



*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)***

**March 2022**

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Dear FSEVer,

ISEV is coming ! The FSEV has offered three scholarships to cover the registration fees of three young researchers who were selected for a talk or a poster at the ISEV 2022. We are pleased to announce you the selected applicants:

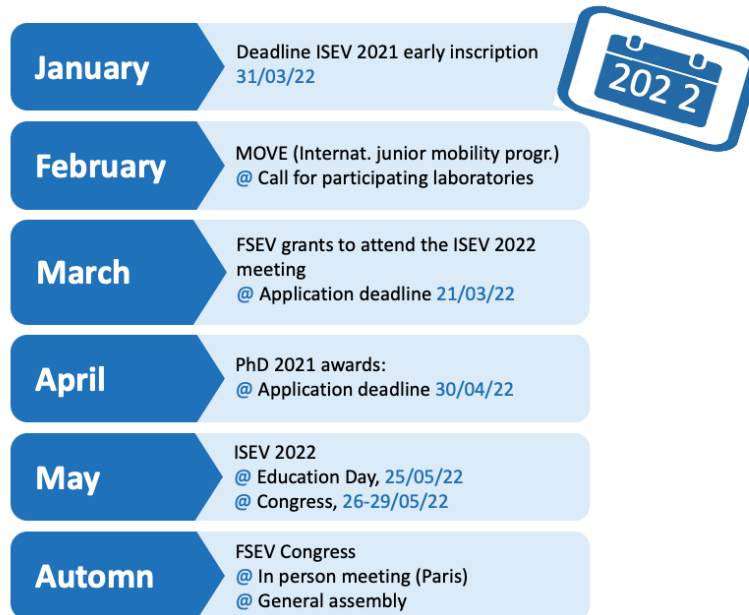
- **Benjamin Mary** (Biomécanique des tumeurs ( Tumor biomechanics), Inserm UMRS1109, Strasbourg)
- **Amandine Bonifay** (AMU PHARM - Aix-Marseille Université - Faculté de pharmacie)
- **Mickaël Couty** (Dynamique endosomale, IPNP, INSERM U1266, Paris)

The FSEV board is also setting up the next national meeting that will be held in Paris on the 19-21 october. This year, the FSEV will associate the AFC (Association Française de Cytométrie) to the events and a full afternoon will be dedicated to the use of flow cytometry in the EV field. We hope to see you all there !

Best regards,  
The FSEV board

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**@ Browse EV FUTURE EVENTS AT A GLANCE**




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## NEWS FROM FSEV SOCIETY:

@ FSEV needs YOU ! Help is wanted to **join FSEV communication team**. The new FSEV board members invite you to take an active part in our society by improving its visibility and its network. If you're willing to contribute to the FSEV website or any social media, please do not hesitate to send your application to the following address: [calls@fsev.fr](mailto:calls@fsev.fr)

### @ MOVE European Mobility Fellowships 2022

EV societies across Europe has got together to form **MOVE (MObility for Vesicles research in Europe)** and their 1<sup>st</sup> project is to give early stage scientists the opportunity to work in a different European lab.

**MOVE European Mobility Fellowship** aims to foster collaboration between the members of different European EV Societies and Networks. The Fellowship will enable Early Career Researchers (the applicants) to travel to another lab in Europe (the hosts) to develop both their technical skills and enlarge their own professional networks.

The Fellowship is intended for technicians, PhD students and early-stage postdoctoral researchers ( $\leq 5$  years, excluding career breaks). There may be some exceptions. This will be at the discretion of the UKEV Panel. As a prerequisite, applicants will need to be members of UKEV and the head of the hosting lab will be a current member of the National EV Society or Network of the host nation.

The Fellowship will cover travel and subsistence (but not bench fees) to work within a host lab at an academic institution in a different European country for 1-3 months, to a maximum value of €2000/£2000.

Process: <https://www.ukev.org.uk/move-mobility-ev-europe/>

- Contact your local National EV Society/Network to see if they are part of the scheme and you are eligible to apply
- Look up host labs registered with the project on:

<https://docs.google.com/spreadsheets/d/19y7JppcAJLyTlaV21A5YCpyAfhtivkUh/edit?usp=sharing&oid=106664164426554744978&rtpof=true&sd=true>

- Contact the host lab directly to discuss your proposed project
- Apply for the placement through the specific forms and process of your society

This is a rolling application and different societies will have different times to apply and rules, so contact them directly from the list below.

