2nd CYCLON SUMMER SCHOOL

Photochemistry and Applications in Photoactivable Anticancer Drugs

Bologna, September 26 – 28, 2011

VENUE: Bologna, CNR Area della Ricerca
Via Piero Gobetti 101, Centro Congressi, Room 216

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Monday, September 26

8:30 - 8:45 **OPENING**

8:45 - 9:45 Excited state properties and deactivation

P. Ceroni (Bologna University)

9:45 - 11:00 Absorption and emission spectroscopy

B. Ventura (ISOF-CNR)

11:00 - 11:30 Coffee break

11:30 - 12:30 Time-resolved emission

S. Monti (ISOF-CNR)

12:30 - 13:30 Time-resolved absorption

S. Monti (ISOF-CNR)

13:30 - 14:45 Lunch

14:45 - 15:45 Absorption and emission spectroscopy with polarized light

A. Credi (Bologna University)

15:45 - 16:45 Laser-induced optoacustic spectroscopy

S. Nonell (Barcelona University)

16:45 - 17:15 Coffee break

17:15 - 18:15 Photochemical techniques

A. Barbieri (ISOF-CNR)

Tuesday, September 27

9:00 - 10:00 Energy transfer

F. Scandola (Ferrara University)

10:00 - 11:00 Electron transfer

F. Scandola (Ferrara University)

11:00 - 11:30 Coffee break

11:30 - 12:45 Principles and applications of fluorescence microscopy

G. Cozzi (NIKON-Italy)

12:45 - 13:15 Laser scanning confocal fluorescence microscopy: FLIM

I. Manet (ISOF-CNR)

13:30 - 14:30 Lunch

14:30 - 15:30 Laser scanning confocal fluorescence microscopy: FCS

I. Manet (ISOF-CNR)

15:30 - 16:30 Photodiagnostics

L. Prodi (Bologna University)

16:30 - 17:00 Coffee break

17:00 - 18:00 Generation and decay of singlet oxygen

A. Mazzaglia (ISMN-CNR)

Wednesday, September 28

8:30 - 9:30 Photosensitizers for PhotoDynamic Therapy (PDT)

A. Mazzaglia (ISMN-CNR)

9.30 - 10.30 Photosensitizer/Carrier systems and applications in PDT ***A. Mazzaglia (ISMN-CNR)***

10:30 - 11:00 Coffee break

11:00 - 12:00 PDT: from vampire folklore to a modern clinical anti-cancer modality

T. Theodossiou (NCSR Demokritos, Athens)

12:00 - 13:00 Photoalkylating Agents and their interaction with biomolecules. I

A. Albini (Pavia University)

13:30 - 14:30 Lunch

14:30 - 15:30 Photoalkylating Agents and their interaction with biomolecules. II

A. Albini (Pavia University)

15:30 - 16:30 Nitric oxide photodelivering molecular assemblies

S. Sortino (Catania University)

16:30 - 17:00 Coffee break

17:00 - 18:00 Photoactivable metal-based nanoparticles in anticancer therapy

S. Sortino (Catania University)

END OF SCHOOL