



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

**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

## 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 genome: 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

**Language:** English

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

#### 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

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Organized by

**University of Pavia - Research Office**  
**University of Pavia - PhD in Biomedical Sciences**  
**Cariplo Foundation**

