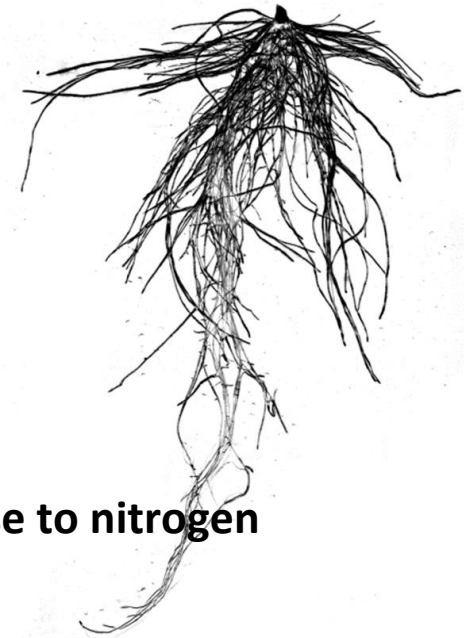
Lab. of Plant Physiology and Molecular Genetics, Université Libre de Bruxelles, Brussels, BE



JOB OFFERS

Root morphology of oilseed rape in response to nitrogen

Mineral nitrogen (N) is the quantitatively most important nutrient in cropping systems. However, a considerable N fraction is lost through runoffs with detrimental consequences for the environment and human health. Increasing the plant N uptake by optimizing the degree of root branching for exploring a larger soil volume in search of the mobile nitrate resource may contribute to limit soil leaching. Oilseed rape (*Brassica napus* L.) is a major oil crop showing whose production highly dependents on N fertilization. The project aims at understanding the genetic control of root system architecture and how it is impacted by N nutrition. A measurable outcome will be to provide genetic markers for selecting new crop genotypes with positive root morphological features.

- **One PhD fellowship** (1 year + prospect for additional funding) - as early as January 2019

  Skills: Plant physiology, molecular biology, RNAseq, hydroponics, root phenotyping

- **One post-doc fellowship for non-Belgian resident** (3 years) - as early as July 2019

  Relevant experience: *Brassica* genomics, QTL mapping (association and linkage), ShoreMap, gene networks

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 December 15th 2018 (PhD position) or April 1st 2019 (post-doc position).