

Final Agenda

"Brain Metabolism Workshop: from rare diseases to common biological pathways"

6 -7th July 2023

Sant Joan de Déu Hospital, Barcelona

Day 1 – 6th July

Thursday, 06 July 2023		
08:30-9:10	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 METABOLISM		<i>Chairs: Shamima Rahman, London</i>
9:10 - 9:30	Brain energy homeostasis during neurodevelopment and aging	<i>Felipe Barros, Chile</i>
9:30 - 9:50	How is brain energy disturbed in inborn errors of metabolism? Main biological pathways	<i>Isaac Marín-Valencia, New York</i>
9:50 -10:10	Brain energy metabolism in rare genetic (non-classically metabolic) epilepsies	<i>C. Fons, Barcelona</i>
10:10 -10:30	Mitochondria and Neurodegeneration	<i>Alejandra Darling</i>
10:30-11:20	Discussion	
COFFEE BREAK		
BRAIN AMINO ACID AND PROTEIN HOMEOSTASIS		<i>Chairs: Gumus Evren, Turkey</i>
11:50 - 12:10	Role of amino acids and the proteostatic network in the developmental brain	<i>Gaia Novarino, Austria</i>
12:10 - 12:30	Rare diseases of amino acids and neurological symptoms	<i>Trine Tangeraas, Norway</i>
12:30 - 13:10	Discussion	
LUNCH 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		<i>Chairs: Manuel Schiff, Paris</i>
15:00 - 15:25	Biological Basis of Cell Trafficking in the Brain (proteins, exo, endocytosis, autophagy, transport across the cytoskeleton....) and pathophysiological categories of disease	<i>Alfonso Oyarzábal, Barcelona</i>
15:25 - 15:50	Neurological Manifestations of Cell trafficking and complex lipid disorders	<i>A García-Cazorla, Barcelona</i>
15:50 - 16:10	Disorders of autophagy	<i>Diego Martinelli, Rome</i>
16:10 - 16:20	Clinical cases: Cell trafficking	<i>Madhu Rajesh, UK</i>
16:20 - 17:00	Discussion	
COFFEE BREAK		
NEUROTRANSMISSION AND SIGNALING MOLECULES		<i>Chairs: Roser Pons, Athens</i>
17:30 - 17:50	Disease mechanisms and therapeutic strategies for SNAREopathies, caused by mutations in presynaptic genes	<i>Matthijs Verhage, Amsterdam</i>
17:50 - 18:10	Neurotransmission in channelopathies	<i>Gabriella Horvarth, Canada</i>
18:10 - 18:30	"SynGo Clinic" a database proposal integrating biological mechanisms, synaptic disorders and clinical manifestations	<i>Juliana Ribeiro, Barcelona</i>
18:30 - 18:40	Mitochondrial involvement in neurotransmitter disorders.	<i>Sabine Jung-Klawitter, Heidelberg</i>
19:00 - 19:40	Discussion and End of Sessions	



Day 2 – 7th July

Friday, 07 July, 2023		
BRAIN METABOLISM IN MOTOR DISORDERS		
		<i>Chairs: Thomas Oplade,, Heidelberg</i>
8:30 – 8:50	Metabolic pathways affected in Ataxia and Spastic Paraparesis	<i>Roser Pons, Athens</i>
8:50 – 9:10	Metabolic pathways affected in Parkinsonism	<i>Vincenzo Leuzzi, Rome</i>
9:10 – 9:30	Metabolic pathways affected in Dystonia and Chorea	<i>Dario Ortigoza, Barcelona</i>
9:30 – 9:50	Discussion	
COFFEE BREAK		
BRAIN METABOLISM IN INTELLECTUAL DISABILITY and NEUROPSYCHIATRIC DISEASES		
		<i>Chairs: Antonio Zorzano, Barcelona</i>
10:20 - 10:40	Energy cost of cognition	<i>Felipe Barros, Chile</i>
10:40 -11:00	Brain energy metabolism in Rett syndrome	<i>Uliana Musokhranova, Barcelona</i>
11:00 - 11:20	Effects of neuropsychiatric medication on mitochondrial function.	<i>Tamas Kozicz, USA</i>
11:20 - 11:40	Discussion	
METABOLIC TREATMENTS also for RARE NEUROGENETIC "NON-METABOLIC" DISEASES		
		<i>Chairs: Alejandra Darling</i>
11:40 - 12:00	Ketogenic Diet	<i>Galina Stevanovic, Belgrade</i>
12:00 - 12:20	Metabolic treatments for neurodegenerative disorders	<i>Fanny Mochel, Paris</i>
12:20 -12:40	Strategies to cross the blood-brain-barrier--- Brains for Brain Foundation	<i>Benjamí Oller Salvia, Barcelona</i>
12:40 - 13:00	Discussion	
LUNCH BREAK		

14:00 - 15:00	ROUND TABLE - Patient advocacy	
LEUKODYSTROPHIES		
		<i>Chairs: Enrico Bertini, Italy</i>
15:00 -15:20	White matter and metabolism in the brain	<i>Odile Boespflug-Tanguy, France</i>
15:20 -15:40	Factors predicting phenotypes in rare leukodystrophies amenable to treatment (X-ADL, MLD...)	<i>Nicole Wolf, The Netherlands</i>
15:40 - 16:00	"New treatments in genetic leukodystrophies	<i>Caroline Sevin, Fanny Mochel, France</i>
16:00 - 16:20	Discussion	
COFFEE BREAK		
16:50 - 17:20	Young doctors	
		<i>Agustin Querejeta-Coma, Spain</i> <i>Edward YS Yueng, China</i>
17:20	WORKSHOP CLOSURE	

