



February 2019

NEWS FROM FSEV SOCIETY:

@ FSEV is now on twitter [@French_Soc_EVs](#) ! Twitter users, don't hesitate to follow us and retweet!

@ This newsletter, created to promote spreading of information on EVs, is yours! Do not hesitate to **send any information you wish to see there to admin@fsev.fr** (examples: invited EV speakers or PhD defences in your Institute, meetings/workshop you are organising on EVs, your recently published article(s) on EV, prizes obtained for EV work, job openings and requests for collaborations).

FSEV EVENTS:

@ FSEV-2019: ENSA, Nantes, France, October 14-15th, 2019.
Registration and abstract submission opened on January 15th
Deadline abstract and early registration: 15/06/2019.
<https://symposium.inra.fr/fsev2019>.

OTHER EV EVENTS:

@ ISEV mini workshop of "*EV targeting to specific cells/tissues*". Philadelphia, USA, **27/02/2019**. Very few seats available and webcast attendance probably complete, but recordings will be available on ISEV website after the workshop.
<https://www.isev.org/events/EventDetails.aspx?id=1181190&group=>

@ EMBO Workshop, Le Pouliguen, France, **May 12-16 2019**.
Caveolae and nanodomains: translating structural principles and dynamics into function.
Several EV presentations likely. Many travel grants available. Poster and oral communications awards.
<http://meetings.embo.org/event/19-caveolae/>.
Deadline for abstract and registration 15/03/2019.

@ Club exo-endo, Mandelieu-la-Napoule, France, **03-06/04/2019**.
Membrane biophysics of Exo-Endocytosis: from model systems to cells.
Several EV presentations likely.
<http://biophee-19.fr/>.

@ ISEV-2019: Kyoto, Japan, **24-28/04/2019**. www.isev.org.
8th Annual Meeting of International Society for EVs (ISEV).
www.isev.org/page/ISEV2019Reg

see list of abstracts submitted by French laboratories at the end of this letter

@ Neurofrance 2019 (Société des Neurosciences), Marseille, France, **22-24/05/2019**.
Symposium "*Exocytosis and extracellular vesicle signalling in brain development, maintenance and diseases*" 23/05/2019.
<https://www.neurosciences.asso.fr/V2/colloques/SN19/>.

@ Invited speaker in France:

Dr Carlos Salomon (UQ Center for Clinical Diagnostics, Brisbane, Australia). invited by C. Théry (clotilde.thery@curie.fr), *Extracellular vesicles in Obstetrics and Gynaecology: focus on pregnancy complications and ovarian cancer*. **11/03/2019**, 11h00. Institut Curie, Salle Lacassagne (Bâtiment Trouillet Rossignol), 26 rue d'Ulm, 75005 Paris.

JOB OPPORTUNITIES:

@ CRCN permanent position at INRA (2019 application): team GALAC (F. Le Provost), UMR GABI (Jouy-en-Josas, France).
Mammary gland and milk extracellular vesicles: vehicles of genetic information.
Full adv available at www.fsev.fr/jobs.html.
Contact: fabienne.le-provost@inra.fr
Deadline for application 04/03/2019.

@ ATER (10/2019) followed by Maître de Conférence (10/2020) permanent position at University Aix-Marseille: team "Circulating microparticles on hemostasis, inflammation and senescence" (R. Lacroix/F. Dignat-George), Center for Cardiovascular Research and Nutrition (Marseille, France).
Mechanism by which senescence impairs the balance between EC injury and repair and modifies the shedding of extracellular vesicles (EV)
Full adv available at www.fsev.fr/jobs.html.
Contact: francoise.dignat-george@univ-amu.fr
Application opening-closing on DEMETER: 18/03-12/04/2019.

@ Post-doc starting in 2019: team of R Gaudin, Montpellier, France.
Characterization of a new subpopulation of EVs: ART-EVs.
Full adv available at www.fsev.fr/jobs.html.
Contact: raphael.gaudin@irim.cnrs.fr

@ 2 Post-docs starting in 2019: teams of P Zimmermann (Marseille) and of E Rubinstein (Paris), in collaboration with team C Théry (Paris).
Mechanisms controlling the molecular and functional heterogeneity of Extracellular Vesicles.
Full adv available at www.fsev.fr/jobs.html.
Contact: eric.rubinstein@inserm.fr; pascale.zimmermann@inserm.fr

@ IE, CDD 1 an starting **01/04/2019**. Joined project between laboratories SOPAM (INSERM/UA) and BIA (INRA) in Nantes, Angers and Rennes.

Optimisation de la production d'exosomes chargés en polyphénols.

Full adv available at www.fsev.fr/jobs.html.

Contact: ramaroson.andriantsitohaina@univ-angers.fr; marie-helene.ropers@inra.fr; sebastien.marze@inra.fr

COLLABORATIONS and/or INSTRUMENT ACCESS and/or ADVICE requests

RECENT EV publications (from FSEV members)

@ Articles from the french FSEV community

Verweij FJ, Revenu C, Arras G, Dingli F, Loew D, Pegtel DM, Follain G, Allio G, Goetz JG, Zimmermann P, Herbomel P, Del Bene F, Raposo G, van Niel G. *Live tracking of inter-organ communication by endogenous exosomes in vivo*. **Dev Cell.** **2019** Feb 25;48(4):573-589.e4. doi: 10.1016/j.devcel.2019.01.004. Epub **2019** Feb 7. PMID: 30745143

