

Postdoctoral Position in Extracellular Vesicle Delivery – Université Paris Cité

The Lavieu laboratory is seeking a highly motivated postdoctoral researcher with a strong background in cell and molecular biology to join our team. The primary focus of the research is to explore and decipher the mechanisms of extracellular vesicle (EV) delivery at the molecular level.

Key Responsibilities:

- Develop and optimize novel cell-based assays to study extracellular vesicle delivery.
- Perform high-throughput CRISPR-Cas9-based genetic screenings to identify key genes and pathways involved in EV delivery.
- Analyze and interpret large-scale genetic and molecular datasets to uncover new insights into the molecular underpinnings of EV function.
- Collaborate with a multidisciplinary team to integrate findings with broader research goals.

Qualifications:

- A Ph.D. in cell biology, molecular biology, biochemistry, or a related field.
- Expertise in molecular cloning, cell culture, assay development, and CRISPR-Cas9 gene editing is essential.
- Strong analytical skills and experience with data analysis tools.
- Excellent communication skills and the ability to work effectively in a collaborative environment.
- A proven track record of scientific productivity, demonstrated by publications in peer-reviewed journals.

About the Laboratory: Our laboratory is dedicated to understanding the extracellular vesicle delivery process using a combination of molecular biology, genetics, and advanced imaging techniques. Located at the Campus Saint Germain des Pres, in Paris, we offer a vibrant research environment with state-of-the-art facilities and access to a broad network of collaborators.

Application Process: Interested candidates should send their CV, a brief summary of their research experience, and contact information for three references to Dr. Gregory Lavieu at gregory.lavieu@inserm.fr. Letters of recommendation should be emailed directly by the referees.

Relevant Publications:

- Tognoli ML, et al. "Lack of involvement of CD63 and CD9 tetraspanins in the extracellular vesicle content delivery process." *Commun Biol.* 2023.
- Bui S, et al. "Virus Free-Method to Control EV-Cargo Loading and Delivery." *ACS A Bio Mat.* 2023.
- Dancourt J, et al. "Efficient cell death mediated by bioengineered killer extracellular vesicles." *Sci Rep.* 2023.
- Sahr T, et al. "Translocated Legionella pneumophila small RNAs mimic eukaryotic microRNAs to dampen the host immune response." *Nat Commun.* 2022.
- Bonsergent E, et al. "Quantitative characterization of extracellular vesicle uptake and content delivery within mammalian cells." *Nat Commun.* 2021.
- Bonsergent E, & Lavieu G. "Content release of extracellular vesicles in a cell-free extract." *FEBS Lett.* 2019.

We look forward to welcoming a new member to our team who is passionate about advancing the understanding of extracellular vesicle biology.