



MNS

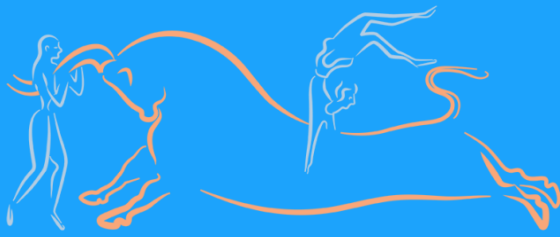
Mediterranean
Neuroscience Society

MNS²⁰²⁵

10TH Mediterranean
Neuroscience
Society Conference

07-11 JUNE 2025
CHANIA, CRETE, GREECE





MNS 2025

10TH Mediterranean Neuroscience Society Conference

Scientific Program

Saturday, June 7, 2025

Main Hall - 16:00-16:30

Opening Ceremony

Main Hall - 16:30-17:30

Keynote Lecture 1

Chair: Giuseppe Di Giovanni | Magna Græcia University, Italy

How to make a Hippocampus

Shubha Tole | Tata Institute of Fundamental Research, Mumbai, India

Main Hall - 17:30 - 19:00

ALBA Network-IBRO Keynote: Building resilience to sustain EDI efforts in neuroscience

Speakers:

Francesca Cirulli | Istituto Superiore Di Sanità, Italy

Carmen Sandi | Epfl, Switzerland

Shubha Tole | Tata Institute of Fundamental Research, Mumbai, India

INTERNATIONAL BRAIN



RESEARCH ORGANIZATION



ALBA
NETWORK
a division of FENS

SATURDAY, JUNE 7, 2025

SUNDAY, JUNE 8, 2025

Sunday, June 8, 2025

Main Hall - 9:00-10:45

Symposium 01: Perinatal psychiatry meets immunology: From mechanisms to therapeutic frontiers

Chair: Annamaria Cattaneo | University of Milan/irccs, Italy

Impact of Stress in pregnancy on maternal and offspring behaviors: the key role of immune system and placenta functioning.

Annamaria Cattaneo | University of Milan/irccs, Italy

Role of maternal milk in the intergenerational transmission of maternal stress to her offspring

Aniko Korosi | University of Amsterdam, Netherlands

Differential embedding of psychological and metabolic stressors experienced during prenatal life in male and female offspring

Francesca Cirulli | Istituto Superiore Di Sanità, Italy

PUFA diet reverses prenatal THC-Induced deficits in rats

Cesare D'Amico | University of Palermo, Italy

Hall I - 9:00-10:45

Symposium 02: The intricate and charming cooperation between glial cells and neurons in neurodegeneration

Chair: Elena Marcello | Università Degli Studi Di Milano, Italy, Caterina Scuderi | Sapienza University of Rome, Italy

Lost Connections: the role of synapses in memory decline in Alzheimer's Disease

Silvia Pelucchi | University of Milan, Italy

Oligodendrocyte lineage cells as gatekeepers of neuroinflammation

Alerie Guzmán De La Fuente | Institute For Neuroscience CSIC-UMH, Spain

Atp8a2 controls phosphatidylserine externalisation, structural integrity and survival in neurons

Daniela Mauceri | University of Marburg and Heidelberg University, Germany

The mGluR5 negative allosteric modulator CTEP reduces the aberrant activation and neurotoxicity of human-derived astrocytes differentiated from fibroblasts of ALS patients

Marco Milanese | University of Genoa, Italy

Hall II - 9:00-10:45

Symposium 03: Derangement in endocannabinoid trajectories during neurodevelopment: new targets, new perspectives

Chair: Carla Cannizzaro | University of Palermo, Italy

Impacts of Prenatal Cannabinoid Exposure on Psychiatric Risks: Exploring the Impacts of Dietary Omega-3 Interventions

Steven Laviolette | University of Western Ontario, Canada

Maternal exposure to THC disrupts spatial memory in the offspring via the hippocampal glucocorticoid/BDNF crosstalk.

Anna Brancato | University of Palermo, Italy

Exploring long-term effects of adolescent cannabidiol exposure

Erica Zamberletti | University of Insubria, Italy

Adolescent cannabinoid exposure as a gateway for psychopathologies: the usefulness of animal models

Alejandro Higuera-Matas | National University for Distance Learning (UNED), Spain

Hall III - 9:00-10:45

Symposium 04: Signalling at the neuronal membrane: role of receptor cross-talk and extracellular environment

Chair: Laurent Groc | Cnrs, France

Protein Complexes as Therapeutic Targets for the Treatment of Neuropsychiatric Diseases

Fang Liu | Centre For Addiction and Mental Health, Canada

Cannabinoid receptors regulate NMDAR activity in Alzheimer's disease.

Gemma Navarro Brugal | Universitat De Barcelona, Spain

On the Integrative Role of α -Synuclein-GPCR and GPCR-GPCR Heterocomplexes in Parkinson's Disease: Lessons from the BSSG Rat Model

Dasiel Oscar Borroto Escuela | University of Malaga, Spain

Receptor organization outside synapses : should we care ?

Laurent Groc | Cnrs, France

Human cerebrospinal fluid and neuronal excitability

Eric Hanse | Göteborgs Universitet, Sweden

Hall IV - 9:00-10:45

Symposium 05: The Peripheral Nervous System as a dynamic window to central pain mechanisms

Chairs: Otmane Bouchatta | Linköping University, Sweden, Sabatino Maione | Vanvitelli, Italy

Translational aspects of how the periphery talks to the spinal cord about pain

Anthony Dickenson | University College London, United Kingdom

Gut microbiome in pain regulation and neuroinflammation

Francesca Guida / University of Campania Luigi Vanvitelli, Italy

Long-Term Neuropathy in a Mouse Model of Spared Nerve Injury: Electrophysiological and Behavioral Outcomes

Sabatino Maione / Vanvitelli, Italy

Gain of function in human A-beta nociceptors during acute heat-induced inflammation

Otmane Bouchatta / Linköping University, Sweden

Targeting peripheral transient receptor potential vanilloid 1 for osteoarthritis pain: innovative slow-release capsaicin hydrogel technology

Rosmara Infantino / University of Galway, Ireland

Athina Hall - 9:00-10:45

Symposium 06: d-Serine amino acids at the heart of brain circuitries: What is going on?

Chair: Jean-Pierre Mothet | Ens Paris-Saclay, France

Astrocyte d-serine is required for long-term depression

Antonio Rodriguez-Moreno / Universidad Pablo de Olavide, Spain

A multi-OMICS approach in the investigation of serine metabolism

Silvia Sacchi / University of Insubria, Italy

NMDA receptor regulation by the serine shuttle between glia and neurons

Herman Wolosker / Technion-Israel Institute of Technology, Israel

d-Serine agonism of GluN1-GluN3 NMDA receptors regulates the activity of enteric neurons and gastrointestinal functions

Jean-Pierre Mothet / Ens Paris-Saclay, France

10:45-11:15

Coffee Break & Poster Session 1

Main Hall - 11:15-13:00

Symposium 07: Preclinical dissection of psychedelic mechanisms of action in anxiety -and depression- like behaviors

Chair: Anna Beyeler | Inserm U1215, France

Targeting Adult Hippocampal Cytogenesis: Psilocybin's Role in Depression Therapy

Luisa Pinto / ICVS, University of Minho, Portugal

"2B or not 2B" that is the question of its involvement in LSD's antidepressant action

Amel Bouloufa / Inserm, France

Not all serotonergic psychedelics are alike - they induce distinct patterns of altered metabolic activity and connectivity

Frederik Gudmundsen / University of Southern Denmark, Denmark

Function of neural circuits of the insular cortex in the impact of a single dose of psychedelics on anxiety

Anna Beyeler | Inserm U1215, France

Hall I - 11:15-13:00

Symposium 08: Neurobiological mechanisms of excessive consumption of natural and drug rewards

Chairs: Yonatan Kupchik | The Hebrew University, Israel, Rami Yaka | Hebrew University Of Israel, Israel

Recruitment of inhibitory neuronal pathways regulating dopaminergic activity for the control of cocaine reward and drug intake.

Rami Yaka | Hebrew University of Israel, Israel

Mitochondrial dysfunction: a consequence of cocaine exposure.

Claire Thornton | Royal Veterinary College, United Kingdom

Neural représentation of rewards and addictive substances in the nucleus accumbens.

Carina Soares-Cunha | IcvS, University of Minho, Portugal

Ventral pallidal inhibition of the lateral hypothalamus is impaired in diet-induced obesity.

Yonatan Kupchik | The Hebrew University, Israel

Hall II - 11:15-13:00

Symposium 09: Neuroendocrine mechanisms and neuromodulation in non-traditional model species: monkeys, songbirds, zebrafish, and dromedary camels

Chairs: Lane Krejcova | Federal University of Pará, Brazil, Luke Ramage Healey | University of Massachusetts, United States of America

Exploring doxycycline's neuroprotective potential in a non-human primate model of Parkinsonism

Lane Krejcova | Federal University of Pará, Brazil

Neurosteroidogenesis and neuroplasticity in zebrafish

Thierry Charlier | University of Rennes, France

Learning, cell-types, hormones, and modulation in the songbird auditory system

Luke Ramage Healey | University of Massachusetts, United States of America

Hall III - 11:15-13:00

Symposium 10: Sex as a Biological Variable (SABV) in neuroscience: Addressing challenges, complexities, and overlooked factors

Chair: Ivana Jaric | University of Zurich, Switzerland

Implementing Sex as a Biological Variable in Developmental Research

Cheryl McCormick | Brock University, Canada

Impact of aromatase inhibition on hippocampal metabolomics in male and female young and aged rats

Nikolaos Kokras | National and Kapodistrian University of Athens, Greece

The 4 S's in neuroscience animal research: Species, Strain, Settings, and Sex

Paola Palanza | Università of Parma, Italy

The importance of environmental and hormonal factors in implementing SABV in mouse neurobehavioral research

Ivana Jaric | University of Zurich, Switzerland

Hall IV - 11:15-13:00

Symposium 11: Exploring the intersection of stress, fear, and emotion regulation: molecular, neural and behavioral insights

Chair: Maria Morena | Sapienza University of Rome, Italy

Behavioral and neural predictors of extinction memory to fear, food, and alcohol cues

Marissa Raskin | University of Texas at Austin, United States of America

The role of the medial habenula in emotional behavior.

