/06/2020, Munster, France.**

Abstract and registration submission deadline **15/03/2020**. <http://exoendo.org/meeting-2020.html>

Session "exosomes and microvesicles", Friday **05/06/2020 11:15-12:45**, chaired by Guillaume van Niel (Paris, **FSEV**) and Remy Sadoul (Grenoble).

@ **11th Journée Roger Monier, 27/03/2020**, 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**, Andover, NH, USA. Application open until **24/05/2020** at

<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**, 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

@ **Maëva DURCIN:** *Caractérisation des vésicules extracellulaires dans un contexte d'obésité et suivi de leur évolution durant la pratique d'une activité physique régulière chez des patients obèses.* **05/03/2020** à Pointe à Pitre, Guadeloupe

Thèse co-dirigée par Soazig Le Lay (Inserm1063/SOPAM, Univ Angers) et Olivier Hue (EA 3596/ACTES, Point à Pitre)

@ **Manon LE GOFF:** *Etude des vésicules extracellulaires endothéliales et autres marqueurs de toxicité du Benzo[a]pyrène : influence d'extraits de microalgues d'origine marine.* **10/03/2020** à Laval.

Thèse co-dirigée par Lionel Ulmann (EA2160, Univ Le Mans) et Eric Le Ferrec (UMR INSERMU1085, IRSET, Univ Rennes 1).

@ **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** à Lille.

Thèse dirigée par Florence Pinet (Université de Lille)

## HDR Defense

@ **Romaric LACROIX**: "*Rôle des microvésicules dans l'hémostase: nouveaux concepts et applications*". **13/02/2020, 14h**, Université Aix-Marseille, Faculté de Pharmacie, La Timone, Marseille.

## HONORS

@ **Bronze Medal CNRS 2020: Vincent Hyenne (FSEV Board member)** (Institut d'hématologie et d'Immunologie, Strasbourg) for his work on EVs, in particular the role of Ral GTPases in EV secretion and metastatic progression, and the development of innovative approaches including in vivo tracking of extracellular vesicles and imaging by correlative light-electron microscopy.

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## 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](mailto: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](mailto:Julie.gavard@inserm.fr)).

@ **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 two references to Guillaume van Niel ([guillaume.van-niel@inserm.fr](mailto: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 "*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**. Contact for further information: [lydie.sparfel@univ-rennes1.fr](mailto:lydie.sparfel@univ-rennes1.fr)

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](mailto:lydie.sparfel@univ-rennes1.fr)) before **01/06/2020**.

@ **Post-doctoral positions available in** the Cocucci Lab at The Ohio State University, College of Pharmacy, USA, to study basic mechanisms of membrane trafficking to decipher the mechanism of signaling of cancer cells and their interaction with the tumor microenvironment. The fellow will work closely with Dr. Cocucci to develop and apply cell biology approaches, based on gene editing, revolutionary imaging technology,

including lattice light sheet microscopy, and computational tools, to quantitatively analyze the obtained data.

Application instructions: email a cover letter describing your past research accomplishments and future research interests, curriculum vitae, and contact information of three references to Dr. Emanuele Cocucci ([cocucci.1@osu.edu](mailto:cocucci.1@osu.edu)).

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## 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](https://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](mailto:wilfrid.boireau@femto-st.fr)) and Dr. Yu-Jui Fan ([ray.yj.fan@tmu.edu.tw](mailto:ray.yj.fan@tmu.edu.tw))

### **@ Stem cells**

-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*. 2020 Feb;231:119675. doi:10.1016/j.biomaterials.2019.119675. Epub 2019 Dec 7. PubMed PMID: 31838346

-Dal Collo G, Adamo A, Gatti A, Tamellini E, Bazzoni R, Takam Kanga P, Tecchio C, Quaglia FM, Krampera M. Functional dosing of mesenchymal stromal cell-derived extracellular vesicles for the prevention of acute graft-versus-host-disease. *Stem Cells*. 2020 Feb 17. doi: 10.1002/stem.3160. [Epub ahead of print] PubMed PMID: 32064745.

