

50th ANNIVERSARY
25th
BIENNIAL
MEETING

ESN

HSN

31th
BIENNIAL
MEETING

JOINT

MEETING

MAY 18-21 2025

NAXOS GREECE

P R O G R A M



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Message from the Program Committee Chair



Dear Conference Attendee,

welcome to the 25th Biennial Meeting of the European Society for Neurochemistry (ESN) and the 31st Meeting of the Hellenic Society for Neuroscience (HSN), jointly held on the beautiful island of Naxos, Greece.

I extend my gratitude to all of you for your numerous compelling proposals, and to the Program Committee for their diligent efforts in curating an exceptional program that we will experience over the coming days.

Our conference agenda includes two Plenary Lectures, the Bachelard Award Lecture, presentations from the Young Scientists Lectureship Awardees, a Special Lecture, 27 symposia, two of which are dedicated to our Young Members, and poster sessions covering 12 diverse topics.

Our goal is to showcase the latest research in Neurochemistry and Neuroscience, addressing a broad spectrum of relevant subjects, while promoting dialogue between junior and senior scientists, and strengthening the connections between the ESN and HSN communities for mutual advancement in the future.

I wish you a productive meeting and a enjoyable stay in Naxos!

Johannes Hirrlinger, PhD
Chair of the Program Committee

WELCOME MESSAGES

Message from the Organizing Committee Chair



Dear Colleagues,

It is with great honor and pleasure that we extend a warm welcome on behalf of the European Society for Neurochemistry (ESN), the Hellenic Society for Neuroscience (HSN), and all members of the Organizing Committee to our esteemed colleagues and participants attending the ESN/HSN joint meeting in Naxos, Greece.

Naxos offers a truly remarkable experience, as it is an island of significant historical relevance in the fields of arts, crafts, and science. Its cultural heritage dates back to the Middle Pleistocene and spans through the Bronze Age and the Ancient Greek Archaic Period to the present day. The strong emphasis on education by the people of Naxos and all Greeks is evident in the generous support we have received from the Mayor of Naxos and local businesses. Our Committee has worked tirelessly to ensure the success of this excellent scientific program.

We are eagerly looking forward to your participation in the joint meeting of the European Society for Neurochemistry and the Hellenic Society for Neuroscience.

Dimitra Mangoura, MD, PhD
Chair, Organizing Committee
ESN Secretary

Message from the ESN President



I am very happy proud and honored to welcome you to our 25th biennial meeting, celebrating our 50th anniversary, which is held together with the Hellenic Society for Neuroscience (HSN). We shall all meet on May 18-21, 2025, on the enchanting, beautiful island of Naxos, Greece.

We are extremely grateful to Prof. Dimitra (Mimika) Mangoura, our secretary, who chairs the Organizing Committee, as well as to Prof. Carlos Duarte, our treasurer, who oversees finances facilitating our excellent meeting. Last, but not least, we are indebted to Prof. Johannes Hirrlinger, our Past President, and currently Program Committee Chair. We are further thankful to all our speakers including the plenary leading experts, Professor & Nobel Laureate Thomas C. Südhof, and Professor Giovanna Mallucci, the prestigious Bachelard Award Lecturer, Professor Anthony J. Turner, the Special Lecturer, Professor Moussa Youdim, and our two excellent Young Scientist Lectureship Awardees, Riccardo Cristofani and Juana Guedes. I would further like to highlight our 25 exceptional symposia, and the two outstanding Young Member Symposia presented by both ESN and HSN. We further offered travel awards for Poster Sessions, a platform for interactive discussions and promotion of young neuroscientists.

We also present an Informative Session organized by our Young Scientists Steering Committees entitled "Empowering Women, Fostering Diversity, and Advancing Brain Science: Guiding Professional Journeys", selected for support by the World Women in Neuroscience.

This meeting could not have been organized without further support from our sister society, the International Society for Neurochemistry (ISN), as well as the Journal of Molecular Neuroscience (Springer-Nature), the European Journal of Neuroscience (Wiley), official Journal of the Federation of the European Societies for Neuroscience, the Summer Neuropeptide Conference, and your active continuous support as our loyal members.

Looking forward to an excellent meeting!

Illana Gozes
ESN President

WELCOME MESSAGES

Message from the HSN President



It is my great pleasure that, on behalf of the HSfN Council, I extend a warm welcome to you at the joint meeting of the European Society for Neurochemistry and the Hellenic Society for Neuroscience. We express our sincere gratitude to the mayor and the municipality for providing this beautiful and historic venue. We would also like to extend special thanks to the Program Committee for curating an engaging scientific agenda that showcases the latest developments in neuroscience, as well as to the Organizing Committee for their exceptional coordination and hospitality. We are also grateful to all plenary and symposium speakers who have contributed their expertise to this meeting.

Most importantly, we wish to recognize the valuable contributions of our young members, whose applications for symposia and poster presentations demonstrate the enthusiasm and excellence of a dynamic new generation of neuroscientists. Additionally, we appreciate IBRO for its support of the Young Member Symposia and Travel Awards, along with our sponsors for their generous financial contributions.

We anticipate a stimulating and fruitful meeting, filled with discussions, collaborations, and discoveries.

Vassilis Raos, PhD
HSfN President

Program Committee

Johannes Hirrlinger, Chair, Germany,
 Illana Gozes, Israel, ex officio
 Dimitra Mangoura, Greece, ex officio
 Carlos Duarte, Portugal, ex officio
 Dimitra Thomaidou, Greece, ex officio
 Marina Vidaki, Greece, ex officio
 Adva Hadar, Israel, ex officio
 Antonio Rodriguez Moreno, Spain, ex officio
 Jessica Kwok, UK, ex officio
 Ago Rinken, Estonia
 Blanca Aldana, Denmark
 Christian Neri, France
 Iro Georgoussi, Greece
 João M N Duarte, Sweden
 Panos Politis, Greece
 Sara Grassi, Italy
 Tommaso Patriarchi, Switzerland

European Society for Neurochemistry, ESN

Elected Officers

Illana Gozes, Israel, President
 Dimitra Mangoura, Greece, Secretary
 Carlos Duarte, Portugal, Treasurer
 ESN Councillors
 Johannes Hirrlinger, Past President, Germany
 Marcus Rattray, ESN Company Secretary, UK
 Anthony Turner, ESN Historian, UK
 Adva Hadar, ESN YSSC Chair, Israel
 Paul Andjus, Serbia
 Angelo Poletti, Italy
 Antonio Rodriguez Moreno, Spain, Treasurer-elect
 Clevio Nobrega, Portugal
 Elena Rybnikova, Russia
 Jessica Kwok, UK
 Nico Mitro, Italy
 Aiman Saab, Switzerland

COMMITTEES

ESN Young Scientist Steering Committee

Adva Hadar, Chair, Israel
 Emanuel Tahiri, Portugal
 Maram Ganaïem, Israel
 Milorad Dragic, Serbia
 Rui Rodrigues, France
 Viktor Stratilov, Russia

Organizing Committee

Dimitra Mangoura, Chair, Greece
 Kostas Vekrellis, co-Chair
 Androniki Raftogianni, Greece, ex officio
 Carlos Duarte, Portugal, ex officio
 Emma Tsirimonaki, Greece
 George Leondaritis, Greece
 Kiki Sidiropoulou, Greece
 Maria Gaitanou, Greece
 Spiros Efthimiopoulos, Greece

Hellenic Society for Neuroscience, HSN

Elected Officers

Vasilios Raos, Greece, President
 Emmanouil Froudarakis, Greece, Secretary General
 Androniki Raftogianni, Greece, Treasurer
 HSN Councillors
 Dimitra Thomaidou, Greece
 Marina Vidaki, Greece
 Alternate Members
 Christina Kyrousi, Greece
 Charalambos Alexopoulos, Greece

Plenary lecture I, ISN-ESN

Thomas C. Südhof MD, PhD
Nobel Laureate 2013



Has made significant discoveries regarding the molecular mechanisms involved in neurotransmitter release at the synapse. His pioneering work has greatly advanced the understanding of synaptic physiology, contributing to insights into neurological disorders such as autism, schizophrenia, and Alzheimer's disease. In recognition of his groundbreaking achievements, Dr. Südhof was awarded the Nobel Prize in Physiology or Medicine in 2013.

Dr. Südhof's research has clarified how synaptic vesicles merge with neuronal membranes to facilitate neurotransmitter release. He identified that specific protein interactions, particularly between Munc18-1 and SNARE proteins, along with a molecular complex formed by RIM and Munc13 proteins, are essential for the fusion of synaptic vesicles. Additionally, he described how calcium ions initiate vesicle fusion and exocytosis by binding to synaptic vesicle proteins known as synaptotagmins. He also identified presynaptic and postsynaptic proteins, termed neuroligins and neurexins, which interact to create a physical link across the synaptic cleft. His subsequent research focused on mutations in neurexins and neuroligins and their implications for disorders like autism. Currently, his work continues to explore the intricate protein interactions that govern synaptic transmission, including how trans-synaptic interactions mediated by latrophilins and their ligands, teneurin and FLRT, orchestrate the cytoplasmic recruitment of pre- and postsynaptic phase-separated scaffold proteins, thereby directly influencing the recruitment of active zone scaffolds to synapses.

In addition to the Nobel Prize, Dr. Südhof is the recipient of several awards, including the Alden Spencer Award (1993), the National Academy of Sciences Award in Molecular Biology (1997), the Bristol-Myers Award in Neuroscience (2004), the Passano Award (2008), the Kavli Award in Neuroscience (2010), and the Lasker-de-Baake Medical Basic Research Award (2013). He was elected to the National Academy of Sciences in 2002 and joined the American Academy of Arts and Sciences in 2010.

PLENARY LECTURES

Plenary lecture II, IBRO-HSN

Giovanna Mallucci, PhD



Is a Founding Principal Investigator at Altos Labs, Cambridge Institute of Science, Cambridge, UK.

She was previously Center Director of the UK Dementia Research Institute and van Geest Professor of Clinical Neurosciences at the University of Cambridge.

Her lab pioneered the understanding of the role of the Unfolded Protein Response (UPR) in neurodegenerative diseases and its therapeutic manipulation for neuroprotection, including discovering repurposable drugs now in clinical trials.

Her interest in neuroprotection led to the discovery of 'hibernation' proteins in synapse regeneration that can be targeted therapeutically to prevent neurodegeneration.

She is a Fellow of the Academy of Medical Sciences and recipient of the 2021 Potamkin Prize for Research in Pick's, Alzheimer's and Related Disorders.

In March 2025 she was awarded an Honorary Doctorate (Dr. Honoris Causa) by the Sorbonne University in Paris. Giovanna is a practicing neurologist, specialized in dementia.

Bachelard Award lecture

Anthony J. Turner, PhD



In keeping with the tradition of the Bachelard Awards, established in 2017 to honor the significant contributions of Prof. Herman Bachelard to the field of neurochemistry, the European Society for Neurochemistry (ESN) is delighted to announce that Professor Anthony J. Turner from the University of Leeds (UK) will be the recipient of the 4th ESN Bachelard Lectureship Award. This award will be presented during the 25th ESN Biennial Meeting, which also celebrates the 50th anniversary of the ESN.