#### @ Call for FSEV PhD award 2021

The FSEV will offer 500€ awards for PhD theses defended in France in 2021 with outstanding contributions in the field of EVs

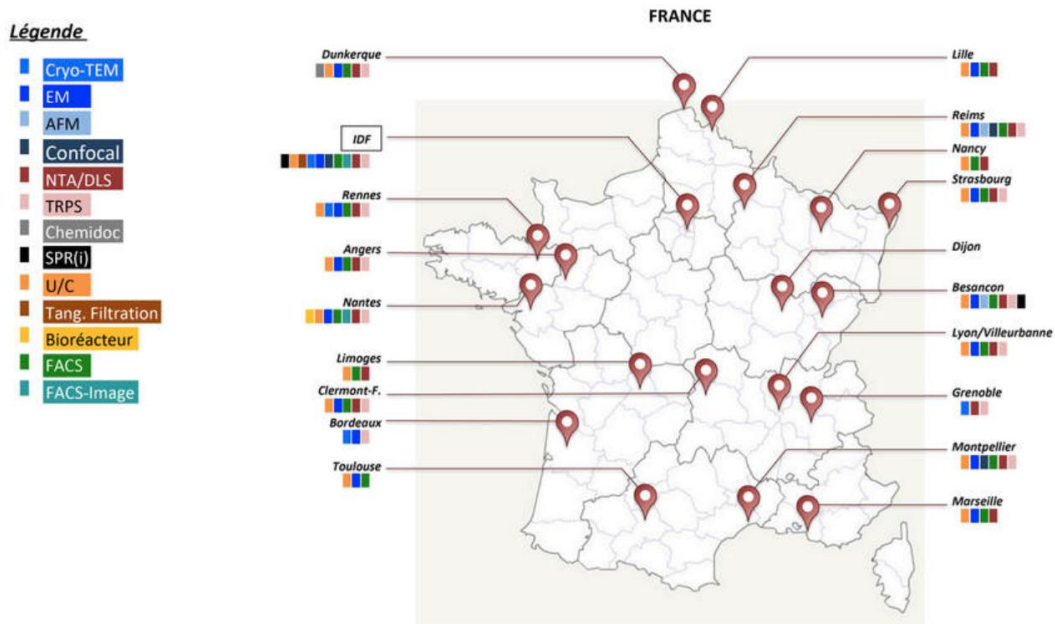
To apply, please send a single pdf file including your CV, a summary of the work using a graphical abstract, a short motivation letter ( $\leq 1$  page), the reports of the PhD defense to [calls@fsev.fr](mailto:calls@fsev.fr)

Deadline for application: **30/04/2022**

#### @ Map of French Laboratories' equipment of use for EVs: an update!

To keep on helping researchers, we wish to update our map of the French EV pieces of equipment that are available by region. Please send an e-mail to [olivier.blancbrude@inserm.fr](mailto:olivier.blancbrude@inserm.fr) to implement this map if you have been forgotten.

The current map can be found here: <https://www.fsev.fr/fsev-labs-equipments.html>



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

@ ISEV 2022 annual meeting in Lyon, **25-29 May**. This event is **co-organized by FSEV!**

Registration is now available. For more information please see: <https://www.eventscribe.net/2022/ISEV2022/>

@ Upcoming ISEV activities open only to ISEV members, for which ISEV will communicate in early 2022 include:

- Participation in the **MISEV2018 update**

@ **Extracellular Vesicle Club**, virtual, weekly on **Wednesdays (generally 6pm)**

Organized by **Ken Witwer**, ISEV Chair of Science and Meetings, Johns Hopkins Med U, Bethesda, USA.

You can sign up for the email list to receive the weekly program and link at: <https://www.surveymonkey.com/r/L25KDWB> or subscribe to the YouTube Channel for past events <https://www.youtube.com/c/ExtracellularVesicleClub>

You can also submit suggestions of topics for a future EVClub: <https://www.surveymonkey.com/r/DC5MY9X>

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## OTHER EV EVENTS:

### Honors

@ **First prize** from "**Centre Géoscientifique du Québec**" to **Harriet Middleton** (CNRS-UMR 6553/OSUR, Ecosystems - Biodiversity - Evolution, Rennes; team: project MicroRNA-Holobionte, PI: Abdelhak El Amrani) for among other studies, her work on microRNAs conveyed by EVs as key mediators of plant-microbe interactions. This award highlighted the remarkable partnership and collaborative work at the level of INRS (National Scientific Research Institutes) in Canada.

