Recombinant protein production with prokaryotic and eukaryotic host cells: a comparative view on host physiology

Fact Sheet

Project Information

Grant agreement ID: HPCF-CT-2002-00081-01

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FP5-HUMAN POTENTIAL

Overall budget
€ 0

EU contribution
€ 0

Start date
14 November 2002

End date
16 November 2002

Coordinated by

Type of Event: Euro Conference

Italy

Objective

Recombinant DNA (rDNA) technologies (genetic, protein and metabolic engineering) allow the production of a wide range of peptides, proteins and bio-chemicals from naturally non producing cells. Pharmaceutical products and industrial enzymes were the first biotech-products on the world market made by means of rDNA. Another interesting class of heterologous expressed genes are those conferring new metabolic abilities to the host cells. Host cell physiology plays a key role in the production of recombinant proteins. Growth and nutrient utilisation, as well as key properties of the product, depend on the physiological characteristics of the host. Many of these features follow similar patterns in all important host organisms (mainly bacteria, yeasts, filamentous fungi, plant and animal cells): e.g. protein synthesis, folding and secretion, stress responses, by-product formation or genetic instability. According to the format of the first Conference ("Recombinant protein production with prokaryotic and eukaryotic cells. A comparative view on host physiology", Semmaring Austria, 2000), that treated the above issues in all major groups of host
Semmaring Austria, 2000), that treated the above issues in all major groups of host organisms, a Second International Conference on this subject will be organized at the Villa Erba Center in Cernobbio (Como), Italy, November 14th-16th, 2002. Also for this second Conference the main goal is to provide the framework in which to identify the major bottlenecks in the pipeline from gene to product from different hosts and to discuss future strategies to overcome these bottlenecks. Moreover, the Conference aims at further strengthening and enlarging the scientific and industrial network established at the first meeting. The Conference will be structured in special lectures, sessions with both invited lectures and contributed presentations, poster sessions and a scientific-technical exhibition.

A special session entitled: "Recombinant Protein Production in China" is also planned.

Programme(s)

Topic(s)

Funding Scheme

ACM - Preparatory, accompanying and support measures

Coordinator

Type of Event: Euro Conference

Address

This Event Takes Place In
Cernobbio (Como)

Italy

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