



British Embassy  
Rome

## **BIO&MEDICAL SCIENCES WITH NEW LIGHT SOURCES**

**Rome, 12-13 March 2009**  
**Villa Wolkonsky, Via Ludovico di Savoia**

### **PROGRAMME**

#### **12 MARCH**

**10:30 Registration and Welcome Coffee**

**11:00 Welcome Address** - Edward Chaplin, *British Ambassador to Italy*

**11.10 Introductory Remarks - Chair: Luigi Palumbo**, *University of Rome La Sapienza and National Institute of Nuclear Physics, Italy*

Ferruccio Fazio  
*Undersecretary of State, Ministry of Welfare, Health and Labour*

Renato Lauro  
*Dean, University of Rome Tor Vergata (to be confirmed)*

Roberto Petronzio  
*President, National Institute of Nuclear Physics, Italy*

**11:30 Plenary Session - Chair: Peter Weightman**, *University of Liverpool*

11:30 Sine Larsen, *European Synchrotron Radiation Facility, Grenoble*  
ESRF Present and Future

12:00 Massimo Ferrario, *National Institute of Nuclear Physics, Italy*  
FELs and Initiatives in Italy

12:30 Jon Marangos, *Science and Technology Facilities Council, UK*  
NLS Project

**13:00 Lunch**





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**14:30 Plenary Session - Chair: Maurizio Brunori, *University La Sapienza, Rome***

14:30 Janos Hajdu, *Biomedical Centre, Uppsala*  
Ultra-fast Diffraction Imaging in Biology

15:00 Martino Bolognesi, *University of Milan*  
Protein Structural Biology: Current Views and Trends for High-Throughput Research

15:30 Paul O'Shea, *University of Nottingham*  
Pump-Probe Investigations of Membrane Structures and Dynamics Using Advanced Light Sources

**16:00 Coffee Break**

**16:30 Plenary Session - Chair: Silvia Onesti, *Elettra Synchrotron, Trieste***

16:30 Alberto Bravin, *European Synchrotron Radiation Facility, Grenoble*  
Synchrotron Radiation: an Extraordinary Tool for Biomedical Imaging and Radiotherapy

17:00 Charles Duyckaerts, *La Salpetrie Hospital, Paris*  
Alzheimer Pathology: in Quest of New Research Tools

**18:30 Welcome Cocktail at Villa Wolkonsky**

**13 MARCH**

**9:00-12:30 Working Groups**

**WG1: Bio-Crystallography - Chair: Sine Larsen, *European Synchrotron Radiation Facility, Grenoble***

Gebhard Schertler, *MRC Laboratory of Molecular Biology, Cambridge*  
Microcrystallography: the Future of Protein Crystallography

Piet Gros, *University of Utrecht*  
Complex Structures of the Complement Immune System





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**WG2: Bio-Science - Chair: Louise Johnson, Diamond Light Source and University of Oxford**

Giuliano Siligardi, *Diamond Light Source, Chilton*  
Applications and Challenges of Synchrotron Radiation Circular Dichroism and NLS  
Techniques to Biological and Biomedical Sciences

Peter Cloetens, *European Synchrotron Radiation Facility, Grenoble*  
Towards Multi-Modal Nanoscale X-Ray Imaging for Biological Sciences

Gianfelice Cinque, *Diamond Light Source, Chilton*  
IR Spectroscopy at Diamond and 2D IR Spectroscopy for NLS

**WG3: Medical Science - Chair: Massimo Masserini, University of Milan Bicocca**

Massimo Masserini, *University of Milan Bicocca*  
Nanomedicine

Cristina Messa, *University of Milan Bicocca*  
Diagnostic Imaging in Biomedical Sciences: Limits and Future Perspectives

Diego Dreossi, *Elettra Synchrotron, Trieste*  
Biomedical Application of Synchrotron Light at the SYRMEP Beamline

Luca Serafini, *National Institute of Nuclear Physics, Italy*  
Medical Applications of Thomson X-Ray Sources

**12:30 Lunch**

**13:30-15:30 Round Up - Chair: Giuseppe Zanotti, University of Padova**

