

Current trends in Biomedicine

Developmental Origins of Neurological Disorders: from Neurogenesis to Circuit Formation

2009

Workshops

Universidad Internacional de Andalucía

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Scope

The development of the vertebrate nervous system occurs over a protracted period, beginning early in embryogenesis and continuing, in many brain regions, until well after birth. A variety of developmental events including neurogenesis, cell migration and neuronal connectivity must be precisely orchestrated for optimal nervous system function. An increasing number of nervous system disorders (autism, schizophrenia, epilepsy, Tourette syndrome, lissencephaly, holoprosencephaly, cerebral palsy, etc...) are known, or are postulated, to have an embryonic origin to their etiology. Basic research on nervous system development has contributed significantly towards recent advances in our understanding of the pathogenic mechanisms of many neurological diseases and prospects for new treatment regimens using stem cell and drug based approaches. However, given the intricacies of nervous system development, there are still new principles to be revealed and poorly understood disease processes that remain to be resolved. THE GOAL of this workshop is to discuss current and future trends in developmental neurobiology research by bringing together a small group of prominent scientists with expertise in neuronal cell fate determination, neural circuit assembly, and neuronal stem cell biology. An open exchange of data and ideas will undoubtedly provide further insight into the developmental basis of neurological disorders.

Format of the Workshop

The workshop will bring together 17 speakers and a maximum of 50 participants (including speakers). The scientific programme will start in the morning of Monday, October 26th, and will end around noon on Wednesday, October 28th. 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:

Douglas J. Epstein. University of Pennsylvania School of Medicine. Philadelphia, USA.

Michael P. Matise. UMDNJ/Robert Wood Johnson Medical School. Piscataway, USA.

Ricardo Pardal. Instituto de Biomedicina de Sevilla (IBiS). Sevilla, Spain.

Speakers

William A. Alaynick. Gene Expression Laboratory, The Salk Institute for Biological Studies. La Jolla, CA, USA.

Paola Bovolenta. Departamento de Neurobiología Molecular Celular y del Desarrollo, Instituto Cajal, CSIC, y CIBER de Enfermedades Raras (CIBERER). Madrid, Spain.

James Briscoe. Developmental Neurobiology, National Institute for Medical Research. London, UK.

Kenneth Campbell. Division of Developmental Biology, Cincinnati Children's Hospital Medical Center, University of Cincinnati. Cincinnati, OH, USA.

Susan M. Dymecki. Department of Genetics, Harvard Medical School. Boston, MA, USA.

Douglas J. Epstein. Department of Genetics, University of Pennsylvania School of Medicine. Philadelphia, PA, USA.

Joseph G. Gleason. Neurogenetics Laboratory, Howard Hughes Medical Institute, Department of Neurosciences, University of California, San Diego. La Jolla, CA, USA.

Alex L. Kolodkin. Solomon H. Snyder Department of Neuroscience and Howard Hughes Medical Institute, The Johns Hopkins University School of Medicine. Baltimore, MD, USA.

Oscar Marín. Instituto de Neurociencias de Alicante, CSIC, Universidad Miguel Hernández. Alicante, Spain.

Elisa Martí. Instituto de Biología Molecular de Barcelona, CSIC. Barcelona, Spain.

Michael P. Matise. Department of Neuroscience and Cell Biology, UMDNJ/Robert Wood Johnson Medical School. Piscataway, NJ, USA.

Ricardo Pardal. Instituto de Biomedicina de Sevilla (IBiS), Hospital Universitario Virgen del Rocío, CSIC-Universidad de Sevilla. Sevilla, Spain.

David H. Rowitch. Departments of Pediatrics and Neurological Surgery and Howard Hughes Medical Institute, UCSF. San Francisco, CA, USA.

Patricia C. Salinas. Department of Cell and Developmental Biology, University College London. London, UK.

Lukas Sommer. Cell and Developmental Biology, Institute of Anatomy, University of Zurich. Zurich, Switzerland.

Lorenz Studer. Department of Neurosurgery, Developmental Biology Program, Sloan-Kettering Institute for Cancer Research. New York, NY, USA.

Michael Wegner. Institut für Biochemie, Emil-Fischer-Zentrum, Universität Erlangen. Erlangen, Germany.

Baeza, Spain
26th-28th October 2009

Deadline:
4th September 2009

Venue:
Sede Antonio Machado
Universidad Internacional de Andalucía
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More information and application:
<http://www.unia.es/biomedicine>