




Job Offer Announcement		Vacancy Code 118_CRI_ADME
Job title	Postdoc position on Arundo donax metabolic engineering for improved biomass production	
Job description	<p>A postdoc position is available in the Ecogenomics Research Group, Biodiversity and Molecular Ecology department of the Research and Innovation Centre. Arundo donax is a promising non model crop for biomass and bioethanol production from marginal lands in the Mediterranean area. The project aims at (1) the characterization of selected biosynthetic pathways for isoprenoids production, (2) the manipulation of Arundo donax volatile organic compound emissions, (3) the characterization of photosynthetic performance, secondary metabolism and stress tolerance.</p>	
Duties / Tasks	<ul style="list-style-type: none">• Preparation of constructs and their transformation in Arundo;• Characterization of Arundo and other high emitting species in terms of volatile organic compound production, photosynthetic performance and stress tolerance;• Reporting, dissemination of results, manuscript preparation;• Supervision of PhD students	
Keywords	Renewable energy; Metabolic engineering; genetic transformation; molecular biology; plant volatiles; biomass and bioethanol production; stress physiology;	
Contract type and length, Level	Project collaboration contract, 24 months (Contratto di collaborazione coordinata e continuativa a progetto)	
Languages knowledge <i>from Common European Framework of Reference for Languages (CEFR)</i>	Fluent in spoken and written English (C1)	
IT knowledge	Proficiency with software for the analysis of large volumes of data, in metabolome (volatile compounds) analyses is highly preferred. Data mining by homology searches, biosynthetic pathway analyses. Advanced expertise with MS Excel and Word.	
Required title to join the selection	PhD in biology, biotechnology, agriculture or corresponding.	
Required experience	Post-Doc (preferred at least 2 years of experience). Preference will be given to candidates with hands-on experience on physiological and molecular approaches for the modification of monocot plant metabolism. Experience with molecular biology skills (DNA extraction, PCR, cDNA synthesis, cloning) and monocot transformation are required. Basic knowledge about metabolic analyses and plant stress physiology is required. A hand on experience with metabolome data analysis is highly appreciated.	
Psychosocial skills	Ability to work in team and supervise PhD students. Good social, communication and reporting skills. Self-motivation and ability to carry out projects with limited supervision.	
Supervisor	Violeta Velikova, Claudio Varotto	

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Application

To apply for the position the applicants should send a message mentioning in the subject the recruiting code (**118_CRI_ADME**) to the email account **curricula@fmach.it** including 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**).

Save your file in this way: **Surname Name_cv.doc** or **.pdf**;

Deadline

The deadline for the submission of the applications is **February 28th, 2013**.

Short list candidates

FEM will short-list the applicants. We will notify the short-list candidates for an interview in San Michele or for a phone interview. The other candidates will be notified at the end of the recruiting procedure.

Information about CRI

The Research and Innovation Centre of the foundation (CRI), with more than 250 employees, has a mission to promote and enhance the Trentino land-based economy through studies and innovation that improve agricultural and environment products and enhance the quality and nutritional value of food products. It sustains the region's environmental resources through development and promotion of low-impact agricultural practices, study and preservation of biodiversity, and characterisation of alpine and subalpine ecosystems. The centre operates fully integrated research programs and state-of-the-art platform technologies to deliver innovative solutions and competitive products for our stakeholders and end-user communities.

Equal opportunities

The position is open to both genders, 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 position and will be held in accordance with the principles of the Personal Data Protection Code, Legislative Decree no. 196 of 30 June 2003. By sending the Cv and application, the candidate consent and authorize the Foundation to the use of his/her personal data.