



## ISN International School *Lipidomics in the nervous system cells*

Acitrezza (Italy), May 17th to 21st, 2010



The event will be hosted at the Hotel "Faraglioni", Acitrezza, nearby Catania, Italy ([www.grandhotelfaraglioni.com](http://www.grandhotelfaraglioni.com)), the week before the 4th ISN Special Neurochemistry Conference, 22-26 May, Erice (Italy). It is the first school dedicated to the topic "cellular lipidomics" which defines and introduces the field before developing deeply into the methods, processes, analyses, and research aspects. The main mission of the School is to present the state-of-the-art and future perspectives for lipidomics applied to the analyses and metabolism of nervous system tissue and cells. The School lectures uncover the biosynthesis, metabolism, and function of glycerophospholipids, sphingolipids, and lipids that complex with proteins. It will be a great opportunity for bringing together worldwide undergraduate and graduate students, young scientists, post-graduate trainees and clinicians, interested in interdisciplinary neurochemical topics, in a friendly atmosphere for reciprocal benefits in terms of enthusiasm, knowledge and new ideas. We welcome to an unique trans-institutional training program in "neurolipidomics" focused on identifying and reversing pathogenic global and regional changes in CNS lipid metabolism that render our brain vulnerable to neurodegenerative diseases. The Faculty will elaborate upon cutting-edge approaches to lipid analysis and diagnostic approaches using lipids involved with the signaling pathway. A max number of 20 students will be allowed. The registration is free, and includes lodging in double room, meals, social events and transfer airport-Catania-airport. Arrival May 16 th before 5 p.m., departure May 22nd before 10 a.m. The deadline for the registration of School attendees is April 30th, 2010. Details and updating at the ISN Web site.

### Directors of the School

Mario Alberghina  
University of Catania  
Medical School  
Department of Biochemistry &  
Molecular Biology  
Viale Andrea Doria, 6  
95125 Catania, Italy  
+39-95-7384070  
+39-95-7384220  
[malber@unict.it](mailto:malber@unict.it)

Sandro Sonnino  
Department of Medical Chemistry,  
Biochemistry and Biotechnology  
University of Milano  
Medical School  
Via Fratelli Cervi 93  
20090 Segrate (Milano), Italy  
+39-02-50330360  
+39-02-50330365  
[sandro.sonnino@unimi.it](mailto:sandro.sonnino@unimi.it)

Alessandro Prinetti  
Department of Medical Chemistry,  
Biochemistry and Biotechnology  
University of Milano  
Medical School  
Via Fratelli Cervi 93  
20090 Segrate (Milano), Italy  
+39-02-50330376  
+39-02-50330365  
[alessandro.prinetti@unimi.it](mailto:alessandro.prinetti@unimi.it)

### Topics

### Speakers

Phospholipase A <sub>2</sub> , lipidomic approach	Jesùs Balsinde
Phospholipase A <sub>2</sub>	Christina C. Leslie
Phospholipase A <sub>2</sub> translocation	Vas Ponnambalam
Membrane lipids in CNS and phospholipase A <sub>2</sub>	Grace Y. Sun
Oligodendrocytes and myelin	Joan M. Boggs
Immunoelectronmicroscopy of glycolipids	Toyoshi Fujimoto
Imaging lipid rafts, probes and confocal microscopy	Toshihide Kobayashi
Lipid domains and rafts, FRET	Manuel Prieto
Gangliosides; membrane glycolipids in stem cells	Robert K. Yu
Cellular biology of membrane sphingolipid biosynthesis	Yoshio Hirabayashi
Ceramide signaling and sphingolipid storage diseases	Antony H. Futerman
Gangliosides and inflammation	Koichi Furukawa
Enzymology / glycosphingolipid metabolism	Alessandro Prinetti

Scientific Secretary  
Mario Alberghina, University of Catania (Italy)  
E-mail: [malber@unict.it](mailto:malber@unict.it)  
Phone: +39 0957384070  
Fax: +39 0957384220

Also sponsored by

Faculty of Medicine,  
University of Catania

