**ANR-funded Postdoctoral position available at Marseille Medical Genetics, Marseille, France**

Epigenetics, Chromatin and Disease modelling team

A postdoctoral position is available in the team led by Frédérique Magdinier on muscle tissues engineering.

Our team is interested in modeling skeletal muscle differentiation and diseases using pluripotent stem cells. In collaboration with the **Lasers Plasma and Photonic Processes laboratory** (LP3, UMR 7341 CNRS-Aix Marseille University- AMU), we are developing an interdisciplinary project aimed at applying high resolution laser-assisted bioprinting and surface structuration for engineering skeletal muscle tissue using human induced pluripotent stem cells.

Bioprinting techniques offer a high-resolution deposition and a control of the cell distribution with applications ranging from tissue engineering for organ creation to regenerative medicine and the discovery of new drugs.

The project is based on interdisciplinary approaches and a combination of cell biology, chemistry, engineering and sophisticated protocols to create artificial tissues for differentiation modelling, tissue regeneration and other application such as drug testing.

**Techniques:** Cell culture (primary cells, pluripotent stem cells), cytometry, immunofluorescence, In vivo imaging (calcium handling, electrical activity measurement), molecular biology, RNA Sequencing, Bioinformatics, statistics.

**Profile:**

The position is funded by ANR for 18 months. Further extension is possible. We are seeking for a highly motivated researcher with experience in cell biology, cell culture and stem cells and a strong interest in stem cell biology. The applicant will work in close collaboration with physicists. Ability to work independently but also with a good team spirit in a multi thematic environment is necessary.

Candidates with competence in stem cell biology or biomaterials are welcome

Experience in cell culture in needed.

To apply, please send: curriculum vitae, motivation letter and the names/contact information of 2/3 referees to [frederique.magdinier@univ-amu.fr](mailto:frederique.magdinier@univ-amu.fr)

Application should be in English and include a statement of research accomplishments and interest.

**Deadline for application is April 1rst 2021.**