Edgar Soria-Gomez | University of The Basque Country, Spain

Stress and fear extinction: exploring the role of amygdala-entorhinal cortex pathway

Maria Morena | Sapienza University of Rome, Italy

What makes the difference? Resilience versus vulnerability after highly stressful experiences - a longitudinal study in mouse

Beat Lutz | University Medical Center Mainz, Germany

Athina Hall - 11:15-13:00

Symposium 12: Proteostasis-regulating mechanisms at the cellular and organismal levels

Chair: Ehud Cohen | The Hebrew University, Israel

Deciphering the nuclear roles of HSP70 and its carrier Hikeshi using C. elegans

Anat Ben-Zvi | Ben-Gurion University of the Negev, Israel

Unraveling mitochondrial impairment in human tauopathy: lessons from the nematode C. elegans

Konstantinos Palikaras | Medical School, NKUA, Greece

Impaired sphingolipid homeostasis exacerbates tau pathology by disrupting endolysosomal integrity through endomembrane rigidification

Carmen Nussbaum-Krammer | Ludwig Maximilians University of Munich, Germany

A nucleolar mechanism suppresses organismal proteostasis by modulating TGF β /ERK signalling.

Ehud Cohen | The Hebrew University, Israel

Proteostatic function of the ER-resident Selenoprotein T in neuronal and neuroendocrine systems: role in physiology and pathophysiology

Youssef Anouar | Inserm, France

13:00-14:00

Lunch Break

Main Hall - 14:00-15:00

Special Event 01: Navigating Stress, Gender, and Cultural diversities: Building Inclusive Careers in Neuroscience

Chair: Patrizia Campolongo | Sapienza University of Rome, Italy

Opening Remarks

Patrizia Campolongo | Sapienza University of Rome, Italy

Marco Andrea Riva | University of Milan, Italy

Opening perspectives on gender disparities in stress research and the Mediterranean neuroscience community

Christina Dalla | National and Kapodistrian University of Athens, Greece

Rethinking Stress Through Biology and Culture

George Chrousos | University of Athens, Greece

Promoting diversity and global collaboration in neuroscience: lessons from major international initiatives

Carmen Sandi | Epfl, Switzerland

Gender equity and stress research: bridging science and advocacy in Europe

Francesca Cirulli | Istituto Superiore Di Sanità, Italy

Perspectives on structural and cultural challenges for women in science in North Africa

Olfa Masmoudi | Faculty of Sciences of Tunis, University Tunis El Manar, Tunisia

The neuroepigenetics of early adversity and intergenerational trauma: integrating stress, equity, and translational neuroscience

Ali Jawaid | Lukasiewicz Research Network- PORT Polish Center for Technology Development, Poland

Reflections on stress, cultural identity, and navigating academic systems from North Africa to USA and Europe

Youssef Anouar / Inserm, France

Open Discussion with the Audience

Hall II - 14:00-15:00

Special Event 02: From Vision to Reality: Direct real time imaging biological events in real time and augmented by machine learning analysis

Chair: Nikos Hatzakis | University of Copenhagen, Denmark

Main Hall - 15:00-16:45

Symposium 13: Lifetime stress and brain pathology in cognitive disorders and dementia: from target identification to novel pharmacological strategies

Chairs: Filippo Caraci | Associazione Oasi Maria Ss. Onlus, Italy, Ioannis Sotiropoulos | NCSR "Demokritos", Greece

Identifying the molecular "footprints" of chronic stress and its biomarker potential on Alzheimer's disease brain pathology

Ioannis Sotiropoulos / NCSR "Demokritos", Greece

From Post-Traumatic Stress Disorder to memory deficits and cognitive disorders : a role for endocannabinoid system?

Patrizia Campolongo / Sapienza University of Rome, Italy

Neuroinflammation and serotonergic system in AD

Philippe De Deurwaerdere / University of Bordeaux, France

Depression and AD: TGF- β 1 as a common pharmacological target?

Filippo Caraci / Associazione Oasi Maria Ss. Onlus, Italy

Hall I - 15:00-16:45

Symposium 14: Microglia and drugs of abuse: Structural, functional, and behavioral implications

Chairs: Kathryn J. Reissner | University of North Carolina at Chapel Hill, United States of America, Jill Turner | University of Kentucky, United States of America

The roles of dorsal striatum astrocyte Ca²⁺ in cocaine seeking

Pavel Ortinski / University of Kentucky, United States of America

Abstinence from cocaine self-administration triggers microglia pruning of astrocytes which mediates incubation of cocaine seeking

Kathryn J. Reissner / University of North Carolina at Chapel Hill, United States of America

Microglial Developmental, Homeostatic and Immune functions are Regulated by PROS1

Tal Burstyn-Cohen / The Hebrew University, Israel

Cholesterol 24-hydroxylase overexpression in the dorsal striatum reduces relapse to cocaine-seeking

Nathalie Thiriet | Inserm U1084, France

Hall II - 15:00-16:45

Symposium 15: Unravelling the molecular mechanisms involved in the development of neuropsychiatric disorders for better pharmacological treatments

Chairs: Sâmia Joca | Aarhus University, Denmark, Vincenzo Micale | University Of Catania, Italy

Impact of prenatal Cannabis exposure on neurodevelopment in rodents: from behavior to molecular mechanisms

Serena Di Martino | University of Catania, Italy

Shedding light on the role of the endocannabinoid system in schizophrenia: from preclinical to human evidence

Magdalena Białoń | Maj Institute of Pharmacology, Polish Academy of Sciences, Poland

Role of the histone variant macroH2A1.1 in the central nervous system: potential involvement in neurodevelopmental disorder

Irene Coppola | Istituto Superiore Di Sanità, Italy

Exploring the involvement of the endocannabinoid system in ketamine antidepressant properties

Sâmia Joca | Aarhus University, Denmark

Hall III - 15:00-16:45

Symposium 16: What's new on cerebral processing of multisensory input: From self-motion perception to action

Chair: Alexandra Séverac Cauquil | Université De Toulouse, France

Diving into the cortical basis of forward self-motion

Sarah Marchand | Cnrs/université De Toulouse, France

Visual motion processing in the dorsal stream when area V6 is damaged

Patrizia Fattori | University of Bologna, Italy

Sensorimotor integration in Egomotion-related visual areas

Sabrina Pitzalis | University of Rome "Foro Italico", Italy

Cortical integration processes in visually-guided walking

Francesca Strappini | University of "Foro Italico", Italy

How multisensory integration and neuroplasticity interventions can help improve the health of neurodegenerative diseases patients

Amir Amedi | Reichman University, Israel

Hall IV - 15:00-16:45

Symposium 17: What's new from the bench: Classical and novel ion signaling pathways in the central nervous system

Chairs: Francesco Moccia | University of Molise, Italy, Teresa Soda | University Of Catanzaro, Italy

Cortical interneurons: novel intracellular mediators of axonal outgrowth and migration

Domna Karagogeos | University of Crete, Greece

NMDA receptors in Autism Spectrum Disorders: A focus on the cerebellum

Teresa Soda | University of Catanzaro, Italy

STIM-mediated signaling in cortical neurons

Joanna Gruszczyńska-Biegala | Mossakowski Medical Research Institute Polish Academy of Sciences, Poland

Intracellular Ca²⁺ signaling and nitric oxide production in human brain microvascular endothelium

Francesco Moccia | University of Molise, Italy

Athina Hall - 15:00-16:45

Symposium 18: Neural Control of Eating Behavior: From Brain Circuits to Innovative Therapies for Obesity and Eating Disorders

Chair: Adele Romano | Sapienza University of Rome, Italy

Gut hormone agonists in the treatment of eating disorders

Thomas Lutz | University of Zurich, Switzerland

Unlocking the Potential of Oleoylethanolamide in Obesity and Binge Eating: Targeting Central Pathways for Innovative Therapies

Silvana Gaetani | Sapienza University of Rome, Italy, Italy

Positive Allosteric Modulators of GLP1 and 5HT_{2c} Serotonin Receptors for obesity disorders

Fernando Rodriguez de Fonseca | IBIMA Plataforma BIONAND, Spain

Impaired microglia-driven synaptic pruning in anorexia nervosa-resultat from stem cell models

Ida Nilsson | Karolinska Institutet, Sweden

Identifying Novel Druggable Targets to Counteract Binge-Like Eating Behavior in Rats

Marta Valenza | Sapienza University of Rome, Italy

Epigenetic Reprogramming of POMC Neurons: Can Caloric Restriction Reverse Obesity-Induced DNA Methylation?

Estefania Tarifeno-Saldivia / University of Concepción, Chile

16:45-17:15

Coffee Break & Poster Session 1

Main Hall - 17:15-18:15

Keynote Lecture 2

Chair: Christina Dalla | National and Kapodistrian University of Athens, Greece

Sex differences in the brain at the intersection of the nervous, immune and endocrine systems

Margaret M. McCarthy / University of Maryland, School of Medicine, United States of America

Athina Hall - 18:30-19:30

Workshop: Map train your brain & Stay fit for life!

Chair: Tracey Shors | Rutgers University, United States of America

Monday, June 9, 2025

Main Hall - 9:00-10:45

Symposium 19: Practical translational approaches to improve women's mental health

Chair: Debra Bangasser | Georgia State University, United States of America

Sex differences in immune function contribute to stress and mood disorders, a translational tale.

Georgia Hodes | Virginia Tech, United States of America

Resource scarcity affects postpartum defensive and threat behaviors and related circuits

Debra Bangasser | Georgia State University, United States of America

Translational findings on PACAP regulation of threat processing in PTSD and fear in females across species

Kerry Ressler | Mclean Hospital / Harvard Medical School, United States of America

From neurogenesis to mental health: How bench work inspired an intervention for women with a history of sexual trauma

Tracey Shors | Rutgers University, United States of America

Hall I - 9:00-10:45

Symposium 20: Myelin pathophysiology and repair mechanisms in multiple sclerosis, Alzheimer's and Parkinson's diseases

Chair: Aleksandra Rutkowska | Medical University of Gdańsk, Poland

Effects of global chronic inflammation on behavioral changes during aging

Eva Jimenez | Trinity College Dublin, Ireland

Alpha-Synuclein and White Matter Adaptations in Parkinson's Disease

Sinead O'Sullivan | German Center for Neurodegenerative Diseases (DZNE), Germany

The role of EBI2 in T cell-mediated neuroinflammation

Florian Kurschus | Hautklinik Heidelberg, Germany

Oxysterols as Novel Therapeutic Targets for the Management and Treatment of Multiple Sclerosis

Aleksandra Rutkowska | Medical University of Gdańsk, Poland

Hall II - 9:00-10:45

Symposium 21: Peripheral biomarkers and protein aggregation in the prodromal phase of neurodegeneration

Chairs: Graziella Cappelletti | Università Degli Studi Di Milano, Italy, Antonella Scorziello | Federico II University of Naples, Italy

MONDAY, JUNE 9, 2025

Alpha-synuclein and Tau aggregates polymorphism in distinct synucleinopathies and tauopathies

Ronald Melki | CEA - CNRS, France

Investigating Parkinson's disease in skin biopsies

Milo Jarno Basellini | University of Milan, Italy

A role of the lysosome in the pathogenesis of alpha-Synucleinopathies.

