



United Nations Educational, Scientific and Cultural Organization
Organisation des Nations Unies pour l'Education, la Science et la Culture

ICRO INTERNATIONAL CELL RESEARCH ORGANIZATION

ORGANISATION INTERNATIONALE DE RECHERCHE SUR LA CELLULE

ICRO-UNESCO-EMBO International Course on Bioinformatics and Genome Data Analysis Centre of Biotechnology of Sfax Sfax, Tunisia March 24-April 02, 2005

Sponsors: International Cell Research Organization (ICRO-UNESCO)
International Centre for Genetic Engineering & Biotechnology (ICGEB)
European Molecular Biology Organization (EMBO)
Institut Pasteur de Paris, France
IUBMB, AUF

Objectives:

The objective of the course is to present fundamental algorithms used in sequence analysis and to give an overview on the current knowledge on genomes. Conferences will present the major discoveries from analysis of yeast, bacterial and higher eukaryote genomes (including human genome) as well as the most important bioinformatics methods. One third of the course time will be devoted to practical computer applications.

Organizing Committee:

Organizers:

Prof. Ahmed Rebai (Bioinformatics Unit, Centre de Biotechnologie de Sfax, Tunisia)
Prof. Hammadi Ayadi (Director, Centre de Biotechnologie de Sfax, Tunisia)
Fredj Tekaia (Institut Pasteur de Paris, France)

Advisers:

Prof. Marie-Paule Lefranc (University of Montpellier); Prof. Adnène Hammami (Faculty of Medicine of Sfax); Prof Sonia Abdelhak (Institut Pasteur de Tunis); Prof. Samir Jaoua (Centre de Biotechnologie de Sfax); Dr Hassen HadjKacem (University of Sfax); Mr Nacim Louhichi (University of Sfax); Mrs Imen Ayadi (Centre de Biotechnologie de Sfax); Mr Fakher Gaddour (Centre de Biotechnologie de Sfax).

Teaching staff:

Prof Bernard Dujon ; Prof Georges Cohen ; Philippe Glaser, Odile Kalogeropoulos ; Fredj Tekaia, Edouard Yeramian ; Michael Nilges (all from Institut Pasteur Paris) ; Prof Ahmed Rebai and Prof Hammadi Ayadi (Centre de Biotechnologie de Sfax); Prof Sonia Abdelhak and Dr Alia Benkahla (Institut Pasteur Tunis); Prof. Marie-Paule Lefranc (University of Montpellier, France); Prof Giorgio Bernardi (Stazione Zoologica Anton Dohrn, Naples, Italy).

Lectures:

Yeast genomes, Archaeal genomes, Bacterial genomes, Eukaryotic genomes, Human genome, Genome evolution, Bioinformatics, Data mining, Perl programming, Sequence comparison, Phylogeny, Motif discovery, Gene prediction, Genome comparison, Structural bioinformatics

Practicals:

Unix and Perl programming, Web resources, Sequence comparison: Blast/Fasta/Ssearch, Multiple alignment, Motif discovery, Genome alignment, Phylogeny and molecular evolution.

Language: English and French

Participation:

Number of students: 15 from all countries. Duration: 10 days.

The students will be selected on the basis of a curriculum, giving priority to the ability to follow the course and to exploit the acquired knowledge in their countries. Priority will also be given to students from developing countries; all students will be supported for their hotel accommodation and meals during the course.

Application:

Application should include:

- 1) a curriculum vitae with a list of publications, if any,
- 2) a letter stating the reasons for the interest in the course,
- 3) an application form (available under request to the contact person).

They should reach within December 31, 2004:

Prof. Ahmed Rebaï
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B.P. 'K', 3038
Sfax, Tunisia
Fax: +216.74.440.818

or as e-mail attachment at the following addresses: ahmed.rebai@cbs.rnrt.tn
or bioinformatics@cbs.rnrt.tn

Selection will be operated by the Organizing Committee without appeal, and will be communicated to all applicants within January 30, 2005.