IV CRG ANNUAL SYMPOSIUM

New challenges in the mechanistics of human disorders

CONNECTING THE GENOME WITH DISEASE

Friday, 2 December and Saturday, 3 December, 2005

Center for Genomic Regulation

Barcelona, Catalonia, Spain

Monogenic diseases research has provided knowledge about the molecular alterations that cause many severe human hereditary disorders. Despite this enormous progress, the genetic bases of common disorders that affect a large number of subjects are largely unsolved. In this symposium, we will evaluate some of the molecular mechanisms potentially involved in human disorders with special emphasis in neurological-related disorders. The symposium will bring together the best experts in the fields of small RNAs, epigenetics, genomic variation, and gene expression variation. We should evaluate to which extend these phenomena participate in the chain of events that lead to complex disorders.

Agenda

Friday 2, December

14:00 – 14:30	**Registration**
14:30 – 15:45	**Welcome** **Miguel Beato**, Center of Genomic Regulation, Barcelona, Spain
14:45 – 15:00	**Opening Comments** **Xavier Estivill**, Center of Genomic Regulation, Barcelona, Spain
SESSION 1:	**Expanding trinucleotide expansions** **Moderator: Jerome Cavaille**
15:00 – 15:30	**Jean Louis Mandel,** Institut de Génétique et de Biologie Moleculaire et Cellulaire, Strasbourg, France
15:30 – 16:00	**Albert R. La Spada**, University of Washington, Seattle, USA
16:00 – 16:30	**Gillian P. Bates,** Guy's Hospital, London, UK
16:30 – 17:00	**Beverly L. Davidson,** University of Iowa, Iowa City, USA
17:00 – 17:30	**Coffee Break**

SESSION 2:	**Genomic variants and disease** **Moderator: Jean Louis Mandel**
17:30 – 18:00	**James R. Lupski,** Baylor College of Medicine, Houston, USA
18:00 – 18:30	**Stephen W. Scherer,** Hospital for Sick Children, Toronto, Canada
18:30 – 19:00	**Luis Perez-Jurado,** Universitat Pompeu Fabra, Barcelona, Spain
19:00 – 19:30	**Elizabeth A. Lindsay,** University of Naples, Naples, Italy

Saturday, 3 December

SESSION 3:	**The rising of the small RNAs' world** **Moderator: Bernhard Horsthemke**
9:00 – 9:30	**Witold Filipowicz,** Friedrich Miescher Institute, Basel, Switzerland
9:30 – 10:00	**Oliver Hovert,** Columbia University, New York, USA
10:00 – 10:30	**Michel Georges,** University of Liège, Liège, Belgium
10:30 – 11:00	**Jerome Cavaille,** Universite P. Sabatier, Toulouse, France
11:00 – 11:30	**Coffee Break**
SESSION 4:	**Epigenetic mechanisms of genetic disease** **Moderator: Gillian P. Bates**
11:30 – 12:00	**Bernhard Horsthemke,** Institut für Humangenetik, Universitätsklinikum Essen, Essen, Germany
12:00 – 12:30	**Nicholas Katsanis,** Johns Hopkins University School of Medicine, Baltimore, USA
12:30 – 13:00	**Manel Esteller,** Centro Nacional de Investigaciones Oncológicas, Madrid, Spain
13:00 – 13:30	**Peter Seeburg,** Max-Planck-Institut für medizinische Forschung, Heidelberg, Germany
13:30 – 15:00	**Lunch Break**
SESSION 5:	**Variability in gene expression and disease** **Moderator: James R. Lupski**
15:00 – 15:30	**Vivian G. Cheung**, Children's Hospital of Philadelphia, Philadelphia, USA
15:30 – 16:00	**Emmanouil Dermitzakis**, Welcome Trust Sanger Institute, Cambridge, UK
16:00 – 16:30	**Takeshi Yagi**, Osaka University, Osaka, Japan
16:30 – 17:00	**Andrew Chess**, Massachusetts General Hospital, Harvard Medical School, Boston, USA
17:00 – 17:30	**Closing Remarks,** Informal Discussion, and Departure