Maria Xilouri | Biomedical Research Foundation of The Academy of Athens, Greece

Sex Differences in Circulating Biomarkers of patients with Alzheimer's disease

Carmela Matrone | University of Naples Federico II, Italy

Hall III - 9:00-10:45

Symposium 22: Perturbations of Serotonergic Circuitry: From Brain Development to Adult Behavior

Chair: Nuno Dinis Alves | ICVS | University of Minho, Portugal, Joana Gonçalves | University of Coimbra, Portugal

Role of serotonin brain circuit in the development emergence of innate fear across species

Giulia Zanni | RFMH/Columbia University, United States of America

Development and plasticity of the serotonergic circuit

Massimo Pasqualetti | University of Pisa, Italy

Sex-Dependent Serotonergic Modulation in Autism Spectrum Disorder: Insights from pre-clinical view

Joana Gonçalves | University of Coimbra, Portugal

Serotonin Contribution to Cognitive Flexibility and Emotional Behavior

Nuno Dinis Alves | ICVS | University of Minho, Portugal

Hall IV - 9:00-10:45

Symposium 23: Rethinking the role of the external globus pallidus in basal ganglia functions

Chair: Marc Deffains | Cnrs - Bordeaux University, France

Contribution of the non-human primate external globus pallidus in decision-making.

Thomas Boraud | IMN, France

Entrainment and synchrony of globus pallidus neurons

Joshua Goldberg | Hebrew University of Jerusalem, Israel

Dichotomic activity and function of the low and high frequency discharge neurons of the non-human primate external globus pallidus.

Shiran Katabi | Hadassah University Hospital, Israel

Anatomical and functional connectivity of arkypallidal and prototypic neurons of the rodent external globus pallidus

Maya Ketzef | Karolinska Institutet, Sweden

Neuronal multidimensionality of the rodent external globus pallidus

Dana Cohen | Bar-ilan University, Israel

Athina Hall - 9:00-10:45

Symposium 24: When neuronal firing fails: Epilepsy and its neurobiological consequences

Chair: Roberto Colangeli | Università Politecnica delle Marche, Italy

Absence Seizures and Cognitive Impairment in Neurodevelopment of GAERS Rats

Tatiana Morais | Icv, Portugal

Cannabinoids and comorbidities in epilepsy

Roberto Colangeli | Università Politecnica delle Marche, Italy

Postictal hypoxia as a mechanism of SUDEP

Gordon Campbell Teskey | University of Calgary, Canada

Somatostatin effect on GABAergic Function in Tuberous Sclerosis Complex

Eleonora Palma | Sapienza University of Rome, Italy

Targeted over-expression of multiple GABAA receptor subunits increases the sensitivity to GABAergic anti-seizure medications

Gabriele Ruffolo | Sapienza University of Rome, Italy

10:45-11:15

Coffee Break & Poster Session 2

Main Hall - 11:15-13:00

Symposium 25: The role of the hippocampus in normal and pathological cognitive aging

Chair: Victor Luna | Temple University, United States of America

Role of adult-born dentate neurons in successful cognitive aging

Nora Abrous | Inserm U1215, France

Hippocampal mechanisms underlying sex differences in cognitive aging

Victor Luna | Temple University, United States of America

Primary cilia-autophagy axis in hippocampal neurons is essential to maintain cognitive resilience

Franck Oury | Institut Necker Enfants-malades (inem), France

Activity dependent synapse elimination in glial cells in Alzheimer's disease

Won-Suk Chung | KAIST, Republic of Korea

Hall I - 11:15-13:00

Symposium 26: Challenges and benefits in promoting adult neurogenesis and central myelination: State of the art with natural compounds and chemically-designed small molecules

Chair: Fernando De Castro | Instituto Cajal-csic, Spain, Hiroko Isoda | University of Tsukuba, Japan

Casc15 lncRNA in regulation of neuroblast migration

Jemima Becker | University of Oxford, United Kingdom

Unexpected targets for adult CNS (re)myelination approached with new small molecules

Fernando De Castro | Instituto Cajal-csic, Spain

Regulation of neurogenesis and myelination by antioxidant natural compounds

Hiroko Isoda | University of Tsukuba, Japan

Inhalation of Mirtille essential oil with 1,8-cineole as a major constituent induces antidepressant-like effect via enhancement of olfactory bulb neurogenesis

Kazunori Sasaki | University of Tsukuba / Aist, Japan

Anti-Stress and Anxiolytic Effects of Standardized Rosemary Extract: Materialization of Functional Food Ingredients and Clinical Evidence

Satoshi Fukumitsu | Nippon Corporation, Japan

Rosemary as an anxiolytic and antidepressant: findings from preclinical studies and a pilot clinical trial

Mariem Achour | Alliance For Research On The Mediterranean and North Africa (ARENA), University of Tsukuba, Tsukuba, Japan

Physico-chemical Study on Inhalation of Terpene Compounds in the Diffusor for Animal Test

Mitsutoshi Nakajima | University of Tsukuba, Japan

Hall II - 11:15-13:00

Symposium 27: Neurobiology of stress across the lifespan: From resilience to transmission

Chair: Ali Jawaaid | Lukasiewicz Research Network- PORT Polish Center for Technology Development, Poland, Giulia Federica Mancini | Sapienza University of Rome, Italy

The impact of early-life stress on vulnerability and resilience to psychiatric disorders later in life

Giulia Federica Mancini | Sapienza University of Rome, Italy

Molecular and cellular signature of early life trauma

Harmen Krugers | University of Amsterdam, Netherlands

Prenatal stress rewires adult-born dentate granule neurons connectivity

Aroa Manas-Ojeda | INSERM U1215, France

Towards the biological plausibility and biomarkers of intergenerational trauma in humans

Ali Jawaaid | Lukasiewicz Research Network- PORT Polish Center For Technology Development, Poland

Hall III - 11:15-13:00

Symposium 28: Neural correlates of perceptual decision-making

Chair: Ourania Semelidou | INSERM U1215, France

Neural underpinnings of altered perceptual decision-making in autism

Ourania Semelidou | INSERM U1215, France

Dynamics of Decision-Making in the Prefrontal Cortex under Opposed Emotional States

Anass El Azraoui | Inserm U1215, France

Dynamic spine turnover and clustering in the mouse frontal cortex facilitate behavioral flexibility

Ioanna Pandi | Forth, Greece

Neural Correlates of Social Categorization

Omar Ahmed | Center for Economics and Neurosciences, Egypt

Hall IV - 11:15-13:00

Symposium 29: More than neurons: key roles of glial cells in CNS and PNS

Chairs: Mariagrazia Grilli | University of Piemonte Orientale, Italy, Valerio Magnaghi | Università Degli Studi Di Milano, Italy

Astrocytes in the tale of aging, neurodegeneration and stress response

Mariagrazia Grilli | University of Piemonte Orientale, Italy

Glial cells at the crossroad of gut-to-brain communication

Cristina Limatola | Sapienza University, Italy

Neurotransmitter-dependent modulation of Schwann cells and axonal crosstalk

Valerio Magnaghi | Università Degli Studi Di Milano, Italy

Programmed cell death of oligodendroglia regulates cognitive flexibility in mice

Cristobal Ibaceta Gonzalez | Ipnep, France

Athina Hall - 11:15-13:00

Symposium 30: Deciphering functional specificity of the cannabinoid type 1 receptor in the brain: mechanistic insights and therapeutic implications

Chairs: Rosmara Infantino | University of Galway, Ireland, Antonio C Pagano Zottola | Bordeaux Institute of Oncology, France

Learning from CB1 Receptors in the Brain: Potentiation of Mitochondrial Activity as a Therapeutic Tool Against Pharmacological and Neurodegenerative Impairment of Cognition

Luigi Bellocchio | Inserm U1215, France

Astrocyte Cannabinoid CB1 Receptor-Mediated Signaling During Autoimmune Inflammation: Mechanisms and Implications in Multiple Sclerosis

Ana Bernal Chico | UPV/EHU, Achucarro Basque Center For Neuroscience and IIS Biobizkaia, Spain

Molecular mechanism of cannabinoids in glioblastoma: a new insight

Antonio C Pagano Zottola | Bordeaux Institute of Oncology, France

Mitochondrial dysfunction in cognitive deficits: bridging prenatal THC exposure and bioenergetic pathways

Gianluca Lavanco | Università degli Studi di Palermo, Italy

Targeting sub-cellular CB1 specificity to enhance analgesic efficacy: characterization of the novel cannabinoid Δ^9 -Tetrahydrocannabiphorol

Rosmara Infantino | University of Galway, Ireland

13:00-14:00

Lunch Break

Main Hall - 14:00-15:00

Special Event 03: How should the neuroscience community deal with pressure to reduce the use of animals in research?

Chairs: Suzanne Dickson, The Sahlgrenska Academy at the University of Gothenburg, Sweden, Cristina Limatola | Sapienza University, Italy

Misconceptions about animal experimentation, new animal ethics and transformative governance

Roger Adan | Umc Utrecht, Netherlands

Leading Advocacy in Animal Research within the National Italian Committee

Cristina Limatola | Sapienza University, Italy

A journey of animal neuroscience research advocacy in the Netherlands

Monica Wolvekamp | Radboud University, Netherlands

Perception of animal experimentation in Switzerland: From popular vote to popular vote.

Thorsten Buch | University of Zurich, Switzerland

Hall I - 14:00-15:00

Special Event 04: Improving the role of Community Pharmacists to deliver advanced pharmaceutical care in neuropsychiatric disorders through innovative educational programs

Chairs: Christina Dalla | National And Kapodistrian University Of Athens, Greece, Aristotelis Skountakis, President of the Board of Community Pharmacists Association of Heraklion, Crete, Greece

Opening Remarks

Christina Dalla | National and Kapodistrian University of Athens, Greece

Case Study -Educational program

Marios Spanakis | Φαρμακευτικός Σύλλογος Ηρακλείου, Greece

Future Directions & Educational Initiatives

Ioannis Charalampopoulos | Φαρμακευτικός Σύλλογος Ηρακλείου, Greece



Hall III - 14:00-15:00

Special Event 06: European Journal of Neuroscience Workshop

Chair: Yoland Smith | Emory University, United States of America

Hall II - 14:00-16:45

Special Event 05: Workshop on open-source tools for behavioral quantification

Chairs: Charis Brakatselos | Columbia University, United States of America, Stephanie Miller | Gladstone Institutes, United States of America, Matt Whiteway | Columbia University, United States of America

Lightning Pose: efficient animal pose estimation via semi-supervised learning and Bayesian ensembling

Matt Whiteway | Columbia University, United States of America

VAME behavioral segmentation identifies prominent behavioral changes and treatment efficacy in humanized and transgenic Alzheimer's disease models

Stephanie Miller | Gladstone Institutes, United States of America

Using Lightning Pose and VAME for the deep phenotyping of mouse models of schizophrenia risk and the evaluation of novel therapeutic approaches.

