



*“Potentiating the Italian Capacity for Structural Biology Services in Instruct-ERIC”*

*(National Recovery and Resilience Plan, Strengthening and creation of Research Infrastructures – Mission 4 – Investment line 3.1)*

<https://www.itaca-sb.it/>

## Webinar series calendar

[https://edu.meet.garr.it/itaca\\_webinar](https://edu.meet.garr.it/itaca_webinar)

### October 16<sup>th</sup> 2024, 15.00-16.00

Glycoproteins and in-cell NMR

Chair: Marco Fragai (University of Florence, Italy)

Speaker 1: Alba Silipo (University of Naples, Italy)

Title: *Carbohydrates as keywords in the molecular dialogue*

Speaker 2: Enrico Luchinat (University of Florence, Italy)

Title: *“Detecting protein-drug interactions in human cells by real-time <sup>19</sup>F NMR”*

### November 13<sup>th</sup> 2024, 15.00-16.00

Integrated approaches to study intrinsically disordered proteins

Chair: Isabella Felli (University of Florence, Italy)

Speaker 1: Michael Assfalg (University of Verona, Italy)

Title: *“The impact of ubiquitination on the conformational properties of tau protein in solution”*

Speaker 2: Marco Schiavina (University of Florence, Italy)

Title: *“Exploring the structural and dynamic landscape of IDPs and multidomain proteins using direct <sup>13</sup>C NMR”*

### December 9<sup>th</sup> 2024, 16.30-17.30

SAXS & other low resolution techniques

Chair: Enrico Ravera (University of Florence, Italy)

Speaker 1: Dina Schneidman (The Hebrew University of Jerusalem, Israel)

Title: *“Modeling large macromolecular assemblies in the age of deep learning”*

Speaker 2: Fabio Baroni (Merck Group, Guidonia, Italy)

Title: *“Development of high-resolution biophysical methods for the structural characterization of biologics under the Quality by Design paradigm”*

### January 15<sup>th</sup> 2025, 15.00-16.00

Macromolecular complexes

Chair: Roberta Pierattelli (University of Florence, Italy)

Speaker 1: Francesco Berti (GSK Vaccines, Siena, Italy)

Title: *"Recent advancements in the glycoconjugate vaccines field"*

Speaker 2: Linda Cerofolini (University of Florence, Italy)

Title: *Selectivity in target recognition by full-length clinically approved monoclonal antibodies*

### February 12<sup>th</sup> 2025, 15.00-16.00

Computational approaches

Chair: Antonio Rosato (University of Florence, Italy)

Speaker 1: Robbie Joosten (Netherlands Cancer Institute, The Netherlands)

Title: *"PDB-REDO et al.: online resources for your structural biology research"*

Speaker 2: Paolo Carloni (Forschungszentrum Jülich GmbH, Germany)

Title: *"In silico drug design in the exascale era: a perspective from Juelich"*

### March 12<sup>th</sup> 2025, 15.00-16.00

Challenging metalloproteins

Chair: Lucia Banci (University of Florence, Italy)

Speaker 1: Nick Le Brun (University of East Anglia, UK)

Title: *"Iron-sulfur cluster proteins as sensor -regulators of environmental change"*

Speaker 2: Leonardo Querci (University of Florence, Italy)

Title: *"Shedding light on the electron delocalization pathway at the  $[Fe_2S_2]^{2+}$  cluster of FDX2"*

Organizing committee

Isabella Felli, Marco Fragai, Enrico Ravera and Antonio Rosato

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