



December 2018

NEWS FROM FSEV SOCIETY:

@ Société Française des Vésicules Extracellulaires – FSEV is looking for **volunteers to create and animate FSEV social networks (facebook, twitter...)** in French and/or english: please contact admin@fsev.fr if you are interested.

@ FSEV is exploring the idea to make available **a listing of French laboratories working on EVs**, with their specific expertise on the website. If **you DO NOT want** to be included in such listing, write to admin@fsev.fr

FSEV EVENTS:

@ FSEV-2019: ENSA, Nantes, France, October 14-15th, 2019. **Save the date!** <https://symposium.inra.fr/fsev2019>. **Registration will open early 2019.**

@ Grand-Ouest EV (GO-EV): 5th meeting, Nantes 08/02/2019. **Organizer:** steffi.bosch@oniris.fr

OTHER EV EVENTS:

@ 4ème édition Colloque Innovations Biotechnologiques, "De la nanobiologie aux nanotechnologies"; **24/01/2019**, Paris (+ visioconférence in multiple french cities). <https://its.aviesan.fr/index.php?pagendx=1128>.

@ New York Academy of Science Meeting on "EVs in Diagnostics and Therapeutics". New York, USA, **19/02/2019**. **Abstract deadline December 11 2018**. Registration at nyas.org/EV2019.

@ ISEV-2019: Kyoto, Japan, **April 24-28th, 2019**. www.isev.org. **Deadline for early rate registration 31/01/2019** www.isev.org/page/ISEV2019Reg

JOB OPPORTUNITIES:

@ CarMeN laboratory (UMR INSERM 1060/INRA 1397, LYON) is seeking for researchers with permanent position to join the team "Muscle mass and organ cross-talks" to work on muscle release EVs (PI, Sophie ROME, DR2)
Contact : Sophie ROME (sophie.rome@univ-lyon1.fr)
CarMeN Laboratory: <http://carmen.univ-lyon1.fr>

@ Post-doc 3 years starting march 1st 2019: team of C. Neri, Paris, France.
Biology of EVs in Huntington's disease. Institut Biologie Paris Seine.

Full adv available at: www.fsev.fr/jobs.html. Contact: christian.neri@inserm.fr

@ 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).

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

COLLABORATIONS and/or INSTRUMENT ACCESS and/or ADVICE requests

Recent Reviews from FSEV' members published in 2018:

@ Cardio-Metabolism/physical activity:

Piffoux M, Nicolás-Boluda A, Mulens-Arias V, Richard S, Rahmi G, Gazeau F, Wilhelm C, Silva AKA. Extracellular vesicles for personalized medicine: The input of physically triggered production, loading and theranostic properties. *Adv Drug Deliv Rev.* 2018 Dec 13. pii: S0169-409X(18)30313-2. doi: 10.1016/j.addr.2018.12.009. [Epub ahead of print] Review. PubMed PMID: 30553953.

Le Lay S, Martinez MC, Andriantsitohaina R. [Extracellular vesicles as biomarkers and bioeffectors of metabolic syndrome]. *Med Sci (Paris).* 2018 Nov;34(11):936-943. doi: 10.1051/medsci/2018239. Epub 2018 Dec 10. French. PubMed PMID: 30526838.

Beuzelin D, Kaeffer B. Exosomes and miRNA-Loaded Biomimetic Nanovehicles, a Focus on Their Potentials Preventing Type-2 Diabetes Linked to Metabolic Syndrome. *Front Immunol.* 2018 Nov 21; 9:2711. doi: 10.3389/fimmu.2018.02711. eCollection 2018. Review. PubMed PMID: 30519245; PubMed Central PMCID: PMC6258775.

Amosse J, Martinez MC, Le Lay S. Extracellular vesicles and cardiovascular disease therapy. *Stem Cell Investig.* 2017 Dec 30;4:102. doi: 10.21037/sci.2017.11.07. eCollection 2017. Review. PubMed PMID: 29359141; PubMed Central PMCID: PMC5763004.

Sluijter JPG, Davidson SM, Boulanger CM, Buzás EI, de Kleijn DPV, Engel FB, Giricz Z, Hausenloy DJ, Kishore R, Lecour S, Leor J, Madonna R, Perrino C, Prunier F, Sahoo S, Schiffelers RM, Schulz R, Van Laake LW, Ytrehus K, Ferdinandy P. Extracellular vesicles in diagnostics and therapy of the ischaemic heart: Position Paper from the Working Group on Cellular Biology of the Heart of the European Society of Cardiology. *Cardiovasc Res.* 2018 Jan 1;114(1):19-34. doi: 10.1093/cvr/cvx211. PubMed PMID: 29106545; PubMed Central PMCID: PMC5852624.

@ Cancer:

Vlaeminck-Guillem V. Extracellular Vesicles in Prostate Cancer Carcinogenesis, Diagnosis, and Management. *Front Oncol.* 2018 Jun 13;8:222. doi: 10.3389/fonc.2018.00222. eCollection 2018. Review. PubMed PMID: 29951375; PubMed Central PMCID: PMC6008571.

