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Institute for Reference Materials and Measurements

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Reference number: Cat. 30.1 D06-FSQ	
Research Project Title	Food metabolomics
Project Description	<p>The JRC's Institute for Reference Materials and Measurements (IRMM), in Geel, Belgium, is offering a position for a post-doctoral scientist in the area of metabolomics applied to food safety and food quality. The successful candidate is expected to contribute to scientific projects in the area of food authentication.</p> <p>The successful candidate will be responsible for developing sample preparation methods for the analysis of small-molecule biomarkers using UPLC-TOF-MS and GC-MS, and the operation and routine maintenance of instruments.</p> <p>The candidate shall develop biomarkers aiming to discriminate organically grown crops from conventionally grown ones. Two approaches will be taken in an attempt to find new markers of the origin of production systems in carrot roots: i) the first one is a global metabolomic finger printing technology and ii) the second one is a metabonomic study using biotic and abiotic priming agents.</p> <p>A PhD in the chemical/biological/ sciences is required, with proven experience in designing metabolomics/metabonomics experiments, in mass spectrometry, and in interpreting the resulting datasets using statistical tools. The expertise of the candidate shall be underpinned by a corresponding publication list. The candidate shall have a high degree of flexibility and the ability to work together with other scientists in an internationally-oriented research team. Experience with one or more of the following topics: plant metabolism, plant defence systems, biostatistics and bioinformatics is an advantage. The demanding nature of the research topic proposed requires the ability to solve problems and also act effectively as part of a research team. You will become part of a group working on food authentication within the JRC-IRMM, working with an enthusiastic multidisciplinary team of scientists and technicians. Good command of English is a prerequisite.</p>
Duration (min. 6 months-max. 36 months)	Up to 36 months
IRMM Contact	E-mail: jrc-irmm-fellows@ec.europa.eu
How to apply	<p>Please consult the job pages of the JRC-IRMM website for instructions to apply: http://irmm.jrc.ec.europa.eu/jobs. Note: only applications received using the form on the IRMM website will be considered.</p>