



1. Line of research

Dissection of drought-stress regulatory networks in maize.

2. ERC descriptor

LS9_4: Applied plant sciences (including crop production, plant breeding, agroecology, forestry, soil biology).

3. Job description

The research will focus on the molecular and physiological mechanisms underlying the response to drought, during the early phases of plant development in maize and related grasses. Through the use of genetic and genomic approaches, including mutant and gene expression analysis, it seeks to address how

genetic interactions and hormone signals modulate the formation of the cuticle, a protective barrier that covers plant epidermis and prevent non-stomatal water loss. Moreover, the genetic diversity of drought response will be investigated through the characterization of a collection of local maize accessions.

4. We offer

The successful candidate will work in a laboratory of plant molecular genetics. We will offer an extensive experience in genetic analysis, insertional mutagenesis, gene expression and functional studies, morphological and cellular studies.

5. Desired skills

PhD in Plant Genetics or Molecular Biology.

A strong background in plant genetic analysis and plant development.

6. Contatti/Contacts

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