



## Postdoctoral position in cancer biology at the CNRS in Montpellier

**Recruiting Team: “tyrosine kinase signaling and oncogenesis”, CRBM UMR5237 CNRS/Montpellier University**

**Project title: deorphanization of a tumor secreted factor to target metastatic colorectal cancer**

**Project summary:** Protein phosphorylation on tyrosine has evolved as an important mechanism to regulate cell communication in multicellular organisms and its deregulation has a profound impact on human cancer. Our main objective is to understand how perturbation of this phosphorylation-dependent signaling promotes tumor formation using proteomic methods. Tumor micro-environmental factors have been recognized as essential determinants involved in promoting tumor metastasis. Here we aim at validating an orphan receptor, for which we demonstrate to mediate the metastatic function of an important tumor secreted factor, as an attractive therapeutic target in colon cancer. Specific aims include phosphoproteomic analysis of tumor signalling induced by this orphan receptor, assessment of ligand-dependent receptor oncogenicity and development of neutralising antibodies as a novel therapeutic strategy in this human disease.

**Techniques: molecular and cellular biology, proteomics, mouse genetics**

**Candidate profile: highly motivated postdoc in molecular and cellular biology with a strong CV**

**Funding:** Applications will be send to the funding agencies (Ligue, ARC,...) with dead-lines early 2016.

**Main publications of the host lab:** Chevalier et al, (2015) *Nature Commun* in the press; Naudin et al (2014) *Nature Commun* 5, 3159; Sirvent et al (2012) *Mol Cell Proteomics* 11, 1937; Leroy et al (2009) *Cancer Res* 69, 2279; Veracini et al (2008) *J Cell Biol* 11, 603

**Contact:** [serge.roche@crbm.cnrs.fr](mailto:serge.roche@crbm.cnrs.fr)

<http://www.crbm.cnrs.fr/index.php/en/serge-roche-uk>



<http://www.crbm.cnrs.fr/index.php/en/home>