



Post-doc position in Plant Sciences

Exploring the molecular mechanisms underlying plant-fungal interactions under drought



Two (+1) years position supported by Bordeaux Plant Science (BPS) research program is available in the **UMR SAVE** in Bordeaux, France. This post-doc position is one of 19 offered positions as part of Bordeaux University excellence BPS program, which will provide access to many scientific events and resources. The successful candidate will work in close collaboration with two others post-docs in the Work Package PROMISE which goal is to study plant responses to multistress and trade-offs between tolerance and productivity.

In the context of climate change, plant mortality and yield losses are increasing worldwide in both natural and agroecosystems. However, our understanding of the underlying causes is limited by the complex interactions between abiotic and biotic factors.

The aim of the research is to study plant-drought-fungus interactions in two economically important crops (wheat and grapevine) focusing on the physiological response to stress of plant and fungi (grapevine trunk disease and fusarium head blight) using ecophysiological and omic approaches (transcriptomic, metabolomic). In the last year of the project, the successful candidate will participate in a meta-analysis of tolerance in a variety of plants subjected to different stresses (thermal, hydric, biotic) in the framework of the PROMISE WP.

Environment

The position is open at **UMR SAVE**, recognised for their expertise in *plant-pathogen-drought interactions*. The project is co-supervised with UR MycSA, recognised for their expertise on *Fusarium* spp. We are located on the plant science campus of the INRAE (French National Research Institute for Agriculture, Food and Environment).

Bordeaux is an easy-going and enjoyable UNESCO world heritage city with many cultural, social, sportive events, famous for its vineyards and only one hour away from marvellous sand beaches.

Candidates

We are looking for highly motivated candidates with a good publication track-record and a strong commitment to research. English communication skills are expected. *A solid experience in bioinformatic analyses is recommended.*

Starting date: march/april 2022

Lab websites :

<https://www6.bordeaux-aquitaine.inrae.fr/sante-agroecologie-vignoble/>

<https://www6.bordeaux-aquitaine.inrae.fr/mycsa/>

Selected publications :

📌 Bortolami et al. 2021 *PNAS*
<https://doi.org/10.1073/pnas.2112825118>

📌 Bortolami et al. 2019 *Plant Physiol*
<https://doi.org/10.1104/pp.19.00591>

📌 Laurent et al. 2018 *MPP*
<https://doi.org/10.1111/mpp.12524>

📌 Laurent et al. 2017 *BMC Genomics*
<https://doi.org/10.1186/s12864-017-3524-x>

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Annual salary :

31 kEuros

(not including certain allowances for transport or family expenses according to personal situations)

Deadline : open until position is filled