
ÀNGELS GARCÍA-CAZORLA

CV

PARTICIPANT AT:

CONNECTING THE GROWING BRAIN UNDERSTANDING NEUROPAEDIATRIC DISEASES THROUGH SYNAPTIC COMMUNICATION

**November, 26th-27th, 2015, Barcelona**

Àngels García-Cazorla, Pediatric Neurologist. Coordinator of the Neurometabolic Unit and Principal Investigator of the Synaptic Metabolism Laboratory, Hospital Sant Joan de Déu, Barcelona, Spain

She received her M.D. from the University of Barcelona Medical School and obtained a Pediatrics degree and a Ph.D (European Doctorate in mitochondrial diseases) at the "Universitat Autònoma de Barcelona". She did her predoctoral training in inborn errors of metabolism (IEM) at Hôpital Necker, Paris, and a post-doctoral research fellowship in the department of Neurology at Columbia University, New York. She coordinates the Neurometabolic Unit at Hospital Sant Joan de Déu in Barcelona and develops translational research in the field of inborn errors of neurotransmitters and mechanisms of synaptic communication in neurometabolic and rare neurogenetic diseases. She has been granted with 19 grants in metabolic and neurotransmitter disorders and is Associate Professor of Paediatrics at the University of Barcelona. She is currently involved as co-investigator in the international network for the study of neurotransmitters I-NTD (<http://www.intd-online.org>) and has founded the project "Connecting The Growing Brain" (<http://www.connectingthegrowingbrain.com>) for the study of synaptic communication in neuropaediatrics. Over the years she has contributed to paediatric neurology and neurometabolism with more than 100 publications.

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ÀNGELS GARCÍA-CAZORLA ABSTRACT

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Synaptic Metabolism: a New Approach to Study Neuropaediatric Disorders

The synapse is a highly specialized structure with specific chemical composition and metabolic functions that are necessary for an appropriate neuronal communication and brain development. Neurometabolic diseases lead to abnormal concentration of metabolites in the brain. Most of them disturb important pre and post-synaptic functions leading to neurological symptoms such as intellectual disability, neuropsychiatric signs, epilepsy, and movement disorders. The description of "synaptic metabolic pathways" is an interesting approach to study mechanisms of disease and develop new therapeutic options in these disorders

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