



Training School COST Action NAMABIO MP1005

2nd Course

From nano- to macro- biomaterials (design, processing, characterization, modelling) and applications to stem cells regenerative orthopaedic and dental medicine”

8 – 11 April 2013, Hotel Internazionale – Portonovo, Ancona (Italy)

PROGRAM



Director of the Course
Prof. Franco Rustichelli, Action Chair
Polytechnic University of Marche, Ancona, Italy

Monday – 8 April, 2013

09.00-09.30	REGISTRATION OF THE PARTICIPANTS
09.30-11.00	Students presentations
11.00-11.30	<i>pause</i>
11.30-13.00	Students presentation
13.00	<i>lunch</i>

- 15.00-16.30 **Students presentation**
- 16.30-17.00 *pause*
- 17.00-18.00 **Students presentation**

Tuesday – 9 April, 2013

- 09.15-09.30 **F. RUSTICHELLI** - (Polytechnic University of Marche- Italy)
Introductory Remarks and presentation of the School
- 09.30-11.00 **E. AMLER** - (Institute of Experimental Medicine, Prague, Czech Republic)
Functionalized nanofibers as controlled drug delivery systems in tissue engineering and regenerative medicine I
- 11.00-11.30 *pause*
- 11.30-13.00 **E. AMLER** - (Institute of Experimental Medicine, Prague, Czech Republic)
Functionalized nanofibers as controlled drug delivery systems in tissue engineering and regenerative medicine II
- 13.00 *lunch*
- 15.00-16.00 **G. CEMPURA** - (AGH University of Science and Technology, Krakow, Poland)
Basics of Scanning and Transmission Electron Microscopy
- 16.00-17.00 **F. FIORI** - (Polytechnic University of Marche- Italy)
High resolution x-ray tomography: basic principles
- 17.00-17.30 *pause*
- 17.30-18.30 **F. FIORI** - (Polytechnic University of Marche- Italy)
High resolution x-ray tomography: applications
- 20.00 *dinner*

Wednesday – 10 April, 2013

- 09.00-10.00 **Y. MISSIRLIS** - (University of Patras, Greece)
Dynamics of cell-material interactions
- 10.00-11.00 **Y. MISSIRLIS** - (University of Patras, Greece)
Bioreactors with mechanical conditioning of cells/scaffolds
- 11.00-11.30 *pause*
- 11.30-12.30 **N. FILIPOVIC** - (University of Kragujevac, Serbia)
Computer modeling and simulation in tissue engineering I
- 12.30 *lunch*

- 14.30-15.30 **N. FILIPOVIC** - (University of Kragujevac, Serbia)
Computer modeling and simulation in tissue engineering II
- 15.30-17.00 **G. ORSINI** - (Polytechnic University of Marche- Italy)
Current and future strategies for hard tissues regeneration in dentistry
- 17.00-17.30 *pause*
- 17.30-18.30 **T. MITSIADIS** - (University of Zurich, Institute of Oral Biology, Zurich, Switzerland)
Nanodentistry: nano-science for giga-dentists!
- 18.30 **Round table students – NAMABIO members**
- 20.00 *dinner*

Thursday – 11 April, 2013

- 09.00-10.30 **M. SANTIN** - (University of Brighton- UK)
Stem cell biology in bone and dental tissue regeneration - Orthopedic applications I
- 10.30-11.00 *pause*
- 11.00-12.30 **M. SANTIN** - (University of Brighton- UK)
Stem cell biology in bone and dental tissue regeneration - Orthopedic applications II
- 13.00 *lunch*
- 15.00 **Round table students – NAMABIO members**

Friday – 10 September, 2010

DEPARTURE