Anthony J. Turner, (BA, MA, PhD, University of Cambridge; Doctor honoris causa University of Bratislava, FmedSci, UK) is Emeritus Professor of Biochemistry at the University of Leeds. He is a prominent neurochemist noted for a highly productive research career in molecular cell biology focusing on the structure, function and biomedical applications of proteinases implicated in neurodegenerative and cardiovascular diseases. He introduced the concept of the synaptic "neuropeptidase" and established the research area of membrane protein shedding by metalloproteinases. His works have shown the importance of the neuropeptidase neprilysin in amyloid clearance as a therapeutic target in Alzheimer's disease. More recent studies have also focused on the involvement of epigenetic mechanisms in neurodegeneration. He was the first to identify and clone the angiotensin-converting enzyme-2 (ACE2) gene and characterise the ACE2 protein which is now recognised as the receptor for the SARS coronavirus causing the COVID-19 pandemic. In addition to his research activity Prof Turner has been long associated with various learned Societies, particularly ESN, serving as its Secretary, President and now Historian. He has played key roles in scientific publishing having served as Chief Editor of the Biochemical Journal and later Journal of Neurochemistry. He is also Chair of the Publication Committee of ISN. In 2005 Prof Turner was awarded the Distinguished Service Award by The Biochemical Society for his outstanding contributions to biochemistry.

BACHELARD AWARD SPECIAL LECTURE

Special Neurochemistry lecture

Moussa Youdim, PhD



Moussa B. H. Youdim, Professor emeritus at Technion University and President of Youdim Pharmaceuticals, is a world famous scientist specializing in neurochemistry and neuropharmacology. He is the inventor and developer of monoamine oxidase (MAO) B inhibitors l-deprenyl (Selegiline) and rasagiline (Azilect) as innovative Parkinson's disease drugs. He was a pioneer in investigating the impact of brain iron dysregulation on cognitive function. His research encompassed the effects of nutritional iron deficiency, which leads to cognitive impairments and learning difficulties in both animal models and children suffering from this deficiency. Additionally, he explored the consequences of iron accumulation in brain neurons, which can lead to neurodegenerative diseases such as Parkinson's, Alzheimer's, and amyotrophic lateral sclerosis (ALS). He identified that iron-induced oxidative stress may trigger neurodegeneration. Notably, he was the first to show that iron chelators like desferal and VK-28 offer neuroprotection in animal models of Parkinson's disease, as the degeneration of dopamine neurons in the substantia nigra results in iron accumulation. Excess free iron can generate free radicals and contribute to oxidative stress. Furthermore, he made significant strides in developing multi-target drugs for treating Parkinson's and Alzheimer's diseases, which exhibit iron-chelating properties along with monoamine oxidase and cholinesterase inhibitory activities. Professor Youdim has authored nearly nine hundred papers and reviews, edited 45 books in the fields of neurochemistry, neuropharmacology, multi-target drug development, and transcriptomics, and has received numerous prestigious awards.

ISN-ESN Young Scientist Lecturship Awards

Ricardo Cristofani, PhD, University of Milan, Italy

Joana Guedes, PhD, University of Coimbra, Portugal

ESN-ISN Young Member Symposia

Annamaria Tisi, PhD, Italy

Avinoam Ratzabi, PhD Student, Israel

Elisa Marozzi Cruz, PhD, United Kingdom

Gabriele Karger, PhD Student, Germany

Hidaayah Jimoh-Abdulghaffaar, PhD, Nigeria

Juliane Loui, PhD Student, Germany

Luise Schlotterose, PhD, United Kingdom

Marta Turri, PhD, Canada

Mor Yam, PhD Student, Israel

Weronika Tomaszewska, PhD Student, Poland

HSN-IBRO Young Member Symposia

Anastasia Megalokonomou, PhD Student, Greece

Anastasia Vamvaka-Iakovou, PhD Student, Greece

Elissavet Akrioti, PhD Student, Greece

Hazem Safory, PhD, Israel

Kaplani Konstantina, PhD, Greece

Konstantina Dimoula, PhD Student, Greece

Konstantinos Diskos, PhD Student, Greece

Marianna Naki, PhD Student, Greece

Pasadaki Sofia, PhD Student, Greece

Sofia Petsangouraki, PhD Student, Greece

IBRO-HSN Travel Awardees

Despoina Liang, PhD Student, Greece

Elpinickie Ninou, PhD, Greece

Enes Yağız Akdaş, PhD, Germany

Giota Tsotsokou, PhD Student, Greece

Irini Thanou, PhD, Greece

Katrijn Boon, PhD, Netherlands

AWARDEES AWARDEES

Klytaimnistra Giannaki PhD Student, Greece

Maria Papageorgiou, PhD Student, Greece

Modestos Nakos Bimpos, PhD, Greece

Nikolaos Kokkorakis, PhD, Greece

Olympia Apokotou, PhD Student, Greece

Styliani Vassalou, PhD Student, Greece

Vasileios Gouzouasis, PhD Student, Greece

ISN-ESN Travel Awardees

Alexandra Fletcher-Jones, PhD, United Kingdom

Alexandre Pinto, PhD Student, United Kingdom

Barbara Zulli, PhD Student, Italy

Danielle Galber PhD Student, Israel

Dimitra Ranti, PhD Student, Germany

Emanuel Tahiri PhD Student, Portugal

Hannah Cahill, PhD, United Kingdom

Jaroslava Guzikova, PhD Student, Slovakia

Laura Oliveira, PhD, United Kingdom

Lucrezia Romana Rolfi, PhD Student, Italy

Mária Brodňanová, PhD, Italy

Maria Peteinareli, PhD Student, Austria

Marie-Kim St-Pierre, PhD, Sweden

Marta Zaninello, PhD, 2014, Germany

Miraj ud Din Momand, PhD Student, Slovakia

Monika Liskova, PhD Student, Slovakia

Nuno Alemão-Serrano, MD, PhD Student, Portugal

Paul Spellerberg, PhD Student, Germany

Richard Seager, PhD, United Kingdom

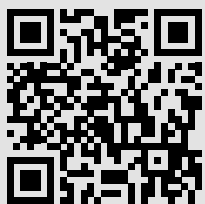
Simona Lanzillotta, PhD, Italy

Srinidhi Jahnavi, PhD Student, Germany

Violeta Belickiene, PhD Student, Lithuania

Yucel Busra Perihan, PhD, United Kingdom

VENUE



map pin

The Cultural
Center of Naxos
former Ursuline School

Castle (Kastro), Hora,
Naxos, Greece

Secretariat:

Emmanouella Tsirimonaki, Msc,
email: esn-hsn_naxos2025Secretariat@outlook.com
Mobile (WhatsApp or Viber): +30 6944087768; +30 6940823177

Registration:

The registration desk is located in the entrance foyer of The Cultural Center of Naxos and will remain open during the following hours:

Sunday, May 18, 2025, 10:00-19:00;
and Monday, May 19 - Tuesday, May 20, 2025 08:00-20:00

The registration fee of registered participants includes attendance of all scientific program sessions, entrance to the exhibitions, welcome reception, lunch packs & coffee breaks, and the conference bag with pen and block including all conference material.

Name Badge:

Each delegate receives a name badge upon registration. Delegates must wear the badge at all times during the conference. Admission to the meeting rooms and social events are limited to those wearing the name badges.

Certification of Attendance:

A Certificate of Attendance will be send by email.

Coffee breaks and Lunch at the Posters:

Free coffee will be served during the morning and afternoon breaks; a lunch snack will be provided for Monday-Wednesday, all served at the Courtyard

Smoking Policy:

Smoking is prohibited in all conference rooms.

Electricity:

The power supply in Greece is 220 V AC at 50 Hz, and plugs are of Type F.

Local Time:

Greece Time is Universal Time Coordinated (UTC) + 3.

Telecommunications:

The international access code for Greece is +30. The outgoing code is 00 followed by the relevant country code (e.g. 001 for the USA or Canada, 0044 for the United Kingdom).

Emergency Numbers and other useful telephone numbers, Naxos

European Emergency Service	112
Health Center of Hora (Town)	+30 22853 60500
Emergency Fire Brigade	+30 22850 3219
Police Police Station of Hora (Town)	+30 2285 022100
Naxos Airport	+30 22850 23292
Port Authority	+30 22850 22300
Bus Terminal (KTEL).....	+30 22850 22291
Taxi	+30 22850 22444
Municipality of Naxos and Small Cyclades	+30 22853 60100
English-Greek Medical Information.....	+30 210 8983146

IMPORTANT INFORMATION

Posters will be displayed at the Hallways/closed Balconies of The Cultural Center of Naxos on Monday, Tuesday, and Wednesday. Accepted abstracts have been assigned a day, a session, and a number within a session, all encoded in the Abstract Code, e.g. TU01-02 assigns a poster to Tuesday, Session 1, on poster board #2; poster boards are clearly labeled with these Codes daily. Poster dimensions are 100 cm height x 95 cm width.

At least 15 minutes before your session, post your materials on the board and leave them in place for the full session; adhesive for posting will be provided in the area. Poster boards may not be used for writing, drawing, or painting; projection equipment is not provided. No presentation may be given by an individual who is not an author on the abstract. Remove materials promptly at the end of the session, that is the end of all sessions each day; posters remaining after that will be removed and discarded.

Presenting authors are required to stand by their posters during their assigned times days e.g., presenters of TU01-01 should be by their posters on Tuesday during the morning and afternoon coffee break and the extra time at lunch.

POSTER OVERVIEW

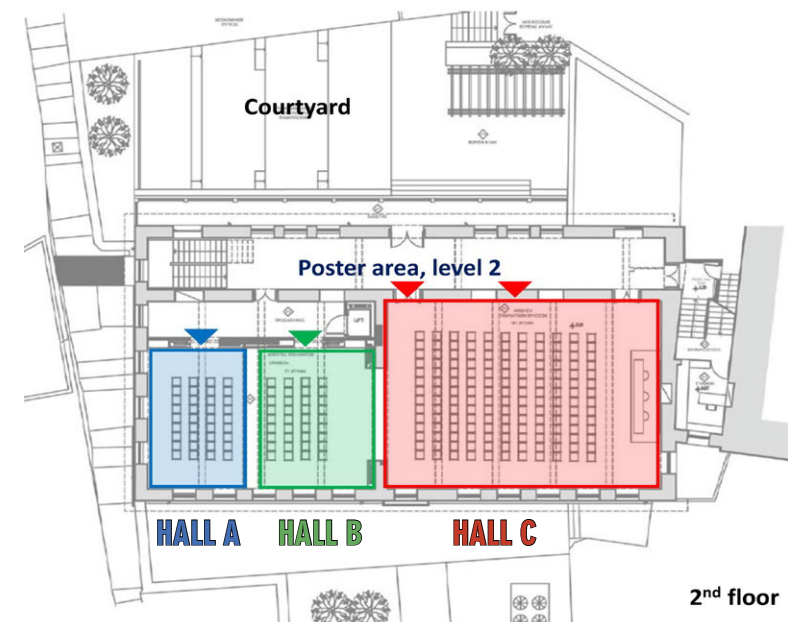
Session Code, #			Poster Topic
Monday, May 19	M001	1-9	Myelin and myelinopathies
	M002	1-9	Synaptic transmission, cognition and memory
	M003	1-11	Molecular mechanisms of Alzheimer's disease
	M004	1-9	Neuronal development
	M005	1-4	Lipids: Biosynthesis and functions
Tuesday, May 20	TU01	1-14	Synucleopathies and tauopathies
	TU02	1-11	Cannabinoids: receptors and mechanisms of action
	TU03	1-13	Neurodevelopmental disorders
	TU04	1-9	Astrocytic function in health and disease
Wednesday, May 21	WE01	1-10	Microglia
	WE02	1-12	Brain energy and metabolism
	WE03	1-15	Neuroinflammation and neurotoxicity to neuroprotection and neuroregeneration
	WE04	1-3	Autophagy and protein degradation
	WE05	1-6	Mental health disorders

