Postdoctoral position:

Characterizing EV/Exosome- mediated transport between *Legionella pneumophila* and human cells

We are looking for a highly motivated scientist to conduct a project focusing on Extracellular Vesicles transport between *legionella pneumophila (Lp)* and target human cells. The goal is to 1) characterize this transport at the cellular and molecular levels and 2) identify the core machinery responsible for *Lp*-derived EV delivery.
Work will be conducted at Université de Paris, located in Saint-Germain-des-Prés area, Paris. Our lab is committed to solve the mysteries of EV-uptake and delivery [1-3] and is also interested in other aspects of membrane trafficking. Project will be developed in close collaboration with the group of C. Buchrieser, expert in *Lp* biology, at Institut Pasteur.

Requirements:
PhD in Cell Biology or Biochemistry, previous experience with cas9/CRISPR-based gene editing [4] is a must. Mastering Bacteria genetics and EV isolation would be a plus but is not required.
Applicant should send a CV and three reference letters to Gregory.lavieu@inserm.fr.
We offer a two-years contract with renewal possibilities.

References:

1. Bonsergent. E, Lavieu G. (2019). Content release of extracellular vesicles in a cell free extract. FEBS Letters.
2. Murphy D, de Jong O, Brouwer M, Wood M, Lavieu G, Schiffelers R, Vader P. (2019).Extracellular vesicle-based therapeutics: A comparison of natural and engineered vesicle targeting and trafficking. EMM. (review)
3. Mathieu M, Martin-Jaular L, Lavieu G, Théry C. Specificities of secretion and uptake of exosomes and other extracellular vesicles for cell-to-cell communication. Nat Cell Biol. 2019 Jan;21(1):9-17. (review)
4. Mocciaro. A., Roth. T., Bennett. H., Soumillon. M., Shah. A., Hiatt. J., Chapman. K., Marson., A, Lavieu. G. (2018) Light-activated cell identification and sorting (LACIS) for selection of edited clones on a nanofluidic device. Comms Bio.(1)-41.