16.10.2023. MONDAY	
8:00-18:00	REGISTRATION
	PARALLEL SYMPOSIA
	S16 "The intertwining of inflammatory pathways in the central nervous system: physiological versus pathological
9:00-10:50	implications" (Carthage I room)
	CHAIRS: Amira Zaky (EG); Youssef Anouar (FR)
	16.1 Youssef Anouar (INSERM, University of Rouen Normandy, France): "Role of a selenoprotein in neuroprotection: application to Parkinson's disease after intranasal"
	16.2 Nermeen Z. Abuelezz (Misr University for Science and Technology Giza, Egypt):
	"MicroRNAs as Potential Orchestrators in Alzheimer's related inflammatory Pathology: An experience from Egypt"
	16.3 Marc Landry (University of Bordeaux; IMN, CNRS, France):
	"Analgesic effects of the relaxin family peptides in inflammatory pain" 16.4 Amira Zaky (Alexandria University, Alexandria, Egypt):
	"Implication of the pleiotropic APE1/Ref-1 Redox activity in pain sensitization mechanism"
	16.5 Elena Lucarini (University of Florence, Italy):
	"Efficacy and pharmacodynamic profile of Brassicaceae constituents in the management of chronic pain"
	S17 "From neuronal plasticity to glia protection: mapping the path of resilience and vulnerability to stress" (Carthage
	room) CHAIRS: Marta Valenza (IT); Carla Nasca (USA)
	S17.1 Barbara di Benedetto (University of Regensburg Regensburg, Germany):
	"Molecular and morphological signatures of astroglial responses to social and emotional dysfunctions"
	\$17.2 Benedetta Bigio (New York University School of Medicine, New York, NY, USA): "Computational approaches and exosomes to identify
	modifiable targets for stress-related disorders" \$17.3 Roberta Facchinetti (Sapienza University of Rome, Italy):
	"Molecular changes of glia and neurons in the maladaptive response to acute stress are prevented by a single administration of ketamine in a
	rodent model of PTSD"
	\$17.4 Laura Musazzi (University of Milano Bicocca, Milan, Italy): "Mechanisms of resilience and vulnerability to chronic mild stress in rats: a role for inflammation?"
	S17.5 Carla Nasca (New York University School of Medicine, New York, NY, USA):
	"Epigenetic mechanisms of neuroplasticity to stress: emerging role of mitochondria"
	S18 "New Perspectives in Mechanisms of Neurodegeneration" (Carthage III room)
	CHAIR: Alexia Polissidis (USA)
	\$18.1 Aaron Gitler (Stanford University, CA USA): "Two New ALS Targets (and one New Drug)" \$18.2 Hilal Lashuel (Ecole Polytechnique Fédérale de Lausanne, Switzerland): "Unraveling the Complex Role of Protein Aggregation in Parkinson's
	Disease; From mechanisms to diagnostics and therapeutic strategies"
	\$18.3 Siham Boumhaouad (Mohammed V University of Rabat, Rabat, Morocco): "The Impact of Melatonin on Diurnal Variation of Extracellular
	Dopamine in CBA/CaJ and C57BL/6 Mice: A Comparative Study" \$18.4 Harry Alexopoulos (University of Athens, Greece): "Drosophila Melanogaster As A Model System For Drug Discovery In Neurodegenerative
	Disorders"
	\$18.5 Alexia Polissidis (Deree- American College Of Greece) Alpha-synuclein-induced stress sensitivity renders the Parkinson's disease brain
	susceptible to neurodegeneration
	S19 "New insights into activated kinases, multiple sclerosis and receptors mechanisms" (Majles room)
	CHAIR: Lamia Bouslama-Oueghlani (FR)
	S19.1 Lamia Bouslama-Oueghlani (Sorbonne University, Paris, France):
	"Pak1 inactivation triggers myelin formation through actin disassembly in oligodendrocytes"
	S19.2 Meriam Belghith (Institut Pasteur de Tunis, Tunisia):
	"The fine tuning of infiltrated t cells in multiple sclerosis" \$19.3 Erika Pintér (University of Pécs, Pécs, Hungary):
	"Determination of the binding sites of organic polysulfides on human trpa1 by mutant variants of the receptor"
	S19.4 Rafika Ben Laamari (Institut Pasteur de Tunis, Tunisia):
	"Study of the Correlation between Herpesvirus Infection and T CD8+ Effector Cells in Patients with Multiple Sclerosis and Neuro-Behçet's Disease"
10:50-11:10	COFFEE BREAK/POSTERS
	PARALLEL SYMPOSIA

