

INTERNATIONAL WORKSHOP

on

Macromolecular crystal growth and optimisation methods

*National Centre for Scientific Research "DEMOKRITOS"
Athens, GREECE*

31st October - 3rd November 2011

Tentative List of Speakers

Professor Naomi Chayen, *Professor of Biomedical Sciences, Imperial College London, United Kingdom. In charge for the E.U. "TOPCRYST" project for Imperial College*

Protein crystallization: practical aspects

Professor John R. Helliwell, *Professor of Structural Chemistry and Chair, School of Chemistry, University of Manchester, United Kingdom*

The lessons of diffraction resolution and the study of crustacyanin

Professor E. Eliopoulos, *Professor in Biochemistry, Dept of Agricultural Biotechnology, Agricultural University of Athens, Athens, Greece*

Bioinformatics as a tool for crystallisation of membrane proteins

Dr. Fabrice Gorrec, *Automation Crystallization Scientist, Structural Studies, MRC Laboratory of Molecular Biology, Cambridge, United Kingdom*

Robotics, procedures and innovations for macromolecular crystallisation

Dr. Demetres D. Leonidas, *Associate Professor of Biochemistry, Dept. of Biochemistry and Biotechnology, University of Thessaly, Greece.*

High-throughput structure based drug design:crystallisation

Dr. Irene Margiolaki, *Lecturer, Department of Biology, Section of Genetics, Cell Biology and Development, University of Patras, Greece and Visiting Scientist, European Synchrotron Radiation Facility (ESRF), Grenoble, France*

Macromolecular powder diffraction: current status and future prospects

Dr. Kyriacos Petratos, *Principal Researcher, Protein Structure & Function division, IMBB-FoRTH, Heraklion, Greece*

Experimental phasing of diffraction data

Dr. Roberto Steiner, *Randall Division of Cell and Molecular Biophysics Group Leader, King's College London, United Kingdom*

There's more than one way to skin a cat (and to crystallize proteins): simple alternative strategies that worked for us (hopefully for you as well)

Dr. Marcus Swann, *CChem, MRSC, Business Manager, Farfield Group Ltd, Manchester, United Kingdom. In charge for the E.U. "TOPCRYST" project for Farfield Group Ltd*

Characterising Biomolecular Assemblies using Dual Polarisation Interferometry

Dr. Emmanuel Saridakis, *Researcher, N.C.S.R. "Demokritos", Institute of physical Chemistry, Athens, Greece, Co-ordinator of the E.U. "TOPCRYST" Project*

Dual Polarisation Interferometry as a diagnostic tool for protein crystallisation

Professor S. Tzartos, *Professor of Immunobiology, dept of Pharmacy, University of Patras, Patras, Greece & Head of the Laboratory of Molecular Neurobiology and Immunology, Department of Biochemistry, Hellenic Pasteur Institute. Athens*

Membrane proteins: the paradigm of nicotinic acetylcholine receptors in muscle and nerve

Dr. S. E. Zographos, *Researcher, National Hellenic Research Foundation, Institute of Organic & Pharmaceutical Chemistry, 11635 Athens, Greece*

The purification of Proteins: Objectives and strategy, Choice of source, Purification methods (an overview of chromatographic methods), and protein purification examples

The Workshop will also comprise demonstrations of Dual Polarisation Interferometry, crystallisation setup methods and crystallisation robotics.

Lunch and some dinners will be provided.

Financial support will be available to the attendants.

Limited to 20 participants. Applications to be sent to:

Dr. Emmanuel Saridakis
Institute of Physical Chemistry, N.C.S.R. "Demokritos"
Athens 15310, Greece

esaridak@chem.demokritos.gr

fax: +30-210-6511766