

# **International School of Functional Genomics**

[www.functional-genomics.it/school](http://www.functional-genomics.it/school)

## **Inaugural address**

Rita Levi-Montalcini, Nobel Laureate, Italy

16.00 - 17.00, July 5, 2008,  
Aula Magna dell'Università degli Studi di Catania  
Piazza Università 2, Catania

## School schedule

I week: "Cutting Edge Genomic Technologies", Hotel Baia Samuele, July 5-12, 2008

	<b>Saturday 5</b>	<b>Sunday 6</b>	<b>Monday 7</b>	<b>Tuesday 8</b>	<b>Wednesday 9</b>	<b>Thursday 10</b>	<b>Friday 11</b>	<b>Saturday 12</b>
09.00 - 10.00	Arrival and registration first week attendants	Cavallaro	Tifi	Degano	Mishra	Iacono	Baglio	Departure first week attendants
10.00 - 11.00		Calissano,	Tifi	Degano	Mishra	Capua	Coffa	
11.00 - 11.30		Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
11.30 - 12.30		Oostra	Tifi	Hughes	Lederer	Drago	Alessi	
12.30 - 14.30		Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	
14.30 - 15.30		Oostra	Tifi	Hughes	Lederer	Lazar	Alessi	
15.30 - 16.30		Oostra	Tifi	Hughes	Lederer	Lazar	Alessi	
16.30 - 17.30		Oostra	Tifi	Hughes	Lederer	Lazar	Battiato	
20.00 - 21.30		Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	
21.30 - 23.45						Social Tour		

II week: "Application of Genomic Technologies to the Biomedical Field", Hotel Baia Samuele, July 12-19, 2008

	<b>Saturday 12</b>	<b>Sunday 13</b>	<b>Monday 14</b>	<b>Tuesday 15</b>	<b>Wednesday 16</b>	<b>Thursday 17</b>	<b>Friday 18</b>	<b>Saturday 19</b>
09.00 - 10.00	Arrival and registration second week attendants	Dewey	Dewey	Ascoli	Priami	Quackenbush	Liò	Departure
10.00 - 11.00		Dewey	Dewey	Ascoli	Priami	Quackenbush	Liò	
11.00 - 11.30		Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
11.30 - 12.30		Cavallaro	Ascoli	Tendi	Liò	Quackenbush	Skipper	
12.30 - 14.30		Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	
14.30 - 15.30		Liò	Ascoli	Cappelletti	Liò	de Snoo	Schneider	
15.30 - 16.30		Bianchi	Koo	Koo	Liò	Stoico	Coffa	
16.30 - 17.30		Bianchi	Koo	Koo		Costanzo		
20.00 - 21.30		Dinner	Dinner	Dinner	Dinner	Dinner	Dinner	
21.30 - 23.45						Social Tour		

## Speakers and topics

### **Enrico Alessi**

STMicroelectronics, Italy

*In-Check™ platform: a highly integrated solution for rapid and accurate nucleic acid testing*

### **Giorgio Ascoli**

Krasnow Institute for Advanced Study, George Mason University, USA

*Introduction to neuroinformatics and computational neuroanatomy*

### **Salvatore Baglio**

University of Catania, Italy

*Magnetic strategies for biosensors*

### **Sebastiano Battiato**

University of Catania, Italy

*Microarray image analysis*

### **Lucia Bianchi**

Lawyer, Italy

*Forensic DNA*

### **Pietro Calissano**

European Brain Research Institute, Italy and Institute of Neurobiology and Molecular Medicine, CNR, Italy

*System neurobiology: from a reductionistic to an olistic approach*

### **Marco Cappelletti**

Applied Biosystems, Italy

*Innovations in small RNA analysis. Discovery and validation of non coding RNAs using the SOLiD system and TaqMan small RNA Assays.*

### **Maria Rosaria Capua**

Qiagen S.p.A., Italy

QIAxcel: how to analyze DNA and RNA in few minutes

Purification of DNA/RNA from biological samples: from manual extraction to Biorobots;

### **Sebastiano Cavallaro**

Institute of Neurological Sciences, CNR, Italy

*Genomics: at the intersection of neuronal life and death*

### **Salvo Coffa**

STMicroelectronics, Italy

*New technologies and products for healthcare*

### **Alessandra Costanzo**

Roche Diagnostics, Italy

*New solutions for functional genomics*

**Femke de Snoo**

Agendia, The Netherlands

*Applying genomic profiling to enable personalized medicine*

**Pierpaolo Degano**

University of Pisa, Italy

*Executable models for synaptic plasticity and VICE: a virtual cell*

**C. Forbes Jr. Dewey**

Massachusetts Institute of Technology, USA

*A web-based architecture for parallel computation of molecular pathway models*

**Filippo Drago**

University of Catania, Italy

*Pharmacogenetics, pharmacogenomics and individualized therapies*

**Mark Hughes**

MetaCore, UK

*Practical course on pathway analysis and gene expression*

**Michele Iacono**

Roche Diagnostics, Italy

*New technologies Roche Applied Science*

**Andrew Koo**

Massachusetts Institute of Technology, USA

*Practical course on biological pathways analysis simulation*

**Vladimir Lazar**

Institut Gustave Roussy

*Overview of microarray platform and latest technology developments*

*From miRNA to genome: Detailed review of various applications offered on the microarray platform (Gene Expression, miRNA, CGH/CNV, Methylation)*

*Bring factory to your lab: on-line array customization and de novo array creation using eArray 5.0*

*Roadmap: next-to-release technologies (OLS for genome capture/partitioning using high fidelity probe libraries)*

**Carsten Lederer**

Telethon Institute for Gene Therapy, Italy

*Practical Course on gene ontologies and pathway analysis*

**Pietro Liò**

Computer Laboratory, University of Cambridge, UK

*Methods and models in computational genomics*

**Bud Mishra**

New York University, USA

*Computational biology*

**Ben Oostra**

Erasmus University, The Netherlands  
*Linkage and association studies using markers and SNP arrays*

**Corrado Priami**

Microsoft Research - University of Trento COSBI, Italy  
*Computational systems biology: a programming language approach*

**John Quackenbush**

Harvard School of Public Health, Harvard University, USA  
*Microarray data analysis*  
*Tumor classification by genomic analysis*

**Claudio Schneider**

University of Udine, Italy  
*Gene expression profiling of advanced ovarian cancer*

**Magdalena Skipper**

Nature Publishing Group, UK  
*Careers in science publishing*

**Giusy Stoico**

TechnoGenetics, Italy  
*Diagnostics applications of CGH arrays*

**Elisabetta Tendi**

Wyeth, Italy  
*Toxicogenomics*

**Massimo Tifi**

Abel, Italy  
*Practical course on DNA microarray analysis*