

GRUPPO PROTEINE SIB

PROGRAM "PROTEINE 2016"

University of Bologna, Bologna, Italy

March, 30, 2016

14.30-15.00 Welcome

Session I: *Deciphering complex biological processes by structural biology*, Chair: Giuseppe Zanotti and Menico Rizzi.

In collaboration with the Italian Crystallography Association.

15.00-15.40 *Andrea Musacchio*, Max Plank Institut, Munich, Germany.

Molecular mechanisms in chromosome segregation

15.40-16.10: *Federico Forneris*, University of Pavia, Pavia, Italy

Title to be defined

16.10-16.40: *Rita Berisio*, University of Naples, Naples, Italy

Molecular determinants of infectious diseases: protein structures at the service of biology

16.40-17.10 Coffee break

17.10-17.40: *Giulia Zanetti*, Birbeck University of London, London, UK

Cryo-EM structure of the F/R1 plasmid relaxase

17.40-18.10: presentations selected from abstracts

March 31, 2016

Session II: *Models of Biological Complexity*, Chair: Rita Casadio and Pier Luigi Martelli. In collaboration with the SIB Group of Computational Biology and Systems

9.00 -9.40 : *Christine Orengo*, University College of London, UK

A Structural Perspective on Protein Evolution

9.40-10.10: *Salvador Ventura*, Universitat Autònoma de Barcelona, Spain

What makes a sequence prionic?

10.10-10.30: Coffee break

10.30-11.00: *Silvio Tosatto*, University of Padua, Italy

Repeat proteins in human disease

11.00-11.30: *Lilia Alberghina*, Director of SYSBIO, Centre of Systems Biology, Milan, Italy

Multisite phosphorylation of Whi5 as a timing device in cell cycle control

11.30-12.00: *Matteo Barberis*, University of Amsterdam, The Netherlands

Deciphering design principles of dynamic cell cycle control

12.00-12.30: presentations selected from abstracts

Poster session

Session III: Cell Complexity of Diseases, Chair: Franca Esposito and Paola Chiarugi

15.00-15.40: *Ruggero De Maria*, Istituto Nazionale Tumori Regina Elena, Rome, Italy

Targeting cancer stem cell pathways in solid tumors

15.40-16.00: *Stefano Indraccolo*, Istituto Oncologico Veneto, Padova, Italy

Glycolysis-associated proteins involved in tumor adaptation to anti-VEGF therapy

16.00-16.30: Coffee break

16.30-16.50: *Nazzareno Capitanio*, University of Foggia, Foggia, Italy

HCV infection and mitochondrial bioenergetic unbalance: causes and effects

16.50-17.10: *Ferdinando Chiaradonna*, University Bicocca-Milan, Milan, Italy

Molecular links between nutrient stress and cell death: targeting cell metabolism for cancer therapy

17.10-17.40: presentations selected from abstracts

April 1, 2016

Session IV: New Approaches in Protein Sciences, Chair: Loredano Pollegioni and Marco Moracci

9.00-9.40: **Bernd Nidetzky**, Technische Universität Graz, Graz, Austria

Protein and process science integrated: the development of enzymes to advance their industrial applications

9.40-10.00: **Gabriella Fiorentino**, University of Naples, Naples, Italy

Thermophilic arsenic binding proteins: characterization and exploitation as biosensors

10.00-10.20: **Gianluca Molla**, University of Insubria, Varese; Italy

L-Amino acid deaminase: a novel flavoprotein for biocatalysis

10.20-10.50. Coffee break

10.50-11.10: **Barbara Pioselli**, Chiesi Pharmaceuticals, Parma, Italy

On the role of biological mass spectrometry in drug discovery

11.10-11.40: presentations selected from abstracts

11.40 *Conclusions*