

3 years postdoctoral fellowship in cancer biology at CRBM – S Roche team

Starting from sept 2019

Title: Deciphering tumor suppression function of SLAP in colon cancer

Project: The tyrosine kinase (TK) Src is a regulator/coordinator of epithelial cell communication and fate decision. While the tumor-promoting role of Src in colon cancer is well-defined, the underlying mechanisms remain mysterious. During evolution, TK activities have become under the tight control of small adaptor proteins, which exert negative regulatory functions. We recently discovered that Src tumor activity is under the control of such a negative regulator, named SLAP. We propose that the expression of SLAP, which is reduced in 50% of the CRCs, defines a major mechanism for regulating the tumor activity of Src.

Methodology: We will characterize the role of SLAP in homeostasis and intestinal epithelial tumor progression by employing genetically modified mice. The mechanism how SLAP is executing its anti-tumoral activity will be elucidated by combining sophisticated proteomic and molecular methods. Moreover, we will explore the role of SLAP in tumor response and resistance to targeted therapies, and finally evaluate the prognostic role of SLAP in patients with CRC. This work will be in collaboration with the team of M Hahne from the IGMM.

Expected Outcomes: This project will decipher the tumor suppressing role of SLAP in CRC and thus pave the way for novel therapeutic and diagnostic strategies.

We seek a talented and motivated postdoc with a strong CV and a solid background in cancer biology and molecular and cell biology.

3 years funding will be sought through applications at national funding organizations.

For more information please contact serge.roche@crbm.cnrs.fr

Applicants should provide 2 reference letters along with a detailed CV and a motivation letter.