

The laboratory of metabolomics, department for sustainable food process of the faculty of Food, Environment and Agriculture, is seeking two (possibly post-doc) research assistants. A call for public selection is being launched and will be made available soon at: <https://progetti.unicatt.it/progetti-ateneo-milano-brescia-piacenza-e-cremona-assegni-di-ricerca-legge-240-2010-art-22#content>

The position will include data production and elaboration, as well as writing of scientific papers. Upon availability, the research assistant will be asked to contribute to laboratory classroom (indicatively 30 h per year, no additional salary).

We are seeking for a background in food and agricultural chemistry and biochemistry and proactive candidates. The positions fall within projects funded at national level; the production of papers in ISI/WoS journals with good reputation, together with the generation of reliable scientific data, is a main goal.

The details of the projects (dealing with **foodomics** and **plant metabolomics**, respectively) are here below reported.

For more information you can contact prof Luigi Lucini at luigi.lucini@unicatt.it

RIFORM- PSR 2014-2020. DGR 2144/2018 misura 16.1.01 Focus Area 3A

Valorizing cheese typical productions from mountain regions through the correlation of MS-based metabolomics with sensorial properties

Position searched: 1 person, full time, 1 year (with possibility to extend to two years)

seat of work: Piacenza, Italy.

Project description:

The project aims to characterize the metabolomic profile of milk and cheeses produced in mountain areas, where the cows feeding regime include weeds, as compared to intensive farming. Moreover, the project include sensorial analyses with the aim to correlate metabolomic profile with desired sensorial attributes.

PRIN-2017-PHOBOS - Ministero dell'istruzione, dell'università e della ricerca, PRIN: Progetti di ricerca di Rilevante Interesse Nazionale

Use of Protein-Hydrolysates as BioStimulants of vegetable crops: elucidating their mode of action and optimizing their effectiveness through a multidisciplinary approach

Position searched: 1 person, full time, 1 year (with possibility to extend to three years)

seat of work: Piacenza, Italy.

Project description:

Application fractionation by dialysis and following high-resolution mass spectrometric metabolomics for characterizing the biostimulant activity of protein hydrolysates in horticultural crops. The trials will be carried out under optimal conditions as well as following multiple (nutritional x salinity) stresses, following outsourced phenomics screening.

Overall, the project targets the individuation of the most bioactive fractions as well as the definition of molecular and biochemical processes underlying biostimulant activity.