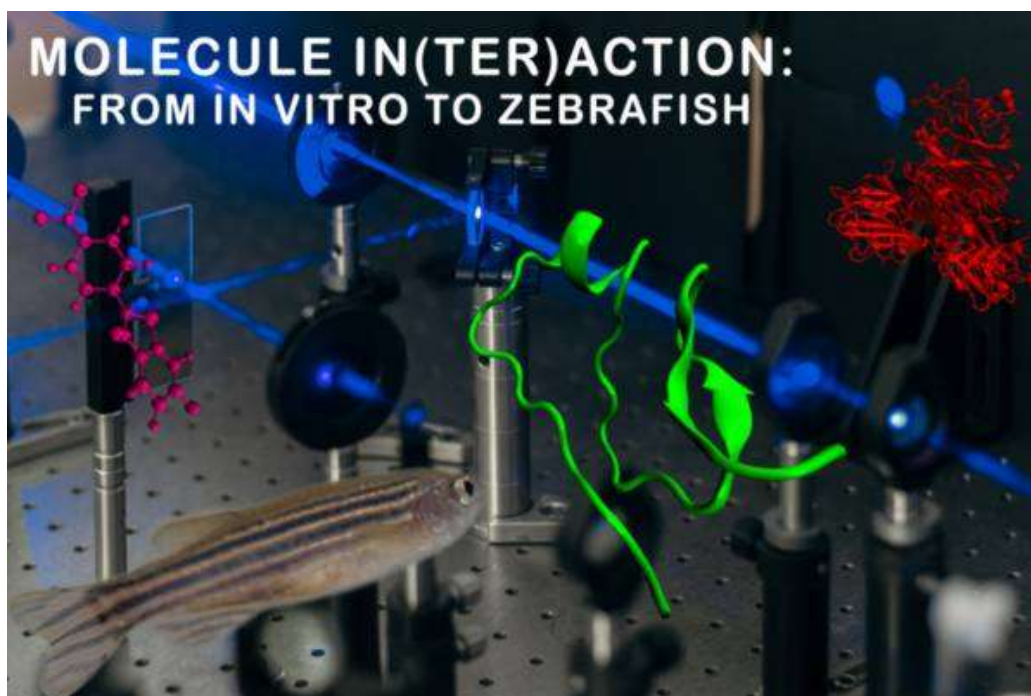




UNIVERSITÀ  
DEGLI STUDI  
DI PALERMO



## Training School 2018

*Palermo, 6 - 9 February 2018*



# Program

Day 1 - Tuesday, Febr 6th	
10:30	<b>Registration and Welcome Address</b>  <u>Maurizio Leone</u> University of Palermo, Dept. of Physics and Chemistry & ATeN Center/CHAB
11:30	<u>Vincenzo Cavalieri</u> University of Palermo, Dept. of Biological, Chemical and Pharmaceutical Sciences and Technologies & ATeN Center/CHAB
12:30	<b>TOPIC: Introduction to the Zebrafish model</b> <u>Valeria Vetri</u> University of Palermo, Dept. of Physics and Chemistry & ATeN Center/CHAB  <b>TOPIC: Fluorescence Microscopy methods to study molecular interactions in live cells.</b>
13:30	<b>Lunch with teachers</b>
15:00	<b>Practical Session</b> Zebrafish Lab.
17:00-19:00	<b>Practical Sessions (Students divided in small groups will perform experiment trials in the following labs)</b> Pulsed EPR, Confocal Microscopy, NMR, Ultrafast Spectroscopy, Atomic Force Microscopy, Raman Microscopy, Nanotechnologies and Molecular Devices

## Day 2 - Wednesday, Febr 7th

10:30

Kleitos Sokratous

Cyprus Institute of Neurology & Genetics Dean, The Cyprus School of Molecular Medicine.

**TOPIC: mass spectrometry based proteomics to study protein-protein interactions**

11:30

Alberto Boffi

Center for Life Nano Science, University La Sapienza, Istituto Italiano di Tecnologia, Roma

**TOPIC: engineered proteins for drug delivery**

12:30

**TOPIC: Spectroscopic methods for protein-protein interaction**

13:30

**Lunch with teachers**

15:00

**Practical Session**

*Zebrafish Lab.*

17:00-19:00

**Practical Session (Students divided in small groups will perform experiments trials in the following labs)**

*Pulsed EPR, Confocal Microscopy, NMR, Ultrafast Spectroscopy, Atomic Force Microscopy, Raman Microscopy, Nanotechnologies and Molecular Devices*

## Day 3- Thursday, Febr 8th

10:30

Claudio M. Gomes

Department Chemistry and Biochemistry, FCUL Faculdade Ciências Universidade de Lisboa, Biosystems & Integrative Sciences Institute

**TOPIC: 'Biophysics of amyloid formation'.**

11:30

Claudio Canale

Nanoscopy, Istituto italiano di Tecnologia, Genova

**TOPIC: Cellular level nanomanipulation using atomic force microscope aided with superresolution imaging**

12:30

Francesco Argenton

Department of Biology, University of Padua, Italy

**TOPIC: "Zebrafish Signaling Reporters: production and analysis"**

13:30

**Lunch with teachers**

15:00

**Practical Session**

*Zebrafish Lab.*

17:00-19:00

**Practical Session (Students divided in small groups will perform experiments trials in the following labs)**

*Pulsed EPR, Confocal Microscopy, NMR, Ultrafast Spectroscopy, Atomic Force Microscopy, Raman Microscopy, Nanotechnologies and Molecular Devices*

#### Day 4- Friday, Febr 9th

10:30

Giorgio Schirò

Institut de Biologie Structurale, IBS, Univ. Grenoble Alpes CNRS, Grenoble France

**TOPIC: Ultrafast structural dynamics of proteins by X-FEL**

11:30

Ludovico Silvestri

European Laboratory for Non-Linear Spectroscopy (LENS), Firenze - Italy

**Advanced light sheet microscopy to investigate brain structure and function.**

12:30

Bruno Pignataro\*

University of Palermo, Dept. of Physics and Chemistry & ATeN Center/CHAB

**TOPIC: Lab-on-a-chip: miniaturized systems for biotechnologies**

13:00

Fabrizio Messina\*

University of Palermo, Dept. of Physics and Chemistry & ATeN Center/CHAB

**TOPIC: Probing electronic molecular dynamics with femtosecond optical spectroscopies**

13:30

**Lunch with teachers**

15:00

**Practical Session**

*Zebrafish Lab.*

17:00-19:00

**Practical Session (Students divided in small groups will perform experiments trials in the following labs)**

*Pulsed EPR, Confocal Microscopy, NMR, Ultrafast Spectroscopy, Atomic Force Microscopy, Raman Microscopy, Nanotechnologies and Molecular Devices*