S20 "Novel approaches in preclinical neuroscience" (Carthage I room) CHAIR: Christina Dalla (GR), Olfa Masmoudi-Kouki (TN) \$20.1 Christina Dalla (National and Kapodistrian University of Athens, Greece): "Sex as a biological variable in preclinical neuropsychopharmacology" **\$20.2** Panagiotis Politis (Biomedical Research Foundation of the Academy of Athens, Greece): "Gene regulation networks in nervous system cancers: identification of novel pharmacological targets" \$20.3 Elias Pavlopoulos (Velocigene Regeneron Pharmaceuticals, New York, NY, USA): "Human in vitro systems for CNS disease modelling, drug discovery, and drug development" \$20.4 Yosra Hamdi (University of Tunis El Manar, Tunis, Tunisia): "Cytoprotective and Neurotrophic Effects of neuropeptide ODN and PACAP in in vitro and in vivo Models of Neurodegenerative Diseases" S20.5 Rafael Madonado (University Pompeu Fabra, Barcelona, Spain): "Involvement of gut microbiota and epigenetic factors in food addiction" S21 "Fighting neurological diseases from the intestine: impact of enteric microbiota, immune and nervous system on the gut-brain axis" (Carthage II room) CHAIRS: Luisa Seguella (IT), Lorenzo Di Cesare Mannelli (IT) S21.1 Matteo Fornai (University of Pisa, Italy): "Intestinal epithelial barrier at the crossroads between the microbiota-gut-brain axis and neurodegenerative disorders." S21.2 Giuseppina D'Alessandro (Sapienza University of Rome, Italy): "Gut microbiota alterations affect glioma growth and innate immune cells." **S21.3** Malvyne Derkinderen (UMR Inserm, Faculté de Médecine, Nantes, France): "Can probiotics modulate gut inflammation and induce gut-brain axis remodelling?" **S21.4** Aitak Farzi (Otto Loewi Research Center, Medical University of Graz, Austria): "Gut-brain communication in bipolar disorder." 11:10-13:00 **S21.5** Jacques Gonzales (Michigan State University, East Lansing, USA): "Early life adversity disrupts intestinal function by remodelling the enteric nervous system." S22 "The role of nitric oxide signalling in brain pathologies. Therapeutic implications and their limit. (Carthage III room) CHAIR: Joanna M. Wierońska (PL) S22.1 Vicente Felipo (Centro de Investigación Príncipe Felipe, Valencia, Spain): "Differential role of nitric oxide signalling in the deleterious effects of acute and chronic hyperammonemia" **\$22.2** Nikolaos Pitsikas (University of Thessaly, Volos, Greece): "Nitric oxide (NO) donors. Potential candidates for the treatment of anxiety disorders?" **S22.3** Joanna M Wierońska (Maj Institute of Pharmacology Polish Academy of Sciences, Poland): "The role of nitric oxide dependent pathways in the precognitive activity of metabotropic glutamate receptors ligands" **S22.4** Fella Tounsi (Mouloud Mammeri University of Tizi Ouzou, Algeria): "The role of nitric oxide signalling in brain pathologies. Therapeutic implications and their limits." S22.5 Paulina Bastian (Medical University of Gdansk, Poland): "2-methoxyestradiol – mediated control of nNOS and Heat Shock Proteins affects DNA in glioblastoma cells" S23 "Novel insights into alpha-synuclein pathology and toxicity in neurodegenerative diseases" (Majles room) CHAIR: Arianna Bellucci (IT) S23.1 Luigi Bubacco (University of Padua, Italy): "Dopamine metabolites initiate αSynuclein-mediated impaired proteostasis and degeneration in neuronal projections" **S23.2** Leonidas Stefanis (University of Athens Medical School, Athens 11527, Greece): "Alpha-synuclein interplay with protein degradation systems" **S23.3** Sarah-Anna Hescham (Maastricht University Medical Center, The Netherlands): "Magnetothermal nanoparticle technology alleviates parkinsonian-like symptoms in mice." S23.4 Arianna Bellucci (University of Brescia, Italy): "Synaptic alpha-synuclein microaggregates in synucleinopathies: engine of neurodegeneration and key therapeutic targets" 13:00-14:00 LUNCH PARALLEL SYMPOSIA S24 "Sex differences in translational mechanisms of fear-based disorders" (Carthage I room) CHAIR: Raül Andero Galí (ES) 524.1 Joanna Dabrowska (Rosalind Franklin University of Medicine and Science, Chicago, IL, USA): "The integration of interoceptive signals and defensive behaviors via oxytocin receptor-expressing neurons in the bed nucleus of the stria **S24.2** Arnau Ramos Prats (Medical University of Innsbruck, Austria): "Sex differences in mglu5 receptor-mediated control of negative valence in mice" 524.3 Hanna Hörnberg (Max Delbrück Center for Molecular Medicine, Berlin, Germany): "Sex differences in translational mechanisms of fear-based **S24.4** Raül Andero Galí (Autonomous University of Barcelona, Spain): "Sex differences in neural mechanisms of the NK3 receptor modulating fear"

