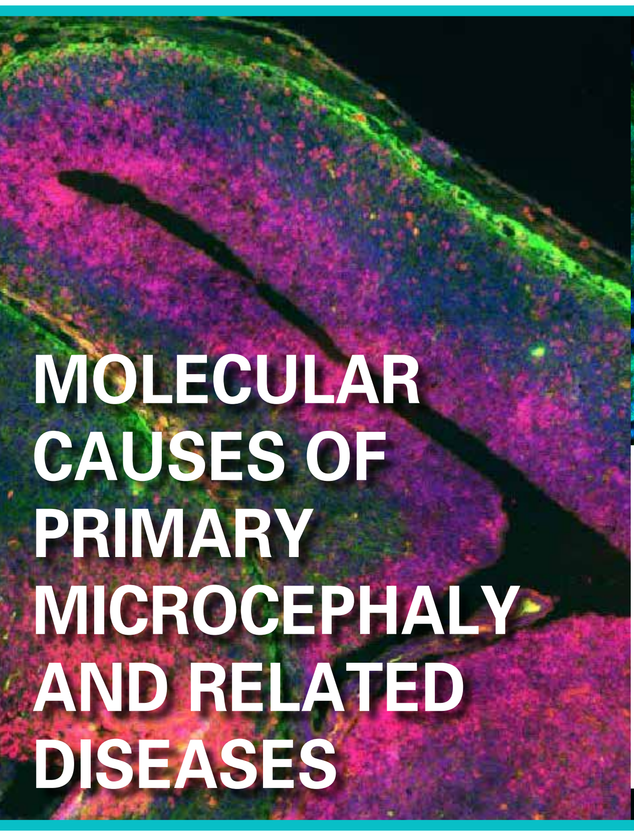
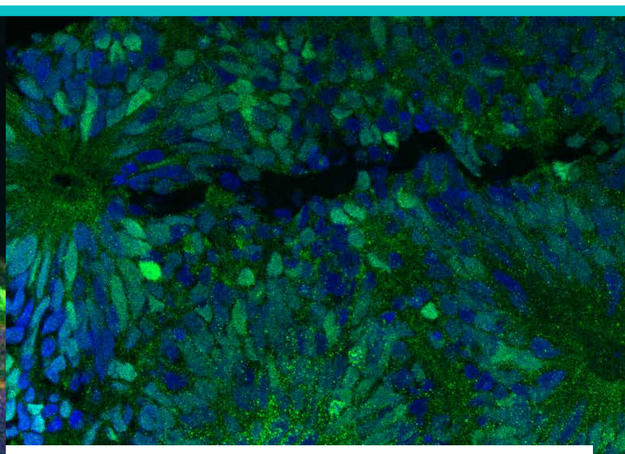
WORKSHOPS

CURRENT TRENDS IN BIOMEDICINE 2019



MOLECULAR CAUSES OF PRIMARY MICROCEPHALY AND RELATED DISEASES



Universidad Internacional de Andalucía

25 AÑOS

SCOPE

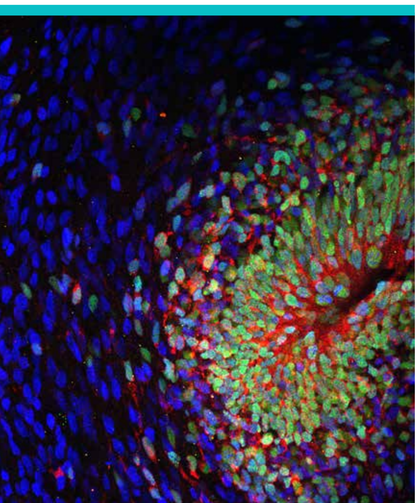
Primary **microcephaly** is a neurodevelopmental disorder that leads to a smaller brain and is associated with mild to severe mental retardation. *More than 50 rare disorders characterized by microcephaly* have been identified and its incidence is increasing due to the emergence of Zika virus. The spectrum of molecular defects that give rise to the condition are not yet clear but defects in **DNA damage signaling, DNA replication and repair**, **mitosis**, **centrosome duplication**, **ciliogenesis**, **metabolism** and **translation**, as well as a number of **viral pathogens**, have been shown to cause microcephaly. The workshop will bring together experts in neurobiology, the molecular processes and agents that underlie microcephaly and will feature diverse and emergent model systems to study its etiology and molecular underpinnings, including **human brain organoids** and the use of **gene editing technologies**.