Lazar I, Clement E, Attane C, Muller C, Nieto L. A new role for extracellular vesicles: how small vesicles can feed tumors' big appetite. *J Lipid Res.* 2018 Oct;59(10):1793-1804. doi: 10.1194/jlr.R083725. Epub 2018 Apr 20. PubMed PMID: 29678957; PubMed Central PMCID: PMC6168303.

@ General scope:

Gill S, Catchpole R, Forterre P. Extracellular membrane vesicles (EVs) in the three domains of life and beyond. *FEMS Microbiol Rev.* 2018 Nov 21. doi: 10.1093/femsre/fuy042. [Epub ahead of print] PubMed PMID: 30476045.

Stahl PD, Raposo G. Exosomes and extracellular vesicles: the path forward. *Essays Biochem.* 2018 May 15;62(2):119-124. doi: 10.1042/EBC20170088. Print 2018 May 15. Review. PubMed PMID: 29765006.

Palmulli R, van Niel G. To be or not to be... secreted as exosomes, a balance finely tuned by the mechanisms of biogenesis. *Essays Biochem.* 2018 May 15;62(2):177-191. doi: 10.1042/EBC20170076. Print 2018 May 15. Review. PubMed PMID: 29717057.

Mallocci M, Perdomo L, Veerasamy M, Andriantsitohaina R, Simard G, Martínez MC. Extracellular Vesicles: Mechanisms in Human Health and Disease. *Antioxid Redox Signal.* 2018 Apr 30. doi: 10.1089/ars.2017.7265. [Epub ahead of print] PubMed PMID: 29634347.

Van Niel G, D'Angelo G, Raposo G. Shedding light on the cell biology of extracellular vesicles. *Nat Rev Mol Cell Biol.* 2018 Apr;19(4):213-228. doi: 10.1038/nrm.2017.125. Epub 2018 Jan 17. Review. PubMed PMID: 29339798.

Tkach M, Kowal J, Théry C. Why the need and how to approach the functional diversity of extracellular vesicles. *Philos Trans R Soc Lond B Biol Sci.* 2018 Jan 5;373(1737). pii: 20160479. doi: 10.1098/rstb.2016.0479. Review. PubMed PMID: 29158309; PubMed Central PMCID: PMC5717434.

@ Lipids:

Egea-Jimenez AL, Zimmermann P. Phospholipase D and phosphatidic acid in the biogenesis and cargo loading of extracellular vesicles. *J Lipid Res.* 2018 Sep;59(9):1554-1560. doi: 10.1194/jlr.R083964. Epub 2018 May 31. PubMed PMID: 29853529; PubMed Central PMCID: PMC6121939.

Record M, Silvente-Poirot S, Poirot M, Wakelam MJO. Extracellular vesicles: lipids as key components of their biogenesis and functions. *J Lipid Res.* 2018 Aug;59(8):1316-1324. doi: 10.1194/jlr.E086173. Epub 2018 May 15. PubMed PMID: 29764923; PubMed Central PMCID: PMC6071772.

Record M. Introduction to the Thematic Review Series on Extracellular Vesicles: a focus on the role of lipids. *J Lipid Res.* 2018 Aug;59(8):1313-1315. doi: 10.1194/jlr.E086132. Epub 2018 May 15. PubMed PMID: 29764922; PubMed Central PMCID: PMC6071774.

Pfrieiger FW, Vitale N. Cholesterol and the journey of extracellular vesicles. *J Lipid Res.* 2018 Dec;59(12):2255-2261. doi: 10.1194/jlr.R084210. Epub 2018 Apr 20. PubMed PMID: 29678958; PubMed Central PMCID: PMC6277151.

@ Virology/prion

Vilette D, Courte J, Peyrin JM, Coudert L, Schaeffer L, Andréoletti O, Leblanc P. Cellular mechanisms responsible for cell-to-cell spreading of prions. *Cell Mol Life Sci.* 2018 May 14. doi: 10.1007/s00018-018-2823-y. [Epub ahead of print] Review. Erratum in: *Cell Mol Life Sci.* 2018 Jul;75(14):2575. PubMed PMID: 29761205.

@ Nutrition

Soleti R, Andriantsitohaina R, Martinez MC. Impact of polyphenols on extracellular vesicle levels and effects and their properties as tools for drug delivery for nutrition and health. *Arch Biochem Biophys.* 2018 Apr 15; 644:57-63. doi: 10.1016/j.abb.2018.03.004. Epub 2018 Mar 5. Review. PubMed PMID: 29518372.

@ Infectiology

Debs S, Cohen A, Hosseini-Beheshti E, Chimini G, Hunt NH, Grau GER. Interplay of extracellular vesicles and other players in cerebral malaria pathogenesis. *Biochim Biophys Acta Gen Subj.* 2018 Oct 17;1863(2):325-331. doi: 10.1016/j.bbagen.2018.10.012. [Epub ahead of print] Review. PubMed PMID: 30339917.

Carrière J, Barnich N, Nguyen HT. Exosomes: From Functions in Host-Pathogen Interactions and Immunity to Diagnostic and Therapeutic Opportunities. *Rev Physiol Biochem Pharmacol.* 2016; 172:39-75. Review. PubMed PMID: 27600934.

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