### Network announcement

@ **SudEV: South Extracellular Vesicle Network creation proposition**

Several regions are engaged into a scientific animation around EV research. Along these lines, we believe it is essential to structure these activities in the **Grand Sud** (the perimeter remains to be discussed, but the idea would be to integrate the **Occitanie and PACA regions**). In the context of a trans-regional and multidisciplinary approach, this network could become a regional relay representative of the FSEV activities, could make it possible to build a scientific animation on EV research, and possibly to mutualize expertise and knowledge to encourage and/or reinforce collaborations across regions.

The first step is to identify people interested in getting involved in this project, and particularly those who would be interested in participating actively in the steering committee.

1. If you are working on EVs in PACA or Occitanie region and if you're interested to be part of this future network, please fill in this [online table](#) (or following the link at the end of this email) to make a survey, and **do not hesitate to spread around you!**
2. If you are motivated to invest in the creation of this network and to be part of the **steering committee**, please send an email to [marie.morille@umontpellier.fr](mailto:marie.morille@umontpellier.fr)

<https://docs.google.com/spreadsheets/d/1Qr0IOelR9EouG0vph7EqQ74cFSVB8Umj3WCW0EzYaSI/edit?usp=sharing>

@ **EVN: East Extracellular Vesicle Network**

Creation of the French Eastern network on Extracellular Vesicles (EVN board: **Jessica GOBBO**, CGFL, Inserm U1231, Dijon; **Céline ELIE-CAILLE** - CNRS UMR 6174, Institut FEMTO-ST, Besançon; **Pascal COLOSETTI** - UMR Inserm U1060/INRAe 1397-CarMeN, ESSEV, Lyon).

The originality of this network is to cover the domains from pre-anALytical and EV qualifiCation to the cLINic (ALCALIN) and to be open to all researchers, engineers, technicians, students, from academic or industrial. This initiative aims to propose a methodological and technological solution to a problem that has arisen from numerous discussions within the community, sometimes highlighting incompatibilities, inconsistencies, or technological and analytical inefficiencies, encountered in the analysis of the secretome/vesiculome in certain complex biological fluids (whole blood, plasma/serum, urine, ...).

For more information, please see the web page on the Cancéropôle-Est website: <https://www.canceropole-est.org/la-recherche/la-recherche-au-sein-du-canceropole-est/reseau-biopsies-liquides/reseau-east>

### Virtual events, Conferences and Courses

**@ Seminar “Basic lessons and therapeutic applications of live imaging of extracellular vesicles in vivo”, April 07, 2022.**

CRCI2NA, Nantes IRS Amphitheater and zoom (login 841 4842 6718, password 000785).

FSEV member Speaker: Guillaume van Niel

**@ 28<sup>th</sup> Porto Cancer Meeting “Extracellular Vesicles, Cell Communication and Cancer”,** in-person & online, **May 12-13, 2022.** Meeting held at i3S – Institute for Research and Innovation in Health, the largest health research institute in Portugal.

For more information, please see: [https://portocancermeeting.i3s.up.pt/?page\\_id=646](https://portocancermeeting.i3s.up.pt/?page_id=646)

FSEV member Speaker: Clotilde Théry

**@ Gordon Research Conference “Lysosomes and Endocytosis”,** Physiological Adaptations of the Endo-Lysosomal System.

Rescheduled from June 19-24, 2022. Applications until **May 22, 2022.**

For more information, please follow the link: <https://www.grc.org/lysosomes-and-endocytosis-conference/2022/>

FSEV member Speaker: Guillaume van Niel and Graça Raposo

**@ Keystone symposia: “Exosomes, Microvesicles and Other Extracellular Vesicles”** Rescheduled from February 2022 to **October 30 - November 02, 2022.** Santa Fe, New Mexico, United States.

More information at: <https://www.keystonesymposia.org/conferences/conference-listing/meeting?eventid=6951>

FSEV member Organizer: Clotilde Théry

FSEV member Speaker: Chantal Boulanger, Christian Néri, Clotilde Théry, Pascale Zimmerman

**@ GERLI, Groupe d’Etude et de Recherche en Lipidomique, 17<sup>ème</sup> congrès 06-09/11/2022** (Hôtel Delcloy à Saint Jean-Cap-Ferrat) avec une session "Exotic organelles and lipid signaling". For more information, please see <https://www.gerli.com>

FSEV member Speaker: Soazig Le Lay

**@ Gordon Research Conference “Extracellular vesicles”: 24-29/07/2022,** Grand Summit Hotel, Sunday River, Newry, USA.

**Application until 26/06/2022** at <https://www.grc.org/extracellular-vesicles-conference/2022/>

**FSEV member Speakers:** Clotilde Théry, Jacky Goetz

**@ WebEVTalk:** Program to support networking in the field of Extracellular Vesicles by Carolina Soekmadji (Australia), with Jan Lötvall (Sweden) and Dolores Di Vizio (USA).

