

Postdoctoral fellowship in Grape Metabolomics & Cell Cosmetics

University of Tours – France

A one-year fellowship is available at the Department of Plant Biomolecules and Biotechnology (EA2106 BBV), University of Tours, France, from October 2019. This fellowship is open to Post-Doctoral researchers who will integrate Dr. Arnaud Lanoue's researcher group in order to work in the region Centre-Val de Loire Ambition for Research and Development 2020 (ARD 2020) COSMETOSCIENCES Programme.

The research project of the present position focuses on the metabolomics screening of ancient, rare grape varieties from Loire Valley for the development of plant cell lines producing active cosmetics. The recruited researcher will have to setup UPLC-DAD-MS/MS-based metabolomics tools to screen a grape germplasm collection from ancient varieties of the Loire Valley (France) to identify varieties with peculiar metabolotypes for valorization in cosmetics. The screening will include sample harvesting from different organs and varieties as well as metabolomics analysis targeted on polyphenols followed by data integration using chemometric tools (PCA, PLS-DA, HCA). Grape varieties of cosmetics interests will be selected for plant tissue culturing. The recruited researcher will also work in close collaboration with a private company specialized in the sustainable production of biotechnological extracts for the cosmetic industry. The hired candidate will benefit from dedicated funding to conduct the proposed research project. EA2106 is an English-speaking lab offering all facilities to achieve the goals of the current project (https://twitter.com/bbvea2106_tours; <https://www.facebook.com/pg/BBVEA2106/>). The laboratory is localized in Tours (1h from Paris) in the Loire Valley, a UNESCO world heritage site where diversity of wine styles is a key strength.

Candidates should hold a PhD in plant biology. A strong experience in metabolomics using mass spectrometry (LC-MS/MS) multivariate statistical analysis and phytochemistry is essential. Experience in plant cell culture would be appreciable.

Salary and duration: The grant covers twelve months of post-doctoral work, with a monthly net income of €2000. Please apply before August 26, 2019.

Applications must include a motivation letter, a CV including University grades, and contacts of 1-2 previous mentors. Please e-mail application as a single pdf document to: arnaud.lanoue@univ-tours.fr