Charis Brakatselos | Columbia University, United States of America

Main Hall - 15:00-16:45

Symposium 31: Neuroactive steroids and mental health: Widespread impact on cognition, neuroprotection, and neuropsychiatric disorders

Chair: Elena Choleris | University of Guelph, Canada

Menopausal Hormone Therapy: One Size Does Not Fit all

Liisa Galea | University of Toronto, Camh, Canada

The role of the ovary in ischemic stroke: impact of aging

Farida Sohrabji | Texas A&m University College of Medicine, United States of America

Rapid Hormone actions on the mouse brain: implications for social and non-social cognition in males and females

Elena Choleris | University of Guelph, Canada

The Combined Influence of Earlier Menopause and Cardiac Function on Brain Health

Tallinn Splinter | University of Toronto, Canada

X chromosome inactivation related mechanisms in neurodevelopmental disabilities

Rajesh Miranda | Texas A&m University College of Medicine, United States of America

Hall I - 15:00-16:45

Symposium 32: Endocannabinoid signaling dysregulation in CNS-related disorders

Chairs: Eva De Lago Femia | Complutense University, Spain, Javier Fernandez-Ruiz | Complutense University, Spain

Endocannabinoids in pediatric epileptic encephalopathies

Onintza Sagredo | Complutense University, Spain

Endocannabinoids and eating behavior

Claudio D'Addario | University of Teramo, Italy

FAAH inhibition as a therapeutic strategy for neurochemical alterations induced by social isolation: involvement of endocannabinoid and oxytocinergic systems

Barbara Eramo | Sapienza university of Rome, Italy

Endocannabinoids and congeners in pathological pain

Livio Luongo | University of Campania "L. Vanvitelli", Italy

Endocannabinoids in amyotrophic lateral sclerosis

Eva De Lago Femia | Complutense University, Spain

Hall III - 15:00-16:45

Symposium 33: Oxytocin and vasopressin in the brain: new roles and functions in health and pathology

Chair: Bice Chini | Cnr, Italy

Microglia contribute to altered vasopressin-mediated neurovascular coupling in the hypothalamus of heart failure rats

Javier Stern | Georgia State University, United States of America

Oxytocin: Roles in Brain Microvasculature Development

Marta Busnelli | National Research Council, Italy

Hormonal imprinting in early life: a role of oxytocin is suckling.

Francoise Muscatelli | Inserm U1249, France

Targeting the central oxytocinergic system in humans: therapeutic potential and pitfalls.

Yannis Paloyelis | King's College London, United Kingdom

Hall IV - 15:00-16:45

Symposium 34: The social wrap: do we need oligodendrocytes and myelin for social behaviour?

Chairs: Giulia Poggi | University of Mainz, Germany, Giulia Treccani | University of Marburg, Germany

Stress, Glucocorticoids and the Impact of Early Social Experience: deciphering the role of NG2+ glia

Giulia Poggi | University of Mainz, Germany

Social aversive experience during adulthood: what happens to oligodendrocyte and myelin?

Giulia Treccani | University of Marburg, Germany

Shank3 and Myelination Dysfunction in Autism: Exploring Oligodendrocyte Roles

Boaz Barak | Tel Aviv University, Israel

Promoting myelination reverses myelin deficits and social impairment in *incntnap2*^{-/-} mice

Maria Domercq | Achucarro Basque Center For Neuroscience, Spain

Athina Hall - 15:00-16:45

Symposium 35: Mitochondrial homeostasis in neuronal physiology

Chair: Thomas McWilliams | University of Helsinki, Finland, Konstantinos Palikaras | Medical School, NKUA, Greece

Appetitive and aversive stimuli alter mitochondrial dynamics in the nucleus accumbens

Ana Joao Rodrigues | University of Minho, Portugal

Mitochondrial dynamics in synaptic plasticity

Matteo Bergami | Uniklinik Köln, Germany

Mitochondria-ER contacts as centers for local translation in neurons

Angelika Harbauer | MPI for Biological Intelligence, Germany

Mitophagy in neural space and time

Thomas McWilliams | University of Helsinki, Finland

Mitophagy in age-related neurodegeneration

Konstantinos Palikaras | Medical School, NKUA, Greece

16:45-17:15

Coffee Break & Poster Session 2

Main Hall - 17:15-18:15

Keynote Lecture 3

Chair: Youssef Anouar | Inserm, France

A cannabinoid way to understanding brain complexity

Giovanni Marsicano | University of Bordeaux, France

Tuesday, June 10, 2025

All Day:

Online MNS Election

Main Hall - 9:00-10:45

Symposium 36: Novel Psychoactive Substances (NPS): new exciting findings. Shaping the Future of Novel Psychoactive Substances (NPS): New Findings and Perspectives

Chair: Liana Fattore | IN-CNR, Italy, Aviv Weinstein | Ariel University, Israel

Novel findings on repeated exposure to JWH-018 (a major synthetic cannabinoid) in adult and adolescent rats and mice.

Maria Antonietta De Luca | University of Cagliari, Italy

Xylazine amplifies behavioral and cardio-respiratory impairments induced by fentanyl in mice

Sabrine Bilel | Ferrara, Italy

The effects of synthetic fentanyl on executive cognitive function and mental health

Aviv Weinstein | Ariel University, Israel

Detection of New Psychoactive Substances (NPS) in conventional and non-conventional biological specimens

Vassiliki Boumba | University of Ioannina Faculty of Medicine, Greece

Hall I - 9:00-10:45

Symposium 37: Dopamine-driven maladaptive plasticity: from pathological traits to treatment targets

Chair: Lucia Caffino | University of Milan, Italy

Memantine-induced functional rewiring of the glutamate synapse in the striatum of dopamine transporter knockout rats

Damiana Leo | Université De Picardie Jules Verne, France

Excitatory and inhibitory unbalance as molecular fingerprint of vulnerable phenotype for cocaine addiction in sensory processing sensitivity rats

Francesca Mottarlini | University of Milan, Italy

DOI modulates striatal plasticity by inducing ERK phosphorylation through cortical 5-HT2A receptors

Stefano Espinoza | Università Del Piemonte Orientale, Italy

Hemispheric lateralization of the effect of psilocybin on both the modulation of dopamine release and the control over alcohol consumption in a rat model of operant binge drinking.

Jerome Jeanblanc | Université De Picardie Jules Verne, France

Hall II - 9:00-10:45

Symposium 38: Environmental neurotoxicity: focus on contaminants in the Mediterranean

Chairs: Marc Landry | University Of Bordeaux, France, Jacques Noel | Cnrs, Inserm, Université Côte D'Azur, France

Impact on the peripheral nervous system of early life exposure to plastic nanoparticles and phthalates

Jacques Noel | Cnrs, Inserm, Université Côte D'Azur, France

Intranasal administration of PACAP promotes protection of neuronal cells against oxidative damage, inflammation and apoptosis induced by prenatal glyphosate exposure

Olfa Masmoudi | Faculty of Sciences of Tunis, University Tunis El manar, Tunisia

Neuroprotective Potential of Olive Leaf Polyphenols: Antioxidant Activity and Impact on Induced Protein Aggregation in Parkinson's Disease Cellular Model

Taoufik Ghrairi | University Tunis El Manar, Tunisia

Pupillometry to evaluate descending noradrenergic control of nociceptive transmission in an Attention Deficit Hyperactivity Disorder (ADHD) mouse model

Maria-Carmen Medrano | Université De Bordeaux, France

Hall III - 9:00-10:45

Symposium 39: Bridging Science and Practice: Advances in PTSD Research Across Translational and Clinical Frontiers

Chair: Vasiliki Michopoulos | Emory University, United States of America

Translational research understanding the contribution of stress and trauma to health inequities

Vasiliki Michopoulos | Emory University, United States of America

Intergenerational and developmental mechanisms of long-term impacts of trauma

Tanja Jovanovic | Wayne State University, United States of America

Epigenetic mechanisms underlying PTSD and its response to treatment.

Alicia Smith | Emory University, United States of America

Innovations in the Treatment of PTSD: From Virtual Reality to MDMA

Barbara Rothbaum | Emory University, United States of America

Hall IV - 9:00-10:45

Symposium 40: Impacts of environmental factors on the neuroendocrine regulation of biological rhythms

Chair: Etienne Challet | CNRS, France

Synergy between time-restricted feeding and running is necessary to shift the muscle clock

Andries Kalsbeek | Amsterdam Umc, Netherlands

Assessing neuroendocrine impacts of bisphenol A exposure in a seasonal rodent

Marie-Azélie Moralia | University of Liège, Belgium

Impact of irregular light conditions on sleep-wake cycle and energy metabolism in a diurnal animal model

Etienne Challet | CNRS, France

Athina Hall - 9:00-10:45

Symposium 41: Molecular and Circuitry Insights into Cognitive Function and Therapeutic Advances in Neurodegenerative Disorders

Chair: Lucy Privitera | Queen Mary University of London, Malta Campus, Malta

Synaptic Tagging and Capture in Living Rats: Exploring the Contributions from the Locus Coeruleus to Hippocampal Memory Consolidation

Lucy Privitera | Queen Mary University of London, Malta Campus, Malta

Changes in adrenergic and cholinergic receptors on human cerebral vessels. Implications for new therapeutic strategies in Alzheimer's Disease

Roxi Carare | The University of Southampton, United Kingdom

How the Brain Distinguishes 'Me' and 'Mine' from 'Others': An EEG and fMRI Study

Ilona Kotlewska | Jagiellonian University, Poland

Sexual dimorphism of prefrontal CB1 receptors on emotional and cognitive processes

Maria Ceprian | Pais Vasco University, Spain

10:45-11:15

Coffee Break & Poster Session 3

Main Hall - 11:15-13:00

Symposium 42: Neuronal and Neuroglia Metabolism in Health and Disease

Chairs: Natalie Rasgon | Stanford University, United States of America, Robert Zorec | University of Ljubljana, Faculty of Medicine, Slovenia

Regulated exocytosis in human glioblastoma

Vladimir Parpura | Zhejiang Chinese Medical University, China

Determinant role of AQP4ex in anchoring AQP4 at the Blood-Brain Barrier: physiopathological consequences

Antonio Frigeri | University of Bari, Italy

Adrenergic control of astrocyte function in cognitive decline

Robert Zorec | University of Ljubljana, Faculty of Medicine, Slovenia

Neuronal energy metabolism in neuropsychiatric disorders

Natalie Rasgon | Stanford University, United States of America

Hall I - 11:15-13:00

Symposium 43: Developing olfaction: Cell types, circuits, and the effects of sensory experience

Chair: Paolo E. Forni | University At Albany, United States of America

Transgenerational inheritance of olfactory experiences

Bianca Jones Marlin | Columbia University, United States of America

Egg-laying behaviour and its neuronal substrates at the abdominal ganglion

Maria Luisa Vasconcelos | Champalimaud Foundation, Portugal

The Diversity of the Endoplasmic Reticulum and the Combinatorial Expression of Adhesion Molecules in Vomeronasal Sensory Neurons: New Perspectives on Cell Identity and Connectivity Rules.

