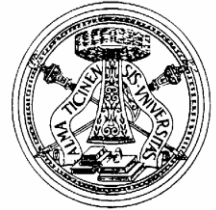




**fondazione  
c a r i p l o**



**Postdoctoral position  
University of Pavia**



## **Metabolic engineering in *B. subtilis***

A two-year position funded by FONDAZIONE CARIPLO is available for an experienced and highly motivated postdoctoral researcher to work on genetic engineering of *Bacillus subtilis*. The project aims at developing a *Bacillus* strain producing poly-gamma-glutamic acid ( $\gamma$ -PGA) by using agro-industrial waste as feedstock, following the Consolidated BioProcessing (CBP) concept. The CBP challenge is producing microbial strains in which cellulase secretion, cellulose hydrolysis and value-added biocommodities production are integrated into a single process.

You will start from a strain already optimized for  $\gamma$ -PGA production (BIOTECHNOL BIOENG, 2013, 110, 2006-12) and will focus on enhancing expression and secretion of appropriate cellulolytic enzymes through stable genetic modifications, introducing anchor domains to favor the auto-assembly of a cellulosome.

Ideally, you should have extensive and proven experience in recombinant DNA methods and in *Bacillus* genetics. Experience in bioinformatics and metabolic engineering in bacteria is desirable, but not essential.

The University of Pavia is one of the oldest universities in Europe, with a strong tradition in biological and medical research. The Dept. of Biology and Biotechnology (DBB) is a highly dynamic research environment covering many fundamental areas of life science including Genetics, Molecular Biology, Microbiology, Biochemistry, Cytology, Pharmacology, Physiology and Zoology. Be sure to provide your CV with the contact details of two referees and a motivation letter containing a brief summary of your research interests and major accomplishments.

Both informal enquiries and applications can be addressed to Dr Cinzia Calvio (e-mail: [cinzia.calvio@unipv.it](mailto:cinzia.calvio@unipv.it)), quoting "RIVARIO" in the subject of your mail.

This post is available from 2<sup>nd</sup> May 2016 for a period of two years.

Closing date: Friday, 11<sup>th</sup> March 2016