Hyenne V, Ghoroghi S, Collot M, Bons J, Follain G, Harlepp S, Mary B, Bauer J, Mercier L, Busnelli I, Lefebvre O, Fekonja N, Garcia-Leon MJ, Machado P, Delalande F, López AA, Silva SG, Verweij FJ, van Niel G, Djouad F, Peinado H, Carapito C, Klymchenko AS, Goetz JG. *Studying the fate of Tumor extracellular vesicles at high spatio-temporal resolution using the zebrafish embryo*. **Dev Cell.** **2019** Feb 25;48(4):554-572.e7. doi: 10.1016/j.devcel.2019.01.014. Epub **2019** Feb 7. PMID: 30745140

Millard M, Yakavets I, Piffoux M, Brun A, Gazeau F, Guigner JM, Jasniewski J, Lassalle HP, Wilhelm C, Bezdetnaya L. *mTHPC-loaded extracellular vesicles outperform liposomal and free mTHPC formulations by an increased stability, drug delivery efficiency and cytotoxic effect in tridimensional model of tumors*. **Drug Deliv.** **2018** Nov;25(1):1790-1801. doi: 10.1080/10717544.2018.1513609. PubMed PMID: 30785308; PubMed Central PMCID: PMC6292368.

Lehuédé C, Li X, Dauvillier S, Vaysse C, Franchet C, Clement E, Esteve D, Longué M, Chaltiel L, Le Gonidec S, Lazar I, Geneste A, Dumontet C, Valet P, Nieto L, Fallone F, Muller C. *Adipocytes promote breast cancer resistance to chemotherapy, a process amplified by obesity: role of the major vault protein (MVP)*. **Breast Cancer Res.** **2019** Jan 17;21(1):7. doi: 10.1186/s13058-018-1088-6. PubMed PMID: 30654824; PubMed Central PMCID: PMC6337862.

Reviews:

Rome S. *Biological properties of plant-derived extracellular vesicles*. **Food&Funct.** **2019** Feb 20;10(2):529- 538. doi: 10.1039/c8fo02295j. Review. PubMed PMID: 30724295.

Bellin G, Gardin C, Ferroni L, Chachques JC, Rogante M, Mitrečić D, Ferrari R, Zavan B. *Exosome in Cardiovascular Diseases: A Complex World Full of Hope*. **Cells.** **2019** Feb 17;8(2). pii: E166. doi: 10.3390/cells8020166. Review. PubMed PMID: 30781555.

@ Abstracts of French laboratories presented at ISEV-2019 Kyoto

If you want *your abstract or late-breaking abstract* listed in the next FSEV newsletter, PLEASE SEND US all info about your abstract at events@fsev.fr (title of message: abstract ISEV2019)

Oral:

Alain R Brisson ... Stéphane Mornet, Univ Bordeaux UMR-5248-CBMN, Bordeaux.

Search for EV signature in Sickle Cell Disease.

A Khat ... CM Boulanger, O Blanc-Brude. PaRCC, INSERM UMRs970, Paris.

An explanation for 'PS-negative' extracellular vesicles: endogenous annexin-A5 from the cytosol cover externalized phosphatidylserine on plasma membranes.

Mathilde Mathieu ... Clotilde Théry, Institut Curie, INSERM U932, Paris.

Linking the trafficking of CD63 and CD9 to their secretion mechanisms into EVs.

Roberta Palmulli ... Graça Raposo, Guillaume van Niel, Institut Curie CNRS UMR144 and IPNP, Paris.

Interdependency of the multiple endosomal sorting mechanisms influencing exosomes biogenesis.

Poster:

Francesca Farina .. Christian Nérij, IBPS, CNRS UMR 8256, Paris.

Bioinformatic and biochemical evidence for EV remodelling in Huntington's disease.

Philippe Mauduit, ... Georges Uzan*, INSERM UMR-MD-1197, Hopital Paul-Brousse, Villejuif.

Production and use of extracellular vesicles-depleted human platelet lysate to improve large, clinical grade-compatible production of therapeutic human cell-derived extracellular vesicles

Marie Maumus .. Danièle Noël, IRMB, University Montpellier, Hôpital Lapeyronie, Clinical immunology and osteoarticular diseases Therapeutic Unit, Montpellier, France. *Differential expression of lncRNA in extracellular vesicles from mesenchymal stem cells*

Stephane MAZLAN^{a,b}, ... Xavier LOYER^{a,b}, Chantal M. BOULANGER^{a,b}. ^aPARCC - INSERM U970, ^bParis Descartes University, USPC, UMR-S970, Paris, France.

Extracellular Vesicles in Post-Infarction Diabetic Hearts

Balasubramaniam Namasivayam¹, Liling Delila², Yu-Wen Wu², Annie Frelet-Barrand¹, Thierry Burnouf², Céline Elie-Caille¹, Wilfrid Boireau¹. ¹FEMTO-ST Institute, UMR6174 CNRS Besançon. ²College of Biomedical Engineering, Taipei Medical University, Taipei, Taiwan.

The Nanobioanalytical Platform, a tuneable tool for a sensitive detection & characterization of extracellular vesicles subsets from biological samples

Lyne Pillemont¹, Daniel Guneyasu², Celine Elie-Caille², Wilfrid Boireau² and Anne-Marie Gué^{1*}.

¹LAAS-CNRS, Toulouse, ²FEMTO-ST Institute, UMR6174 CNRS Besançon. *TOWARDS ON-CHIP EVs SEPARATION: A LAB ON CHIP APPROACH*

@ For any request or information, contact us at: admin@fsev.fr

