

Brain Metabolism Workshop: from rare diseases to common biological pathways

Summer School - HIBRID JOURNEY



Course Director

Dra. Angeles García-Cazorla

Dates

July 6-7, 2023

Imparting

SJD Barcelona Children's Hospital- Digital platform Esplugues de Llobregat. Barcelona

Education

SJD Barcelona Children's Hospital- Paseo Sant Joan de Déu, 2 08950 Esplugues de Llobregat – Barcelona - Tel+34 93 253 21 30

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Hospitalbarcelona.formacion@sjd.es

Registration link

https://formacion.sidhospitalbarcelona.org/

The workshop is supported by EJP RD NSS. Therefore we are able to offer this conference to you only for a minimal fee.*

In person: 25 € Online: 15 €

Countries in which the registration of participants will be free of charge: Countries of Latin America (including Brazil), Africa, the Middle East, Asia (not including Japan, South Korea). In this case, please send an email with a document proving your LMIC country membership to: elisabet.hurtado@sid.es

AIMED AT

- Health professionals dedicated to neurology (pediatric and adult) and/or inborn errors of metabolism and genetics
- Researchers in the field of neuroscience, biochemistry and molecular biology.
- Family Associations.

FUNDED BY

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PROGRAM

18:30-9:10 WORKSHOP OPENING Representatives of the organizing committee and of the ERNs that include neurological disorders (MetabERN, RND-ERN, EpiCare, EURO-NMD, ERN-Ithaca). BRAIN ENERGY ™ETABOLISM 9:10 - 9:30 Brain energy homeostasis during neurodevelopment and aging 9:30 - 9:50 How is brain energy disturbed in inborn errors of metabolism? Indianal Main biological pathways 7ork Main biological pathways 9:50 - 10:10 Brain energy metabolism in rare genetic (non-classically metabolis) epilepiseis 10:10 - 10:30 Mitochondria and Neurodegeneration Alejandra Darling (RND-ERN) 10:30-11:20 Discussion COFFEE BREAK BRAIN AMINO → ID AND PROTEIN HOMEOSTASIS Chairs: Gumus Evren, Turkey 11:50 - 12:10 Role of amino acids and the proteostatic network in the developmental brain developmental brain 12:10 - 12:30 Rare diseases of amino acids and neurological symptoms Trine Tangeroas (MetabERN), Norway 12:30 - 13:10 Discussion LINCH BREAK 14:10 - 15:00 ROUND TABLE: AVENUES FOR INTERACTION BETWEEN ERNs involved in neurological disorders for the development of a BRAIN METABOLISM InterERN NETWORK. Coordinators of the 3 ERNs COMPLEX LIPID METABOLISM AND CELL TRAFFICKING IN THE BRAIN Chairs, exo, endocytosis, suchphagy, transport across the cytoskeleton) and pathophysiological categories of disease 15:20 - 15:40 Round pathophysiological categories of disease 15:20 - 15:40 Discussion COFFEE BREAK NEUROTRANSMISSION AND SIGNALING MOLECULES Chairs: Roser Pons, Athens Chairs Roser Pons		PROGRAIVI	
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19.00 -19:40 Discussion and End of Sessions			Heidelberg
	19.00 -19:40	Discussion and End of Sessions	







	Friday, 07 July, 2023	
BRAIN METABOLISM IN MOTOR DISORDERS		Chair: Thomas Opladen, Heidelberg
8:30 – 8:50	Metabolic pathways affected in Ataxia and Spastic Paraparesis	Roser Pons, Athens (RND-ERN)
8:50 – 9:10	Metabolic pathways affected in Parkinsonism	Vincenzo Leuzzi, Rome
9:10 – 9:30	Metabolic pathways affected in Dystonia and Chorea	Darío Ortigoza, Barcelona (RND-ERN)
9:30 – 9:50	Discussion	
COFFEE BREAK		
BRAIN METABO DISEASES	LISM IN INTELLECTUAL DISABILITY and NEUROPSYCHIATRIC	Chair: Antonio Zorzano, Barcelona
10:20 -10:40	Energy cost of cognition	Felipe Barros, Chile
10:40 -11:00	Brain energy metabolism in Rett syndrome	Uliana Musokhranova, Barcelona
11:00 - 11:20	Effects of neuropsychiatric medication on mitochondrial function.	T. Kozick, USA
11:20 - 11:40	Discussion	
METABOLIC TRE DISEASES	EATMENTS also for RARE NEUROGENETIC "NON-METABOLIC"	Chair: Alejandra Darling
DISEASES	Ketogenic Diet	
DISEASES 11:40 - 12:00		
DISEASES 11:40 - 12:00 12:00 - 12:20	Ketogenic Diet	Galina Stevanovic, Belgrade Fanny Mochel, Paris
11:40 - 12:00 12:00 - 12:20 12:20 -12:40	Ketogenic Diet Metabolic treatments for neurodegenerative disorders Strategies to cross the blood-brain-barrierBrains for Brain	Galina Stevanovic, Belgrade Fanny Mochel, Paris (MetabERN)
11:40 - 12:00 12:00 - 12:20 12:20 -12:40 12:40 - 13:00	Ketogenic Diet Metabolic treatments for neurodegenerative disorders Strategies to cross the blood-brain-barrierBrains for Brain Foundation	Galina Stevanovic, Belgrade Fanny Mochel, Paris (MetabERN)
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