

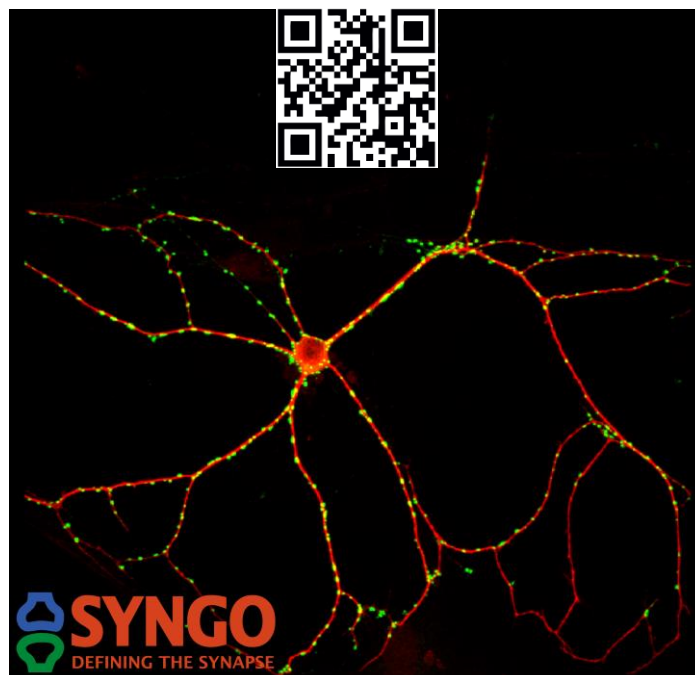


WORKSHOPS
“CURRENT TRENDS IN
BIOMEDICINE”
2021

SEDE ANTONIO MACHADO
BAEZA, SPAIN

THE SYNAPTIC DIMENSION
OF
BRAIN DISORDERS

Baeza, Spain • 4th-6th October 2021





Organized by:

Àlex Bayés

Barcelona, Spain.

Josep Dalmau

Barcelona, Spain.

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Amsterdam, The Netherlands.

Sponsor:



SCOPE

The synapse is the fundamental information-processing unit of the brain, and has recently been shown to lie at the root of a wide range of brain disorders. The recent explosion of large-scale genomics research has opened the door to investigate complex genetic disorders, including neurologic and psychiatric conditions. These studies have shown that genes coding for synaptic proteins accumulate many pathogenic mutations in conditions as different as Alzheimer's Disease, Schizophrenia, Intellectual Disability or Autism Spectrum Disorders. This wealth of evidence has prompted the scientific community to coin the term 'Synaptopathy' to refer to brain disorders in which synaptic dysfunction has a primer pathological role. Understanding the cellular and molecular basis of synaptic



dysfunction could therefore lead to the discovery of new therapeutic approaches for many brain disorders, which otherwise lack specific treatments. The purpose of this workshop is to present the most relevant and recent advances in the study of synaptic dysfunction in the context of brain disorders. In this workshop we aim to bring together leading scientists in the growing field of ‘synaptopathies’, to hear about their latest discoveries, have fruitful discussions and foster future far-reaching international scientific collaborations.

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, October 4th, and will end around noon on Wednesday, October 6th. 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

Xavier Altafaj

Neurophysiology Laboratory, Department of Biomedicine, Institute of Neurosciences, Faculty of Medicine and Health Sciences, University of Barcelona. Barcelona, Spain.



- Claudia Bagni** Department of Fundamental Neurosciences, University of Lausanne. Lausanne, Switzerland / Department of Biomedicine and Prevention, University of Rome Tor Vergata. Rome, Italy.
- Alison L. Barth** Department of Biological Sciences, Carnegie Mellon University. Pittsburgh, PA, USA.
- Àlex Bayés** Molecular Physiology of the Synapse Laboratory, Biomedical Research Institute Sant Pau (IIB Sant Pau). Barcelona / Universitat Autònoma de Barcelona, Bellaterra (Cerdanyola del Vallès); Spain.
- Thomas Bourgeron** Human Genetics and Cognitive Functions, Institut Pasteur, UMR 3571 CNRS / Université de Paris. Paris, France.
- Ana Luísa Carvalho** Center for Neuroscience and Cell Biology (CNC) / Department of Life Sciences; University of Coimbra. Coimbra, Portugal.
- Josep Dalmau** August Pi i Sunyer Biomedical Research Institute, Hospital Clinic, University of Barcelona; Catalan Institution for Research and Advanced Studies (ICREA). Barcelona, Spain / Department of Neurology, University of Pennsylvania. Philadelphia, PA, USA.
- Guoping Feng** McGovern Institute for Brain Research, Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology / Stanley Center for Psychiatric Research, Broad Institute of MIT and Harvard. Cambridge, MA, USA.
- TALK BY VIDEOCONFERENCE**



- Ralda Nehme** Harvard Stem Cell Institute, Department of Stem Cell and Regenerative Biology, Harvard University / Stanley Center for Psychiatric Research, Broad Institute of MIT and Harvard. Cambridge, MA, USA.
- Katherine W. Roche** Receptor Biology Section, National Institute of Neurological Disorders and Stroke, National Institutes of Health. Bethesda, MD, USA.
- Gavin Rumbaugh** Department of Neuroscience, The Scripps Research Institute. Jupiter, FL, USA.
- Morgan Sheng** Stanley Center for Psychiatric Research, Broad Institute of MIT and Harvard; and Department of Brain and Cognitive Sciences, MIT. Cambridge, MA, USA.
- Inna Slutsky** Department of Physiology and Pharmacology, Sackler Faculty of Medicine, Tel Aviv University. Tel Aviv, Israel.
- Matthijs Verhage** Department of Functional Genomics, Center for Neurogenomics and Cognitive Research, Amsterdam Neuroscience, Vrije Universiteit Amsterdam. Amsterdam, The Netherlands.
- Alexander M. Walter** Molecular and Theoretical Neuroscience, Leibniz-Forschungsinstitut für Molekulare Pharmakologie. Berlin, Germany / Department of Neuroscience, Copenhagen University. Copenhagen, Denmark.



DEADLINE: 23rd JULY 2021

MORE APPLICATIONS WILL BE ACCEPTED IN CHRONOLOGICAL ORDER UNTIL COMPLETING THE WORKSHOP

MORE INFORMATION AND APPLICATION:

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

workshops.biomed@unia.es

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