Paolo E. Forni | University At Albany, United States of America

Mechanisms Underlying Mesenchymal Stem Cell-Derived Extracellular Vesicle Modulation of Sensory Neuron Excitability

Lanhui Qiu | University of Cambridge, United Kingdom

Hall II - 11:15-13:00

Symposium 44: Decoding Neurodegeneration: Insights into mechanisms and emerging therapies

Chairs: Maya Maor-Nof | The Technion, Israel, Alexia Polissidis | Deree, The American College of Greece, Greece

Expanding mechanisms and therapeutic targets for neurodegenerative disease

Aaron Gitler | Stanford University, United States of America

Neurodegeneration: intra-Lysosomal lipid metabolism in the driver's seat

Monther Abu-Remaileh | Stanford University, United States of America

Mechanisms governing neuronal survival and degeneration

Maya Maor-Nof | The Technion, Israel

Dynamic metabolic profiling of microglia in an acute murine viral model of G2019S LRRK2 Parkinson's disease

Eirini Maria Tzermmpou | Deree-the American College of Greece, Greece

Hall III - 11:15-13:00

Symposium 45: Advances in rTMS: targeting neuroplasticity and neural circuitry in addiction

Chairs: Pauline Belujon | Université De Poitiers, France, Marco Diana | University of Sassari, Italy

Long-lasting efficacy of rTMS in Cocaine Use Disorder

Angela Maria Sanna / SS Trinità Hospital, ASL Cagliari, Italy

Steps Toward Individualization of Transcranial Magnetic Stimulation in a Methadone-Maintained Opioid Use Disorder Sample.

Vaughn R. Steele / Yale School of Medicine, United States of America

Modulating reward pathways: preclinical advances in rTMS for addiction

Pauline Belujon / Université De Poitiers, France

Targeting the medial prefrontal and anterior cingulate cortices with Deep TMS in alcohol use disorder: Clinical, fMRI, DTI, and EEG outcomes

Abraham Zangen / Ben Gurion University, Israel

Hall IV - 11:15-13:00

Symposium 46: Ovarian hormones in brain plasticity, disease risk, and resilience: from single-cell multiomics to neuroimaging insights

Chair: Marija Kundakovic / Fordham University, United States of America

Ovarian hormones in brain plasticity and disease risk: the insights from multiomic single-cell approaches

Marija Kundakovic / Fordham University, United States of America

Ovarian hormone fluctuations and stress resilience across the adult lifespan

Liisa Galea / University of Toronto, Canada

Brain rhythms of risk and resilience: Ovarian hormones influence brain chemistry and structure across the menstrual cycle

Julia Sacher / MPI-CBS and University of Leipzig, Germany

Exploring Sex Differences and Estradiol's Impact on Early Neurodevelopment Using Brain Organoids

Lucia Dutan Polit / King College London, United Kingdom

Athina Hall - 11:15-13:00

Symposium 47: Habenular function: From neurobiology to psychiatric implications

Chairs: Emmanuel Darcq / INSERM U1329 Eq Addictions, France, Susanna Molas / University of Colorado Boulder, United States of America

Running from Shadows: The Role of the Interpeduncular Nucleus in Innate Threat Processing

Susanna Molas / University of Colorado Boulder, United States of America

Study of the prefronto-habenular network implication in cocaine relapse.

Victor Mathis / Inserm, France

Hormone sensitive network shape aversive states.

Daniela Calvigioni | Karolinska Institutet, Sweden

Habenula and midbrain contributions to aversive effects of cocaine and addiction propensity

Thomas Jhou | University of Maryland School of Medicine, United States of America

Implications of Habenular Opioid Responsive Neurons in Negative Affect of Opioid Withdrawal.

Emmanuel Darcq | INSERM U1329 Eq Addictions, France

13:00-14:00

Lunch Break

Main Hall - 14:00-15:00

Special Event 07: Women's Brain-Healthy Ageing, Hellenic Initiative for Women's Brain Health: HIWOMB, MENTOR Healthy Ageing Institute

Chair: Antonios Politis | National and Kapodistrian University of Athens, Greece



Presentation of the Hellenic Initiative for Women's Brain Health: HIWOMB

Eleni Metaxa | Pharmaceutical Chemistry & Technology (CTF), Greece

The role of sex and gender in brain research

Christina Dalla | National and Kapodistrian University of Athens, Greece

Open discussion with worldwide experts and with the audience

Hall I - 14:00-15:00

Special Event 08: Getting published: An editor's perspective

Chair: Ioannis Bakogiannis | Springer Nature, Germany

Main Hall - 15:00-16:45

Symposium 48: Sex differences in effects of environmental factors on indices of addiction and mental health

Chair: Jill Becker | University of Michigan, United States of America

Adversity early in life alters addiction-related behaviors and produces sex-specific transcriptional changes in the basolateral amygdala

Amelia Cuarenta | Georgia State University, United States of America

Social housing differentially affects addiction liability and dopamine release in nucleus accumbens of male and female rats.

Jill Becker | University of Michigan, United States of America

Sex differences in the effect of altitude on indices of depression and addiction in rodents.

Shami Kanekar | University of Utah, United States of America

Sex differences in stress response and neuro-estrogens: insights from animal models.

Christina Dalla | National and Kapodistrian University of Athens, Greece

Hall I - 15:00-16:45

Symposium 49: Decoding pain: Mechanisms, modulators, and neural networks

Chairs: Bonnie Firestein | Rutgers University, United States of America, Ana María Sanchez-Perez | Universitat Jaume I, Spain

Anterior cingulate cortex hyperexcitability in a mouse model of ADHD and pain comorbidity

Sandra Sanchez-Sarasua | University of Bordeaux, France

Environmental Pollutants and Synaptic Decline: The Role of Coding and Non-coding RNAs in Cholinergic Neuron Impairment, Pain, and Neurodegenerative Risk.

Aldo Donizetti | University of Naples Federico II, Italy

Concept of Pain: Central or peripheral

Guldal Inal Gultekin | Istanbul Okan University Faculty of Medicine, Turkey

Mediodorsal Thalamus: A Key Node in the Neural Circuitry of Pain

Hanane Iben Daoudi | University of Cadi Ayyad, Faculty of Sciences Semlalia, Morocco

Neuroprotection and repair following daily oral administration of 3,5-Diiodothyropropionic acid (DITPA) in experimental autoimmune encephalomyelitis

Steven Petratos | Monash University, Australia

Hall II - 15:00-16:45

Symposium 50: NMDA Receptors: A Classic focus with modern implications in neuropsychiatric disorders

Chairs: Joana Ferreira | University of Coimbra, Portugal, Mónica Santos | Cnc-uc, Portugal

NMDA receptor-dependent Regulation of Synaptic Adaptation

Joana Ferreira | University of Coimbra, Portugal

NMDA receptor complex in Neurodevelopmental and Neurodegenerative Diseases

Fabrizio Gardoni | Disfeb - Università Degli Studi Di Milano, Italy

Neurotrophins modulation of NMDA receptors in Fear Extinction and implications for Anxiety Disorders

Mónica Santos | Cnc-uc, Portugal

Comprehensive delineation and personalised medicine of NMDAR-related developmental encephalopathies

Xavier Altafaj | Universitat De Barcelona, Spain

Hall III - 15:00-16:45

Symposium 51: Monoamines in brain function and dysfunction: Insights into epilepsy, addiction, and neurotoxicity

Chairs: Stephanie Caille-Garnier | University Of Bordeaux, France, Giuseppe Di Giovanni | Magna Græcia University, Italy

The 5-HT_{2C} Receptor-Positive Allosteric Modulator CYD-1-79 Does Not Affect Anxiety but Halts Absence Seizures in GAERS

Tatiana Morais | IcvS, Portugal

The Coronaridine Derivatives Catharanthine and 18-MC Exert Anti-Epileptic Activities and Alter Monoaminergic Systems Activity

Chloé Aman | University of Bordeaux, France

Modulation of GABA_A Receptor Tonic Inhibition and GAT1 Function by 5-HT_{2A} Receptors with a Focus on Absence Epilepsy

Giuseppe Di Giovanni | Magna Græcia University, Italy

Monoamine Functional Connectivity at Rest and Its Link to Inter-Individual Differences in Behavioral Performances

Stephanie Caille-Garnier | University of Bordeaux, France

Hall IV - 15:00-16:45

Symposium 52: Unraveling ketamine's rapid antidepressant mechanisms: From neural circuits to clinical implications

Chair: Panos Zanos | University of Cyprus, Cyprus

NMDA receptor activity and canonical NMDAR-dependent LTP is required for ketamine's rapid antidepressant efficacy

Panos Zanos | University of Cyprus, Cyprus

Ketamine's antidepressant response is mediated by a corticotropin-releasing factor-dependent mechanism

Polymnia Georgiou | University of Wisconsin-Milwaukee, United States of America

Hippocampal multiomic profiling of ketamine rapid antidepressant mechanisms in the chronic mild stress rat model

Laura Musazzi | University of Milano-Bicocca, Italy

Esketamine modulates dopamine neurotransmission: therapeutic potential or pathway to abuse?

