

OPEN POSTDOC POSITION

A postdoctoral position is available from July 2021 in the “*Genetics and Development of Cardiac Defects*” team led by S. Zaffran. We aim to understand the pathogenic mechanisms underlying hypertrophic cardiomyopathy (HCM). Familial HCM is often considered to be a sarcomeric disease, since many inherited mutations have been found in sarcomere-related genes. However, the mutations identified so far only account for ~50% of familial HCM patients, implying that other genes and pathogenic mechanisms remain to be discovered. Using local cohort of patient with HCM we have identified novel candidate genes for this cardiac disease. The project will determine the impact of missense variant identified in candidate genes on the development of the heart and subsequently on cardiomyocyte proliferation. The postdoc will study genotype/phenotype correlations by using generating novel transgenic model and decipher the pathological contribution of representative variants in the mouse model as well as in vitro iPS cells. We expect that the results of this work will help in understanding the heterogeneity of patients and identify novel therapeutic targets.

Location

The team is located in the heart of the third largest European University Hospital center and is part of the Marseille Medical Genetics Center (8 teams; 150 people), an international research center dedicated to translational approaches. The MMG provides state of the art core facilities. For more information, visit <https://www.marseille-medical-genetics.org/>

Qualification and experience

We are seeking highly motivated young candidates holding a PhD for less than 2 years. Preference will be given for applicants with a background in mouse genetics, cell and molecular biology and cardiovascular biology. The position is opened for one year renewable once (including medical benefits) starting as early as July 2021. Fluency in English is mandatory but ability to speak in French is not required by recommended.

Applications

Applications should contain a CV, a letter of motivation with description of research accomplishments (2 pages max) and the contact information of two references able to recommend their research work directly to stephane.zaffran@univ-amu.fr