



The Abdus Salam  
International Centre for Theoretical Physics



# 2nd Conference on Systems Biology and New Sequencing Techniques

2 - 4 November 2011

Miramare - Trieste, Italy

The Abdus Salam International Centre for Theoretical Physics (ICTP), sponsored by the projects Enabling Systems Biology (ENFIN) and System Biology Analysis of Fungal Pathogen interactions with the human immune system (SYBARIS) funded by the European Commission framework programmes FP6 and FP7, respectively, is organizing the 2nd Conference on Systems Biology and New Sequencing Techniques to take place at the ICTP in Trieste - Italy, from 2 to 4 November 2011. The Conference will be preceded by introductory lectures on Quantitative Approaches to Biological Problems (from 31 October to 1 November).

## **OBJECTIVE:**

Parallel advances in two relatively disconnected areas of science are boosting our understanding of biological systems. On the one hand, systems biology, with its integration of high-throughput biological data and its emphasis on quantitative modeling and simulation, is providing a global perspective of biology that goes beyond classical reductionist approaches. On the other hand, new sequencing technologies are developing at an enormous speed, and provide whole genome data that previously revealed unexplored genomic features such as functional intergenic regions, copy number variations and other genomic differences between members of the same species. In the Conference, we will gather an inter-disciplinary group of scientists with roots in these two disciplines with the aim to create a forum to discuss new ideas and explore what lies in the overlap between these two growing fields.

## **PARTICIPATION:**

Scientists and students from all countries, which are members of the United Nations, UNESCO or IAEA, may attend the School. As it will be conducted in English, participants should have an adequate working knowledge of this language. As a rule, travel and subsistence expenses of the participants should be borne by the home institution. However, limited funds are available for some participants, who are working in the region and not more than 45 years of age. By interest, please contact the organisers. **There is no registration fee.**

## **HOW TO APPLY:**

The application form can be accessed at the following website:  
<http://agenda.ictp.it/smr.php?2255>  
comprehensive instructions will guide you step-by-step, on how to complete and submit the application form before the deadline.

**SECRETARIAT:** e-mail: [smr2255@ictp.it](mailto:smr2255@ictp.it)

the Abdus Salam International Centre for Theoretical Physics  
Strada Costiera 11, I-34151 Trieste, Italy

<http://www.ictp.it/>



With the support of



## **ORGANIZING COMMITTEE:**

**P. Kahlem** (EBI- Cambridge)  
**B. Mishra** (NYU/Courant Institute)  
**R. Rabadan** (Columbia University)  
**G. Stolovitzky** (IBM Research, USA)

## **LOCAL ORGANIZER:**

**M. Marsili** (ICTP, Trieste, Italy)

## **INVITED SPEAKERS INCLUDE:**

Srinivas **Aluru** (Iowa State University - USA).  
Robert **Austin** (Princeton USA)  
Charles **Cantor** - (Sequenom/Berkeley)  
Duccio **Cavalieri** - (Univ. Florence, Italy)  
Vijay **Chandru** - (Strand Genomics)  
Diego **di Bernardo** (TIGEM, Naples, Italy).  
Ivo **Gut** (CNAG, Barcelona, E)  
Christian **Haudenschield** (Illumina USA)  
Eduardo **Mendoza** - (LMU Munich, D)  
Misha **Kapushesky** (EMBL - Cambridge, UK)  
Mostafa **Ronaghi** (Illumina, USA)  
Chris **Sander**\* (MSKCC, USA)  
John **Stamatoyanopoulos** - (U. Washington USA).  
Alfonso **Valencia** (CNIO, Madrid, E)  
Michele **Vendruscolo** (Univ. Cambridge, UK)  
Jun **Wang** (BGI China)  
Riccardo **Zecchina** (Politecnico Torino, I)

\* to be confirmed

## **DEADLINES:**

**APPLICATION FOR  
FINANCIAL SUPPORT**

**11 JULY 2011**

**APPLICATION WITH NO  
FINANCIAL SUPPORT**

**20 SEPTEMBER 2011**