FORMAT OF THE WORKSHOP

The workshop will bring together a maximum of 15 speakers and 35 participants, to form a group of around 50 people. The scientific programme will start in the morning of Monday, November 18th, and will end around noon on Wednesday, November 20th. 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 residence, where participants will be accommodated. Baeza is a World Historic Heritage town, renowned for its Renaissance and Gothic buildings.



SPEAKERS

Renata Basto. Institut Curie, Paris Sciences et Lettres Research University, CNRS, UMR144, Biology of Centrosomes and Genetic Instability Laboratory. Paris, France.

Fanni Gergely. Cancer Research UK Cambridge Institute, Li Ka Shing Centre, University of Cambridge. Cambridge, UK.

Jay Gopalakrishnan. Institute für Humangenetik, Universitätsklinikum Düsseldorf, Heinrich-Heine-Universität / IUF-Leibniz Research Institute for Environmental Medicine. Düsseldorf, Germany.

Andrew J. Holland. Department of Molecular Biology and Genetics, Johns Hopkins School of Medicine. Baltimore, MD, USA.

Pablo Huertas. Centro Andaluz de Biología Molecular y Medicina Regenerativa (CABIMER); Departamento de Genética, Universidad de Sevilla. Sevilla, Spain.

Wieland B. Huttner. Max Planck Institute of Molecular Cell Biology and Genetics. Dresden, Germany.

Andrew P. Jackson. MRC Human Genetics Unit, Institute of Genetics and Molecular Medicine, University of Edinburgh. Edinburgh, UK.

Ciaran G. Morrison. Centre for Chromosome Biology, School of Natural Sciences, National University of Ireland Galway. Galway, Ireland.

Song-Hai Shi. Developmental Biology Program, Sloan Kettering Institute, Memorial Sloan Kettering Cancer Center / Neuroscience Graduate Program; BCMB Graduate Program, Weill Cornell Medical College. New York, NY, USA.

Debra L. Silver. Department of Molecular Genetics and Microbiology, Duke University Medical Center. Durham, NC, USA.

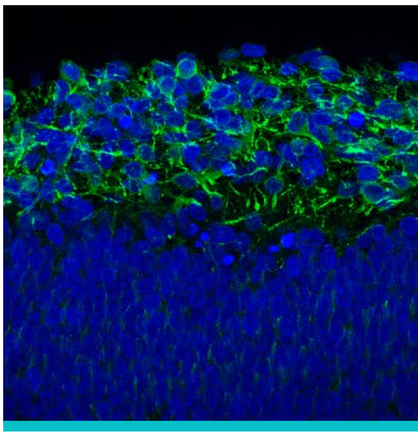
Agata Smogorzewska. Laboratory of Genome Maintenance, The Rockefeller University. New York, NY, USA.

Nathalie Spassky. Institut de Biologie de l'Ecole Normale Supérieure (IBENS), Ecole Normale Supérieure, CNRS, INSERM, PSL Université Paris. Paris, France.

Grant S. Stewart. Institute of Cancer and Genomic Sciences, University of Birmingham. Birmingham, UK.

Travis H. Stracker. Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology. Barcelona, Spain.

Zhao-Qi Wang. Leibniz Institute on Aging - Fritz Lipmann Institute. Jena, Germany.



ORGANIZED BY:

Fanni Gergely
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Baeza, Spain

18th-20th November 2019

Deadline:

20th September 2019

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