ADVANCED METHODS IN MACROMOLECULAR CRYSTALLIZATION VI

The 1st joint FEBS-INSTRUCT crystallization course in the middle EU (FEBS PC12-023)

Academic and University Center at Nové Hrady, Czech Republic. JUNE 20 - 27, 2014

DATE OF THE COURSE
JUNE 20 - 27, 2014
APPLICATIONS DEADLINE
MARCH 31, 2014
REGISTRATION
http://febs-img.cas.cz

MAIN SPONSORS

ORGANIZING COMMITTEE

ASSOC. PROF. IVANA KUTÁ SMATANOVÁ
FACULTY OF SCIENCE UNIVERSITY OF SOUTH BOHEMIA ČESKÉ BUDĚJOVICE & INSTITUTE OF NANOBIOLOGY AND SYSTEMS BIOLOGY GORICAD CR, NOVE HRADY, CZECH REPUBLIC

DR. PAVLÍNA REŽÁCOVÁ
INSTITUTE OF ORGANIC CHEMISTRY AND BIOCHEMISTRY & INSTITUTE OF MOLECULAR GENETICS AS CR, PRAGUE, CZECH REPUBLIC

PROF. JUAN MANUEL GARCÍA-RUIZ
LABORATORIO DE ESTUDIOS CRYSTALLOGRÁFICO (LECI), INSTITUTO ANDALUZ DE CIENCIAS DE LA TIERRA (IACIT), GRANADA, SPAIN

SPEAKERS AND TUTORS

JEROEN MESTERS LUBECK, GERMANY
BERNHARD RUPP LIVERMORE, CA, USA
PETER G. VEKILOV HOUSTON, TX, USA
LATA GOVADA & SAHIR KHURSHID LONDON, UK
DAVID STUART OXFORD, UK
LUBOMIR JANDA BRNO, CZECH REPUBLIC
IVANA KUTÁ SMATANOVÁ NOVE HRADY, CZECH REPUBLIC
MARCI L. PUSEY HUNTSVILLE, USA
THERESE BERGQVIST UPPSALA, SWEDEN
PAVLINEA REZACOVA PRAHA, CZECH REPUBLIC
ESTELA PINEDA MOLINA GRANADA, SPAIN
PATRICK SHAW STEWART BERNSHIRE, UK
MARTIN CAFFREY DUBLIN, IRELAND
MONIKA BUDAYOVA-SPANI GRENOBLE, FRANCE
JAN DONALEK PRAGUE, CZECH REPUBLIC
JOE NG HUNTSVILLE, AL, USA
CLAUDE SAUTER STRASBOURG, FRANCE
CHRISTIAN BETZEL HAMBURG, GERMANY
JIŘÍ BRYNA PRAHA, CZECH REPUBLIC
JOSE A. GAVIRA GRANADA, SPAIN
RICHARD GIEGE STRASBOURG, FRANCE
NAOMI E. CHAYEN LONDON, UK
KARSTEN DIERKS LÜNEBURG, GERMANY
IVANA NEMCOVICOVÁ BRATISLAVA, SLOVAKIA
VERNON SMITH KARLSRUHE, GERMANY
EUBICA URBANIKOVÁ BRATISLAVA, SLOVAKIA
HOWARD EINSPARH LAWRENCE, NJ, USA
PETRA FROMME TEMPE, AZ, USA
JAN MANUEL GARCIA-RUIZ GRANADA, SPAIN

LOCATION

Nova Hrady is located in the south of the Czech Republic. The Academic and University Center resides in a very stylish chateau, which provides many facilities such as two lecture halls, laboratories and a student dormitory.

INFORMATION

The course is intended for undergraduate (5th year) and postgraduate students and postdocs with an interest in macromolecular crystallization. Number of participants is limited to 25. 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 crystallinogenesis are in fact good. Many of the new approaches are based on an improved theoretical insight into the processes of nucleation and crystal growth. The planned course is designed to bring over the message of the benefits of more rational approaches to macromolecular crystallization. The course will consist of theoretical lectures, seminars as well as practical work and demonstrations (lectures 40%, practical work 50%, seminars 10%). For crystallization experiments, typical recipes using commercial proteins (lysozyme, concavaline A, etc.) will be used. In addition, students can bring their own proteins and carry out crystallization trials on these during the course.