

Workshops Current trends in 2010 Biomedicine

The Centrosome: Structure, Function and Dynamics

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Scope

As we advance more and more in our detailed molecular understanding of biological function through atomic interactions, the more evident it is the need to contextualize this type of information in the complex environment of the cell. Indeed, among all the key cellular substructures performing a critical role, the centrosome stands not only as the organizer of the cellular microtubular network, but as a critical "molecular interaction hub" responsible for essential aspects of the cell cycle. Clearly, a multi facets approach is needed to unravel the functional details of the centrosome, first identified more than a century ago but still representing a formidable research challenge. The promiscuity of molecular interactions, exquisitely regulated along the cell cycle, poses exceptionally high demands on virtually all types of biophysical and biochemical approaches. Its role in coordinating a plethora of transient interactions opens a very interesting window into our understanding of the control of essential aspects of cell biology. Not surprisingly, the centrosome is also key in understanding a number of pathologies, cancer among them, and the tangible possibility exists that a deeper understanding of this organelle could help substantially in the development of more efficient and targeted new anti cancer drugs. In recognition of the multidisciplinary that is so much needed to advance in our studies on the centrosome, helped by a recent stress of focus of a number of Spanish research consortia on this topic, the present workshop aims to provide such a multi faceted environment, bringing together experts from distant biological disciplines to help advance our molecular understanding of the centrosome.

Format of the Workshop

The workshop will bring together 17 speakers and a maximum of 33-35 participants, to form a group of around 50 people. The scientific programme will start in the morning of Monday, November 15th, and will end around noon on Wednesday, November 17th. Ample time for informal discussion will be reserved. Participants will be invited to present a poster.

Venue of the Workshop

The workshop will be held in Baeza, at the "Sede Antonio Machado", a XVII century building turned into a Conference Centre of the Universidad Internacional de Andalucía (UNIA). This Seat includes a recently restored residence, where participants will be accommodated. Baeza is a World Historic Heritage town, renowned for its Renaissance and Gothic buildings.

Organized by:

José María Carazo
Centro Nacional de Biotecnología – CSIC.
Madrid, Spain.

Rosa M. Ríos
Centro Andaluz de Biología Molecular y
Medicina Regenerativa (CABIMER). Sevilla,
Spain.

Luis Serrano
Centre de Regulació Genòmica (CRG).
Barcelona, Spain.

Speakers

José L. Badano. Institut Pasteur de
Montevideo. Montevideo, Uruguay.

Wolfgang Baumeister. Department of
Molecular Structural Biology, Max Planck
Institute of Biochemistry. Martinsried,
Germany.

Mónica Bettencourt-Dias. Cell Cycle
Regulation Lab, Instituto Gulbenkian de
Ciência. Oeiras, Portugal.

Michel Bornens. Institut Curie, UMR144
CNRS. Paris, France.

José María Carazo. Biocomputing Unit,
Centro Nacional de Biotecnología – CSIC.
Madrid, Spain.

David M. Glover. University of Cambridge,
Department of Genetics. Cambridge, UK.

Pierre Gönczy. Swiss Institute for
Experimental Cancer Research (ISREC),
School of Life Sciences, Swiss Federal
Institute of Technology (EPFL). Lausanne,
Switzerland.

Cayetano González. Cell Division Laboratory,
Institut de Recerca Biomèdica, PCB, ICREA.
Barcelona, Spain.

Alexey Khodjakov. Wadsworth Center.
Albany, NY, USA.

Bodo M.H. Lange. Department of Vertebrate
Genomics, Max Planck Institute for Molecular
Genetics. Berlin, Germany.

Wallace F. Marshall. Department of
Biochemistry and Biophysics, University of
California, San Francisco. San Francisco, CA,
USA.

Guillermo Montoya. Macromolecular
Crystallography Group, Structural Biology and
Biocomputing Programme, Spanish National
Cancer Research Centre (CNIO). Madrid,
Spain.

