

Seeking for Marie Curie PostDoc Candidates – Stem Cell aging

The Stem Cell Aging Group, lead by Dr. Florian, of the **Bellvitge Biomedical Research Institute** (IDIBELL) is seeking for an excellent PostDoc candidate that is willing to apply for the Marie S. Curie Individual Fellowships 2020.

Institution:

The position is to conduct research at IDIBELL. Its approach to the disease is comprehensive, combining, all in one organization, prevention, care, specialized training and research. We are a center of reference in Catalonia, both in healthcare quality and in research. IDIBELL provides equal access to and opportunity in its programs, facilities, and employment without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, sexual orientation, gender identity, or gender expression.

Department/Unit:

Regenerative Medicine/STEM CELL AGING: The successful candidate will join the group of **Dr. M. Carolina Florian**. Research in Florian's group aims at understanding aging of somatic stem cells and of their supporting niche. The target is to define molecular mechanisms (epigenetic) that increase the regenerative capacity of aged tissues and rejuvenate stem cells or reduce disease incidence/aggressiveness. We offer a highly dynamic, stimulating and international working environment, state-of-the-art research facilities, and expert technical support and training.

Project description:

We are looking for an enthusiastic scientist wishing to further his/her scientific career within a competitive and stimulating environment. Depending on the candidate's background and expertise the project will offer the possibility to be developed under a computational/bioinformatic approach (deep learning strategies to analyze imaging data and single cell RNA-seq/ATAC-seq dataset) or under a wet-lab focused approach (development of xeno-transplantation mouse models and whole-mount 3D imaging techniques) to investigate the interaction between stem cells and leukemia with the aging bone marrow niche in vivo.

Requirements:

- Doctoral Degree: PhD in Health Sciences: Medicine, Pharmacy, Biology, Biotechnology
- Mobility:
 - o Standard European Fellowships (ST): must not have resided or carried out the main activity (work, studies, etc.) in Spain for more than 12 months between 9th September 2017 and 9th September 2020.
- Career Restart Panel (CAR) or Reintegration Panel (RI): must not have resided or carried out the main activity (work, studies, etc.) in Spain for more than 36 months between 9th September 2017 and 9th September 2020 between 9th September 2015 and 9th September 2020

- Any skills and knowledge listed below will be a strong plus:
 - Good communication and English language skills
 - Project planning, analytical and critical thinking, ethics and integrity, leadership, information seeking and management
 - Expertise in work with mice (FELASA)
 - Expertise in microscopy techniques and Imaging software analyses (Imaris)
 - Knowledge of Artificial Intelligence algorithms (Artificial Neural Networks (ANN) and/or Deep Neural Network (DNN))
 - Knowledge of Python, bash and/or R programming languages or any previous bioinformatic/biostatistic expertise

- Experience in :
 - Background in stem cell biology and/or aging. Previous expertise in hematopoietic stem cells will be a plus.

Applications:

Highly motivated candidates, please, send complete CV, cover letter and two reference contacts, to preaward@idibell.cat before **June 15th 2020**.

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