

## 23<sup>rd</sup> COURSE IN MEDICAL GENETICS

EuroMediterranean University Centre of Ronzano  
Bologna (Italy), May 23-28, 2010

**Directors:** Han Brunner (Nijmegen, The Netherlands), Giovanni Romeo (Bologna, Italy), Brunhilde Wirth (Cologne, Germany)

**Faculty:** Hal Dietz (Baltimore, USA), Dian Donnai (Manchester, UK), Josef Gecz (Adelaide, Australia), Bernhard Horsthemke (Essen, Germany), Nicholas Katsanis (Baltimore, USA), Johannes Krause (Leipzig, Germany), Elena Maestrini (Bologna, Italy), Andrew Read (Manchester, UK), Olaf Riess (Tuebingen, Germany), Peter Robinson (Berlin, Germany), Michael Speicher (Graz, Austria), David Valle (Baltimore, USA), Joris Veltman (Nijmegen, The Netherlands).

### PROGRAM:

**SATURDAY, May 22 – Arrival in Bologna- Welcome dinner**

**Sunday, May 23 – Introduction to Medical Genetics and genome analysis**

#### Morning Session: 08:30 – 13:00

08:30 – 9:00	<b>G. Romeo</b>	<i>Overview of the course</i>
09:00 – 9:45	<b>D. Donnai</b>	Medical Genetics today
09:45-10:30	<b>A. Read</b>	Process of disease gene discovery-monogenic disorders
10:30 – 11:00	<i>Coffee Break</i>	
11:00 – 11:45	<b>H. Brunner</b>	Genotypes and Phenotypes
11:45 – 12:30	<b>J. Krause</b>	Neandertal perspective on Human Evolution
12:30 – 13:00		<i>Questions from students on morning lectures</i>
13:00	<i>Lunch Break</i>	

#### Afternoon Session: 14:30 – 18:00

	<b>E. Maestrini</b>	Linkage Analysis
	<i>Coffee break</i>	

**Monday, May 24 – Cytogenetics and Clinical Genetics**

#### Morning Session: 09:00 – 13:00

09:00 – 9:45	<b>D. Donnai</b>	Basic Concepts in Dymorphology
09:45-10:30	<b>M. Speicher</b>	Cytogenetic Techniques
10:30 – 11:00	<i>Coffee break</i>	
11:00 – 11:45	<b>H. Brunner</b>	Chromosomal Syndromes
11:45 – 12:30	<b>J. Veltman</b>	<i>Next Generation Sequencing (t.b.d.)</i>
12:30 – 13:00		<i>Questions from students on morning lectures</i>
13:00	<i>Lunch Break</i>	

#### Afternoon Session: 14:30 – 18:00

Concurrent workshops

## Tuesday, May 25 – New Approaches in Medical Genetics

### Morning Session: 09:00 – 13:00

09:00 – 9:45	<b>H. Dietz</b>	Marfan disease as paradigm for the transition from medical genetics to genetic medicine.
09:45-10:30	<b>N. Katsanis</b>	Ciliopathies and Zebrafish as model organism
10:30 – 11:00	<i>Coffee break</i>	
11:00 – 11:45	<b>J. Gecz</b>	Capitalising on genomics to understand the genetics and biology of (primarily X-Linked) learning disability
11:45 – 12:30	<b>P. Robinson</b>	The Human Phenotype Ontology
12:30 – 13:00		<i>Questions from students on morning lectures</i>
13:00	<i>Lunch Break</i>	

### Afternoon Session: 14:30 – 18:00

	Concurrent workshops
<i>Coffee break</i>	
	Concurrent workshops

## Wednesday, May 26 –Complex Genetic Disorders and Neurogenetics

### Morning Session: 09:00 – 13:00

09:00 – 9:45	<b>E. Maestrini</b>	Complex Traits
09:45-10:30	<b>D. Valle</b>	Schizophrenia
10:30 – 11:00	<i>Coffee break</i>	
11:00 – 11:45	<b>J. Gecz</b>	ARX Spectrum Disorders
11:45 – 12:30	<b>O. Riess</b>	<i>t.b.d.</i>
12:30 – 13:00		<i>Questions from students on morning lectures</i>
13:00	<i>Lunch Break</i>	
		Sightseeing tour

## Thursday, May 27 – Therapy

### Morning Session: 09:00 – 13:00

09:00 – 9:45	<b>B. Wirth</b>	Spinal muscular atrophy: from gene to therapy
09:45-10:30	<b>D. Valle</b>	<i>t.b.d.</i>
10:30 – 11:00	<i>Coffee Break</i>	
11:00 – 11:45	<b>H. Dietz</b>	<i>(t.b.d.)</i>
11:45 – 12:30	<b>O. Riess</b>	
12:30 – 13:00		<i>Questions from students on morning lectures</i>
13:00	<i>Lunch Break</i>	

### Afternoon Session: 14:30 – 18:00

Concurrent workshops

## Friday, May 28 – Epigenetics, Technology and Ethical Issues

### Morning Session: 09:00 – 13:00

09:00 – 9:45 **B. Horsthemke** Epigenetics and disease

09:45-10:15 **J. Veltman** *t.b.d.*

10:15 – 10:45 **A. Read** Ethical Issues

10:45 – 11:15 *Coffee Break*

11:15 – 13:00 *General discussion with students as moderator.*

13:00 *Lunch*

**Departure**