



9-13/02/2015

University campus Bohunice

Course Code: C9532i

# WINTER SCHOOL ON STRUCTURAL CELL BIOLOGY

## Gerard Kleywegt

EMBL-EBI, UK

**PDBe - Bringing Structure to Biology (archival, integration and validation of molecular and cellular structure data)**

## Jose-Maria Carazo

National Center for Biotechnology (CNB), Spain

1. Single Particle Analysis (SPA): The basics
2. Image processing workflows for SPA

## Julio Ortiz

Max-Planck-Institute of Biochemistry, Germany

1. General introduction to three-dimensional cryo microscopy
2. Image processing workflows for tomography

## Sacha de Carlo

NeCEN, Netherlands

1. Sample preparation and vitrification
2. New EM technologies

## Richard Bowater

University of East Anglia, UK

1. Structure and function of nucleic acids
2. Protein-nucleic acid interactions

## Bernd Simon

EMBL, Heidelberg, Germany

**Combining Small Angle Scattering and NMR to determine the structure of complexes**

## Michael Sattler

Technische Universität München &amp; Helmholtz Zentrum München, Germany

**Combining NMR and SAS to study protein complexes in solution**

## Stephan Grzesiek

Biozentrum, University of Basel, Switzerland

**Insights into protein folding, dynamics and function from residual dipolar couplings, hydrogen bond scalar couplings and other NMR parameters**

## Laura Bowater

University of East Anglia, UK

1. Science Communication: past, present and future?
2. Science Communication: what does it mean for you?

## Martyn Winn

Science and Technology Facilities Council, UK

1. De novo protein modelling and its use in interpreting experimental structural data
2. Volume data from cryoEM and crystallography: fitting and building atomic models and matching against other volume data



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Course is preferably for master and PhD students and the student's field of study will be taken into account during the selection process.