If you wish to present your work, you can send an email to Carolina Soekmadji ([Carolina.Soekmadji@qimrberghofer.edu.au](mailto:Carolina.Soekmadji@qimrberghofer.edu.au))

<https://www.facebook.com/groups/518888602152396/>

[https://www.youtube.com/channel/UCvN\\_HxVQW8MQRLrDcNfMT6w](https://www.youtube.com/channel/UCvN_HxVQW8MQRLrDcNfMT6w)

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### **JOB OPPORTUNITIES:**

for more details, please see FSEV website (<https://www.fsev.fr/jobs.html>)

*In order to keep the job offers up to date, we ask employers to indicate monthly (before the last week of the current month), whether the offer is still open.*

*If no update information is provided, the announcement will be deleted from this section.*

*Thank you for your understanding!*

**@ Call to hire junior and/or senior group leaders** in Infection – Inflammation – Immunology at Institute for Infectious and Inflammatory Diseases of Toulouse (Infinity), France (<https://www.infinity.inserm.fr/en/>). The institute is seeking up to two outstanding group leaders at the junior and/or senior level. All projects in line with Infinity's research axes are welcome.

Junior candidates should be eligible for start-up programs such as ERC Starting/Consolidator Grant, ATIP-Avenir, or equivalent. Support will be provided to obtain research funding, which will be a prerequisite for joining Infinity as a group leader. Depending on the amount of secured funding, the selected candidate(s) will be allocated additional resources to facilitate integration.

Application deadline: **May 31<sup>st</sup> 2022**. Applications in English should include a CV (2 pages), a short description of achievements and records of self-financing (2 pages), a research project (3 pages) plus the names and contact information of 3 referees. Application material should be sent as a single pdf to [call2022.infinity@inserm.fr](mailto:call2022.infinity@inserm.fr)

Short-listed candidates will be invited for an on-site visit and interview in **Sept/Oct 2022**.

Please see job posting at the following link: [https://www.infinity.inserm.fr/wp-content/uploads/2022/02/FINAL\\_call\\_new\\_team\\_Infinity\\_2022.pdf](https://www.infinity.inserm.fr/wp-content/uploads/2022/02/FINAL_call_new_team_Infinity_2022.pdf)

Twitter: <https://twitter.com/academpositions/status/1498266865453387782>

**@ Ingénieur de recherche** en biologie à l'Ecole Nationale Vétérinaire, Agroalimentaire et de l'Alimentation Nantes-Atlantique (ONIRIS), Nantes.

**Poste disponible immédiatement.** La personne recrutée participera aux enseignements de Biologie Moléculaire à destination des étudiants vétérinaires (UE 162 BGBA, Biologie Génétique & Biotechnologies Animales) d'Oniris et sera intégrée dans le groupe « qualité » de l'unité IECM.

Au sein de l'unité de Recherche IECM (Oniris, USC1383 INRAE), dont les travaux visent à mieux comprendre les interactions entre stress, immunité et métabolisme ainsi que leurs conséquences sur la santé humaine et animale, les activités de recherche concerneront plus particulièrement l'étude du rôle des vésicules extracellulaires dans la pathogénie et pour le traitement du diabète de type 1.

Pour avoir plus d'informations sur la candidature, contacter: [julie.herve@oniris-nantes.fr](mailto:julie.herve@oniris-nantes.fr). Candidature à transmettre à l'adresse: [contact.rh@oniris-nantes.fr](mailto:contact.rh@oniris-nantes.fr)

**@ 2 research assistant positions** in molecular and cellular neurobiology at Brain-C Lab, CNRS UMR8256, Paris, France, **immediately available**.

