ISBC International Doctoral Summer School 2019. Biological Crystallisation

- Página en construcción

GRANADA (SPAIN) MAY 26TH -31ST 2019

The whole series of ISBC and ISC are sponsored by the International Union of Crystallography (IUCr), The Spanish Ministry of Economy, Industry and Competitiveness, The University of Granada, The Specialized Group of Crystallography and Crystal Growth (GE3C) of the Spanish Royal Society of Chemistry and the Excellence Network or Crystallography and Crystallization “Factoria de Cristalización”.

Come to Granada and enjoy learning about Protein Crystallization including Large Crystals, Tiny Crystals, Complexes and Membrane Proteins.!!
More than 20 live practical demonstrations on crystal growth techniques!!

Get the most out of it within a friendly atmosphere by interacting with other students and 25 outstanding lecturers.!!

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- Website ISBC 2019

Fuente: https://escuelaposgrado.ugr.es/doctorado/escuelas/escuelasdeverano/2019/idss-2019/isbc_2019/index

International School on Biological Crystallization

The 'Laboratorio de Estudios Cristalográficos' is pleased to announce the

7th International School on Biological Crystallization (ISBC2019)
Granada, May 26th to 31th, 2019

The aim of the School is to introduce all participants into the fundamental knowledge about the behaviour of crystallizing solutions and their applications to the field of **biological crystallization,** including **large crystals for neutron diffraction and tiny crystals for XFEL or EM.**

One day will be fully devoted to case studies on the crystallization of **membrane proteins, viruses, large macromolecular complexes, and sample preparation for cryoEM.**

ISBC2019 is intended for postgraduate/postdoctoral students and research scientists from industrial and academic backgrounds

This School is sponsored by the IUCr and the GE3C

http://isbcgranada.org

International School on Biological Crystallization

School Topics

- Nucleation: Classical and non-classical approaches
- Crystal growth kinetics and mechanisms
- Properties of macromolecular solutions (DLS/SAXS)
- Screening: The search for crystallization conditions
- Crystallization techniques: Batch, Vapour and Counter Diffusion, MMS, How do they work?
- Crystallization and diffusion transport: gels, microfluidics and microgravity
- Crystallization of large crystals for Neutron diffraction
- *In vivo* crystallization of tiny crystals for XFEL
- Serial Crystallography
- Polymorphism in protein crystals
- Robotics and crystallization
- Membrane Protein Crystallization: Lipid cubic phase, bicelles and detergents
- Crystallization of Macromolecular Complexes
- Characterization by electron microscopy (EM)

Demonstration Fair

Practical training will be organised in our innovative and lively format.
A number of stands will simultaneously offer short practical sessions carried by specialists at scheduled times.

Arrange your own Practical Training!

ISBC 2019 is supported by the International Union of Crystallography

Invited Speakers

(This list is provisional, check the updated list on our webpage)

Bernhard Rupp, k. k. Hofkristallamt, USA
Terese Bergfors, Uppsala University, Sweden
Janet Newman, CSIRO, Australia
Martin Caffrey, Trinity College Dublin, Ireland
Petra Fromme, Arizona State University, USA
Juan Manuel García-Ruiz, IACT, CSIC-UGR, Spain
Jeroen Mesters, University of Lüebeck, Germany
Marc Pusey, iXpressGenes, Huntsville, USA
Howard Einspahr, IUCr Journal Comission, USA
José A. Gavira, IACT, CSIC-UGR, Spain
Hudel Luecke, University of Oslo, Norway
Naoko Mizuno, Max Planck Institute, Germany
Sergio Martínez, University of Granada, Spain
Ivana Kuta Smatanova, Univ. of South Bohemia, Czech Republic
Nadine Candoni, CINam-Marseille, France (tbc)
Claude Sauter, IBMC, CNRS, France
Christian Betzel, University of Hamburg, Germany
Fermin Otálora, IACT, CSIC-UGR, Spain
Guillermo Calero, University of Pittsburg, USA
Christian Biertümpfel, Max Planck Institute, Germany
Edward H. Snell, Hauptman-Woodward I., Buffalo, USA
May Marsh, SLS at Paul Scherrer Institut, Swiss
José Manuel Martín-García, Arizona State University, USA
Lata Govada, Imperial Collague, London, UK.
Jose D. Ng, University of Alabama in Huntsville, USA
Katsuo Tsukamoto, Osaka University, Japan
Monica Budayova-Spano, Université Grenoble Alpes, France
Crissy Tarver, University of Alabama in Huntsville, USA
Pavlína Řezáčová, Universiy of Prague, Czech Republic
Abel Moreno, Univ. Autónoma de México, México
Thomas Peat, CSIRO, Australia

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