



Dottorato in Genetica, Biologia Molecolare e Cellulare
Scuola di Dottorato in Scienze della Vita "Camillo Golgi" – Università degli Studi di Pavia

PhD Program in
"Genetics, Molecular and Cellular Biology"

Coordinator: Prof. Antonio Torroni

Pavia, 4-8 June 2012

International Course

"From molecular and cellular pathways to human health: insights from basic research"

(Supported by Fondazione Cariplo, Milan)

Pavia, 4-8 June 2012
Aula Grande (Botta 2) - Department of Biology and Biotechnology "L.Spallanzani" -
Via Ferrata, 9 - 27100 Pavia

Organizers:

- Prof. Antonio Torroni, Vice-Chancellor for Research, Professor of Genetics, Department of Biology and Biotechnology "Lazzaro Spallanzani", University of Pavia, Pavia (Italy).
- Prof. Guglielmina Nadia Ranzani, Professor of Human Genetics, Department of Biology and Biotechnology "Lazzaro Spallanzani", University of Pavia, Pavia (Italy).
- Prof. Orsetta Zuffardi, Professor of Medical Genetics, Department of Molecular Medicine, University of Pavia, Pavia (Italy).
- Dr. Giuseppe Biamonti, National Research Council, Director of the Institute of Molecular Genetics, Pavia (Italy).
- Dr. Chiara Mondello, National Research Council, Senior Researcher, Institute of Molecular Genetics, Pavia, (Italy).

Speakers:

- Dr. Diana Baralle, Consultant and Honorary Senior Lecturer, School of Medicine, University of Southampton, UK.
- Prof. Han Brunner, Professor of Medical Genetics, Head of the Department of Human Genetics, Radboud University, Nijmegen Medical Centre, Nijmegen, The Netherlands.
- Prof. Dr. Riccardo Fodde, PhD, Chairman Experimental Pathology, Department of Pathology, Erasmus Medical Center, Rotterdam, The Netherlands.
- Dr. Natalia S. Pellegata, Principle Investigator, Institute of Pathology, German Research Center for Environmental Health (GmbH), Neuherberg, Germany.
- Dr. Silvia Bione, Researcher, National Research Council, Institute of Molecular Genetics, Pavia, (Italy).
- Dr. Roberto Ciccone, Researcher, Department of Molecular Medicine, University of Pavia, Pavia (Italy).
- Prof. Angelo Manfredi, Professor of Internal Medicine, University "Vita-Salute" San Raffaele, Milan (Italy).
- Dr. Donata Orioli, National Research Council, Researcher, Institute of Molecular Genetics, Pavia, (Italy).
- Prof. Alessandro Weisz, Laboratory of Molecular Medicine and Genomics, Faculty of Medicine; Molecular Pathology and Medical Genomics Unit, "S. Giovanni di Dio e Ruggi d'Aragona", University Hospital, University of Salerno, Salerno (Italy).
- Dr. Massimo Zeviani, Director of the Unit of Molecular Neurogenetics Division, Neurological Institute "Carlo Besta", Milan (Italy).

PROGRAM

Monday, 4th June 2012

9:00-9:15

Antonio Torroni: *Introduction*

9:15-10:30

Massimo Zeviani (Neurological Institute "Carlo Besta", Milan):
"Mitochondrial genetics and pathophysiology"

10:30-10:45 Coffee break

10:45-12:30

Massimo Zeviani:

"Discovery of new genes and pathways in mitochondrial medicine"

12:30-14:30 Lunch

14:30-16:30

Alessandro Weisz (University of Salerno):

"Genomics of estrogen signaling in hormone-responsive breast cancer"

Tuesday, 5th June 2012

9:00-10:50

Roberto Ciccone (University of Pavia):

"Genomic array: benign and causative structural rearrangements"

10:50-11:10 Coffee break

11:10-13:00

Silvia Bione (CNR, Pavia):

"Data mining in gene lists: relevance for the study of human genetic disorders"

13:00-14:30 Lunch

14:30-18:30 Computer analysis of a clinical case (two consecutive groups)

Wednesday, 6th June 2012

9:00-10:50

Han Brunner (Nijmegen Medical Centre, The Netherlands):

"Genotypes and phenotypes"

"Microdeletion syndromes"

10:50-11:10 Coffee break

11:10-13:00

Donata Orioli (CNR, Pavia):

"Defining the molecular basis of gene expression deregulation in human disorders, the example of UV-damage repair syndromes"

Wednesday, 6th June 2012

13:00-14:30 Lunch

14:30-17:30 Poster session

Thursday, 7th June 2012

9:00-10:50

Han Brunner (Nijmegen Medical Centre, The Netherlands):

"How next generation sequencing changes medicine"

"A de novo paradigm for intellectual disability"

10:50-11:10 Coffee break

11:10-13:00

Angelo Manfredi (University "Vita-Salute" San Raffaele, Milan):

"Molecular pathways involved in vessel inflammation and atherothrombosis"

13:00-14:30 Lunch

14:30-16:30

Natalia Pellegata (German Research Center for Environmental Health, Neuherberg, Germany):

"Molecular pathogenesis of neuroendocrine tumors"

Friday, 8th June 2012

9:00-10:50

Natalia Pellegata (German Research Center for Environmental Health, Neuherberg, Germany):

"The MENX syndrome as a tool to elucidate the genetics of neuroendocrine tumors"

10:50-11:10 Coffee break

11:10-13:00

Riccardo Fodde (Erasmus Medical Centre, Rotterdam, The Netherlands):

"Stemness and cancer: the good, the bad and the ugly"

13:00-14:30 Lunch

14:30-17:30

Diana Baralle (University of Southampton, UK):

"RNA splicing and diseases"

17:30-17:45 Conclusions