Jordi Bonaventura | Universitat de Barcelona, Spain

TUESDAY, JUNE 10, 2025

Athina Hall - 15:00-16:45

Symposium 53: Metabolic individuality in brain disorders

Chairs: Francesca Calabrese | University of Milan, Italy, Freddy Jeanneteau | CNRS INSERM University of Montpellier, France

The Early Medication Change trial: Epigenomics and metabotypes in antidepressant treatment response

Stephanie Witt | Central Institute of Mental Health, Germany

Defining metabotypes in animal models of resilience and vulnerability to stress

Francesca Calabrese | University of Milan, Italy

Ketogenic approach to correct metabotypes in neurological disorders

Beat Lutz | University Medical Center Mainz, Germany

Intermittent fasting approach to correct metabotypes in neurological disorders

Freddy Jeanneteau | CNRS INSERM University of Montpellier, France

16:45-17:15

Coffee Break & Poster Session 3

Main Hall - 17:15-18:15

Keynote Lecture 4

Chair: Ioannis Sotiropoulos | NCSR "Demokritos", Greece

How dendrites empower biological and artificial brains

Panagiota Poirazi | IMBB-forth, University of Crete, Greece



Main Hall - 18:30-19:30

MNS General Assembly

Wednesday, June 11, 2025

Main Hall - 9:00-10:45

Symposium 54: Regulation of neuronal function by astroglia-enriched synaptic environment in health and disease

Chair: Dmitri Rusakov | University College London, United Kingdom

Molecular and cellular dysfunction of NMDA receptors in developmental and epileptic encephalopathies: Insights from a GRIN2B C-terminal variant

Julie Perroy | CNRS, France

Control of dendritic integration by converging D-serine and glycine signalling

Christian Henneberger | University of Bonn, Germany

Astrocyte Kir4.1 expression locally controls use-dependent changes in synaptic fidelity

Dmitri Rusakov | University College London, United Kingdom

Functional astrocyte diversity in the adult dentate gyrus

Ruth Beckervordersandforth-Bonk | University Clinics Erlangen, Germany

SHANK3 scaffold proteins in astrocytes regulate postnatal maturation of striatal circuits: Implications for Phelan-McDermid Syndrome

Laurine Gonzalez | University of Lausanne, Switzerland

Hall I - 9:00-10:45

Symposium 55: The relaxin3 neuropeptidergic system and modulation of cognition and pain

Chairs: Mónica Navarro Sánchez | Universitat Jaume I, Spain, Francisco Eliseo Olucha Bordonau | Universitat Jaume I, Spain

The general organization of the relaxin3 system/RXFP3 system and its evolutionary arrangement.

Francisco Eliseo Olucha Bordonau | Universitat Jaume I, Spain

The modulatory role of relaxin3 in the amygdala and anterior cingulate cortex on chronic pain

Marc Landry | University of Bordeaux, France

The putative modulatory role of relaxin3 in aggression induced by alcohol withdrawal

Mohamed Zahran | Universitat Jaume I, Spain

The role of the relaxin3/RXFP3 system in theta rhythm and contextual fear memories

Mónica Navarro Sánchez | Universitat Jaume I, Spain

Exploring Sodium Channels and Acetylcholine Receptors Through X-ray Crystallography, AlphaFold 3, Cryo-EM, and Ligand Interactions: Advancing Neurobiology Education

Paraskevi Papadopoulou | The American College of Greece, Greece

Hall II - 9:00-10:45

Symposium 56: Genetic and environmental influences on the developing young brain and risk for neuropsychiatric disorders: from synapse to behavior

Chairs: Antonia Manduca | Sapienza University of Rome, Italy, Aurore Thomazeau | CNRS, France

Mechanistic dissociation of functional and structural plasticity of dendritic spines in Fragile X Syndrome

Miquel Bosch | Universitat Internacional De Catalunya, Spain

Neuroplastic mechanisms underlying sex-dependent vulnerability to social reward deficits following early life social isolation

Antonia Manduca | Sapienza University of Rome, Italy

Effects of gestational THC exposure on neurobehavioral outcomes in the offspring

Valentina Castelli | University of Palermo, Italy

Nucleus Accumbens Core Dysfunction in Fragile X Syndrome

Gabriele Giua | Inserm, France

Neuroplasticity as a therapeutic target for intellectual disability in Down syndrome and Fragile X syndrome

Mara Dierssen | Center For Genomic Regulation, Spain

Hall III - 9:00-10:45

Symposium 57: Central integration of environmental cues regulating energy and glucose metabolism

Chairs: Nicolas Chartrel | Inserm, France, Carole Rovere-Jovene | Université Côte d'Azur, Ipmc, Cnrs, Inserm, France

Role of the ghrelin/LEAP2 balance on feeding and metabolic adaptations to undernutrition in anorexia nervosa

Virginie Tolle | Inserm, France

The Role of Mitochondrial Function in Hypothalamic Astrocytes in Regulating Hunger

Ophélie Le Thuc | Helmholtz Zentrum München, Germany

POMC neurons and control of energy and glucose homeostasis: role played by EphrinBs molecules

Sophie Croizier | University of Lausanne, Switzerland

The surprising hypothalamic regulation of glucose homeostasis by a key subpopulation of insulin-sensitive neurons, expressing 26RFa and orexins

Marie Picot | Université De Rouen, France

Hall IV - 9:00-10:45

Oral Communications 1

Chairs: Harris Alexopoulos | National and Kapodistrian University of Athens, Greece, Alexia Polissidis | Deree, The American College of Greece, Greece

OP01: Orexin deficiency alters the regulation of energy and glucose homeostasis in a sex-dependent manner

Mélodie Devère | Inserm U1239, France

OP02: The gut-brain communication axis: a promotor of mental health vs. precipitator of brain pathology

Ioannis Sotiropoulos | NCSR "Demokritos", Greece

OP03: Tau Deficiency Enhances Mitochondrial Function and Stress Resilience

Eleni Tsakiri | National and Kapodistrian University of Athens Medical School, Greece

OP04: Time dependent peripheral versus central distribution of intranasal insulin

Jelena Osmanovic Barilar | University of Zagreb School of Medicine, Croatia

OP05: Time-dependent distribution of FITC-labeled vs. regular insulin in rat brain following intranasal administration

Ana Knezovic | University of Zagreb School of Medicine, Croatia

Athina Hall - 9:00-10:45

Oral Communications 2

Chairs: Panagiotis Politis | Biomedical Research Foundation Academy of Athens, Greece, Ourania Semelidou | INSERM U1215, France

OP06: Effects of prenatal Δ^9 -tetrahydrocannabinol exposure on the endocannabinoid and dopaminergic system gene expression in adolescent rats

Martina Di Bartolomeo | University of Teramo, Italy

OP07: Neurocircuitry and Neuroanatomy in Panic Disorder: A Systematic Review

Peter (Panos) Kyriakoulis | Positive Psychology Centre, Australia

OP08: New treatment for depression and anxiety disorders based on Crataegus Pinnatifida

Ravid Doron | The Open University, Israel

OP09: Proteostasis Network Response to Chronic Environmental Stress: linking survival to protein aggregation in a human neuroblastoma cellular model

Niccolò Candelise | Italian National Institute of Health - Istituto Superiore Di Sanità (iss), Italy

OP10: Identification of a Novel Kv7.3 Mutation Associated with Autism and Schizophrenia Causing Abnormal Excitability in Reprogrammed Neurons

Mauro Pessia | United Arab Emirates, United Arab Emirates

OP11: Semaphorin 3A and Its Impact on Blood-Brain Barrier Integrity: A Potential Mechanism for Neurodevelopmental Risk in Pregnancy Complications

Carmela Matrone | University of Naples Federico II, Italy

10:45-11:15

Coffee Break

Main Hall - 11:15-13:00

Symposium 58: Challenges and Opportunities in Neuroscience in the Mediterranean area - Career Development Round Table

Chair: Tatiana Morais | IcvS, Portugal

Panelists:

Marc Landry | University of Bordeaux, France

Hanane Iben Daoudi | University of Cadi Ayyad, Faculty of Sciences Semlalia, Morocco

Nuno Dinis Alves | ICVS | University of Minho, Portugal

Giuseppe Di Giovanni | Magna Græcia University, Italy

Taoufik Ghairi | University Tunis El Manar, Tunisia

Elbini Ines | Pasteur Institute, Tunisia

Shubha Tole | Tata Institute of Fundamental Research, Mumbai, India

Hall I - 11:15-13:00

Symposium 59: Decoding cholinergic signals in the brain: New technologies and behavioral insights

Chair: Ana Joao Rodrigues | University Of Minho, Portugal

The impact of chronic nicotine consumption on mesopontine cholinergic transmission and motivation for natural rewards

Jacques Barik | Cnrs, France

Cholinergic mesopontine signals are selectively affected by cocaine and bidirectionally mediate cocaine reinforcing effects

Bárbara Coimbra | Barbara Coimbra, Portugal

A specific cholinergic pathway from the basal forebrain to the ventromedial prefrontal cortex modulates attention

Karine Guillem | Université De Bordeaux / Cnrs, France

Precise manipulation of endogenous nicotinic receptors and associated behaviors

Alexandre Mourot | ESPCI, France

Hall II - 11:15-13:00

Symposium 60: Approaches to facilitate causative therapies of neurodegenerative diseases

Chairs: Ivana Delalle | Boston University, United States of America

Potential of non-coding RNAs as theragnostic biomarkers for neurodegenerative diseases

Ivana Delalle | Boston University, United States of America

Targeting inflammatory pathways in neurodegenerative disorders

Ena Španić Popovački | School of Medicine, University of Zagreb, Croatia

Lactate mitigates the phenotype of Alzheimer's disease through the AMPK-RAB3A signaling pathway to promote mitophagy and synaptic function

Haijun He | National & Kapodistrian University of Athens, Greece

Impact of β -Amyloid-induced astrocyte reactivity on oligodendrocyte maturation

Claudia Ciarla | Sapienza University of Rome, Italy

Zebrafish as a Versatile Model in Neurobiological a Research

Barbara Budzynska | Medical University of Lublin, Poland

Hall III - 11:15-13:00

Symposium 61: Regulatory mechanisms in neural stem cells: Insights into brain physiology, aging, and glioblastoma dynamics

Chairs: Yassemi Koutmani | Biomedical Research Foundation Of The Academy Of Athens, Greece, Panagiotis Politis | Biomedical Research Foundation Academy of Athens, Greece

Genetic Barcoding to Trace Glioblastoma Stem Cells

Paolo Malatesta | Università Di Genova, Italy

Gene Regulation Networks in Neural Stem Cells and Glioblastoma tumor cells

Panagiotis Politis | Biomedical Research Foundation Academy of Athens, Greece

Aging-like Mechanisms Regulate Neurogenesis in Depression

Lida Katsimpardi | Inserm, France

Neural Stem Cells in Health and Disease: When Developmental Cornerstones are Hijacked by Cancer

Maria A. Tsiarli | Brown University, United States of America

The Impact of Stress Hormone CRH in Human Neural Stem Cells and Brain Development

Yassemi Koutmani | Biomedical Research Foundation of The Academy of Athens, Greece

Hall IV - 11:15-13:00

Symposium 62: Common ground and deviations in neurodegenerative diseases

Chairs: Faisal Alosaimi | Kind Abdulaziz University, Saudi Arabia

The Role of Deep Brain Stimulation in Modulating Neuroinflammation in Parkinson's Disease

