



université
de BORDEAUX

INRAE



Post-doc position in Plant Sciences

Role of genetic load in woody plant adaptation

Two years position supported by Bordeaux Plant Science (BPS) research program is available at **Biogeco** 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.

This project proposes to study the effect of deleterious mutations on woody plant adaptation. Deleterious mutations negatively affect fertility, growth or survival, and therefore the ability of trees (domesticated or wild) to adapt to environmental changes. The postdoc will analyse existing genomic, environmental and trait data to identify the endogenous and environmental factors that modulate natural selection (positive or negative) and through it fitness/productivity in several woody plant species, from tropical to temperate trees, and from wild to cultivated (e.g. grapevine) species.

Environment

Our group is hosted by **Biogeco**, recognised world-wide for its expertise in **Forest science**. We are located on the 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.

Starting date: 01/06/2022

Team/lab website

Bordeaux Plant Science website

Selected publications

✦ González-Martínez, S.C., Ridout, K., Pannell, J.R., 2017. Range Expansion Compromises Adaptive Evolution in an Outcrossing Plant. *Curr. Biol.* 27, 2544–2551.e4.

✦ Groppi, A., Liu, S., Cornille, A., Decroocq, S., Bui, Q.T., ... Decroocq, V., 2021. Population genomics of apricots unravels domestication history and adaptive events. *Nature Communications*. 12:3956.

✦ Schmitt, S., Tysklind, N., Hérault, B., Heuertz, M., 2021. Topography drives microgeographic adaptations of closely related species in two tropical tree species complexes. *Mol. Ecol.* 30, 5080–5093.

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Deadline : xxxxxx