

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 is now establishing a Research and Innovation Centre that aims at playing an international leading role in the areas of: 1) Genomics and Molecular Breeding of Fruit Crops; 2) Food Quality and Natural Products Biotechnologies and 3) Biodiversity and Biocomplexity of Alpine and Mountain Ecosystems. The Centre will comprise 250 staff who will have access to 3000 m² laboratories and 30 ha of experimental fields. The laboratories will be equipped from the start with state of the art facilities in plant genomics (the Centre has recently completed sequencing of the grape and apple genomes), metabolomics, natural product biotechnology, environmental (including climate change) and ecological research. The Centre will also host an international PhD School on Fruit Plant Molecular Physiology, a joint venture with leading Italian and international Universities. The Research and Innovation Centre is now recruiting high calibre international level scientists to expand and drive forward its research programmes. This current recruitment campaign focuses on the areas of:

FONDAZIONE EDMUND MACH

ISTITUTO AGRARIO
DI SAN MICHELE ALL'ADIGE

COMPUTATIONAL BIOLOGY

Our newly established Computational Biology interdisciplinary Programme will interface with the Centre's genomics and post-genomics research programmes as well as enabling integrative biology approaches and stimulating the development of a systems biology programme. The programme will interact with the Centre's Research Areas as well as developing its own research projects in the fields of bioinformatics, mathematical and chemical modelling, and computational genomics. For this programme we are seeking:

1 Programme Leader (Ref. CB 1)

4 Research Fellows in:

- Comparative genomics (Ref. CB 2)
- Integrative post-genomics (Ref. CB 3)
- Microarray analysis and statistics (Ref. CB 4)
- Mathematical modelling (Ref. CB 5)

PLANT METABOLOMICS

Our Metabolomics Laboratory is 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) and a high-resolution (FTMS) spectrometer. We are now looking to expand the set of expertise and competence available of the laboratory through the recruitment of:

1 Group Leader (Ref. PM 1)

4 Research Fellows in:

- Primary and/or secondary plant metabolites (2 positions; Ref. PM 2)
- Computational chemistry (Ref. PM 3)
- Plant biochemistry (Ref. PM 4)

FRUIT NUTRITIONAL GENOMICS

The application of high-throughput chemical phenotyping (metabolic profiling) and genotyping approaches integrated with whole genome sequence (apple and grape) mining opens new and unexplored avenues for the characterisation of health-giving metabolites and the identification of the genetic bases of their production. To capture these opportunities we are establishing a research group seeking to identify bioactive components of the fruit matrix and to unveil diet-health relationships at the molecular level. For this new initiative we seek:

1 Group Leader (Ref. NG 1)

1 Research Fellow (Ref. NG 2)

FOOD QUALITY AND INNOVATION

Food quality and innovation is a primary area of research for the Centre, drawing from the extensive IASMA experience in sensorial analyses (including innovative PTRMS approaches), processing technologies, traceability and safety of food and beverages. This programme is now further evolving through the progressive integration of modern biological approaches and the newest platform technologies to provide knowledge-based solution to the industry. For this area we seek:

2 Research Fellows with an interest and

experience in:

- Sensory quality of food and consumer-product interaction process (Ref. FQ 1)
- Food technology (Ref. FQ 2)

All candidates will have a PhD and relevant research experience. For the more senior positions we require an international research track record, proven ability in attracting external funding and experience managing research groups. FEM is a non profit organization with a private legal status and can offer to prospective employees an innovative contract with highly competitive salary schemes (see website for more details). **There are relevant tax reductions (up to 75%) for researchers coming to work in Italy from abroad.** All positions are available immediately and will be for three years initially, with the possibility of extension and/or transformation into permanent positions.

The IASMA Research Center was judged in 2005 by an independent evaluation panel as the most competitive small/medium research Center for agriculture research in Italy. Trentino is recognised as one of the most attractive places to live in Europe, a Province of outstanding natural beauty and high quality of life.

Candidates are encouraged to submit via email in confidence a complete CV, publication list, names and addresses of three referees, statement of research interests and accomplishments to: RIC.recruiting@iasma.it quoting in the title the relevant reference number. For details of the Centre and further information visit: www.ric-recruiting.eu

Closing date for applications: 10th January 2009. Interviews will commence on 1st February 2009.

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