**Position 1:** This 1-2 year research assistant (IE) position is available to characterize and stimulate cell-autonomous and non-cell-autonomous neuronal survival mechanisms in Huntington's disease. Established hands-on experience in cell biology, cellular imaging, and molecular biology is mandatory. Established experience with the differentiation and transduction of human induced pluripotent stem cells (iPSC) or with establishing and transducing mouse primary neurons, or both, will be a plus. Interested candidates should hold a Master (M2) in Cell Biology or a closely related field, obtained not more than 4 years ago, and they should have no more than a 2-year history of academic contracts

**Position 2:** This 2-year research assistant (IE) position is available to identify predictive biomarkers in human patients facing Alzheimer's disease. Established hands-on experience in state-of-art analyzes of extracellular vesicles, omics studies, and molecular biology is mandatory. This position requires a strong interest for clinical research. Interested candidates should hold a Master (M2) in Cell Biology or a closely related field, obtained not more than 4 years ago, and they should have at least 1 year of professional experience after the Master, but no more than a (i) 3-year history of biopharmaceutical contracts or (ii) 2-year history of academic contracts.

Interested candidates should apply immediately (position-number of interest, letter of motivation, full CV indicating university grades and ranking, name and email of 2 references): please send information at [christian.neri@inserm.fr](mailto:christian.neri@inserm.fr)

**@ Post-doctoral position** at the Schultz and Goetz labs in **Strasbourg**, France.

The Nanotumor consortium (<https://fr.nanotumor.fr/>) is looking for a postdoctoral fellow with background in cell biology, microscopy and cancer biology to dissect **new pathways in endosome formation and extracellular vesicle secretion in metastasis**. The selected candidate will use a combination of cell engineering, cell biology, proteomic analysis and volumetric imaging and animal experiments to probe the role of recently identified proteins. In particular, 3D electron microscopy (FIB-SEM) will be used to characterize endosomal phenotypes at nanoscale resolution.

Please send your application to [jacky.goetz@inserm.fr](mailto:jacky.goetz@inserm.fr) and [pat@igbmc.fr](mailto:pat@igbmc.fr).

More informations available here:

[https://www.fsev.fr/uploads/9/8/7/0/98705346/pdf\\_nanotumor\\_jan2022.pdf](https://www.fsev.fr/uploads/9/8/7/0/98705346/pdf_nanotumor_jan2022.pdf)

**@ 1-year Post-doctoral position** with possibility of extension at IECM, Oniris, Nantes, starting **spring 2022**.

Type 1 diabetes is a chronic disease resulting from the autoimmune destruction of the insulin-secreting pancreatic beta cells. Extracellular vesicles endowed with immune-regulatory properties have gained attention for immune therapy of autoimmune

conditions, but standardized procedures to evaluate their tolerogenic potential remain to be developed prior to clinical translation. To address this issue, the Post-doc candidate will develop ex vivo and in vivo functional assays in lymph nodes, which concentrate initiators and effectors of innate and adaptive (auto-) immune responses. This work will be performed in close collaboration with a PhD student optimizing a bioprocess for large-scale EV production from mouse and human beta cell lines.

To apply, please send your CV, motivation letter, publication list and contact information of referees to [steffi.bosch@oniris-nantes.fr](mailto:steffi.bosch@oniris-nantes.fr)

**@ PhD position** dans l'équipe '**Stress, membrane, signalisation**' (IRSET, Inserm U1085 de Rennes).

Titre de la thèse : "Les vésicules extracellulaires comme nouveaux biomarqueurs de l'exposition aux perturbateurs endocriniens dans la progression de la maladie stéatosique du foie". Le(a) candidat(e) devra passer le concours de l'école doctorale Biologie Santé de Bretagne-Loire.

Pour plus d'informations, contacter directement les directrices de thèse: Corinne Martin-Chouly ([corinne.chouly@univ-rennes1.fr](mailto:corinne.chouly@univ-rennes1.fr)) et Dominique Lagadic-Gossmann ([dominique.lagadic@univ-rennes1.fr](mailto:dominique.lagadic@univ-rennes1.fr))

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## RECENT publications from the french FSEV community:

### SEND US YOUR ACCEPTED PAPERS

#### @ Editorial

-Donate PB, Lamarre Y, Pino-Lagos K, Noël D, Almeida F. Editorial: Extracellular Vesicles as Immunomodulatory Mediators in Inflammatory Processes. *Front Immunol.* 2022 Mar 3;13:867324. doi: 10.3389/fimmu.2022.867324. PMID: 35309347.

#### @ Commentary

-Vincent B. Plasma extracellular vesicles from the periphery as spreading vectors of Alzheimer's disease pathogenesis? *EBioMedicine.* 2022 Mar 21;78:103961. doi: 10.1016/j.ebiom.2022.103961. Epub ahead of print. PMID: 35325782.

