



| <b>Job offer</b>                             |  | <b>Vacancy Code 014_QAA_MQBC</b> |
|--|--|----------------------------------|
| Job title                                    | Research fellow in plant metabolomics  |                                  |
| Job description                              | Analytical work in the field of plant metabolomics   |                                  |
| Duties / Tasks                               | Implementation of sample preparation protocols for the high-throughput analytical platform and methodologies with the aim of validation of the new analytical platform by confrontation with the conventional metabolic analysis |                                  |
| Keywords                                     | Plant metabolomics, apple , grape, sample preparation, liquid chromatography, gas chromatography, mass spectrometry  |                                  |
| Contract type and length                     | Project contract, full time position of 12 months  |                                  |
| Languages knowledge                          | Fluent in English written and spoken   |                                  |
| IT knowledge                                 | Windows office software  |                                  |
| Required title to join the selection         | Five-years university degree   |                                  |
| Type of title (type of diploma, degree, PhD) | Five-years university degree in Chemistry, Industrial chemistry, Food technology, Pharmaceutical chemistry   |                                  |
| Required experience                          | Lab experiences in sample preparation and analytical chemistry, with solid technical background and practical experience in chromatographic techniques (HPLC, GC) and mass-spectrometry  |                                  |
| Starting month                               | January 2009   |                                  |
| Tutor  | Dr. Urska Vrhovsek   |                                  |



## HOW TO APPLY THE SELECTION **Cod. 014\_QAA\_MQBC**

### Application

To apply for the position the applicants should send an email, with the object **Cod. 014\_QAA\_MQBC**, to the account **risorseumane.centroricerca[AT]iasma.it**, with the following:

1. the filled application form 014\_QAA\_MQBC available online;
2. an up-to-date CV (please add the following phrase to your CV otherwise your application will not be considered: I consent to the use of my personal data in accordance with the provisions of decree 196/2003).

The deadline for the submission of the applications is **7<sup>th</sup> November 2008** – we will accept speculative applications after this date.

### Short list candidates

Short-listed candidates will be invited for interview in San Michele all'Adige (TN).

### Information about Edmund Mach Foundation

The Edmund Mach Foundation (FEM) was established in 2007 jointly by the Autonomous Province of Trento and the Agricultural Institute at San Michele all'Adige (IASMA). FEM will carry forward and expand the mission of IASMA (established in 1874) of sustaining Trentino's land-based economy through experimentation, education and technological transfer (advisory service). Additionally, the FEM is now establishing a **Research and Innovation Centre** that aims at playing an international leading role in research and innovation in three main research areas:

**A1) Genomics and Molecular Breeding of Fruit Crops.** A structural and translational genomics approach leading to the genetic improvement of fruit crops (apple, grapevine, soft fruit and strawberry). The programme will capitalise the sequencing at IASMA of the grapevine (cv Pinot noir) genome in 2007 and the sequencing of apple (cv Golden delicious) genome expected for 2008.

**A2) Food Quality and Natural Products Biotechnologies.** Metabolic profiling-based programme linking chemical phenotyping to genotyping of wildtype fruit and breeding populations. Characterization of fruit/derived microelements and bioactive compounds and their health impact at the molecular level and through a nutritional genomics approach..

**A3) Biodiversity and Biocomplexity of Alpine and Mountain Ecosystems.** Multidisciplinary and integrated studies of complex ecosystem interactions in the face of evolving antropic pressure and climate change. Ecological genomics and molecular evolution approaches to define the genetic bases of ecosystems resilience and sustainability.

ISTITUTO AGRARIO  
DI SAN MICHELE ALL'ADIGE

### Research Centre

The Centre will be equipped from the start with state of the art facilities in genomics, metabolomics, natural product biotechnology, and all the facilities needed to provide an unique environment for innovative research in fruit crops, agrifood and ecosystems. It will comprise approximately 300 staff with over 2000m<sup>2</sup> laboratories (including a residential facility with top quality laboratories at 1400 m for alpine ecological research) and over 30 ha of experimental fields. The Centre also hosts an international PhD School on Fruit Plant Molecular Physiology in collaboration with leading Italian and international Universities.

As part of this strategic drive, the Foundation is setting up a **metabolomics facility**. The laboratory is already equipped with gas chromatography-mass spectrometers (GC-TOF/MS and GC-MS/MS), ultrahigh-speed liquid chromatography-mass spectrometers (UPLC\_Q-TOF/MS and UPLC MS/MS), high-resolution (FTMS) spectrometer will be available in 2009, and already comprises seven full time researchers and technicians.

### Terms and conditions

The project contract will be 1.984,69.= Euro / months (gross for collaborator) for 12 months. The student will have the right for the lunch at the Foundation canteen for a reduced fee. Help will be provided to find accommodation.

### Equal opportunities

The position is open to both gender, Law n. 903, 9/12/1977, art. 1. The policy and practice of the Edmund Mach Foundation require that all staff are offered equal opportunities within employment.

### Data treatment

All data supplied by applicants will be used only for the purposes of determining their suitability for the post and will be held in accordance with the principles of the Personal Data Protection Code, [Legislative Decree no. 196 of 30 June 2003](#).