

Opportunity: Laboratory Technician

Mosaic Neurosciences (MNS), a new laboratory at Lausanne's burgeoning Biopôle Campus (Start-up Lab) could offer you outstanding opportunities to improve the lives of people around the world. MNS is a subsidiary of Prediction Biosciences based in Lyon (www.predict.net).

This is an opportunity to join a growing biotech firm wherein your contribution can impact the development and delivery of a new class of biotherapeutic products.

The successful candidate will work directly with innovative neurobiologists to contribute to the molecular engineering and optimization of novel targeted exosomes in the field of neurodegenerative diseases.

This role will primarily support the project lead in developing novel exosome targeting methods. Here the candidate will be exposed to and perform a range of exosome production, purification and analytical methods, general molecular biology (in vitro assays, qRT-PCR, cloning etc) as well as the culture of various neuronal cell lines (neurons, astrocytes) and iPSC-derived brain cells. The role requires the candidate to adequately capture, process and analyse data generated, and communicate this via various graphical, lab instrument, and office software.

The laboratory technician will be assisting scientists with the experiments with exosomes derived from human induced pluripotent stem neuronal cells and generating genetically modified cell lines. We are looking for candidates who work well in a team setting and are motivated to develop new skills. The role will also involve laboratory supply management.

Responsibilities:

- Execution of the day-to-day molecular biology experiments needed to drive the project forward
- Daily culturing of human induced pluripotent stem cells (maintenance, expansion, and differentiation)
- Cloning, manipulation, and banking of plasmids.
- Assist in FACS analysis
- Transfection of various nucleic acids - DNA, mRNA or siRNA and assess the level of expression by cell biology and biochemical techniques
- Exosome characterization and biochemical analysis
- Work with a variety of routine and specialized laboratory instruments and equipment in the laboratory
- Ensure that all specimens and equipment necessary for experiments are available and in good order
- Prepare specimens and equipment for use in the laboratory; prepare materials and equipment for experiments
- Ensure that supplies and consumables are ready and on hand as necessary for maximum efficiency in the laboratory
- Ensure that adequate clean inventory is available for immediate usage
- Work with staff to maintain stocked supplies and records of working reagents, including fixatives, buffers, solvents, and staining
- Ensure that reagents are made correctly and that expired reagents or defective products are replaced to ensure validity of results

Required qualifications:

- B.S. or M.S. degree or equivalent in biology (such as Molecular Biology/Genetics/Biochemistry/bioengineering) or Associate's degree
- Strong work ethic
- Excellent record keeping and organizational skills
- Willingness to learn/optimize/ troubleshoot new techniques under supervision
- Outstanding interpersonal skills: ability to effectively interact with internal colleagues as well as external collaborators.
- Hands-on experience with a wide range of cell-based and biochemical assays, including western blotting, ELISA/Flow cytometry, reporter assays, siRNA/shRNA knockdown and qPCR.

Preferred qualifications:

- Experience working in biotech/pharma or prior experience as a Laboratory technician
- Experience in the generation and analysis of primary cell cultures, iPSC-derived neurons

Position to be filled immediately as of June 2022.

For all applications, please send your candidature (CV + motivation letter + references) by email to carolinebh@predict.net.