POSTERS CONFERENCE VENUE



Conference Venue, The Cultural Center of Naxos, former Ursuline School. Located at the highest point of the medieval castle district known as Kastro (Castle), the Ursuline School offers spectacular panoramic views

onto the Aegean, the Temple of Apollo (Portara) and surrounding islands, Paros, Mykonos and Syros. Visible from afar, the renovated three-story neoclassic building elicits an aura of science and academia, befitting to its history as one of Greece's finest convents for schooling at the time. The school, built in 1739, was an all-girls school run by the Ursuline order till 1972 and had a stellar reputation for its academic program. Restored in 2009, is now the Cultural Venue for the Municipality of Naxos; it also houses the municipality's historical archive and library, and the Archaeological Agency of Naxos. It is adjacent to the Archeological Museum of Naxos that hosts the most extensive collection of Cycladic idols and to the Catholic Archdiocese Metropolis. On the terrace and its amazing 360° views, there is Café Avaton, where you may enjoy the view along with coffee, drinks, snacks. The Venue is about a 15 min walk from where the ferry boat docks and an 8 min walk from The Health Center.





50th ANNIVERSARY
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31st BIENNIAL MEETING


Sunday May 18, 2025

15:00 - 15:30	Opening Ceremony
15:30 - 17:30	<u>Hall A</u> S1 Neuron-glia interactions in neuro-degenerative diseases
	<u>Hall B</u> S2 From gene to investigational drug: ADNP protein and davunetide
	<u>Hall C</u> S3 Significance of extracellular vesicles in brain function and disease
Coffee Break	
18:00 - 19:30	ISN Plenary Lecture Tom Südhof
19:30 - 20:30	Welcome Reception

Monday May 19	
8:15	Special Lecture Moussa Youdim
9:00 10:00	Young Scientist Lectureship Awards R. Cristofani & J. Guedes
10:00-10:30	Coffee Break
10:30 - 12:30	<u>Hall A</u> S4 Astrocyte regulation of neural circuits: impact on brain functions
	<u>Hall B</u> S5 Emerging concepts and approaches in targeting human neurodegenerative diseases
	<u>Hall C</u> S6 RNA dynamics and translation: key to brain function
12:30-14:00	Lunch & Poster Session I
14:00 - 16:00	<u>Hall A</u> S7 Mechanisms of glial cells contribution in the development of neurodegenerative diseases
	<u>Hall B</u> S8 Shedding light on the interaction between cannabinoids use and risk of psychiatric disorders: focus on translational studies
	<u>Hall C</u> S9 Convergent molecular dysfunctions in neuro-developmental disorders: insights from studies on Fragile X syndrome
16:00-16:30	Coffee Break
16:30 - 18:30	<u>Hall A</u> S10 Mitochondria dynamics in ageing and neurodegenerative diseases
	<u>Hall B</u> S11 Old players-new tricks: novel concepts of cortical interneuron function in disease
	<u>Hall C</u> S12 Microglia-centric body to brain interactions in neuropsychiatric disorders
18:30	ESN General Assembly
19:30	HSN General Assembly

PROGRAM @ A GLANCE

Tuesday May 20	
9:00 10:00	IBRO Plenary Lecture Giovanna Mallucci
10:00-10:30	Coffee Break
10:30 - 12:30	<u>Hall A</u> S13 Cellular mechanisms of white matter homeostasis
	<u>Hall B</u> S14 Metabolic alterations underlying brain resilience and pathogenesis in Alzheimer's disease
	<u>Hall C</u> S15 Crosstalk between sphingolipid signalling and neurodegeneration
12:30-14:00	Lunch & Poster Session II
14:00 - 16:00	<u>Hall A</u> IBRO/ISN Young Member Symposium I
	<u>Hall B</u> ISN/IBRO Young Member Symposium II
	<u>Hall C</u> S16 Molecular hallmarks of polyglutamine spino-cerebellar ataxias
16:00-16:30	Coffee Break
16:30 - 18:30	<u>Hall A</u> S17 Neuronal oscillations and brain network dynamics in health and disease
	<u>Hall B</u> S18 Novel mechanisms & therapies for depression and Alzheimer's in the Precision Medicine era
	<u>Hall C</u> S19 Glial Cell Dynamics in Neurodegeneration
18:30 19:30	ESN YSSC Workshop

Wednesday May 21	
9:00 10:00	Bachelard Lecture Tony Turner
10:00-10:30	Coffee Break
10:30 - 12:30	<u>Hall A</u> S20 Mitochondria-nucleus crosstalk in behaviour and neurological disease
	<u>Hall B</u> S21 Mechanisms of Neural Fate Acquisition and Synaptic Function: From Development to Disease
	<u>Hall C</u> S22 Extracellular matrix and astrocytes in health and disease
12:30-14:00	Lunch & Poster Session III
14:00 - 16:00	<u>Hall A</u> S23 In search for objective neuromarkers & effective interventions in rare monogenic neuro-developmental disorders
	<u>Hall B</u> S24 Extracellular vesicles as hubs for neurotrophin signalling and function
	<u>Hall C</u> S25 Brains, models and pharmacology
16:00-16:30	Closing Ceremony
16:30 - 18:30	
18:30 19:30	Farewell Dinner

SCIENTIFIC PROGRAM

Day 1, Sunday, May 18, 2025

Session Code

PL Plenary Lecture
S Symposia
ETP Edge Technology Presentation

Time	Place	Type	Topic
15:00 – 15:30	All Halls	Opening Ceremony	
15:30 - 17:30	Hall A	S01	Neuron-glia interactions in neurodegenerative diseases
	Hall B	S02	From gene to investigational drug: activity-dependent neuroprotective protein and davunetide
	Hall C	S03	Significance of extracellular vesicles in brain function and disease
17:30 - 17:45	Hall A	ETP1	Advances in Multiphoton Microscopy
17:45 - 18:15	Courtyard	Coffee break	
18:15 - 19:30	All Halls	PL1	Towards a Molecular Logic of Synapse Formation in Neural Circuits
19:30-20:30	Courtyard	Welcome Reception	

Opening Ceremony 15:00-15:30

Illana Gozes, ESN President

Vassilis Raos, HSN President

Johannes Hirrlinger, Program Committee Chair

Dimitra Mangoura, Organizing Committee Chair

Alessandro Prinetti, ISN Representative

Domna Karagogeos, IBRO Representative

Symposia 01 - 03

15:30 – 17:30

Hall A

Symposium 1 Neuron-glia interactions in neurodegenerative diseases

Chair: Rebecca Matsas (Greece)

S1-01 Neuroimmune mechanisms targeting synapses in models of Alzheimer's and Parkinson's disease

Soyon Hong

Dementia Research Institute, UK

S1-02 Mitochondrial complex I activity in microglia sustains neuroinflammation and neurotoxic damage: a novel therapeutic target for multiple sclerosis

Stefano Pluchino

University of Cambridge, UK

S1-03 The yin and yang of astrocyte-neuron interactions in Parkinson's disease: implications for pathology and treatment strategies

Rebecca Matsas

Hellenic Pasteur Institute, Greece

S1-04 Oligodendrocytes and neurons as drivers of amyloid- β deposition in Alzheimer's disease

Klaus Armin Nave

Max Planck Institute for Multidisciplinary Sciences, Germany

S1-05 Microglial Trem2 control of neuronal bioenergetics and synaptic function: implications for neurodevelopmental/ neurodegenerative diseases

Erika Tagliatti

Humanitas Research Hospital, Italy

Hall B

Symposium 2 From gene to investigational drug: activity-dependent neuroprotective protein (ADNP) and davunetide

Chair: Frank Kooy (Belgium), Illana Gozes (Israel)

S2-01 ADNP/Davunetide discovery and clinical development – introduction

Gidon Karmon

Tel Aviv University, Israel

S2-02 The Helsmoortel Van der Aa (ADNP) syndrome: a molecular perspective bridging patient-derived cell models, mice, and patients

Frank Kooy & Claudio Peter D'Incal

University of Antwerp, Belgium

S2-03 Decoding a pivotal role of ADNP in microglial polarization and metabolic reprogramming: implications for neurodegeneration

David Pozo Perez

University of Seville, Spain

S2-04 ADNP/davunetide (NAP) protection of the eyeVelia D'Agata

University of Catania, Italy

Hall C**Symposium 3 Significance of extracellular vesicles in brain function and disease**

Chairs: Anja Schneider (Germany), Christian Neri (France)

S3-01 Extracellular vesicle dependent regulation of synaptobrevin/VAMP recycling in synapsesEge Kavalali

Vanderbilt University, USA

S3-02 Microglial extracellular vesicles mediate C1q deposition at the synapse and promote pre-synaptic pruningClaudia Verderio

University Milano-Bicocca, Italy

S3-03 Chronic inflammation in neurodegenerative and infectious diseases: extracellular vesicles as friend or foe?Kenneth W Witwer

Johns Hopkins University, USA

S3-04 Extracellular Vesicles as Biomarkers in Central Nervous System DiseasesAnja Schneider

German Center for Neurodegenerative Diseases (DZNE), Germany

Hall A 17:30 - 17:45**Edge Technology Presentation**

Session Chairs: Dimitra Thomaidou and Maria Gaitanou (Greece)

Advances in Multiphoton Microscopy

Andreas Fulterer, Leica Microsystems**Coffee break 17:45 – 18:15****Plenary Lecture 1, ISN Plenary Lecture**

18:15-19:30 All Halls

Chairs: Dimitra Mangoura (Greece), Alessandro Prinetti (Italy)

Towards a Molecular Logic of Synapse Formation in Neural CircuitsTom Südhof

Stanford University, USA

Welcome Reception 19:30-20:30**Day 2****Monday, May 19, 2025**

Session Code

SL	Special Lecture
YSL	Young Scientist Lectures
S	Symposia
MO	Monday Posters

Time	Place	Code	Topic
08:15-09:00	All Halls	SL	Special Lecture
09:00-10:00	Hall A	YSLA1	Young Investigator Lectureship Award I
		YSLA2	Young Investigator Lectureship Award II
10:00 - 10:30	Courtyard	Coffee break	
10:30-12:30	Hall A	S04	Astrocyte regulation of neural circuits: impact on brain functions
	Hall B	S05	Emerging concepts and approaches in targeting human neurodegenerative diseases
	Hall C	S06	RNA dynamics and translation: key to brain function
12:30-14:00	Courtyard	Lunch break and Poster Sessions	
14:00-16:00	Hall A	S07	Mechanisms of glial cells contribution in the development of neurodegenerative diseases
	Hall B	S08	Shedding light on the interaction between cannabinoids use and risk of psychiatric disorders: focus on translational studies
	Hall C	S09	Convergent molecular dysfunctions in neurodevelopmental disorders: insights from studies on Fragile X syndrome
16:00 - 16:30	Courtyard	Coffee break	
16:30-18:30	Hall A	S10	Mitochondria dynamics in ageing and neurodegenerative diseases - Role
	Hall B	S11	Old players-new tricks: novel concepts of cortical interneuron function in disease
	Hall C	S12	Microglia-centric body to brain interactions in neuropsychiatric disorders
10:00-10:30 12:30-14:00 16:00-16:30	Foyer	M001	Myelin and myelinopathies
		M002	Synaptic transmission, cognition and memory
		M003	Molecular mechanisms of Alzheimer's disease
		M004	Neuronal development
		M005	Lipids: Biosynthesis and functions

