FEBS Advanced Course

Advanced methods in macromolecular crystallization II

Location of the COURSE

Nové Hrady is located in the south of the Czech Republic.
The Academic and University Center (AUC) resides in a very stylish chateau, which provides many facilities such as three lecture halls, laboratories, apartments and a student dormitory.
Address of AUC: Zámeck 136, CZ-37333 Nové Hrady, Czech Republic

Organizing COMMITTEE

Ivana Kutá Smatanová, Ph.D.
Center of Biocatalysis and Biotransformation (CBB)
University of South Bohemia in České Budějovice
Institute of Physical Biology
Academy of Sciences of the Czech Republic,
Institute of Systems Biology and Ecology
Nové Hrady, Czech Republic
Phone: +420-608-106109
Fax: +420-386-361219
E-mail: ivanaks@seznam.cz
or: ivas@green.tech.cz

Prof. Rolf Hilgenfeld
Institute of Biochemistry, University of Lübeck
Lübeck, Germany

Pavla Réžáková, Ph.D.
Dep. Biochemistry, UT Southwestern Medical Center
Texas, USA

Important DATES

Date of the course: October 06-13, 2006
Deadline for applications: June 15, 2006

Speakers and Tutors

Juan Manuel García-Ruiz
Granada, Spain
Rolf Hilgenfeld
Lübeck, Germany
Jeroen Mesters
Lübeck, Germany
José A. Gavira
Granada, Spain
Thomas Klupsch
Jena, Germany
Lubomír Janda
Vienna, Austria
Ivana Kutá Smatanová
Nové Hrady, Czech Republic
Pavla Réžáková
Texas, USA
Rita Grandori
Milano, Italy
Lubica Urbaníková
Bratislava, Slovakia
Jannette Carey
Princeton, USA
Teresa Bergfors
Uppsala, Sweden
Richard Giegé
Strasbourg, France
Jan Drenth
Groningen, The Netherlands
Rainer Rudolph
Halle, Germany
Christian Betzel
Hamburg, Germany
Karsten Dierks
Hamburg, Germany
Jiri Brynda
Prague, Czech Republic
Martin Caffrey
Limerick, Ireland

Primary INFORMATION

The course is intended for undergraduate (5th year) and postgraduate students and postdocs with an interest in macromolecular crystallization.

The crystallization of biological macromolecules is still poorly understood and, as a consequence, success of the common trial-and-error experiments is not predictable. On the other hand, more rational approaches have been developed in the past few years and prospects for the science of crystalllogenesis are in fact good. Many of the new approaches are based on an improved theoretical insight into the processes of nucleation and crystal growth.

Experience shows that a majority of students tends to rather spend many months with trial-and-error experiments than choose the more demanding approaches involving determination of phase diagrams etc. The planned course is designed to help overcome this and to bring over the message of the benefits of more rational approaches to macromolecular crystallization. To achieve this goal, we have invited a number of prominent experts in the field as teachers and supervisors.

The course will consist of theoretical lectures (40%), seminars (10%) and practical work and demonstration (50%). For crystallization trials, typical recipes using commercial proteins will be used. In addition, students can bring their own proteins and carry out crystallization trials on these during the course.

A poster section is planned to encourage participants to present their own work.

More INFO and ON-LINE registration:
http://www.img.cas.cz/igm/cc/

Main SPONSOR

The FEBS course is funded by Federation of European Biochemical Societies.