Talal Alshalwi | Maastricht University, Netherlands

The Role of DBS in Inducing Neuroplastic Cellular Changes in Parkinson's Disease: Why It Matters

Faisal Alosaimi | Kind Abdulaziz University, Saudi Arabia

Investigating sex differences in Parkinson's disease

Vincent Harley | Hudson Institute of Medical Research, Australia

Exploring the neurotoxic effects of A30G a-synuclein mutation in *Caenorhabditis elegans*

Christina Ploumi | National and Kapodistrian University of Athens, Greece

Athina Hall - 11:15-13:00

Symposium 63: Mechanisms, therapeutics, and immune insights in chronic pain

Chairs: Natalia Malek | Wroclaw University of Science and Technology, Poland, Katarzyna Starowicz | Maj Institute of Pharmacology Pas, Poland

Mechanisms underlying stress-pain interactions in rats and humans

David Finn | University of Galway, Ireland

Effect of conditioned diet in a model of early life-induced widespread pain: potential role of HCAR2 receptors

Livio Luongo | University of Campania "L. Vanvitelli", Italy

Effects of chronic CBD administration in neuropathic pain models

Katarzyna Starowicz | Maj Institute of Pharmacology Pas, Poland

Immune Profiling in Chronic Neuropathic Pain: Insights from Mass Cytometry and Clinical Correlations

Natalia Malek | Wroclaw University of Science and Technology, Poland

13:00-14:00

Lunch Break

Main Hall - 14:00-15:00

Book Presentation: A river divided

Chair: George Panagis | University of Crete, Greece

Speaker: George Paxinos | Neuroscience Research Australia, Australia

Main Hall- 15:00-16:00

Awards & Conclusion

Acknowledgements

Gold Sponsor



S O U R O T I .

1916

Sponsors

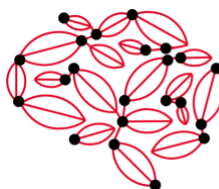


***Lab Supplies
Scientific***



MENTOR

ΙΝΣΤΙΤΟΥΤΟ ΥΓΙΟΥΣ ΓΗΡΑΝΣΗΣ
HEALTHY AGEING INSTITUTE



**BRAIN ORGANOID &
SYSTEMS NEUROSCIENCE
JOURNAL**



ELSEVIER

Exhibitors



INTERNATIONAL BRAIN



RESEARCH ORGANIZATION



Under the Auspices



ΠΑΝΕΠΙΣΤΗΜΙΟ ΚΡΗΤΗΣ
UNIVERSITY OF CRETE



ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ
Υπουργείο Ψηφιακής Διακυβέρνησης

With the support of



Faster, fairer, transparent.
Publishing with us is different.

Learn more about our publishing
process at elifesci.org/elifesci-process



MNS²⁰²⁵
10TH Mediterranean
Neuroscience
Society Conference



souroti.
1916

FROM SOUROTİ CURATIVE SPRING



From antiquity to the present day, the carbonated natural mineral water of SOUROTİ has been gushing from the homonymous historical and curative spring. The flow of the water at great depths through rocks of unique composition gives SOUROTİ its special mineral composition and its distinctive taste.

Naturally enriched at about 1,000 mg/L of minerals and trace elements, it is one of the richest natural mineral waters, with extremely high concentrations of bicarbonate, magnesium, calcium, potassium, natrium, silicon and lithium. The result: a natural resource of unique quality and taste, presenting the exact same composition in the analyses of elements from 1916 to the present day.



souroti.

1916

new SOUROTİ
MEDIUM
0,75L

ELAVATES THE TASTE!



SCAN ME



0,75L CARBONATED
NATURAL MINERAL WATER

NATURAL MINERAL WATER
WITH **MILD** CARBONATION



www.souroti.gr



Posters

Sunday, June 8, 2025 - Poster Session 1

PP101. Rescue of epilepsy-linked variants of the human GABA transporter 1 by small molecules - Nikita Shah | Medical University of Vienna, Austria

PP102. Identifying novel and effective treatments to prevent negative affect and relapse during opioid abstinence - Andria Michael | University of Cyprus, Cyprus

PP103. Development and investigation of the flexible behavioral phenotype in rodents - Elissavet Anna Petsalaki | Foundation for Research and Technology, Greece

PP104. Object discrimination and generalization in a novel open field setup - Zoi Dogani | Foundation for Research and Technology-Hellas, 71003 Heraklion, Greece

PP105. Mechanisms Underlying Estrogen's Rapid Facilitative Effects on Social Recognition in the Medial Amygdala of Female Mice - Elena Choleris | University of Guelph

PP106. Neurochemical and genetic factors in panic disorder: a systematic review - Peter Kyriakoulis | Federal University of Rio de Janeiro, Brazil

PP107. Supercritical CO₂ Tomato Extract: Antioxidant and Anti-Inflammatory Effect in Human Neuroblastoma and Glioblastoma Cells - Serena Recalchi | "La Sapienza" University of Rome, Italy

PP108. The Medial Prefrontal Cortex and the Rapid Effects of Estradiol on Cognition in Male Mice – Elena Choleris | University of Guelph, Canada

PP110. Endocannabinoid system and D-serine interaction in the modulation of fear memory dynamics under stress - Federica Mariani | Sapienza University of Rome, Italy

PP111. Targeting sex-dependent biobehavioral profile in Fragile X Syndrome: the therapeutic potential of cannabidiol - Alexandros Messinis, | University of Ioannina, Greece

PP112. GABAergic transmission during epileptogenesis in a rat model of post-traumatic epilepsy - Alessandro Gaeta | University of Rome, Sapienza, Italy

PP113. Diazepam treatment in a Lurcher mouse model of cerebellar motor and cognitive affective syndrome - Nilpawan Roy Choudhury | Charles University, Pilsen, Czechia

PP114. 5-HT_{2B} receptors are critical for the antidepressant response of the psychedelic LSD in rat but not in mice - Amel Bouloufa | Université Claude Bernard Lyon, Inserm, Stem Cell and Brain Research Institute, France

PP115. Artificial Intelligence and Play Therapy in Maritime Mental Health: A Neuroscience-Informed Framework for Stress and Emotion Regulation and Psychological Support - Evangelia Dimoula | Institute of Stress of Biology and Medicine

PP116. Disrupted neuron-glia differentiation and memory deficits following prenatal THC exposure: a mitochondrial perspective - Francesca Puleo | University of Palermo, Italy

PP117. Integrating the sex-specific alterations in spatial memory of rats prenatally exposed to THC with diffusion tensor imaging analysis - Giovanna Chiara Gambino | University of Palermo, Italy

PP118. Voluntary Wheel Running prevented the negative consequences of Vicarious Social Defeat in female mice - María Asunción Aguilar | University of Valencia, Spain.

PP119. Regional effects of the Iboga Alkaloids catharanthine and 18-MC on monoamines in mice; interaction with the convulsivant and anxiogenic drug PTZ - Chloé Amana | Institut des Neurosciences Intégratives et Cognitives d'Aquitaine, France

PP120. Autophagy-dependent protective activity of Neuroglobin in spheroids of human neuroblastoma cell line SH-SY5Y - Daniela Caissutti | Sapienza University of Rome, Italy

PP121. Continuous brain-derived neurotrophic factor biodelivery in the prefrontal cortex rescues depression-like phenotype and neuroplasticity in a rat model of treatment-resistant depression - Martina Cicero | University of Palermo, Italy

PP122. Modulation of anxiety by nicotinic receptors of the interpeduncular nucleus - Maria Ciscato | PSL Research University, France

PP123. Divergent involvement of the serotonergic system of ventral and dorsal hippocampus in the emergence of symptoms in schizophrenia - Charalampos Kandilakis | University of Patras, Greece

PP124. Proteomics profiling of antidepressant response in the nucleus accumbens reveals protein signature associated with unsuccessful response to venlafaxine in stress-induced depression rat model - Edoardo Lo Coco | University of Palermo, Italy

PP125. Psychostimulant actions on executive dysfunction and prefrontal catecholamine dysregulation following traumatic brain injury - Rachel L Navarra | Stratford, NJ, USA

PP126. Preclinical Validation of a Serotonergic Modulator for Treating Methamphetamine Addiction Without Reward System Disruption - Augusta Pisanu | CNR Institute of Neuroscience-Cagliari, National Research Council, Italy

PP127. High CRP is Associated with Dimensional Model of Anxiety but not Categorical Model in Context of Child Abuse and Real World Population - Alex O. Rothbaum | Emory University, Atlanta, GA & Skyland Trail, Atlanta, GA

PP128. Evaluation of central neuroinflammation and its cognitive consequences in a murine model of anorexia nervosa at acute and chronic phases - Léna Rousseau | Univ Rouen Normandie, INSERM, France

PP129. N-oleoyl Glycine and N-oleoyl Alanine Attenuate Alcohol Self-Administration and Preference in Mice - Samah Shahan-Zoabi | The Hebrew University of Jerusalem, Israel

PP130. Sex Differences and Intrasexual Variability in Oxycodone-Induced Alterations of Brain Stimulation Reward and Neurochemistry in Sprague-Dawley Rats – Elena Solakidou | University of Crete, Greece & Northeastern University, Boston, USA

PP131. Detrimental effects of prenatal THC exposure on declarative memory and mitochondrial bioenergetics: a rescue hypothesis - Francesca Vaccaro | University of Palermo, Italy

PP132. Casc15 lncRNA in regulation of neuroblast migration - Jemima Becker | University of Oxford, UK

PP133. Altered socio-affective communication in Tph2-deficient rat pups: Communal nesting aggravates growth retardation despite ameliorating maternal affiliation deficits - Tianhua Wang | Philipps-Universität Marburg, Germany

PP134. Effect of the dual serotonergic compound DDD-024 on methamphetamine-induced alterations on cognitive functions and anxiety-like behavior in male and female rats - Liana Fattore | CNR Institute of Neuroscience-Cagliari, National Research Council, Italy

Monday, June 9, 2025 - Poster Session 2

PP201. Neuroinflammatory and structural changes in the anterior cingulate cortex in monosodium iodoacetate-induced osteoarthritis in mice - Oumaima Moutayb | Cadi Ayyad University, Morocco

PP202. Modulation of the Immune Response Improves Outcomes in the 3xTg mouse model of Alzheimer's Disease - Rafaela Mostallino | University of Cagliari, Italy

PP203. Multi-Omics Characterization of LRRK2 G2019S in Parkinson's disease: From Molecular Interactions to Therapeutic Insights - Hiba Midouane | Mohammed VI Polytechnic University, Morocco

PP204. Metabolic and Mitochondrial Dysregulation in the Hypothalamus: Unveiling a Novel Pathway in ALS Progression - Christina Valle | University of Rome "Foro Italico" & National Research Council, Institute of Translational Pharmacology (IFT), Rome, Italy