18:30-19:30 ESN General Assembly

19:30-20:30 HSN General Assembly

Special Lecture

08:15 - 09:00 Hall A

Session Chairs: Anthony Turner (UK), Ralph Dringen (Germany)

SL1 Site Activated Multi Target Iron Chelator-Antioxidant with Cholinesterase and Monoamine Oxidase Inhibitory Moieties for Alzheimer's and Parkinson's DiseasesMoussa Youdim

Technion-Israel Institute of Technology

Young Investigator Lectureship Awards

09:00 - 10:00 Hall A

Session Chairs: Angelo Poletti (Italy), Clelio Nobrega (Spain)

YLSA1 The role of protein quality control system in repeat expansion neurodegenerative diseasesRiccardo Cristofani

University of Milan, Italy

YLSA2 Type 2 neuroimmune dysfunction contributes to neurodevelopmental disordersJoana Guedes

University of Coimbra, Portugal

Coffee break and Poster Viewing 10:00 – 10:30**Symposia 04 - 06**

10:30 – 12:30

Hall A**Symposium 4 Astrocyte regulation of neural circuits: impact on brain functions**

Chairs: Joao Filipe Oliveira (Portugal), Marta Navarrete (Spain)

S04-01 The involvement of astrocyte calcium-dependent signaling in fear memoryJoao Filipe Oliveira

University of Minho, Portugal

S04-02 Catching astrocyte ensembles: their role in memory formation and expressionMarta Navarrete

Cajal Institute, Spain

S04-03 Bridging layers: how astrocyte networks boost tactile encoding and sensory integrationJuliana Rosa

National Hospital of Paraplegics, Spain

S04-04 Astrocyte transcription factor-based signaling shapes mouse socio-sexual behaviorLucile Ben Haim

Paris-Saclay Institute of Neuroscience, France

Hall B**Symposium 5 Emerging concepts and approaches in targeting human neurodegenerative diseases**

Chair: Kostas Vekrellis (BRFAA, Greece)

S05-01 Novel DNA sequencing approaches in synucleinopathiesChristos Proukakis

University College of London, UK

S05-02 Human brain organoids: understanding the role of the "niche" in neurodegenerationYassemi Koutmani

Biomedical Research Foundation Academy of Athens, Greece

S05-03 Engineered microphysiological systems in the study of neurodegenerative diseasesKatia Karalis

Regeneron Pharmaceuticals, USA

S05-04 Proteolytic activities of extracellular vesicles attenuate alpha-synuclein aggregationKostas Vekrellis

Biomedical Research Foundation Academy of Athens, Greece

Hall C**Symposium 6 RNA dynamics and translation: key to brain function**

Chairs: Filipe Duarte (Portugal), Marta Zaninello (Germany)

S06-01 Mitochondrial RNA hitch-hiking in neuronsAngelika Harbauer

Max Planck Institute for Biological Intelligence, Germany

S06-02 Mechanisms supporting localised translation of mitochondrial proteins in axonsElena Rugarli

University of Cologne, Germany

S06-03 Regulation of the axonal proteomeGinny G. Farías

Utrecht University, Netherlands

S06-04 Local translation in astrocytes for the development and regulation of the glio-neuro-vascular interfaceMartine Cohen-Salmon

College of France, France

Lunch and Poster Viewing 12:45 – 14:00**Symposia 07 - 09**

14:00 – 16:00

Hall A**Symposium 7 Mechanisms of glial cells contribution in the development of neurodegenerative diseases**

Chair: Dimitra Thomaidou (Greece)

- S07-01** **Unlocking neuroimmune drivers of neurodegeneration: mechanisms and therapies**
Katerina Akassoglou
 University of California, San Francisco & Gladstone Institutes, USA
- S07-02** **The brain-immune ecosystem: Supporting brain health in the context of aging and neurodegeneration**
Michal Schwartz
 Weizmann Institute of Science, Israel
- S07-03** **hiPSC-based models to investigate the contribution of human astrocytes in age-related brain diseases**
Emmanuel Nivet
 Aix-Marseille University, France
- S07-04** **The Alzheimer's disease risk factor BIN1 is a regulator of glial cell response to neuroinflammation**
Dimitra Thomaïdou
 Hellenic Pasteur Institute, Greece

Hall B
Symposium 8 Shedding light on the interaction between cannabinoids use and risk of psychiatric disorders: focus on translational studies

Chair: Maria Antonietta De Luca (Italy)

- S08-01** **Enduring kynurenine pathway alterations triggered by the exposure to cannabinoids in critical phases of brain maturation**
Sarah Beggiato
 University of Ferrara, Italy
- S08-02** **Impacts of maternal cannabis use on long-term psychiatric risk: the promise of interventions targeting the Omega-3 fatty acid signaling network**
Steven Laviolette
 University of Western Ontario, Canada
- S08-03** **Neurobiological sequelae of the administration of synthetic cannabinoid receptor agonists during adolescence**
Maria Antonietta De Luca
 University of Cagliari, Italy
- S08-04** **The effects of cannabis and synthetic cannabinoids on cognitive function and brain structure and function in fMRI**
Aviv Weinstein
 Ariel University, Israel
- S08-05** **Genetic variations in the endocannabinoid system and their role in cannabis-associated psychosis**
Diego Quattrone
 King's College London, UK & University of Palermo, Italy

Hall C
Symposium 9 Convergent molecular dysfunctions in neurodevelopmental disorders: insights from studies on Fragile X syndrome

Chair: Maria Vincenza Catania (Italy), Carlos Duarte (Portugal)

- S09-01** **Negr1, a new possible convergent hub for autistic spectrum disorders, including Fragile X**
Laura Cancedda
 Italian Institute of Technology, Italy
- S09-02** **Molecular mechanisms underlying the impairment in hippocampal LTP in Fragile X syndrome**
Carlos Duarte
 University of Coimbra, Portugal
- S09-03** **Fragile X syndrome: molecular and synaptic dysfunctions and therapeutic implications**
Maria Vincenza Catania
 Institute for Biomedical Research and Innovation, Italy
- S09-04** **Novel and complementary pre-clinical approaches to treat Fragile X syndrome**
Barbara Bardonì
 Institute of Molecular and Cellular Pharmacology, France

Coffee break and Poster Viewing 16:00 – 16:30
Symposia 10 - 12
16:30 – 18:30
Hall A
Symposium 10 Mitochondria dynamics in ageing and neurodegenerative diseases

Chair: Angelo Poletti (Italy)

- S10-01** **Mitophagy and mitochondrial biogenesis in ageing and neurodegeneration**
Nektarios Tavernarakis
 Foundation for Research and Technology, Greece
- S10-02** **From ER calcium handling to mitophagy: pathways to neuronal health restoration**
Allen Kaasik
 University of Tartu, Estonia
- S10-03** **The different roles of mitochondria as modulators of calcium signalling in tauopathies**
Noemi Esteras
 Complutense University of Madrid, Spain
- S10-04** **Axonal transport impairments in neurodegenerative diseases: mechanistic diversity and resulting therapeutic strategies**
Jose Noberto Vargas
 University College of London, UK

S10-05 Molecular defects in KIF5A-linked neurodegenerative and neurodevelopmental diseasesMarta Cozzi

University of Milan, Italy

Hall B**Symposium 11 Old players-new tricks: novel concepts of cortical interneuron function in disease**

Chair: Lida Zoupi (UK), Myrto Denaxa (Greece)

S11-01 Neuro-glia interactions influence cortical morphogenesis across speciesLaurent Nguyen

University of Liege, Belgium

S11-02 Unraveling how interneurons gate neocortical plasticity and sensory representationLeena Williams

University of Edinburgh, UK

S11-03 Prefrontal low gamma oscillations and fear extinction learning rely on early interneuron-oligodendroglia communicationMaría Cecilia Angulo

University of Paris, France

S11-04 The rhythms of parvalbumin interneuron myelinationMaarten Kole

Netherlands Institute for Neuroscience, Netherlands

Hall C**Symposium 12 Microglia-centric body to brain interactions in neuropsychiatric disorders**

Chair: Ali Jawaid (Poland)

S12-01 Gene-environment and brain-body interactions in preclinical models of neuropsychiatric disordersAnthony Hannan

University of Melbourne, Australia

S12-02 Microglia-lipid interactions determine resilience to adverse childhood experiences and neurodegenerationAli Jawaid

Center for Technology Development & Nencki Institute of Experimental Biology, Poland

S12-03 Metabolic reprogramming of microglia contributes to sex-dependent impairments in metabolic flexibilityAgnes Nadjar

University of Bordeaux, France

S12-04 Therapeutic implications of medium-chain fatty acids in modulating microglia metabolism and neurotransmitter homeostasis in neurodegenerative diseasesBlanca Aldana

University of Copenhagen, Denmark

Monday Poster Sessions**M001 – M005****M001 MYELIN AND MYELINOPATHIES****M001-01 WHITE MATTER MYELINATION AND AXONAL FUNCTION IN A RAT MODEL OF FRAGILE X SYNDROME *ISN-ESN Travel Award***Oliveira Laura, Tsoukala E, Bennett D, Zoupi

University of Edinburgh, United Kingdom

M001-02 REACTIVE ASTROCYTES AND ASTROCYTE TNF SIGNALING CONTRIBUTION IN DEMYELINATION AND REMYELINATIONRoufagalas Ilias, Boutou A, Politopoulou K, Tastsoglou S, Abouzeid M, Johnson MR, Barnum CJ, Tesi RJ, Probert L

Hellenic Pasteur Institute, Greece

M001-03 ROLE OF SPHINGOLIPIDS IN FRACTALKINE MEDIATED MYELIN REPAIRGrassi Sara, Marchesini A, Cappelletti G, Prioni S, Prinetti A

University of Milan, Italy

M001-04 BEYOND MULTIPLE SCLEROSIS: EXPLORING THE SPECTRUM OF AUTOIMMUNE-MEDIATED DEMYELINATIONRaftopoulou Sylvia, Karathanasis D, Rapti A, Skarlis C, Evangelopoulos M E, Mavragani C

National and Kapodistrian University of Athens, Greece

M001-05 MICROGLIA PROMOTE CNS REMYELINATION IN THE CORTICAL GREY MATTER UPON POLARIZATION TO AN INFLAMMATORY REGENERATIVE PHENOTYPEBoutou Athena, Roufagalas I, Politopoulou K, Tastsoglou S, Abouzeid M, Skoufos G, Barnum CJ, Tesi RJ, Bauer J, Lassmann H, Johnson MR, Probert L