-Meunier M, Guttin A, Ancelet S, Laurin D, Zannoni J, Lefebvre C, Tondeur S, Persoons V, Pezet M, Pernet-Gallay K, Chuffart F, Rousseaux S, Testard Q, Thevenon J, Jouzier C, Deleuze JF, Laulagnier K, Sadoul R, Chatellard C, Hainaut P, Polack B, Cahn JY, Issartel JP, Park S. Extracellular vesicles from myelodysplastic mesenchymal stromal cells induce DNA damage and mutagenesis of hematopoietic stem cells through miRNA transfer. *Leukemia*. 2020 Feb 12. doi: 10.1038/s41375-020-0738-8. [Epub ahead of print] PubMed PMID: 32051530.

### **@ Cardiovascular diseases**

-Harane NE, Correa BL, Gomez I, Hocine HR, Vilar J, Desgres M, Bellamy V, Keirththana K, Guillas C, Perotto M, Pidial L, Alayrac P, Tran T, Tan S, Hamada T, Charron D, Brisson A, Renault NK, Al-Daccak R, Menasché P, Silvestre JS. Extracellular Vesicles from Human Cardiovascular Progenitors Trigger a Reparative Immune Response in Infarcted Hearts. *Cardiovasc Res*. 2020 Feb 12. pii: cvaa028. doi: 10.1093/cvr/cvaa028. [Epub ahead of print] PubMed PMID: 32049348.

### **@ Reproduction**

-Bauersachs S, Mermillod P, Almiñana C. The Oviductal Extracellular Vesicles' RNA Cargo Regulates the Bovine Embryonic Transcriptome. *Int J Mol Sci*. 2020 Feb 14;21(4). pii: E1303. doi: 10.3390/ijms21041303. PubMed PMID: 32075098.

### **@ Microparticles**

-Veschi EA, Bolean M, Strzelecka-Kiliszek A, Bandorowicz-Pikula J, Pikula S, Granjon T, Mebarek S, Magne D, Ramos AP, Rosato N, Millán JL, Buchet R, Bottini M, Ciancaglini P. Localization of Annexin A6 in Matrix Vesicles During Physiological Mineralization. *Int J Mol Sci*. 2020 Feb 18;21(4). pii: E1367. doi: 10.3390/ijms21041367. PubMed PMID: 32085611.

### **@ 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*. 2020 Feb;8(2):255-267. doi: 10.1158/2326-6066.CIR-19-0522. Epub 2019 Dec 19. PubMed PMID: 31857348.

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

- Shijie Wang, Kaela Kelly, Nathalie Schussler, Sylviane Boularand, Laurent Dubois, Frank Hsieh, Elizabeth Tengstrand, Jonathan M. Brotchie, James B. Koprach, Andrew B. West . Predictive Markers of LRRK2 Inhibition in Biofluids. doi: <https://doi.org/10.1101/2020.01.28.923557>

- M. Sandonà, S. Consalvi, L. Tucciarone, M. De Bardi, M. Scimeca, D. Angelini, V. Buffa, A. D'Amico, E. Bertini, S. Cazzaniga, P. Bettica, M. Bouché, A. Bongiovanni, P.L. Puri, V. Saccone. Pharmacological tuning of microRNAs in FAP-derived Extracellular Vesicles by HDAC inhibitors promotes regeneration and reduces fibrosis in dystrophic muscles

bioRxiv 2020.02.15.947325; doi: <https://doi.org/10.1101/2020.02.15.947325>

- Luca Peruzzotti-Jametti, Joshua D. Bernstock, Giulia Manferrari, Rebecca Rogall, Erika Fernandez-Vizarra, James C Williamson, Alice Braga, Aletta van den Bosch, Tommaso Leonardi, Ágnes Kittel, Cristiane Benincá, Nunzio Vicario, Sisareuth Tan, Carlos Bastos, Iacopo Bicci, Nunzio Iraci, Jayden A. Smith, Paul J Lehner, Edit Iren Buzas, Nuno Faria, Massimo Zeviani, Christian Frezza, Alain Brisson, Nicholas J Matheson, Carlo Viscomi, Stefano Pluchino. Neural stem cells traffic functional mitochondria via extracellular vesicles to correct mitochondrial dysfunction in target cells.

bioRxiv 2020.01.29.923441; doi: <https://doi.org/10.1101/2020.01.29.923441>

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