

Junior Post-doctoral Position in Cancer & Metastasis



Osteoporosis – Bone Metastasis – Lyon



Project title: Role of microRNAs, and their mRNA targets in controlling bone metastasis formation

Research interests of the team are to identify transcriptional and epigenetic mechanisms that govern the nesting of tumour cells in the bone marrow and trigger bone metastasis formation. In this respect, we have recently identified tumour-derived microRNAs that are specifically associated with bone relapse in women with early-stage breast cancer.

The successful applicant will study the functions of selected bone metastasis associated tumour-derived microRNAs and their target mRNAs/proteins that are controlling the formation of a metastatic niche in the bone marrow, and subsequent development and progression of bone metastases.

Key words:

- Breast cancer
- Bone metastasis
- microRNA

Profile and skills of the candidate:

- Hold a PhD or MD/PhD in a Biomedical Science Subject (or equivalent experience).
- Experience in Cancer Biology and Noncoding RNAs.
- Experience in using computational programs for *in silico* analysis.
- Experience in Molecular and Cellular Biology Techniques (including cell transduction and transfection, RT-qPCR, dual luciferase reporter assay, western blotting, flow cytometry, cell adhesion and cell migration/invasion assays, tumour spheroid assay).
- Experience in conducting experiments using Mouse Metastasis Models.
- Effective communication skills, both written and verbal; experience of delivering presentations.
- Ability to analyse and solve problems with an appreciation of long-term implications.
- Ability to work independently and effectively.

Lab/Location: The lab [INSERM Research Unit 1033 (LyOS)] is based at the University Claude Bernard Lyon-1 (www.lyos.fr), Lyon (France). It is part of the Laboratory of Excellence DEVweCAN (<http://devwecan.universite-lyon.fr>; contact Yohann.CHAIX@lip-lyon1.fr). The team is also an International Associated Laboratory under the umbrella of INSERM and the University of Sheffield (<http://mellanbycentre.org/investigators/>), and the successful candidate will therefore have secondments to the University of Sheffield (UK).

Working commitment / Gross Salary: Full-time post; 24 months / 30,240€ per annum.

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Closing date/ Interview of shortlisted candidates/ Start date: *May 29/ June 30/ October 1, 2020*