Hellenic Pasteur Institute, Greece

M001-06 CONCURRENT COVID-19 INFECTION AND EPSTEIN-BARR VIRUS REACTIVATION AT THE FIRST CLINICAL EPISODE IN A GREEK COHORT OF MULTIPLE SCLEROSIS PATIENTS*IBRO-HSN Travel Award*Gouzouasis Vasileios, Sarri Georgiou I, Tsifintaris M, Markoglou N, Anagnostouli M, Lymberi P, Giannakakis A, Probert L

Hellenic Pasteur Institute, Greece

M001-07 ASSOCIATION OF B-CELL ACTIVATING FACTOR GENE VARIANTS WITH SERUM ANTI-JCV ANTIBODY POSITIVITY IN MALE PATIENTS WITH MULTIPLE SCLEROSIS UNDER NATALIZUMAB TREATMENT: IMPLICATIONS FOR PROGRESSIVE MULTIFOCAL LEUKOENCEPHALOPATHY RISK STRATIFICATIONSkarlis Charalampos, Papadopoulos V, Raftopoulou S, Mavragani CP, Evangelopoulos ME

National and Kapodistrian University of Athens, Greece

M001-08 LIPIDOMICS OF RESPONSE TO TREATMENT IN MULTIPLE SCLEROSISMorano Camillo, Centofanti L, Corona A, Dei Cas M, Zollo A, Mingione A, Priori A, Miozzo M, Folli F, Paroni R, Martinelli Boneschi F

University of Milan, Italy

- M001-09 CIRCULATING LEVELS OF FREE OLEIC ACID POSITIVELY CORRELATES WITH NEUROLOGICAL IMPAIRMENT IN MULTIPLE SCLEROSIS' PATIENTS**
Centofanti Lucia, Corona A, Zollo A, Morano C, Mingione A, Dei Cas M, Priori A, Miozzo M, Folli F, Paroni R, Martinelli Boneschi F
 University of Milan, Italy

M002 Synaptic transmission, cognition and memory

- M002-01 ALTERED HIPPOCAMPAL SHARP WAVE RIPPLES PLAY A ROLE IN IMPAIRED MEMORY CONSOLIDATION IN CHRISTIANSON SYNDROME MOUSE MODEL**
ISN-ESN Travel Award
Mustian Jamie, Mehrotra D, Peyrache A, McKinney AR
 McGill University, Canada
- M002-02 CIRCUIT MECHANISMS UNDERLYING THE SEXUAL DIMORPHIC EFFECTS OF RESTRAINT STRESS ON PREFRONTAL CORTICAL NEURONAL PROPERTIES**
ISN-ESN Travel Award
Velli Angeliki, Iordanidou C, Diskos K, Sidiropoulou K
 University of Crete, Greece
- M002-03 β -ADRENERGIC RECEPTOR-INDUCED E-S POTENTIATION IN THE DORSAL AND VENTRAL HIPPOCAMPUS**
Miliou Athina, Trompoukis G, Papatheodoropoulos C
 University of Patras, Greece
- M002-04 SPIKE TIMING-DEPENDENT LONG-TERM DEPRESSION REQUIRES ASTROCYTE D-SERINE AT L2/3-L2/3 SYNAPSES OF THE MOUSE SOMATOSENSORY CORTEX**
Rodriguez-Moreno Antonio, Sanchez-Gomez J, Andrade-Talavera Y
 Pablo de Olavide University, Spain
- M002-05 DESCENDING CONTROL OF PAIN BY THE INSULAR CORTEX**
IBRO-HSN Travel Award
Liang Despoina, Psychogiou A, Kosmeri D, Kouvarda ED and Labrakakis C
 University of Ioannina, Greece
- M002-06 TARGETING MEMORY SYSTEMS TO COMBAT DRUG ADDICTION: SEX-SPECIFIC APPROACHES TO DISRUPTING REWARD-CONTEXT MEMORIES**
Colon Lorianne M, Fortuna R, Shroff S, Yun S, Eisch AJ
 Children's Hospital of Philadelphia Research Institute, USA
- M002-07 CO-CLINICAL EVALUATION OF COGNITIVE IMPAIRMENTS INDUCED BY CHEMOTHERAPEUTIC AGENTS IN MICE AND HUMANS: A RESEARCH PROTOCOL**
Andrade Rayany KS, Barbosa JPP, Brunheroto FB, Hyppolito H, Pereira MPN, Nicolau ES, Rosa DVF, Nogueira-Souza AC, de Paula JJ, Miranda DM, Romano-Silva MA
 University of Minas Gerais, Brazil
- M002-08 DEVELOPMENTAL AND SEX-SPECIFIC EFFECTS OF A5-NICOTINIC ACETYLCHOLINE RECEPTOR DELETION ON COGNITIVE BEHAVIOUR AND ULTRASONIC VOCALIZATIONS IN MICE**
Marinos Filippos, Daponte DP, Skaliora I
 National and Kapodistrian University of Athens, Greece

- M002-09 ANTICONVULSANT POTENTIAL OF ARTEMISIA VULGARIS ROOT EXTRACT IN A PTZ-KINDLING MOUSE MODEL**
Trofimov Alexander, Karapina O, Myrkhieva Z, Fayezova K, Arapbayeva D, Yermagambetov Y, Kizatov B, Shirokov E, Akbay B, Tokay T
 University of Nazarbayev, Kazakhstan

M003 Molecular mechanisms of Alzheimer's disease

- M003-01 VOLTAGE-GATED CALCIUM CHANNELS AS A POSSIBLE NEW APPROACH FOR ALZHEIMER'S DISEASE**
ISN-ESN Travel Award
Aleman-Serrano Nuno, Costa-Coelho T, Marcal C, Sebastiao AM, Diogenes MJ
 University of Lisbon, Portugal
- M003-02 NEURONAL RTP801 AFFECTS ADULT HIPPOCAMPAL NEUROGENESIS IN VIVO IN HEALTH AND ALZHEIMER'S DISEASE**
Garcia-Segura Pol, Capoy-Campos G, Solana-Balaguer J, Chicote-Gonzalez A, Perez-Sisques L, Alberch J, Giral A, Malagelada C
 Barcelona Faculty of Medicine and Health Sciences, Spain
- M003-03 BREAKING THE FLOW: HOW AMYLOID- β DISRUPTS AXONAL AUTOPHAGY IN EARLY ALZHEIMER'S DISEASE** *ISN-ESN Travel Award*
Tahiri Emanuel, Santos A, Duarte CB, Costa RO
 University of Coimbra, Portugal
- M003-04 $\alpha\beta$ ISOMERIZATION ACCELERATES PATHOLOGICAL PROCESS IN $\alpha\beta$ -INDUCED ALZHEIMER'S DISEASE MODEL**
Mukhina Kristina, Rybak A, Kechko O, Mitkevich V, Makarov A
 Engelhardt Institute of Molecular Biology, Russia
- M003-05 BRAIN INSULIN RESISTANCE AND OXIDATIVE STRESS: UNRAVELING THE ROLE OF BVR-A IN NEURODEGENERATION** *ISN-ESN Travel Award*
Lanzillotta Simona, Barone E
 Sapienza University of Rome, Italy
- M003-06 STRUCTURAL AND THERMODYNAMIC ANALYSIS OF ALZHEIMER'S DISEASE-PROTECTIVE APOLIPOPROTEIN E VARIANTS**
Georgiadou Daphne, Chroni A
 Center for Scientific Research "Demokritos", Greece
- M003-07 LONG-TERM IMPACTS OF CHRONIC STRESS: THE ROLE OF NEUROINFLAMMATION AND TRKB IN STRESS-ACCELERATED ALZHEIMER'S PATHOLOGY IN MICE**
Nitzan Keren, Shlomi S, Rivkin-Natan M, Toledano R, Franko M, Bentulila Z, Frenkel D, Doron R
 The Open University, Israel
- M003-08 EXPRESSION AND PHARMACOLOGICAL MODULATION OF 18kDa TRANSLOCATOR PROTEIN IN DIFFERENT CELLULAR MODELS OF ALZHEIMER'S DISEASE**
Balloni Irene, Angeloni E, Dell'Amico C, Coppini A, Marchetti L, Onorati M, Raffa V, Barresi E, Da Settimo F, Taliani S, Costa B, Da Pozzo E, Trincavelli ML
 University of Pisa, Italy

- M003-09** **DISRUPTION OF SYNAPTIC BALANCE IN PRIMARY NEURONAL MODELS OF ALZHEIMER'S DISEASE AND TAUOPATHY** *ISN-ESN Travel Award*
Cahill Hannah, Henley JM, Wilkinson KA
 University of Bristol, United Kingdom
- M003-10** **ANALYSIS OF DIFFERENTIAL EXPRESSION OF GENES IN CELLULAR MODELS FOR THE STUDY OF ALZHEIMER'S DISEASE** *IBRO-HSN Travel Award*
Giannaki Klytaimnistra, Volioti A, Aktypi E, Koukovini T, Sfouni E, Triantafyllou C, Galaras A, Hatzis P, Papazafiri P, Efthimiopoulos S
 National and Kapodistrian University of Athens, Greece
- M003-11** **KLK6 MODULATES $\alpha\beta$ PLAQUE ACCUMULATION IN A MOUSE MODEL OF ALZHEIMER'S DISEASE** Tsiokou Ioanna-Alexia, Iatridis N, Skayanni-Lampraki V, Pampalakis G, Sotiropoulou G, Vekrellis K, Karampetsou A
 Biomedical Research Foundation Academy of Athens, Greece

M004 Neuronal Development

- M004-01** **INVESTIGATING THE ROLE OF MENA IN THE FORMATION AND FUNCTION OF INHIBITORY SYNAPSES**
Agrymakis Emmanouil, Kanderaki E, Vidaki M
 University of Crete, Greece
- M004-02** **GEMININ AND GEMC1 INFLUENCE THE DYNAMICS OF NEURAL STEM CELLS AND EPENDYMAL CELLS IN THE ADULT SUBVENTRICULAR ZONE**
Chantzara Anna, Lalioti ME, Kyrousi C, Kaplani K, Lokka G, Lygerou Z, Taraviras S
 University of Patras, Greece
- M004-03** **THE ROLE OF MENA IN THE FORMATION AND FUNCTION OF RNA GRANULES IN ADULT AXONS**
Papa Elisavet, Pasadaki S, Triantafyllidou E, Koupepia C, Vidaki M
 University of Crete, Greece
- M004-04** **MODULATION OF GEMC1 EXPRESSION INDUCES WIDESPREAD CHROMATIN CHANGES**
Kritikos Georgios, Kyrousi C, Arbi M, Kaplani K, Lalioti M, Lokka G, Kanellopoulou M, Karava D, Lygerou Z, Taraviras S
 University of Patras, Greece
- M004-05** **IMMUNOHISTOLOGICAL STUDY OF THE DISTRIBUTION OF NERVE FIBERS IN THE OVINE NIPPLE.**
Chatzimanou Tryfon, Giannakis A, Kyprianidi M, Politis C, Tsingotjidou A
 University of Thessaloniki, Greece
- M004-06** **THERAPEUTIC FXN EXPRESSION VIA HEMATOPOIETIC STEM CELL GENE THERAPY FOR FRIEDREICH'S ATAXIA**
Beta Christina, Theodoridou V, Nianiakoudi-Koen E, Iordanidou A, Piperidou C, Tsingotjidou A, Christofi P, Psatha N, Yannaki E
 Aristotle University of Thessaloniki, Greece
- M004-07** **NF1 EXON 51 SKIPPING IN PRIMARY NEURONS REVEALS NOVEL PROPERTIES OF NEUROFIBROMIN ISOFORMS IN CYTOSKELETON DYNAMICS**
Peta Charoula, Giassa A, Valakos D, Tsimonaki E, Vatselas I, Anagnostopoulos A, Thanos D, Mangoura D
 Biomedical Research Foundation of the Academy of Athens, Greece

