We are looking for a **Postdoctoral researcher (f/m/d) – Nutritional/Food Metabolomics**

**Job description**

Plant-based diets are associated with reduced risks of various chronic diseases including cardiometabolic diseases. In order to better exploit the health potential of plant foods and their various phytochemicals, the EU-funded research project “Food phytochemicals matter for cardiometabolic health” (FoodPhyt) was launched (JPI, Joint Programming Initiative, A Healthy Diet for a Healthy Life). A crucial point for this is the accurate assessment of the consumption of plant foods and phytochemicals. Within FoodPhyt you will support the Institute for Safety and Quality of Fruit and Vegetables of the Max Rubner-Institut in Karlsruhe. Together with an interdisciplinary team, your task will be the identification of biomarkers for plant food consumption and to develop validated targeted analytical methods to estimate the intake of plant foods and the individual exposure to phytochemicals.

FoodPhyt offers a multifaceted program for Early Career Scientists including participation in international conferences and workshops, training schools, webinars and lab visits. As part of this program you will undertake an international mobility period by spending a few months in the lab of a project partner. The FoodPhyt consortium consists of 7 partners from Europe and Canada.

Your responsibilities/tasks in the project include:

- Compilation of literature data on potential biomarkers for the consumption of plant foods.
- Validation of biomarkers using existing metabolomics data from cohort and/or dietary intervention studies.
- Development and validation of targeted metabolite-profiling and untargeted metabolomics methods (GC-MS or LC-MS) for the analysis of biomarkers of plant food intake, as well as for the estimation of individual exposure to phytochemicals.
- Application and verification of the developed methods in proof-of-principle studies.
- Publication(s) in peer-reviewed journals, conference presentations (poster, oral) and project reports.

**Mandatory requirements:**

- PhD in metabolomics, biochemistry, food chemistry, analytical chemistry or related field.
- A good knowledge and practical experience about/with GC-MS and/or LC-MS systems.
- Demonstrated experience with metabolomics analysis, the software-supported processing and evaluation of the obtained data.
- The ability to work on scientific questions with a high degree of independence
- Very good written and verbal communication skills in English

**Job Vacancy 27**

09.04.2020
Preferable are:
- Sound knowledge on phytochemicals and biotransformation
- Good knowledge in (bio)statistics and experience in using biostatistical software (e.g. JMP)
- Knowledge and practical experience in the maintenance of GC-MS and/or LC-MS systems
- Knowledge and practical experience in structure elucidation by means of high-resolution mass spectrometry
- Basic skills in German

Aside from independent and responsible working methods, as well as the ability for inter and intra disciplinary collaboration, a high degree of motivation, personal commitment, team spirit and a willingness to cooperate with colleagues and other institutions are also required.

We are offering at the earliest possible date a temporary post limited until 31.12.2022 full or part-time position at the Karlsruhe location of the Max Rubner-Institut. The weekly working hours are presently 39 hours.

The employment contract is subject to the regulations of the Civil Service Collective Wage Agreement (TVöD-Bund). Payment of remuneration will be made according to pay grade 13 TVöD if personal and tariff requirements are fulfilled.

The Max Rubner-Institut is as a family-oriented employer and therefore welcomes applications of persons with family responsibilities. Flexible work hours and part-time models promote reconciliation of work and family life.

If you are interested, please send your complete and compelling application, preferably by e-mail in one pdf file, in particular with motivational letter, curriculum vitae, complete description of vocational and professional career as well as copies of certificates (school, university and qualified job references) indicating reference number 27 by 14.05.2020 to the central application unit of the Max Rubner-Institut.

E-Mail: karriere@mri.bund.de

Missing documents (particularly required certificates) can lead to the exclusion from the application process.

Please do not include original certificates with your written application, as application documents will not be returned to you.

The Max Rubner-Institut strives for the professional equality of women and men.

The Max Rubner-Institut is committed to inclusion. Applications of persons with severe disabilities are therefore explicitly encouraged and will be given priority in the selection process.

The position is generally suited for part-time work.

With foreign educational qualifications we are asking you to send us supporting documentation regarding the classification into the German educational system. Please obtain further information on the website of the Central Office for Foreign Education (ZAB) www.kmk.org/zab.

Our homepage www.mri.bund.de/de/karriere/stellenanzeigen offers information regarding the privacy policy of the staff appointment procedures of the Max Rubner-Institut.

Patrick Lange
Phone: +49-(0)431 /609 - 2212

Carina Mack
Prof. Dr. Sabine Kulling
Phone: +49-(0)721 / 6625 - 455
Phone: +49-(0)721 / 6625 - 500

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