

3 years Postdoc position in cancer cell signaling at the CNRS of Montpellier

Project title: targeting oncogenic pseudo-kinases in leukemia

Project summary: Inactive protein kinases are gaining attention in recent years because they are shown to play an important role in cancer, similar to active kinases. We recently linked PEAK pseudo-kinases with aggressive cancer and uncovered a unique scaffolding signalling mechanism from structural analyses. We then identified C19orf35/PEAK3 as a new member of this family with oncogenic function in a subset of acute myeloid leukemia. Our main objective is to characterize the signalling mechanism underlying PEAK3 leukemic function from AML patient samples and patient-derived xenografts and screen for anti-cancer drugs that efficiently target its active conformation.

Research environment: this research project will be performed at CRBM in tight collaboration with Toulouse CRCT, Marseille CRCM and the Montpellier proteomic platform.

Funding: 30-36 months CDD for a postdoc funded by INCA, starting late 2022, early 2023.

Candidate: Highly motivated and talented young postdoc in molecular and cellular biology with a high profile in cancer cell signaling and leukemia. An expertise in gene editing and proteomic techniques would be appreciated.

Selected publications on the topic: Ounoughene et al Cancers (2021); Hou et al Sci Signal (2022); Lopez et al PNAS (2019); Roche et al Am J Can res (2019); Lecointre et al Structure (2018); Patel et al Nat Com (2017).

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