- M004-08** **THE ROLE OF VITAMIN D3 IN EMBRYONIC HIPPOCAMPAL CELLS**
Sallo Aleksj, Federico F, Samuela C, Klementina P, Elisabetta A, Tommaso B
 University of Perugia, Italy
- M004-09** **SELENIUM INFLUENCE ON GENE EXPRESSION IN MOUSE BRAIN AND LIVER TISSUE**
Strigauskaitė Andrija, Belickiene V, Autukaite G, Sadauskiene I, Staneviciene I, Sancho A, Vaitkiene P
 Lithuanian University of Health Sciences, Lithuania

M005 Lipid Biosynthesis and Functions

- M005-01** **THE ROLE OF PALMITOYLATION IN REGULATING KAINATE RECEPTOR TRAFFICKING AND FUNCTION** *ISN-ESN Travel Award*
Yucel Busra P, Henley JM, Wilkinson KA
 Centre for Synaptic Plasticity, University of Bristol, United Kingdom
- M005-02** **UNVEILING THE BIOCHEMICAL SECRETS OF ST3GAL3: A MULTI-APPROACH CHARACTERIZATION OF THE GLYCOPHINGOLIPID PATHWAY**
Penati Sara, Dei Cas M, Montavoci L, Casati S, Caretti A, Trinchera M
 Department of Health Science, San Paolo Hospital, University of Milan, Italy
- M005-03** **A NOVEL CONGENITAL DISORDER OF GLYCOSYLATION IS LINKED TO B4GALT5 INACTIVATION AND GLYCOPHINGOLIPID DEFICIENCY**
Dei Cas Michele, Montavoci L, Cappuccio G, De Matteis MA, Brunetti-Pierri N, Caretti A, Trinchera M
 University of Milan, Milan, Italy
- M005-04** **THE COBRA-ASSAY: A NANOBRET BASED BIOSENSOR FOR TRACKING CERT ACTIVATION AND OLIGOMERISATION** *IBRO-HSN Travel Award*
Boon Katrijn, Nijs LD, Martinez-Martinez P
 Maastricht University, Netherlands
- M005-04** **BRAIN INSULIN RESISTANCE AND OXIDATIVE STRESS: UNRAVELING THE ROLE OF BVR-A IN NEURODEGENERATION** *ISN-ESN Travel Award*
Lanzillotta Simona, Barone E
 Sapienza University of Rome, Italy

18:30- **ESN GENERAL ASSEMBLY**
19:30 **HSN GENERAL ASSEMBLY**

Day 3

Tuesday, May 20, 2025

Session Code

PL	Plenary Lecture
S	Symposia
YMS	Young Member Symposia
TU	Tuesday Posters
WS	ESN YSSC Workshop

Time	Place	Code	Topic
09:00-10:00	HALLS A-C	PL	Plenary Lecture II
10:00 - 10:30	Courtyard	Coffee break	
10:30-12:30	Hall A	S13	Cellular mechanisms of white matter homeostasis
	Hall B	S14	Metabolic alterations underlying brain resilience and pathogenesis in Alzheimer's disease
	Hall C	S15	Crosstalk between sphingolipid signalling and neurodegeneration
12:30-14:00	Courtyard	Lunch break and Poster Sessions	
14:00-16:00	Hall A	YMS I	Young Member Symposium I
	Hall B	YMS II	Young Member Symposium II
	Hall C	S16	Molecular hallmarks of polyglutamine spinocerebellar ataxias
10:00 - 10:30	Courtyard	Coffee break	
16:30-18:30	Hall A	S17	Neuronal oscillations and brain network dynamics in health and disease
	Hall B	S18	Novel mechanisms & therapeutics against depression and Alzheimer's in the Precision Medicine era
	Hall C	S19	Glial Cell Dynamics in Neurodegeneration
10:00-10:30		TU01	Synucleopathies and tauopathies
12:30-14:00		TU02	Cannabinoids: receptors and mechanisms of action
16:00-16:30		TU03	Neurodevelopmental disorders
		TU04	Astrocytic function in health and disease

Plenary Lecture 2, IBRO Plenary Lecture

09:00-10:00 All Halls

Chair: Panos Politis (Greece), Antonio Moreno (Spain)

Mechanisms to medicines in neurodegenerationGiovanna Mallucci

Altos Labs, Cambridge Institute of Science, UK

Coffee break and Poster viewing 10:00 – 10:30

Symposia 13-15

10:30 – 12:30

HALL A

Symposium 13 Cellular mechanisms of white matter homeostasis

Chairs: Aiman S Saab (Switzerland)

S13-01 Getting a grip on myelination: in vivo imaging of axon-myelin adhesion using zebrafishRafael Almeida

University of Edinburgh, UK

S13-02 Illuminating the interplay between oligodendrocytes and axon functionsAiman S Saab

University of Zurich, Switzerland

S13-03 Monocarboxylates fuel myelin maintenance and repair in the central nervous systemVanja Tepavčević Mandić

University of the Basque Country, Spain

S13-04 Neuron-microglia interaction at the nodes of Ranvier in health and diseaseAnne Desmazières

Paris Brain Institute, France

HALL B

Symposium 14 Metabolic alterations underlying brain resilience and pathogenesis in Alzheimer's disease

Chair: Eugenio Barone (Italy)

S14-01 Insulin-regulated glial activation alters cellular metabolism and uptake of A β in mouse models of Alzheimer's diseaseWengiang Chen

Harvard Medical School, USA and Steno Diabetes Center Copenhagen, Denmark

S14-02 Cholesterol dys-homeostasis in the brain during implications for amyloid precursor protein processingMarie-Claude Potier

Salpêtrière Hospital, France

- S14-03 Role of sex-differences in brain energy metabolism: from resilience to the risk of developing Alzheimer's**

Eugenio Barone

Sapienza University of Rome, Italy

- S14-04 Metabolic factors associated with cognitive impairment in Alzheimer's disease**

Mychaël V Lourenco

Federal University of Rio de Janeiro, Brazil

HALL C

Symposium 15 Crosstalk between sphingolipid signalling and neurodegeneration

Chair: Riccardo Ghidoni (Italy)

- S15-01 Protective role of sphingosine 1-phosphate signaling axis in neurodegenerative diseases**

Chiara Donati

University of Florence, Italy

- S15-02 Sphingolipid homeostasis along the endomembrane system and its relevance in neurodegeneration**

Museer A. Lone

University of Zurich, Switzerland

- S15-03 Gangliosides modulate positioning and functions of proteins involved in synaptic plasticity and ion homeostasis – implications for neurodegeneration**

Svjetlana Kalanj-Bognar

University of Zagreb, Croatia

- S15-04 Emotional behavior and alcohol consumption in early onset Parkinson's disease: role of the sphingolipid system**

Liubov Kalinichenko

University of Erlangen, Germany

Lunch and Poster viewing 12:45 – 14:00

Young Member Symposia and Symposium 16

14:00-16:00

HALL A

YMS I Morphogenesis of the Central Nervous System

Chairs: Johannes Hirrlinger (Germany), Iro Georgiou (Greece)

- YMSI-01 Juvenile mglur2/3 agonist LY379268 treatment enhances prefrontal GABAergic transmission and improves behavioral and synaptic deficits in both the mam mouse and mam rat neurodevelopmental models of schizophrenia**

Konstantinos Diskos, University of Crete, Greece, *IBRO Awardee*

- YMSI-02 Deletion of Thy-1 induces a distinct partially activated astrocyte phenotype in mice**

Juliane Loui, Leipzig University, Germany, *ISN-ESN Awardee*

- YMSI-03 Role of developmental regulators of axonal local translation in adult axon regeneration**

Sofia Pasadaki, University of Crete, Greece, *IBRO Awardee*

- YMSI-04 Advanced in vitro models of blood-brain barrier leakage post-traumatic brain**

Luise Schlotterose, University of Oxford, UK, *ISN-ESN Awardee*

- YMSI-05 The role of tumor-associated macrophages in the brain metastasis microenvironment**

Avinoam Ratzabi, Tel Aviv University, Israel, *ISN-ESN Awardee*

- YMSI-06 Astrocyte-enriched 3D constructs enhance traumatic brain injury repair**

Elisa Marozzi Cruz, University of Oxford, UK, *ISN-ESN Awardee*

- YMSI-07 ATP depletion and restoration in cultured primary astrocytes**

Gabriele Karger, University of Bremen, Germany *ISN-ESN Awardee*

- YMSI-08 Contactin 2 is important in the regulation of myelination of SST+ interneurons**

Sofia Petsangouraki, University of Crete, Greece, *IBRO Awardee*

- YMSI-09 Mouse model of GRIN2D-developmental and epileptic encephalopathy recapitulate the human disease**

Mor Yam, Tel Aviv University, Israel, *ISN-ESN Awardee*

- YMSI-10 Exploring ependymal cell reprogramming as a therapeutic intervention for hydrocephalus** Kaplan Konstantina, University of Patras, Greece, *IBRO Awardee*

HALL B

YMS II Neurodegeneration Mechanisms

Chairs: Carlos Duarte (Portugal), Kiki Sidiropoulou (Greece)

- YMSII-01 Interplay of serum lipids and microglia in the susceptibility to long-term behavioral effects of adverse childhood experiences**

Weronika Tomaszewska, Nencki Institute of Experimental Biology, Poland

ISN-ESN Awardee

- YMSII-02 Aspirin as a modifier of epigenetic responses: DNA methylation changes in a social instability model of depression in female Wistar rats**

Hidaayah O. Jimoh-Abdulghaffaar, University of Ilorin, Nigeria, *ISN-ESN Awardee*

- YMSII-03 The retina as a window to the brain: dysregulated endocannabinoid signalling as a biomolecular marker of early Alzheimer's disease**

Annamaria Tisi, University of L'Aquila, Italy, *ISN-ESN Awardee*

- YMSII-04 Monitoring the impact of prolonged use of cannabidiol in the healthy brain: a multiscale analysis**

Anastasia Vamvaka-Iakovou, "Demokritos" NCSR, Athens, Greece, *IBRO Awardee*

- YMSII-05 α -Synuclein is a novel functional interactor of the exocyst complex**

Konstantina Dimoula, University of Athens, Greece, *IBRO Awardee*

- YMSII-06 Spatiotemporal dynamics of synaptic dysfunction in p.A53T- α SYN models: investigating early pathology as a therapeutic target**

