

Postdoc profile: Characterization of tender wheat root microbiota and plant-growth promoting microbes

18 month postdoc starting in September 2014 (possibility to change slightly the start date according to eligibility criteria and availability of candidates)

Lab host: UMR LSTM (Tropical and Mediterranean Symbioses Laboratory), Montpellier, France. A part of the postdoc may also be conducted in the Microbial Ecology Laboratory located in Lyon. The postdoc will be under the direction of Dr Lionel Moulin and Dr Florence Wisniewski-Dyé.

Project: MIC-CERES (<http://umr-lstm.cirad.fr/principaux-projets/mic-ceres>), as part of WP1.

Eligibility criteria: PhD defense less than 2 years ago on 1st of September 2014 (possibility to change if we modify starting date). The candidate should not have spent more than 10 months in France in the last 3 years. Eligibility criteria regarding the date of PhD defense might be reconsidered for best fit candidates.

We are looking for an enthusiastic young postdoc researcher to work primarily on the bread wheat root microbiota by barcoding and cultivable approaches. The project aims at studying the impact of soil origin and plant genotypes on the diversity of rhizosphere and endophytic bacteria and fungi, and at isolating microbes with plant growth-promoting properties via a cultivable approach. Activities will include barcoding with Illumina Miseq of bacterial and fungal markers of wheat roots and rhizosphere, bioinformatics downstream analyses of diversity, and a cultivable approach using specific media to isolate plant growth-promoting rhizobacteria.

The candidate will have a PhD in plant-microbe interactions, microbial ecology or microbiology. He/She will have knowledge of bacteriology, analysis of diversity of microbe communities (NGS with barcoding) including downstream bioinformatic and biostatistic analyses (Dothur, Mothur, etc). Experience with pipelines of analyses of diversity (under linux environment) produced by NGS technologies (Miseq, Roche 454) would be a plus.

Salary: 1750 euros per month including social security, pension and job loss benefits.

How to apply: send a CV and a covering letter describing your suitability for the position, before July 15th, 2014 to lionel.moulin@ird.fr and florence.wisniewski@univ-lyon1.fr.