TWO POST-DOCTORAL POSITIONS

Position 1: "Role of Greatwall in tumorogenesis"

(Three-years postdoctoral position funded by the "Agence Nationale de la Recherche (ANR)")

Position2: "Role of Arpp19 and ENSA in the control of the cell cycle" (Two-years postdoctoral position funded by the "Labex EpiGenMed")

Two postdoctoral positions are available in the **laboratory of Anna Castro and Thierry Lorca** (http://www.crbm.cnrs.fr/index.php/en/anna-castro-uk) **at the Centre de Recherche en Biologie cellulaire de Montpellier (France).** Our laboratory studies the mechanisms controlling phosphatases in cell cycle and cell signalling.
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Main Publications of the Laboratory:

1- Vigneron, S. et *al* (2009) ***EMBO J*** 28 : 2786-2793.
2- Gharbi-Ayachi et *al* (2010). ***Science*** 330: 1673-1677.
3- Burgess A., et al (2010). ***PNAS***, 107 : 12564-9.
4- Vera et *al* (2015). ***eLife,*** 4 :10115.
5- Charrasse S et *al* (2017). ***Nat. Commun***, 8:206
6- Vigneron S et *al* (2018). ***Dev. Cell,***45 :637-650
7- Hached et *al* (2019). ***J.Cell Biol,*** 218(2):541-558

Position 1: Role of Greatwall in tumorogenesis"

Summary:

Our laboratory identified a new signalling pathway consisting of the Greatwall kinase, its substrates Arpp19 and ENSA and the phosphatase PP2A-B55 that is essential for mitosis and S phase entry and progression. Our new data show that Greatwall is a new oncogene that is overexpressed in transformed cell lines and in solid colon tumours. The aim of the first post-doctoral project is to characterize the mechanism by which Greatwall induces cell transformation. By using biochemical approaches and in vivo microscopy we will try to identify the substrates of Greatwall conferring its oncogenic capacities.

Candidate profile:
Postdoctoral applicants must have or submitted one or more first-author publication(s) in a peer-reviewed international journal, the skills to work independently and a strong background at least in one of the following fields: CRISPR-Cas9 technology, in vivo microscopy and/or molecular biology.
A good command of the English language, a high personal motivation and a curious mind are required. Applicants must be available to start at the latest on January/February 2020.

Position2: "Role of Arpp19 and ENSA in the control of the cell cycle and tissue homeostasis"

Summary:
New data from our laboratory suggest that Arpp19 and ENSA differently participate in the control of the cell cycle. We recently constructed knockout mice for these substrates and we will analyse in the present project the participation of each one of these proteins in the control of the different phases of the cell cycle and in tissue homeostasis.

Candidate profile:
Postdoctoral applicants must have or submitted one or more first-author in a peer-reviewed international journal(s) and a strong background in at least one of the following fields: live-cell imaging, knockout mouse phenotype analysis, immunohistochemistry and /or MEFs purification and culture. A high motivation, English proficiency and independent work are required. Applicants must be available to start at the latest on January/February 2020.