Elissavet-Kalliopi Akrioti, Hellenic Pasteur Institute, Greece, *IBRO Awardee*

- YMSII-07** An innovative decoy peptide strategy to mitigate α -synuclein pathology in Parkinson's disease models
Hazem Safory, Technion-Israel Institute of Technology, Israel, *IBRO Awardee*
- YMSII-08** SNCA-targeting antisense oligonucleotides as a therapeutic approach for alpha-synucleinopathies
Marianna Naki, Biomedical Research Foundation, Academy of Athens, Greece, *IBRO Awardee*
- YMSII-09** Cholesterol esterification is hampered in Alzheimer's disease
Marta Turri, University of Sherbrooke, Canada
ISN-ESN Awardee
- YMSII-10** Novel antisense oligonucleotides against tau brain pathology
Anastasia Megalokonomou, "Demokritos" NCSR, Athens, Greece, *IBRO Awardee*

HALL C**Symposium 16 Molecular hallmarks of polyglutamine spinocerebellar ataxias**

Chairs: Clelio Nobrega, David Brito (Portugal)

- S16-01** From molecular pathogenesis to therapeutic targets: the SCA3/MJD case
Patrícia Maciel
University of Minho, Portugal
- S16-02** Molecular biomarkers for SCA2 disease progression
Luis Velazquez-Perez
Center for the Research and Rehabilitation of Hereditary Ataxias, Cuba
- S16-03** Gut-brain involvement in SCA3
Angela Laird
Macquarie University, Australia
- S16-04** Genetic and molecular factors modifying the pathogenesis of Spinocerebellar Ataxia Type 3
Thorsten Schmidt
University of Tübingen, Germany

Coffee break and Poster viewing 16:00 – 16:30**Tuesday Poster Sessions****TU01 – TU04****TU01 Synucleopathies And Taupathies**

- TU01-01** INVESTIGATING p.A53T-ALPHA-SYNUCLEIN-INDUCED ASTROCYTIC SENESCENCE IN A PARKINSON'S DISEASE iPSC MODEL
Paschou Christina, Sideris C, Apokotou O, Dede S, Kollias A, Taoufik E, Matsas R, Papastefanaki F.
Hellenic Pasteur Institute, Greece
- TU01-02** THE ROLE OF SMALL EXTRACELLULAR VESICLES IN ALPHA-SYNUCLEIN TRANSMISSION
Karampela Dimitra Sotiria, Delis A, Melki R, Pagakis S, Vekrellis K, Pantazopoulou M.
Biomedical Research Foundation Academy of Athens, Greece

- TU01-03** LINKING CELLULAR SENESCENCE AND ALPHA-SYNUCLEIN DRIVEN PATHOLOGIES IN PARKINSON'S DISEASE *ISN-ESN Travel Award*
Miraj Ud Din Momand, Mjartinova D, Fialova L, Albertusova K, Fricova D
Slovak Academy of Sciences, Slovakia
- TU01-04** FMRP REGULATES ALPHA-SYNUCLEIN ACCUMULATION THROUGH DUAL CONTROL OF PROTEIN DEGRADATION AND TRANSLATION
Giasin Kattan Fedon, Sdraka M, Doxakis E
Biomedical Research Foundation Academy of Athens, Greece
- TU01-05** EXTRACELLULAR VESICLE DERIVED MIR-101-3P AND MIR-30B-5P AS INDICATORS OF PARKINSON'S DISEASE PROGRESSION *ISN-ESN Travel Award*
Violeta Belickiene, Pranckeviciene A, Radziunas A, Strigauskaitė A, Vaitkienė P
Lithuanian University of Health Sciences, Lithuania
- TU01-06** SUBCELLULAR AND BIOCHEMICAL CHARACTERIZATION OF THE NOVEL A30G ALPHA-SYNUCLEIN MUTANT IN PARKINSON'S DISEASE
Pantazopoulou Marina, Gavra VZ, Melki R, Kyrousi C, Stefanis L
Biomedical Research Foundation Academy of Athens, Greece
- TU01-07** PHARMACOLOGICAL INHIBITION OF MIRK/DYRK1B KINASE DECREASES TAU PHOSPHORYLATION AT T212 RESIDUE AND CONFERS NEUROPROTECTION IN THY-TAU22 CORTICAL NEURONS
Kokkorakis Nikolaos, Tsimpouki K, Dedousis A, Matsas R, Gaitanou M.
Hellenic Pasteur Institute
- TU01-08** VALIDATION OF KLK6 AS A NEW THERAPEUTIC TARGET FOR PARKINSON'S DISEASE
Skarveli Marina, Agori AF, Melachroinou K, Koliannou A, Zingkou E, Pampalakis G, Sotiropoulou G, Vekrellis K Biomedical Research Foundation Academy of Athens, Greece
- TU01-09** MONITORING THE ROLE OF EXTRACELLULAR VESICLES IN THE PRECIPITATING IMPACT OF CHRONIC STRESS IN TAU BRAIN PATHOLOGY
Skourti Kalliopi, Gomes PA, Gregoriadou L, Katsaitis F, Samiotaki M, Panayotou G, Silva JM, Tsolaki M, Costa-Silva B, Waites CL, Sotiropoulos I
National Centre for Scientific Research "Demokritos", Greece
- TU01-10** OPTIMIZATION OF ALPHA-SYNUCLEIN SEEDING AMPLIFICATION ASSAY EXPLOITING RECOMBINANT MONOMERIC PROTEIN FROM DIFFERENT SOURCES
Kotoula Androniki, Fouka M, Papagiannakis N, Vekrellis K, Becker S, Melki R, Xilouri M, Stefanis L
Biomedical Research Foundation Academy of Athens, Greece
- TU01-11** MICROGLIAL TREM2 SIGNALLING IN HIPSC-DERIVED MODELS OF ALPHA-SYNUCLEIN-MEDIATED NEURODEGENERATION AND NEUROINFLAMMATION
Vasilopoulou Foteini, Pocock J, Taoufik E
Hellenic Pasteur Institute, Greece
- TU01-12** THE EFFECTS OF CHRONIC STRESS ON THE HIPPOCAMPAL TRANSCRIPTOME IN A IN VIVO ALPHA-SYNUCLEIN PARKINSON'S DISEASE ANIMAL MODEL *IBRO-HSN Travel Award*
Nakos Bimpos Modestos, Stroggilos R, Stefanis L, Polissidis A
Biomedical Research Foundation Academy of Athens, Greece
- TU01-13** DIFFERENT MUTATIONS IN THE MAPT GENE INDUCE DISTINCT NEUROPATHOLOGICAL EFFECTS IN A CELLULAR MODEL OF TAUOPATHY.
Inigo-Catalina Lucia, Jiménez-Galan D, Rancan L, Fernandez-Ruiz J, Alquezar C, Navarro E, Esteras N
Complutense University of Madrid, Spain
- TU01-14** NON-INVASIVE DOWN-REGULATION OF ENDOGENOUS MURINE α -SYNUCLEIN VIA AAV.PHP.EB-GFP CAPSID AS A NOVEL THERAPEUTIC APPROACH FOR α -SYNUCLEINOPATHIES
Gialinaki Elena, Fouka M, Tsakogias I, Stavropoulos A, Melki R, De Muynck L, Tofaris G, Stefanis L, Xilouri M
Biomedical Research Foundation Academy of Athens, Greece

TU02 Cannabinoids: Receptors And Mechanisms Of Action

- TU02-01 LONG-TERM EFFECTS OF ADOLESCENT 5F-MDMB-PICA INTRAVENOUS SELF-ADMINISTRATION: NEUROBEHAVIORAL CONSEQUENCES AND MEDIAL PREFRONTAL CORTEX DYSFUNCTION IN ADULT MICE**
Caria Francesca, Margiani G, Libster A, Desfor S, Telese F, Di Chiara G, De Luca MA
 University of Cagliari, Italy
- TU02-02 CANNABINOID ADMINISTRATION IMPROVED MOTOR FUNCTION IN MALES AND MEMORY IN FEMALES IN A PRECLINICAL MODEL OF NEONATAL BRAIN INJURY**
Chillida Marc, Alart JA, Beldarrain G, Pereda I, Herrero de la Parte B, Abarrategi A, Alvarez A, Alonso-Alconada D
 University of the Basque Country, Spain
- TU02-03 PERIPHERALLY-RESTRICTED NON-ADDICTIVE CANNABINOIDS FOR ORAL CANCER PAIN TREATMENT**
Whyland Kyle L, Whitehouse E, Macalino J, Lau C, Shah B, Parwani MY, Vera S, Patil R, Alchikh M, Kitaoka Y, Li Z, Spokoyny A, Tilden J, Phung A, Paquette W, Lewis R, O'Neill P, Cahill C, Elezi G, Whitelegge J, John V, Johnson-Cohn W, Campagna JJ, Schmidt BL, Seltzman HH, Spigelman I
 University of California Los Angeles, USA
- TU02-04 NEUROPROTECTIVE EFFECTS OF CANNABIDIOL IN ACRYLAMIDE-INDUCED NEUROTOXICITY: IMPACT ON OXIDATIVE STRESS, INFLAMMATION, AND CHOLINERGIC ACTIVITY IN MICE**
Atsopardi Korina, Mesiakaris K, Sotiropoulos I, Poulas K, Margarity M
 University of Patras, Greece.
- TU02-05 MECHANISMS DRIVING TYPE 1 CANNABINOID RECEPTOR N-TERMINAL DIVERSITY**
ISN-ESN Travel Award
Oliveira Alexandre, Fletcher-Jones A, Nakamura Y, Wilkinson KA, Marsicano G, Henley JM
 University of Bristol, United Kingdom
- TU02-06 CANNABINOID ACTIONS ON SENSITIZED DURAL NOCICEPTORS IN A MOUSE MIGRAINE MODEL**
Yoshihiro Kitaoka, Koshika K, Li Z, Yamamoto T, Mulpuri Y, Whyland KL, Whitehouse E, Murali R, Chabria P, Le PL, Ahmadi P, Shafa J, Andreasyan L, Seltzman HH, Spigelman I
 University of California Los Angeles, USA
- TU02-07 THE C-TERMINAL TAIL OF CB1R REGULATES ITS SURFACE STABILITY THROUGH INTERACTIONS WITH SGIP1 AND RETROMER** *ISN-ESN Travel Award*
Fletcher-Jones Alexandra, Spackman E, Wilkinson KA, Henley JM
 University of Bristol, United Kingdom
- TU02-08 ACUTE AND SUB-CHRONIC EFFECTS OF CANNABIDIOL ON BEHAVIORAL AND BIOCHEMICAL INDICATORS IN BRAIN REGIONS OF ADULT MICE**
Kanellopoulos-Kotsonis Konstantinos, Atsopardi K, Mesiakaris K, Giannakopoulou P, Poulas K, Panagopoulos N, Margarity M
 University of Patras, Greece

- TU02-09 FROM ADOLESCENT TO AGED: THE AGE-DEPENDENT EFFECTS OF CANNABIDIOL ON ANXIETY, CHOLINERGIC ACTIVITY, AND OXIDATIVE STRESS**

Giannakopoulou Panagiota, Kanellopoulos-Kotsonis K, Poulas K, Panagopoulos N, Margarity M, Atsopardi K
 University of Patras, Greece

- TU02-10 NEUROPROTECTIVE EFFECTS OF *CANNABIS SATIVA* ON ALUMINIUM CHLORIDE-INDUCED OXIDATIVE STRESS AND HISTOPATHOLOGICAL ALTERATIONS IN LONG EVANS RATS**