#### @ Review

-Davidson SM, Boulanger CM, Aikawa E, Badimon L, Barile L, Binder CJ, Brisson A, Buzas E, Emanuelli C, Jansen F, Katsur M, Lacroix R, Lim SK, Mackman N, Mayr M, Menasché P, Nieuwland R, Sahoo S, Takov K, Thum T, Vader P, Wauben MHM, Witwer K, Sluijter JPG. Methods for the identification and characterization of extracellular vesicles in cardiovascular studies - from exosomes to microvesicles. *Cardiovasc Res.* 2022 Mar 24;cvac031. doi:10.1093/cvr/cvac031. Epub ahead of print. PMID: 35325061.

-N'Diaye ER, Orefice NS, Ghezzi C, Boumendjel A. Chemically Modified Extracellular Vesicles and Applications in Radiolabeling and Drug Delivery. *Pharmaceutics.* 2022 Mar 16;14(3):653. doi: 10.3390/pharmaceutics14030653. PMID: 35336027.

-van Niel G, Carter DRF, Clayton A, Lambert DW, Raposo G, Vader P. Challenges and directions in studying cell-cell communication by extracellular vesicles. *Nat Rev Mol Cell Biol.* 2022 Mar 8. doi: 10.1038/s41580-022-00460-3. Epub ahead of print. PMID: 35260831.

#### @ Cell mechanism

-Ferreira JV, da Rosa Soares A, Ramalho J, Máximo Carvalho C, Cardoso MH, Pintado P, Carvalho AS, Beck HC, Matthiesen R, Zuzarte M, Girão H, van Niel G, Pereira P. LAMP2A regulates the loading of proteins into exosomes. *Sci Adv.* 2022 Mar 25;8(12):eabm1140. doi: 10.1126/sciadv.abm1140. Epub 2022 Mar 25. PMID: 35333565.

#### @ Inflammation

-Garnier Y, Claude L, Hermand P, Sachou E, Claes A, Desplan K, Chahim B, Roger PM, Martino F, Colin Y, Le Van Kim C, Baccini V, Romana M. Plasma microparticles of intubated COVID-19 patients cause endothelial cell death,



neutrophil adhesion and netosis, in a phosphatidylserine-dependent manner. *Br J Haematol.* 2022 Mar;196(5):1159-1169. doi: 10.1111/bjh.18019. Epub 2022 Jan 6. PMID: 34962643.

### @ Microbiology

-David L, Taieb F, Pénary M, Bordignon PJ, Planès R, Bagayoko S, Duplan-Eche V, Meunier E, Oswald E. Outer membrane vesicles produced by pathogenic strains of *Escherichia coli* block autophagic flux and exacerbate inflammasome activation. *Autophagy.* 2022 Mar 20. doi: 10.1080/15548627.2022.2054040. Epub ahead of print. PMID: 35311462.

-Richter R, Kamal MAM, Koch M, Niebuur BJ, Huber AL, Goes A, Volz C, Vergalli J, Kraus T, Müller R, Schneider-Daum N, Fuhrmann G, Pagès JM, Lehr CM. An Outer Membrane Vesicle-Based Permeation Assay (OMPA) for Assessing Bacterial Bioavailability. *Adv Healthc Mater.* 2022 Mar;11(5):e2101180. doi: 10.1002/adhm.202101180. Epub 2021 Oct 24. PMID: 34614289.

### @ Nervous system

-Anakor E, Milla V, Connolly O, Martinat C, Pradat PF, Dumonceaux J, Duddy W, Duguez S. The Neurotoxicity of Vesicles Secreted by ALS Patient Myotubes Is Specific to Exosome-Like and Not Larger Subtypes. *Cells.* 2022 Mar 1;11(5):845. doi: 10.3390/cells11050845. PMID: 35269468.

### @ Parasitology

-Leleu I, Allo J, Cazenave PA, Roland J, Pied S. Autophagy Pathways in the Genesis of *Plasmodium*-Derived Microvesicles: A Double-Edged Sword? *Life (Basel).* 2022 Mar 12;12(3):415. doi: 10.3390/life12030415. PMID:35330166.

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

-Manon Gourdelier, Jitendriya Swain, Coline Arone, Anita Mouttou, David Bracquemond, Peggy Merida, Saveez Saffarian, Sébastien Lyonnais, Cyril Favard, Delphine Muriaux. Optimized production and fluorescent labelling of SARS-CoV-2 Virus-Like-Particles to study virus assembly and entry. doi:<https://doi.org/10.1101/2022.03.23.485575>.

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