S25 "Non-neuronal cells as guardians of CNS homeostasis: relevance in brain development and diseases" (Carthage II

CHAIRS: Mariagrazia Grilli (IT); Roberta Facchinetti (IT)

\$25.1 Marta Valenza (Sapienza University of Rome, Italy):

"The role of astrocytes in mediating oligodendrocyte maturation and function: evidence with co-ultramicronized palmitoylethanolamide/luteolin in models of beta-amyloid toxicity"

S25.2 Rosa Chiara Paolicelli (University of Lausanne, Switzerland):

"The Alzheimer's disease risk gene Inpp5d modulates synaptic pruning by microglia in the developing hippocampus"

S25.3 Mariagrazia Grilli (University of Piemonte Orientale, Novara, Italy):

"Multifaceted non-neuronal dysfunction as a novel pharmacological target in neurodevelopmental and neuropsychiatric disorders"

S25.4 Neibla Priego (Spanish National Cancer Research Centre (CNIO), Madrid, Spain):

"TIMP1 mediates astrocyte-dependent local immunosuppression in brain metastasis"

S26 "Dissecting the complexity of neurodevelopmental disorders: from pathophysiology to novel therapeutic approaches" (Carthage III room)

14:00-15:50

CHAIRS: Antonia Manduca (IT) and Anna Maria Tartaglione (IT)

26.1 Marco Segatto (University of Molise, Italy):

"Disruption of cholesterol homeostasis in Rett syndrome: a new role for BET proteins"

S26.2 Elena Martín-García (Universitat Pompeu Fabra, Barcelona, Spain):

"THC exposure during adolescence increases impulsivity-like behavior in adulthood in a WIN 55,212-2 self-administration mouse model"

S26.3 Tibor Stark (Masaryk University, Brno, Czech Republic):

"Role of the endocannabinoid system in the pathophysiology and treatment of schizophrenia: the emerging potential of preventive approach"

S26.4 Anna Maria Tartaglione (Italian National Institute of Health, ISS, Rome, Italy):

"Exploring the role of endogenous retroviruses in Autism Spectrum Disorder: evidence from preclinical models"

S27 "Therapeutic Use of Cannabinoids in Neurodegenerative Disorders" (Majles room)

CHAIRS: Alessia Ligresti (IT); Eva De Lago (ES)

S27.1 Alessia Ligresti (National Research Council of Italy (ICB-CNR, Italy):

"Targeting cannabinoid receptor 2 in neurodegenerative diseases: recent efforts from a medicinal chemistry perspective"

S27.2 Julian Romero (Universidad Francisco de Vitoria, Madrid, Spain):

"Cannabinoid modulation of microglial function in the context of neuroinflammation"

S27.3 Eva De Lago (Universidad Complutense de Madrid, Spain):

"Preclinical development of cannabinoid-based therapies in pathologies related to TDP-43 dysregulation: Amyotrophic lateral sclerosis and frontotemporal dementia"

\$27.4 Mario Van Der Stelt (Leiden University, The Netherlands):

"Controlling and Visualizing Lipid Signaling in the Brain"

S28 "Chemical and Molecular Tools to Understand the Brain in Health and Disease" (Carthage VII) CHAIRS: Ismail Ahmed (USA); Hilal Lashuel (CH)

S28.1 Ismail Ahmed (New York University School of Medicine, NY, USA):

"Optopharmacological tools for spatiotemporal control of neurohormone signaling and social behavior"

\$28.2 Eleonora Palma (Sapienza University of Rome):

"The imbalance between pro-epileptogenic and protective cytokines in human epilepsies"

S28.3 Leena Ali Ibrahim (Harvard Medical School, MA, USA):

"Developmental dynamics of bottom-up and top-down input integration onto L1 interneurons in the sensory cortex"

S28.4 Ines El Bini Dhouib (Pasteur Institute of Tunisia, Tunisia)

"Insights into Parkinson's with Potassium Channels at the Forefront"

S28.5 Hilal Lashuel (Swiss Federal Institute of Technology Lausanne, Switzerland):

Post-translational Modifications in Parkinson's disease and Synucleinopathies: From mechanisms to novel targets and therapeutic opportunities

15:50-16:50

KEYNOTE LECTURE: TRACEY SHORS

Everyday trauma – and how not to ruminate on it so much

CHAIR: Christina Dalla

(Carthage room I)

VISIT to Sidi Bou Said (18.00)





** frontiersALA DINNER (20.00-23.00)+A1:B27