



**Thursday**  
**June 28<sup>th</sup> 2012**



*Coffee-break*

10.00 am – 1.00 pm

**Molecular interactions studied by NMR**

*Nico van Nuland*

Molecular Recognition Unit  
Structural Biology Brussels - VUB / VIB  
Jean Jeener NMR Centre  
e.mail: nvnuland@vub.ac.be

*Lunch*

2.15 – 4.00 pm

**Roundtable: Question from students**

4.00 – 6.00 pm

**Visit to laboratories**



**Friday**  
**June 29<sup>th</sup> 2012**



*Coffee-break*

10.00 am – 1.00 pm

**The other side of the genoma: when non-coding is functional and coding is not**

*Gian Gaetano Tartaglia*

Genes Function and Evolution Group  
CRG Centre for Genomic Regulation, Barcelona, Spain  
e.mail: gian.tartaglia@crg.es

*Lunch*

2.15 – 4.00 pm

**Roundtable: Question from students**

4.00 – 6.00 pm

**Visit to laboratories**

**Participants**

PhD students of DRSBM;  
PhD students from other doctoral courses;  
Medical doctors and other academic therapists or researchers with interest in complex biological system functions.

**Language:** English

**Venue:** **Aula A, Dipartimento di Medicina Molecolare,**  
Sezione di Biochimica - Viale Taramelli 3/b, University of Pavia (UniPv), Pavia, Italy

**Organizing Committee:** Ufficio Ricerca UniPv

**General information**

Cariplo PhD course has a strong interaction with different EU and non EU projects run by the coordinators of the various Units. Among these, we recall: REALNET (STREP ICT), Cerebnet (ITN) coordinated by E. D'Angelo (CNISM) on the cerebellum and training of young researchers.

**Contact person**

Chiara Malagori (PM):  
[staff.serviziocerca@unipv.it](mailto:staff.serviziocerca@unipv.it)

PhD in Biomedical Sciences (DRSBM) Secretariat:  
[drsbm.dottorato@gmail.com](mailto:drsbm.dottorato@gmail.com)

**Registration:** Deadline is **11<sup>th</sup> June 2012**

mail to: [drsbm.dottorato@gmail.com](mailto:drsbm.dottorato@gmail.com)



**Brain Connectivity Center**  
I.R.C.C.S. C. Mondino – Pavia

Università degli  
Studi di Pavia



**fondazione**  
**cariplo**

**PhD in Biomedical Sciences**  
**CARIPLO COURSE**  
**on**

**Structure-function**  
**relationship in complex**  
**biological systems**

25<sup>th</sup> - 29<sup>th</sup> June 2012  
Pavia, Italy

*Organized by*

**University of Pavia**  
**Research Office**

**&**  
**University of Pavia**  
**PhD in Biomedical Sciences**  
**&**  
**Cariplo Foundation**



**Monday**  
**June 25<sup>th</sup> 2012**



9.00 - 9.15 am

**E. D'Angelo, P. Speziale, V. Bellotti: Opening**

9.15 - 11.00 am

**Structure-function relationship in large-scale systems: Brain Magnetic Resonance Imaging (MRI)**

**Claudia Wheeler-Kingshott**

Neuroimaging Laboratory  
University College London, London, UK  
e.mail: c.wheeler-kingshott@ucl.ac.uk

*Coffee-break*

11.15 am - 1.00 pm

**Structure-function relationship in large-scale systems: Magneto-encephalography (MEG)**

**Christoph Braun**

MEG-Center  
University of Tübingen, Tübingen, Germany  
e.mail: christoph.braun@uni-tuebingen.de

*Lunch*

2.15 - 4.00 pm

**Roundtable:**

**Neuroimaging and Brain Physiology**

*Coffee-break*

4.15 - 6.00 pm

**Structure, function, and modulation of voltage-gated ion channels**

**Mitchell Goldfarb**

Department of Biological Sciences Room HN810  
Hunter College of City University, New York, USA  
e.mail: goldfarb@genectr.hunter.cuny.edu



**Tuesday**  
**June 26<sup>th</sup> 2012**



9.15 - 11.00 am

**Molecular Physiology of ion-coupled cotransporters**

**Antonio Peres**

Department of Biotechnology and Life Sciences  
University of Insubria, Varese, Italy  
e.mail: antonio.peres@uninsubria.it

*Coffee-break*

11.15 am - 1.00 pm

**Ionic channels and their modulation in excitable cells**

**Mauro Toselli**

Department of Biology and Biotechnology  
University of Pavia, Pavia, Italy  
e.mail: mauro.toselli@unipv.it

*Lunch*

2.15 - 4.00 pm

**From neuron mechanisms to network functions**

**Egidio D'Angelo**

Department of Public Health and Neuroscience  
University of Pavia, Pavia, Italy  
e.mail: dangelo@unipv.it

*Coffee-break*

4.15 - 6.00 pm

**Roundtable:**

**Molecular and Cellular Neurophysiology**

*Dinner*



**Wednesday**  
**June 27<sup>th</sup> 2012**



9.15 - 11.00

**Structure function relationship of the myosin motor in striated muscle: insights from myosin mutations**

**Roberto Bottinelli**

Department of Molecular Medicine  
University of Pavia, Pavia, Italy  
e.mail: roberto.bottinelli@unipv.it

*Coffee-break*

11.15 am - 1.00 pm

**Pathologies caused by protein misfolding: from rare to common diseases**

**Vittorio Bellotti**

Department of Molecular Medicine  
University of Pavia, Pavia, Italy  
e.mail: vbellot@unipv.it

*Lunch*

2.15 - 4.00 pm

**Protein misfolding diseases: diagnostic and therapeutic challenges**

**Giampaolo Merlini**

Department of Molecular Medicine  
University of Pavia, Pavia, Italy  
e.mail: gmerlini@smatteo.pv.it

*Coffee-break*

4.15 - 6.00 pm

**Roundtable:**

**Molecular Medicine**