



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

