



WORKSHOPS
“CURRENT TRENDS IN
BIOMEDICINE”

2010

SEDE ANTONIO MACHADO
BAEZA, SPAIN

THE CENTROSOME:
STRUCTURE, FUNCTION
AND DYNAMICS

Baeza, Spain • 15-17 November 2010

Organized by:

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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.

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.

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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.

DEADLINE: 17 SEPTEMBER 2010

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MORE INFORMATION AND APPLICATION:

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

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