

JOB POSITION

Postdoctoral position: “Transcriptional regulation of the biosynthesis of mycotoxins produced by *Fusarium graminearum* and *Aspergillus carbonarius* induced by stilbenoid exposure”

The French National Research Institute for Agriculture, Food, and the Environment (INRAE) is a public research establishment. It is a community of 12,000 people with more than 200 research units and 42 experimental units located throughout France. The institute is among the world leaders in agricultural and food sciences, in plant and animal sciences, and is 11th in the world in ecology and environment. INRAE’s main goal is to be a key player in the transitions necessary to address major global challenges. In the face of the increase in population, climate change, scarcity of resources and decline in biodiversity, the institute develops solutions for multiperformance agriculture, high quality food and sustainable management of resources and ecosystems.

WORKING ENVIRONMENT AND ACTIVITIES

■ You will be welcomed at the INRAE Research Center of Bordeaux Nouvelle-Aquitaine with activities located at the “Mycology and Food safety” research unit (UR 1264 MycSA, https://www6.bordeaux-aquitaine.inra.fr/mycsa_eng/). The INRAE Research center of Bordeaux Nouvelle-Aquitaine offers an excellent international, dynamic and stimulating scientific campus with more than 400 researchers working in 9 Research Units.

The successful candidate will work within the framework of an ANR-funded collaborative project: “StilDeTox - Stilbenoids as promising environment-friendly natural products to minimize the contamination of wheat and grapevine with toxigenic fungi and associated mycotoxins” (<https://anr.fr/Projet-ANR-19-CE21-0007>).

■ You will be in charge of the comprehensive analysis of the disorders induced in fungal metabolism by active stilbenoids and stilbenoid extracts isolated from vine co-products. The successful candidate will use metabolomic data to identify key candidate genes potentially involved in the regulation of the biosynthesis of mycotoxins and will be in charge of functional genetics to study and validate these fungal targets.

TRAINING AND SKILLS REQUIRED

- Recommended training: PhD in fungal genetic
- Knowledge required: fungal physiology, secondary metabolites
- Skills sought: rigour, scientific curiosity, ability to work independently and to take initiative, ability to write and communicate orally in English.

➤ Reception modalities

- Unit: UR 1264 MycSA
- Postal code + city: 33882 Villenave d’Ornon
- Duration of the contract: 1 year
- Starting date: From February 2022
- Remuneration: ANR salary grid, depending on experience

➤ How to apply

Please send a cover letter detailing motivation and research interests, a concise summary of previous research activities, a complete CV and contact information for three referees to Vessela Atanasova (vessela.atanasova@inrae.fr), Florence Forget-Richard (florence.forget@inrae.fr) and Nadia Ponts (nadia.ponts@inrae.fr).

✗ Deadline for applications: November 30th