

Post-doctoral position on plant cell signalling

The Laboratoire de Recherche en Sciences Végétales (LRSV – CNRS/UPS/INPT – Toulouse, France) is opening a 2-year post-doctoral position in the framework of the ERC project MUSIX (Principal investigator Olivier Hamant, Laboratoire de Reproduction des Plantes, RDP – Lyon, France).

The ERC project MUSIX aims at studying molecular mechanoperception mechanisms involved during plant development. Plants are ideal systems to study such mechanisms because their mechanics is mainly mediated by the cell wall and cells do not move. In particular, plant mechanosensing must involve the cytoskeleton and wall anchors. At LRSV, in the Dynamics and Evolution of Plant Cell Wall team, we focus our analysis on lectin receptor-like kinases as mechanosensor candidates. Indeed, they form discrete attachment sites (Hechtian strands) at the cell wall. Hechtian strands are the closest homolog structures to focal adhesion sites in plants. However, much remains to be learned about them.

Applicants should have a PhD in molecular or cell plant biology and an interest in carrying out experimental plant research on cell signalling. Experience on cytoskeleton methods of analysis, confocal microscopy and molecular biology in *Arabidopsis* is of merit. Good written and oral communication skills in English are required.

Proposed start date: October 2021. The position will remain open until filled.

Applications should be submitted in electronic form (preferably in a single pdf), and should include a CV, a short description of previous research and current research interests, and contacts for 3 references (letters not required at this stage).

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