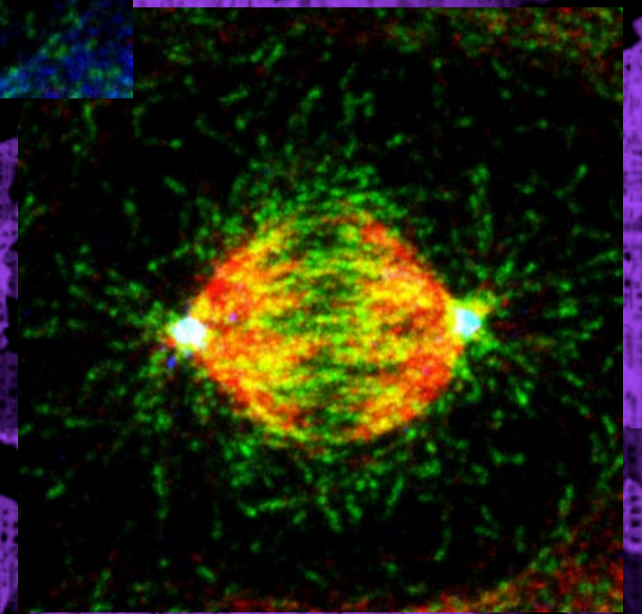
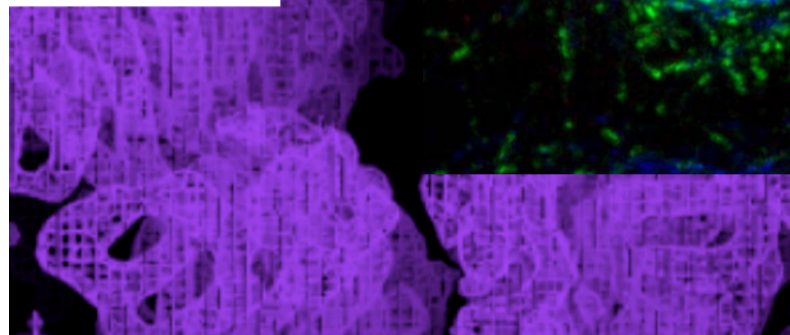
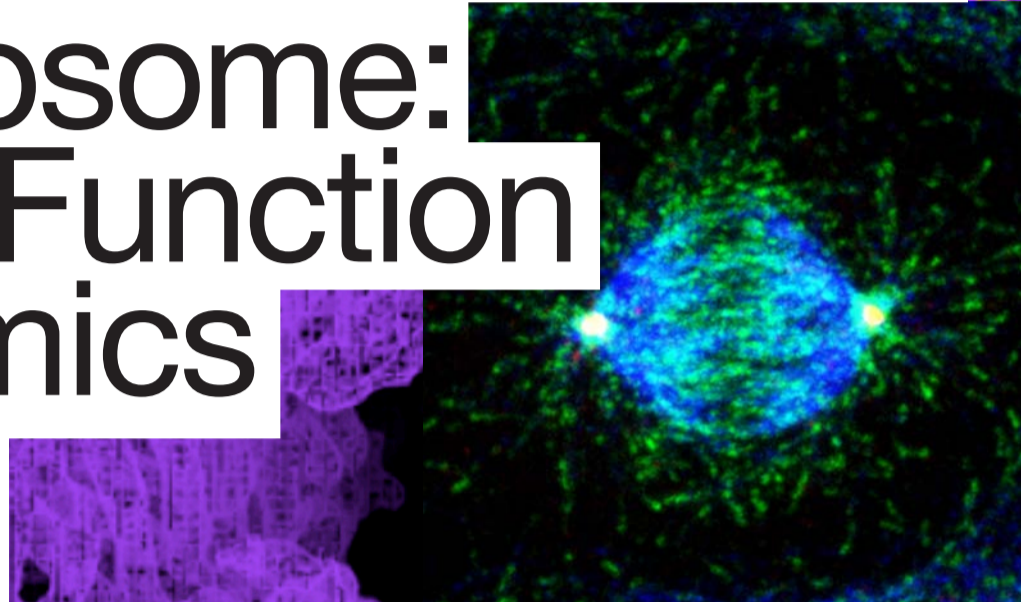
Robert E. Palazzo. Department of
Biology and Center for Biotechnology
and Interdisciplinary Studies, Rensselaer
Polytechnic Institute. Troy, NY, USA.

Rosa M. Ríos. Departamento de Señalización
Celular, Centro Andaluz de Biología Molecular
y Medicina Regenerativa (CABIMER). Sevilla,
Spain.

Bruce W. Stillman. Cold Spring Harbor
Laboratory. Cold Spring Harbor, NY, USA.

Isabelle Vernos. Cell and Developmental
Biology Program, Centre for Genomic
Regulation (CRG), Universitat Pompeu Fabra,
ICREA. Barcelona, Spain.

Yixian Zheng. Department of Embryology,
Carnegie Institution of Washington and
Howard Hughes Medical Institute. Baltimore,
MD, USA.



Baeza, Spain
15th-17th November 2010

Deadline:
17th September 2010

Venue:

Sede Antonio Machado
Universidad Internacional de Andalucía
Palacio de Jabalquinto
Plaza de Santa Cruz, s/n
23440 Baeza (Jaén), Spain
Tel: +34 953 74 27 75
Fax: +34 953 74 29 75
E-mail: baeza@unia.es

Workshop coordinator:

Joaquín Torreblanca
Universidad Internacional de Andalucía
j.torreblanca@unia.es

More information and application:

<http://www.unia.es/biomedicine>