

Crop Production & Biostimulation Lab.

<https://cpbl.sciences.ulb.be>

Université libre de Bruxelles, Brussels, Belgium



JOB OFFER

Post-doctoral position in plant physiology and genetics

One fellowship for non-Belgian resident (3 years) - as early as April 1st 2021

SusCrop is an ERA-Net Cofund Action under H2020 in the field of Sustainable Crop Production. Within that frame, C4FUTURE (Fortifying and Enhancing Resilience in C4 Crops for Current and Future Climate Change Adversities) is one consortium with six partners from Belgium, Denmark, France, Germany, Italy and Turkey. C4FUTURE exploits the natural variation in maize and sorghum diversity panels to enhance adaptation to nitrogen and water stresses, being already major constraints on crop productivity and expected to accentuate due to climate change. A key to this project is in situ phenotyping of germplasm collections under various stress combinations across four Mediterranean sites, representing a climatic gradient. Advanced root and shoot phenotyping, integrative phenomic data collection, systems biology and genome mapping approaches will be employed to identify candidate genes underlying the response of these crops to nitrogen deficiency and drought.

- You will phenotype diversity panels of maize and sorghum in response to nitrogen and water limitations (root morphology, photosynthetic activity in laboratory environment)
- You will be involved in the coordination of the C4FUTURE consortium
- You will publish scientific articles related to the project, and you will engage in other types of scientific communication

Specific requirements

- You have relevant experience in any: cereals (maize, sorghum) genomics - drought stress - QTL mapping - hydroponics - photosynthesis - plant mineral nutrition - plant physiology - root development
- You have excellent communication skills in English

Enthusiastic researchers meeting these criteria are kindly invited to contact Christian HERMANS (chermans@ulb.ac.be). Include your CV, qualifications and the names of two academic referees whom I can approach prior to appointment. Applications must be received by February 1st December 2021.