**Post-doctoral position (12 mo) in nutritional metabolomics at INRA, France**

The Human Nutrition Unit at INRA Clermont-Ferrand is seeking a postdoctoral fellow to work on the D-CogPLast project funded by the JPI Healthy Diet for Healthy Life. The project aims at identifying dietary modulators of cognitive ageing with a metabolomics discovery phase in humans then a validation of the findings in *in vitro* and animal models for brain plasticity, neuronal integrity and cognitive decline.

The post-doctoral fellow will use untargeted metabolomics based on high resolution mass spectrometry for a comprehensive exploration of nutritional exposure profiles in 200 individuals with accelerated cognitive decline over 13+ years against 200 individuals with preserved cognition (Three-city study). Particular attention will be given to metabolites of plant food bioactives (e.g. Mediterranean diet bioactives) in the metabolomic profiles. A set of dietary bioactives associated with slower cognitive decline will be further validated in 400 participants from a separate cohort. The post-doctoral fellow will be responsible for treatment and interpretation of metabolomics data. He (she) will use the most up-to-date tools and resources for the exploration of food-derived exposures using metabolomics, including those developed in our research unit (Phytohub, Workflow4metabolomics…). The post-doctoral fellow will interact closely with analysts and bioinformaticians of our metabolomic platform (member of the national infrastructure MetaboHub), and will benefit from the international scientific network of the Human Nutrition Unit around nutritional metabolomics and plant food bioactives (JPI HDHL FoodBAll project, COST Action POSITIVe, MetaboHub, NuGO, RFMF…).

**Candidate profile**

PhD in analytical chemistry, biochemistry, biology or nutrition.

Preference will be given to highly motivated candidates with research experience in nutritional metabolomics, or in mass spectrometry analysis and structure elucidation of small molecules. Knowledge on plant food bioactives will be appreciated.

**Gross salary**: 2600 €/month

Possibility upon selection on scientific excellence criteria to get a mobility allowance (1300€/month) with a contract extension (Agreenskills program: [www.agreenskills.eu](http://www.agreenskills.eu)).

**Application instructions**:

Qualified applicants are invited to send their application to Claudine Manach, [claudine.manach@clermont.inra.fr](mailto:claudine.manach@clermont.inra.fr) as a single pdf file containing a cover letter describing their research background and motivation, a detailed CV and at least 2 recommendation letters.

**Application deadline**: June 30, 2016

**Start Date**: Oct 1, 2016