



European Research Council



ERC-funded Post-doctoral Position Meiotic Adaptation to Polyploidy

Job information

- Organisation: GReD Institute, Clermont-Ferrand, France
- Team: Recombination and maintenance of genome integrity
- Research profile: Post-doctoral scientist
- Duration: 24 months with possibility of extension
- Job status: Full-time
- Funding: ERC Starting Grant led by Heidi Serra
- Starting date: January 1st, 2024 (flexible)

Offer description

We are looking for a highly motivated post-doctoral scientist to work on the ERC Starting Grant **MeioPoly**, which seeks to elucidate the mechanisms of **meiotic adaptation to allopolyploidy**. Allopolyploidy resulting from hybridization between related species is ubiquitous in the evolutionary history of plants. When they first arise, allopolyploid organisms face the challenge of chromosome segregation during meiosis due to the presence of sets of related chromosomes inherited from each of the progenitors. Using the allotetraploid *Arabidopsis suecica* as a model, the MeioPoly project aims at deciphering the **evolutionary processes enabling meiotic stabilization of young allopolyploids** with a special emphasis on the molecular mechanisms that prevent recombination between related chromosomes. The successful candidate will develop genetic and epigenetic approaches to characterize genome-wide **meiotic recombination** in *Arabidopsis suecica*. He/she will ensure conceptual and methodological development of the project.

Background and skills

- PhD degree in molecular biology and/or genetics
- Expertise in molecular biology technics such as DNA and RNA purification, DNA library construction and sequencing, and chromatin immunoprecipitation
- Experience and/or strong interest of working with plants
- Previous work in the meiosis field will be highly appreciated, but not mandatory

How to apply?

Please send your CV including references and a cover letter to Heidi Serra (heidi.serra@uca.fr)

Application deadline
November 20th, 2023

Host Institute: Part of the University Clermont Auvergne (~40 000 students), the iGReD (www.igred.fr) is a scientifically vibrant, interdisciplinary research institute, which aims to understand the genetic and epigenetic programs underlying reproduction and development. We are located next to the Chaîne des Puy – Limagne listed as a UNESCO World Heritage Site.

