



RECRUITING ANNOUNCEMENT



Organization and Human resources Division
Human Resources Development Unit

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Job description		Selection code: 269_CRI_HNP
Type of post and number of positions vacant	N. 2 (two) permanent positions as Third level Researcher (R3) in the field of targeted and untargeted metabolomics, analysis of biofluids, applied to human nutrition projects.	
Organisational structure and manager for the position	Metabolomic Unit, Department of Food Quality and Nutrition, Research and Innovation Centre (CRI). Head: Urska Vrhovsek.	
Requirements necessary for participation	<ul style="list-style-type: none"> - Master of Science in: Chemical Sciences or in Health and Nutrition Biology or in Nutrition and Metabolism or in Nutrition and Health Sciences (or equivalent); - PhD in Analytical Chemistry or in Food and Nutrition or in Agricultural Science and Biotechnology or Biomolecular Sciences (or equivalent); - Knowledge of written and spoken English (minimum level B2), evaluated during the interview. 	
Job description	<p>The work will aim mainly to conduct research in the field of mass spectrometry applied to the study of nutritional biomarkers. It will involve conducting instrumental analysis and data analysis from samples collected during dietary intervention and observational studies. In particular the position will require the capability to develop and apply, with adequate autonomy, methods for the global analysis of the organic metabolites in biofluids, by mass spectrometry (MS-metabolomics). The successful candidate will be expected to develop and apply LC-MS based methods (in particular, LC-HR-MS/MS and triple quadrupole) and GC-MS for the identification and quantification of small molecules in matrices such as plasma, urine and feces. The successful candidate will contribute to data treatment, data analysis and interpretation, and to biomarker identification and validation via MS-experiments and database searches. They will also be responsible of the quality control of the data produced and of the data transfer towards public repositories, in an Open Data context. Knowledge of Bioinformatics and Biostatistics and/or documented experience with High Resolution High Accuracy Hybrid mass spectrometer, and/or Tandem Mass Spectrometer (triple quadrupole) is considered advantageous.</p>	
Duties / Tasks	<p>Duties will be, within publicly funded international projects and consortia, to perform experiments of untargeted and targeted metabolomics, record data and keep detailed and accurate records, perform the quality control of the data produced, interpret the fragmentation trees and annotate the metabolites, contribute to the improvement of the in-house data pipeline for experiments of metabolomics, data transfer to open repositories selected for the Projects, and to produce regular written reports on the results.</p>	
Keywords	Metabolomics, Mass Spectrometry, Human Nutrition, Biomarker identification, Data mining, Data interpretation, Data Sharing.	
Recruitment methods	By qualifications (maximum 30 points) and interview (maximum 70 points). The outcomes of the recruitment process will be based on the total points obtained as a result of qualifications and performance during the interview.	



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<p>Subjects covered in the interview</p>	<p>During the interview, which will be held in English, the knowledge in the following topics will be verified:</p> <ol style="list-style-type: none"> 1. Mass Spectrometry (up to maximum 15 points, threshold 11); 2. Strategies for the data analysis in the field of both targeted and untargeted metabolomics of biofluids (up to maximum 15 points, threshold 11); 3. Statistical modelling and interpretation of metabolomics data (up to maximum 12 points, threshold 8); 4. Strategies for the structural annotation of metabolites (up to maximum 13 points, threshold 9); 5. Safety in the chemical laboratory (up to maximum 10 points, threshold 4); 6. Knowledge of the activities and organization of Fondazione Edmund Mach (up to maximum 5 points). <p>The candidate must obtain a minimum mark at the interview of 50/70 Points.</p>
<p>Title evaluation and pre-selection criteria</p>	<p>On the basis of the information contained in the curricula or demonstrated by candidates, the best 10 applicants, based on the highest scores obtained following the criteria below, will be selected and admitted to the interview phase (maximum 30 point, threshold 8):</p> <ul style="list-style-type: none"> - Post-doc work experience (excluding the years of PhD) in the areas of metabolomics, analytical chemistry, data analysis, mass spectrometry with autonomous use of LC-MS instruments, documented experience in method development/validation and data mining and nutritional biochemistry in highly qualified research institutions or Universities (between 0.5 and 2 points for each year, depending on the relevance of the research activities, up to a maximum of 8 points); - Scientific publications in journals with IF (5 Year Impact Factor, please don't forget to add this info in the submitted cv) in the field of metabolomics, analytical chemistry, data analysis, mass spectrometry and nutritional biochemistry and to their applications to life sciences (between 0.5 and 2 points for each publication, depending on IF: 0.5 if IF<2; 1 if IF between 2 and 4; 1.5 if IF between 4 and 10; 2 if IF higher than 10; and up to a maximum of 18 points. Points doubled if first, last or corresponding author); - Documented knowledge of Bioinformatics and Biostatistics and/or documented experience in metabolomics with High Resolution High Accuracy Hybrid mass spectrometer, and/or Tandem Mass Spectrometer (triple quadrupole) (up to a maximum of 6 points).
<p>Knowledge of languages in the context of the Common European Framework of Reference for Languages (CEFR): level of knowledge and method of ascertainment</p>	<p>Knowledge of written and spoken scientific English will be verified (to be checked by an interview on a subject of a technical or scientific nature) at a minimum level corresponding to B2.</p> <p><i>To understand the levels of knowledge required consult the dedicated page at the EUROPASS site:</i></p> <p>https://europass.cedefop.europa.eu/it/resources/european-language-levels-cefr</p> <p>Knowledge of English, self-certified in the pre-selection process, will be checked during the interview, as specified above. If it is ascertained that the candidate</p>





