Post-doctoral position available:

**HIR proteins and membrane nanodomains in *Arabidopsis thaliana***

**CNRS/INRA, Montpellier, France**

A position is open to work on the function of membrane nanodomains in plants, in the frame of an ANR project named NUTRIR. Research will be carried out in the group of Dr Christophe Maurel in the Biochemistry and Plant Molecular Physiology department (Montpellier, France) under the supervision of Dr Enric Zelazny. The laboratory and the host team have worldwide recognition in the field of membrane protein dynamics and plant transport physiology (http://www1.montpellier.inra.fr/ibip/bpmp/) (Dubeaux G. et al. 2018, Mol Cell 69 :953 ; Martinière A. et al. 2019, Plant Physiol 179 :1581 ; Rodrigues O. et al. 2017, PNAS 114: 9200 ; Prado K. et al., 2019, Plant Cell, 31:417).

The objective of the project is to characterize the small family of "Hypersensitive Induced Reaction Proteins" (HIR) proteins, specific to plants and localized in membrane nanodomains in *Arabidopsis thaliana*, to highlight their role in the cell and discover new physiological functions regulated by HIRs. First, by microscopy approaches, the post-doctoral researcher will investigate the intracellular dynamics of the different HIR proteins and will determine whether these proteins are involved in the formation of specific membrane nanodomains or in certain endocytic mechanisms. Secondly, to discover new biological functions regulated by the HIR2 isoform, proteins interacting with the latter will be isolated (interactome). Then, the necessary molecular and phenotypic characterizations will be performed to understand the importance of these interactions. Thirdly, in a more targeted context, the post-doctoral researcher will implement experimental approaches to understand the function of the interaction between HIR proteins and aquaporins of the PIP subfamily. HIRs may play the role of scaffolding proteins for recruiting PIPs in specific membrane nanodomains.

The position is open for at least 2 years to citizens from all nationalities. Gross salary is between € 2,500 and € 3,000 monthly according to experience. Candidates must hold a doctorate and proven research skills evidenced by high quality publications. We are seeking a highly motivated and independent scientist with a strong background in microscopy, protein biochemistry and molecular physiology of plants. The candidate will also have knowledge in the field of intracellular dynamics of membrane proteins.

Applications including a CV, a description of previous research experience and names and addresses of three possible referees should be submitted preferentially before January 15th, 2020, through the CNRS web portal at: https://emploi.cnrs.fr/Offres/CDD/UMR5004-CECABA-014/Default.aspx?lang=EN

The position will remain open until it is filled. Please contact Dr. Enric Zelazny (enric.zelazny@cnrs.fr) for specific enquiries.