PP205. Unraveling the Mechanisms of Eucalyptus citriodora Essential Oil in 6-Hydroxydopamine-Induced Parkinson's Disease: Proteomic Insights into Metabolic and Proteostasis Modulation - Amel Abidi | University of Tunis El Manar, Tunisia & University of Siena, Italy

PP206. The Endocannabinoid System and Neuroinflammation in Bipolar Disorder: CNR1 and Cytokine Expression Patterns - Francesca Martella | University of Teramo, Italy

PP207. Retinal alterations resemble brain pathology in a rat model of Parkinson's disease induced by intranigral infusion of α -synuclein oligomers - Chiara Burgaletto | University of Catania, Italy

PP208. Exploring BDNF as a Biomarker of Peripheral Nutritional Adaptation in an Anorexia Nervosa-Like Model: Insights into the Brain-Muscle Axis - Odile Viltart | Univ Paris Cité, INSERM France & Université de Lille, France

PP209. Implication of potassium channels in the progression of Parkinson's disease: study of the mechanisms of action of sea anemone biomolecules and their therapeutic potential - Sarra Hjaïj | Pasteur Institute of Tunis, Tunisia

PP210. The effects of methylphenidate, an ADHD drug, on learning and executive functions in a rat model of sporadic Alzheimer's disease - Davor Virag | University of Zagreb, Croatia

PP211. Exploring the Effects of Intracerebroventricular Streptozotocin and Transthyretin on Hippocampal Neuroinflammation, Tau Pathology, and Cognitive Function in C57BL6 Mice - Ana Babić Perhoč | University of Zagreb, Croatia

PP212. Involvement of the direct subthalamic nucleus – M1 cortex pathway in parkinsonian motor and nociceptive impairments - Elba Molpeceres-Sierra | University of Bordeaux, France

PP213. Identifying Multiple Sclerosis Risk Groups in the Egyptian Population: A Cross-Sectional Study - Noha Al-Ziny | The American University in Cairo, Egypt

PP214. Immaturity of GABAergic Transmission in Tuberous Sclerosis Complex - Lilian J. Lissner | University of Rome, Sapienza, Italy

PP215. Green chemistry: from agro-food waste to bioactive molecules for the treatment of neurodegenerative diseases - Giulia Di Benedetto | University of Catania, Italy

PP216. Rethinking Parkinson disease beyond motor phenomenology: Cognitive symptoms and gender-based differences of dopaminergic dysfunction - Leila Ali | University of Pegaso, Italy & University of Camerino, Italy

PP217. Neuroprotective Effects of Lithium on Myelin Development and Behavioral Outcomes Following Preterm Intraventricular Hemorrhage - Changlian Zhu | University of Gothenburg, Göteborg, Sweden & Institute of Neuroscience and The Third Affiliated Hospital of Zhengzhou University, China

PP218. Association between circulating cell-free DNA and inflammatory cytokines in bipolar disorder - Mariangela Pucci | Agriculture and Environment University of Teramo, Italy

PP219. Neuroprotective effects of the endozepine neuropeptide ODN against neuroinflammation, Oxidative stress, and metabolic dysregulation Induced by diabetes-like conditions - Mariem Sallemi | University Tunis El Manar, Tunisia,

PP220. Pancreatic Cancer-Associated Depression (PCAD) is linked to adult neurogenesis impairment - Dimitrios Troumpoukis | Biomedical Research Foundation of the Academy of Athens, Greece

PP221. Anti-tumoral effect of Octadecaneuropeptide combined with 5-Fluorouracil on glioblastoma cell line U87 – MG - Marwen Ben Fdilen | University of Tunis El Manar, Tunisia

PP222. MicroRNA-Driven Molecular Targeting in Glioblastoma: The Role of the Neuropeptide PACAP as a Potential Therapeutic Regulator in Tumor Suppression - Ibtihel Chatti | University Tunis El Manar, Tunisia

PP223. Sexual Dimorphism and Cognitive Domains: Unravelling Sex Differences in Ageing - Torre, Vittoria | University of Catania, Italy

PP224. Genetic Variants and Epigenetic Modifications of CNR1 and FAAH Genes in the Pathophysiology of Anorexia Nervosa - Federica Gilardini | University of Teramo, Italy & University of Camerino, Italy

PP225. Increased aggregation propensity of transthyretin in a mouse model of sporadic Alzheimer's disease might contribute to disease progression by increasing susceptibility to oxidative stress - Jan Homolak | University of Zagreb, Croatia & University of Tübingen, Germany

PP226. Effect of intranasally administered galantamine on hippocampal neurogenesis in the TgF344-AD transgenic rat model of Alzheimer's disease - Trochopoulou Maria | AuTh, Thessaloniki, Greece

PP227. Neuroplastic Effects of an Intervention Combining Physical Exercise and tDCS in frailty adults - Cristina Nombela | Autonomous University of Madrid, Spain

PP228. Investigating a newly-discovered extrathalamic excitatory pathway of posterior thalamic nucleus - Olivér Nagy | University of Szeged - Szeged, Hungary

Tuesday, June 10, 2025 - Poster Session 3

PP301. The pathogenic P31L mutation in the human creatine transporter 1 impairs transport kinetics and substrate affinity - Didem Ün | Medical University of Vienna, Austria

PP302. Chromogranin a / phosphatidic interaction modulates neurotransmitter release dynamics - Maité Montero-Hadjadje | Inserm Strasbourg, France

PP303. Investigating the origin of Notch-induced epithelial-like tumors in the Optic Lobe of *Drosophila melanogaster* - Alexandra Tsakalidou-Rafailidou | University of Crete, Greece

PP304. Natural disruption of the estrous cycle alters hippocampal structural and molecular plasticity in female mice - Rachel Manfrè | University of Zurich, Switzerland

PP305. Characterizing the role of Claudins in primary cortical neuronal cultures - Tripti Seth | Indian Institute of Science

PP306. Investigating the role of PLPPR3 in synaptic lipid signaling - Alexandra Polyzou | University of Ioannina, Greece

PP307. Rab5a and Rab11a are not involved in VE-cadherin trafficking, internalisation or recycling in human cerebral microvascular endothelial cell (hCMEC/D3) - Fawza Alenazi | Trinity College Dublin

PP308. A spherical code of retinal orientation selectivity - Dimitrios Daniel Laniado National and Kapodistrian University of Athens, Greece & The Hebrew University of Jerusalem, Israel

PP309. Neuronal networking and function of the PVT MC3R neurons - Rachel N. Lippert | German Institute of Human Nutrition Potsdam-Rehbrücke, Germany & University of Potsdam & Charité-Universitätsmedizin, Berlin, Germany & German Center for Diabetes Research, Neuherberg, Germany

PP310. Stress Induced Morphological Alterations to Layer II/III Pyramidal Cells in Mouse Visual Cortex - Reem Khalil | American University of Sharjah, United Arab Emirates

PP311. Gene expression of immune checkpoints in LPS-induced neuroinflammation in organotypic hippocampal cultures: Implications for

depression - Kinga Kamińska | Maj Institute of Pharmacology Polish Academy of Sciences, Poland

PP312. Regionally dependent effect of intranasal insulin on activity of proteins involved in energy homeostasis - Antonia Krsnik | University of Zagreb, Croatia

PP313. Exocyst Assembly is Essential for the Proper Membrane Targeting of the Dopamine Transporter in *Drosophila melanogaster* - Ameya Kasture | Medical University of Vienna, Austria

PP314. Neurotoxic impact of Glyphosate and its metabolites: A novel analytical and cellular approach - Yasmine Limam | National Institute of Neurology Mongi Ben Hmida, Tunisia & University of Tunis El Manar, Tunisia

PP315. How do neurones communicate their metabolic needs to astrocytes? - Sergey Kasparov | University of Bristol, UK

PP316. Cortical Dynamics of Symbolic and Non-Symbolic Numerical Representations in Young and Older Adults: An EEG Study - Beniamina Mercante | National Research Council, Palermo, Italy

PP317. Immunological Profiling in Chronic Neuropathic Pain: The Role of Mass Cytometry in Biomarker Identification and Targeted Therapies - Natalia Malek | Wrocław University of Technology, Poland

PP319. Housing at Moderate Altitude Elevates Striatal Dopamine and Increases Methamphetamine Preference in Female Rats, but not Males - Shami Kanekar | University of Utah, USA.

PP320. Upregulation of K⁺ currents by Ibuprofen: efficacy in a mini-sleep *Drosophila* Shaker model - Maria Antonietta Casu | CNR-Institute of Translational Pharmacology, UOS of Cagliari, Italy

PP321. Investigating the Impact of Stimulation Intensity on Eye Movements Induced by Binaural Monopolar Galvanic Vestibular Stimulation - Alba Langlade | CNRS Université de Toulouse, France

PP322. Behavioral characterization of a model of diabetes type 2 in middle-aged Sprague-Dawley rats of both sexes - Jovana Arandelović | University of Belgrade, Serbia

PP323. Investigation of the Rapid Effects of Locally-Synthesized Estrogens in the Bed Nucleus of Stria Terminalis (BNST) in Male Mice - Elena Choleris | University of Guelph, Canada

PP324. Deficiency of the new ER thioredoxin-like protein, SELENOT, in POMC neurons alters metabolic parameters in male and female mice - Azénor Abgrall | Institute for Research and Innovation in Biomedicine (IRIB), Rouen, France

PP325. Normalization methods for immunofluorescence - Stefano Morara | National Research Council of Italy (CNR), Italy

PP326. The Need to Prioritize Female Mental Health in Canada - Tallinn F.L. Splinter | Sunnybrook Research Institute, Canada & The University of Toronto, Canada & The Centre for Addiction and Mental Health, Canada

PP327. Psilocybin and Neuroplasticity: Mechanisms, Therapeutic Potential, and Future Directions - Sogol Fereydouni Balangani | National Kapodistrian University of Athens, Greece

PP329. Forebrain organoids in disease modeling: a lab-friendly protocol for mini-brains at your fingertips - Eleonora Grecu | University of Cagliari, Italy

PP330. Harnessing Digital Music Platforms for Emotional Support in Pediatric Cancer: A Neuroscientific Perspective - Evangelia Dimoula | Institute of Stress of Biology and Medicine

PP331. Improving the role of Community Pharmacists to deliver advanced pharmaceutical care in neuropsychiatric disorders through innovative educational programs - Marios Spanakis | University of Crete, Greece & Community Pharmacists Association of Heraklion & Centre for Training and Lifelong Learning, University of Crete, Heraklion, Greece & Institute of Computer Science, Foundation for Research & Technology Hellas (FORTH), Crete