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	does not have knowledge of scientific English corresponding with level B2, s/he will be excluded from the recruitment process.
Methods and deadlines for communication of the calendar and location to candidates admitted to the interview/test	Candidates admitted to the interview phase will be informed of the date and location via e-mail (NO PEC), sent to the contact address used to send the curriculum, at least 10 days before the interview date. The interviews will be held at the Fondazione E. Mach in San Michele all'Adige (TN).
Gross annual remuneration	Permanent employee contract "CCPL Fondazioni", Third level Researcher, yearly Euro 39.539,31 including 13° and 14° months.
Deadline for presentation of applications and deadline for the conclusion of the recruitment procedure	Applications must arrive by and no later than 23:59 (the date and time of receipt shown in the electronic mail account of the Foundation shall be valid) on December 15, 2019 . The recruitment procedure will terminate at the latest by June 15, 2020.
How to present applications	Applications to participate in the selection (professional curriculum vitae and other relevant documentation), must be sent in electronic format to the e-mail address (NO PEC) curricula@fmach.it , indicating the recruitment code in the object of the message (269_CRI_HNP – R3 permanent metabolomics). The work curriculum must be saved with file extension: Surname Name_CV.doc , or .pdf . In cases of access issues due to disability, please contact the following telephone number +39 0461 615542.
Proof of documentation in the event of hiring and relative deadlines	By at least 10 days before the date of hiring, the candidate must provide the following, on penalty of cancellation: <ul style="list-style-type: none"> - Master of Science certificate; - PhD certificate.
Results of the selection	The results of the selection will be communicated by: <ul style="list-style-type: none"> – Publication of the suitable candidate ranking on the webpage dedicated to the present recruiting, with the details of ranking order, family name, name and obtained points; – Communication to all candidates, suitable in the ranking and not suitable, at the end of the recruitment procedure individually via e-mail (NO PEC), sent to the contact address used to send the curriculum.
Categories covered by Law 68/99	Candidates are invited to state whether they belong to the categories recognised according to Law 68/99 and indicate this in the curriculum sent to participate in the recruitment process.
Current Welfare and benefit	<ol style="list-style-type: none"> 1. Family Audit certified company, with flexible working time and human resources management policy work-life conciliation oriented; 2. Access to the in-house canteen and cafeteria in San Michele all'Adige, card for meals out of the canteen available with the value of 6,00 Euro; 3. Bikesharing location and free car park within the campus in San Michele all'Adige and in the peripheral offices;

<p>FONDAZIONE EDMUND MACH</p>  <p>ISTITUTO AGRARIO DI SAN MICHELE ALL'ADIGE</p>	<h2>RECRUITING ANNOUNCEMENT</h2>	 <p>Page 4 of 4</p>
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	<ol style="list-style-type: none"> 4. Free Wi-Fi eduroam access (Education Roaming) in the campus building in San Michele all'Adige (90% coverage) and in other companies with GARR Wi-Fi service; 5. Employee discount for the purchase of the internal winery products; 6. Staff Social Club, with discount for members and promotions of sport-recreational activities; 7. Internal periodical market with agro-food products prepared by the Foundation high school students.
<p>Information about the processing of personal data</p>	<p>According to Article 13 of the EU General Data Protection Regulation 2016/679 ("GDPR" or "Regulation"), and in general in accordance with the principle of transparency foreseen in the same Regulation, the information regarding the processing of personal data is available in the webpage "Information about the processing of personal data".</p> <p>Please add the following phrase to your CV <u>otherwise your application will not be considered</u>: I have read and understood the information about the management of my personal data in accordance with the provisions of EU General Data Protection Regulation 2016/679.</p> <p>The Foundation reserves the right to request documentary proof of the qualifications listed by the candidate considered suitable for the post offered.</p> <p>The candidate takes full responsibility for all the information included in the application form and curriculum vitae. The Foundation reserves the right to request documentary proof of the qualifications listed by the candidate considered suitable for the post offered.</p>

Before carrying out the tests and/or evaluation interview, the candidate shall be identified and asked to complete a declaration, if this has not already been presented, stating:

- that he has the requirements indicated in the notice;
- that there are no reasons for incompatibility provided for by the law or linked to interests of any kind with reference to the scope of the employment;
- that he has no criminal convictions and is not subject to measures related to the application of prevention measures, civil decisions and administrative provisions registered in the criminal record;
- the truthfulness of the declarations made in the application/ curriculum and an undertaking to communicate any subsequent changes.

For any matters not covered by this recruitment notice, reference should be made to "[Regulations for the recruitment of human resources at the Fondazione Edmund Mach](#)".

The Director General
Ing. Mario Del Grosso Destreri