



The Abdus Salam
International Centre
for Theoretical Physics
50th Anniversary 1964 - 2014



Advanced Workshop on Interdisciplinary Views on Chromosome Structure and Function

15 – 19 September 2014
(Trieste, Italy)

The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy, is organizing an Advanced Workshop on **“Interdisciplinary View in Chromosome Structure & Function”**, to be held **in Trieste, Italy**, from **15 – 19 September 2014**.

Understanding how the genetic material is organized in space in eukaryotes and bacteria is one of the big challenges of current molecular biology. It is now clear that the complexity of the cellular machinery is so profound that its full comprehension can be pursued only through the joint efforts of scientists coming from cross-related disciplines like molecular biology, systems biology, bioinformatics and physics. This Workshop aims at bringing scientists from these different disciplines in a real interdisciplinary context. The state-of-the-art of experimental, modeling and physical aspects in chromosome organization will be discussed, with particular emphasis on future important challenges.

Topics include:

- High-throughput and imaging methods for chromosome structure and dynamics;
- Gene regulatory networks in eukaryotes and bacteria: experiments and modeling;
- Large-scale physical modeling and simulation of chromosome structure;
- System biology of gene expression and regulation.

Invited speakers include:

- Kerstin Bystricky (University of Toulouse, France)
- Michele Caselle (University of Turin, Italy)
- Giacomo Cavalli (Institute of Human Genetics, Montpellier, France)
- Pietro Cicuta (University of Cambridge, UK)
- Marco Cosentino Lagomarsino (University ‘Pierre et Marie Curie’, Paris, France)
- Job Dekker (University of Massachusetts, USA)
- Andrea De Martino (University of Rome, Italy)
- Ralf Everaers (Ecole Normale Supérieure de Lyon, France)
- Emmanuelle Fabre (Institut Pasteur, Paris, France)
- Andrea Gamba (Polytechnic School of Turin, Italy)
- Andrew Seeber (‘Friedrich Miescher’ Institute, Basel, Switzerland)
- Dieter W. Heermann (University of Heidelberg, Germany)
- Martin Howard (‘John Innes’ Centre, Norwich, UK)
- Ivan Junier (Centre for Genomic Regulation, Barcelona, Spain)
- Davide Marenduzzo (University of Edinburgh, UK)
- Olivier Martin (University Paris-Sud, France)
- Marc Marti-Renom (CNAG-CRG, Barcelona, Spain)
- Cristian Micheletti (SISSA, Trieste, Italy)
- Leonid Mirny (Massachusetts Institute of Technology, USA)
- Julien Mozziconacci (University ‘Pierre et Marie Curie’, Paris, France)
- Justin M. O’Sullivan (Liggins Institute, University of Auckland, New Zealand)
- Ana Pombo (Max-Delbrück-Centrum, Berlin, Germany)
- Helmut Schiessel (University of Leiden, The Netherlands)
- Kim Sneppen (‘Niels Bohr’ Institute, Copenhagen, Denmark)
- Andrzej Stasiak (University of Lausanne, Switzerland)
- Sarah Teichmann (EMBL-EBI & Sanger Institute, Hinxton, UK)
- Guido Tiana (University of Milan, Italy)
- Jose M. Vilar (University of the Basque Country, Bilbao, Spain)
- Diego Villar Lozano (Wellcome Trust Sanger Institute, Hinxton, UK)
- Christophe Zimmer (Institut Pasteur, Paris, France)

PARTICIPATION

Scientists and students from all countries which are members of the United Nations, UNESCO or IAEA may attend the Workshop. As it will be conducted in English, participants should have an adequate working knowledge of that language. Although the main purpose of the Centre is to help research workers from developing countries, students and research scientists from all countries are warmly welcome to attend. As a rule, travel and subsistence expenses of the participants should be borne by the home institution. Every effort should be made by candidates to secure support for their fare (or at least half-fare). However, limited funds are available for some participants who are nationals of, and working in, a developing country, and who are not more than 45 years old. Such support is available only for those who attend the entire activity. There is no registration fee.

HOW TO APPLY FOR PARTICIPATION

The application form can be accessed at the activity website <http://agenda.ictp.it/smr.php?2604>. Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application form. Closing date for receipt of the applications is: **1 June 2014**.

ACTIVITY SECRETARIAT: Telephone: +39-040-2240-355 Telefax: +39-040-2240-585
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DEADLINE

For requesting participation:

1 June 2014