Omirude Abdulqudus O, Danladi J, Jude LF, Yusuf AO, Muhammed ES, Akeem OA
 Teesside University, United Kingdom

- TU02-11 MODULATORY ROLE OF CANNABIDIOL ON THE BIOBEHAVIORAL PROFILE IN A RAT MODEL OF FRAGILE X SYNDROME**

Messinis Alexandros, Kouroupi G, Ntoulas G, Nakas G, Brakatselos C, Polissidis A, Kokras N, Dalla C, Antoniou K
 University of Ioannina, Greece

TU03 Neurodevelopmental Disorders

- TU03-01 SELECTIVE NKCC1 INHIBITION BY IAMA-6 FOR THE TREATMENT OF AUTISM AND FRAGILE X**

Savardi Annalisa, Kasongo DW, Rychlik MD, Garanzini A, Borgogno M, De Vivo M, Cancedda L
 IAMA Therapeutics, Italy

- TU03-02 REGION-RELATED DIFFERENCES IN SHORT-TERM SYNAPTIC PLASTICITY AND SYNAPTOTAGMIN-7 IN MALE AND FEMALE HIPPOCAMPUS OF A RAT MODEL OF FRAGILE X SYNDROME** *IBRO-HSN Travel Award*

Tsotsokou Giota, Miliou A, Trompoukis G, Leontiadis LJ, Papatheodoropoulos C
 University of Patras, Greece

- TU03-03 NEGR1: A NEW TARGET CONVERGING INTO CORE IMPAIRED PROCESSES IN AUTISM SPECTRUM DISORDERS**

Chellali Mariam Marie, Fumagalli A, Shevtsova O, Barberis A, Reggiani A, Gozzi A, Bozzi Y, Piccoli G, Cancedda L
 Italian Institute of Technology, Italy

- TU03-04 THE EFFECTS OF EARLY POSTNATAL NOISE EXPOSURE ON THE DEVELOPMENT OF PERINEURONAL NETS IN RAT CENTRAL AUDITORY SYSTEM**

Svobodova Burianova Jana, Fawcett JW, Kwok JCF, Syka J
 Czech Academy of Sciences, Czech Republic

- TU03-05 UNRAVELING THE INTERACTION BETWEEN TBP AND STUB1 IN THE PATHOGENESIS OF SCA17-DI** *ISN-ESN Travel Award*

Brodnanova Maria, Cornaggia L, Pramaggiore P, Magdalena R, Casarotto E, Chierichetti M, Cozzi M, Mohamed A, Ferrari V, Tedesco B, Milioto C, Koshal P, Crippa V, Galbiati M, Piccolella M, Rusmini P, Di Bella D, Taroni F, Poletti A, Magri S, Cristofani R
 University of Milan, Italy

- TU03-06 STUDYING CEREBELLAR ATAXIA WITH NEUROPATHY AND VESTIBULAR AREFLEXIA SYNDROME (CANVAS) USING PATIENT-DERIVED BRAIN ORGANIDS** *IBRO-HSN Travel Award*

Vassalou Styliani, Kontogeorgiou Z, Dragona E, Taraviras S, Gagos S, Koutsis G, Karadima G, Kyrousi C
 National and Kapodistrian University of Athens, Greece

- TU03-07 THE ALTERNATIVE ANDROGEN RECEPTOR ISOFORM (AR-A) PROTECTS AGAINST TOXICITY OF MUTANT ANDROGEN RECEPTOR WITH THE ELONGATED POLYGLUTAMINE TRACT CAUSATIVE OF SPINAL AND BULBAR MUSCULAR ATROPHY (SBMA).**
Chierichetti Marta, Andreotti R, Tedesco B, Ferrari V, Cornaggia L, Pramaggiore P, Cozzi M, Casarotto E, Mohamed A, Magdalena R, Koshal P, Piccolella M, Brodnanova M, Crippa V, Rusmini P, Galbiati M, Pandei UB, Pennuto M, Cristofani R, Poletti A
University of Milan, Italy
- TU03-08 BRAIN INSULIN RESISTANCE AS A HALLMARK OF ACCELERATED AGING IN DOWN SYNDROME**
ISN-ESN Travel Award
Zulli Barbara, Lanzillotta S, Picca A, Calvani R, Yuksekeli I, Victorino DB, Perluigi M, Di Domenico F, Tramutola A, Potier MC, Carfi A, Barone E
Sapienza University of Rome, Italy
- TU03-09 DECODING PRIMARY CILIA FUNCTION IN HUMAN CORTICAL DEVELOPMENT AND DISEASE**
Christou Sylia, Merkouris S, Mouratidou L, Lagouros S, Rapti A, Nti Kostantzo P, Politis P, Taraviras S, Cappello S, Kyrousi C
National and Kapodistrian University of Athens, Greece
- TU03-10 A NOVEL DRUG REDUCES MOTOR IMPAIRMENTS AND PREMATURE DEATH IN A GRIN2D MOUSE MODEL FOR DEVELOPMENTAL AND EPILEPTIC ENCEPHALOPATHY** *ISN-ESN Travel Award*
Galber Danielle, Yam M, Frankel W, Rubinstein M, Avraham KB
Tel Aviv University, Israel
- TU03-11 PARP INHIBITORS AS A NEW POSSIBLE THERAPEUTIC STRATEGY IN COHESIN-DRIVEN MEDULLOBLASTOMA**
Lettieri Antonella, Castiglioni S, Totaro S, Rasetti S, Di Fede E, Parodi C, Grazioli P, Colombo E, Taci E, Vaccari T, Gervasini C, Massa V
University of Milan, Italy
- TU03-12 MORPHOPHEN: A JOINT EUROPEAN MASTER DEGREE ON HUMAN DISEASES MODELS MORPHOLOGICAL PHENOTYPING**
Tsingotjidou Anastasia, d'Angelo L, de Girolamo P, Delopoulos A, Mendes-Jorge L, Gea E, Ruberte J
Aristotle University of Thessaloniki, Greece
- TU03-13 ALTERATIONS IN MITOCHONDRIA DYNAMICS IN THE HIPPOCAMPUS OF TRAP1 MUTANT MICE, A NOVEL MODEL OF ASD**
Dorota Malicka, Stawikowska A, Kuzniewska B
University of Warsaw, Poland

TU04 Astrocytic function in health and disease

- TU04-01 OVEREXPRESSION OF MCIDAS LEADS TO DIRECT REPROGRAMMING OF HUMAN REACTIVE ASTROCYTES TO THE EPENDYMAL LINEAGE**
Korrou-Karava Despoina, Kaplani K, Vassalou S, Lalioti M, Lokka G, Parlapani E, Lygerou Z, Taraviras S
University of Patras, Greece
- TU04-02 KETOGENIC ACTIVITY OF CULTURED HUMAN ASTROCYTES**
Sofranko Jakub, Gonda E, Murin R
Comenius University in Bratislava, Slovakia

- TU04-03 CONSEQUENCES OF INHIBITION OF SYNOVIOLIN ENZYMATIC ACTIVITY ON THE SURVIVAL AND RESPONSE OF CELL DERIVED FROM BRAIN TUMORS AND ASTROCYTES**
ISN-ESN Travel Award
Guzikova Jaroslava, Liskova M, Hudak L, Racay P.
Comenius University in Bratislava, Slovakia
- TU04-04 TRANSCRIPTIONAL MECHANISMS CONTROLLING THE MIR-124/ISX9 INSTRUCTED DIRECT REPROGRAMMING OF MOUSE CORTICAL ASTROCYTES TO INDUCED NEURONS**
Papadimitriou Elsa, Frazeskou A, Iohan daCC L, Costa MR, Thomaidou D.
Hellenic Pasteur Institute, Greece
- TU04-05 PARACRINE EFFECTS OF ASTROCYTES ON NEURONS IN AN IPSC-DERIVED PARKINSON'S DISEASE MODEL WITH THE p.A53T- α SYN MUTATION** *IBRO-HSN Travel Award*
Olympia Apokotou, Dima E, Paschou C, Dede S, Kollias A, Taoufik E, Matsas R, Papastefanaki F
Hellenic Pasteur Institute, Greece
- TU04-06 S-100⁺ CELL POPULATION DIVERSITY IN THE DEVELOPING HUMAN NEOCORTEX**
Kharlamova Anastasia, Godovalova O, Proshchina A, Krivova Y, Otylga E, Otylga D, Saveliev S
Avtsyn Research Institute of Human Morphology of FSBSI, Russia
- TU04-07 GLIOBLASTOMA ON CHIP: TO CHARACTERIZE SECRETOME AND CANCER MASS INTERPLAY**
D'Amico Agata Grazia, Maugeri G, D'Agata V
University of Catania, Italy
- TU04-08 α -SYNUCLEIN OLIGOMERS POTENTIATE NEUROINFLAMMATORY NF- κ B ACTIVITY AND INDUCE CaV3.2 CALCIUM SIGNALING IN ASTROCYTES**
Leandrou Emmanouela, Chalatsa I, Anagnostou D, Machalia C, Makridakis M, Vlahou A, Vekrellis K, Emmanouilidou E
National and Kapodistrian University of Athens, Greece
- TU04-09 ASTROCYTES, VIA RTP801, CONTRIBUTE TO COGNITIVE DECLINE BY DISRUPTING GABAERGIC-REGULATED CONNECTIVITY AND DRIVING NEUROINFLAMMATION IN ALZHEIMER'S DISEASE**
Chicote-Gonzalez Almudena, Solana-Balaguer J, Garcia-Segura P, Campoy-Campos G, Perez-Navarro E, Alberch J, Giralt A, Soria G, Malagelada C
University of Barcelona, Spain

Symposia 17-19**16:30 – 18:30****Hall A****Symposium 17 Neuronal oscillations and brain network dynamics in health and disease**

Chairs: Irini Skalioti, Kyriaki Sidiropoulou (Greece)

S17-01 Abnormal prefrontal-hippocampal circuit dynamics in mouse models of schizophrenia: Role of serotonin receptorsVictoria Puig

Barcelona Institute of Biomedical Research, Spain

- S17-02 Oscillations in the cerebral cortex: An essential mechanism for computations in dynamic state space**
Wolf Singer
 Ernst Struengmann Institute for Neuroscience, Germany
- S17-03 The transition from endogenous network activity to epileptiform discharges: a computational approach**
Irini Skaliara
 University of Athens, Greece
- S17-04 Cortical circuit correlates of perception: lessons from a mouse model of perceptual bi-stability**
Stelios Smirnakis
 Harvard Medical School, USA

Hall B

Symposium 18 Novel mechanisms & therapeutics against depression and Alzheimer's in the Precision Medicine era

Chairs: Ioannis Sotiropoulos (Greece), Eleni Tzavara (France)

- S18-01 Synaptic plasticity-related novel targets and biomarkers in animal models and clinical cohorts of depression**
Eleni Tzavara
 University of Paris Cité, France
- S18-02 Psilocybin and optogenetic regulation of neurogenetic circuitry against stress-driven depressive pathology**
Luisa Pinto
 University of Minho, Portugal
- S18-03 Exosomes and cannabidiol treatment in stress-driven Alzheimer's disease brain pathology**
Ioannis Sotiropoulos
 Demokritos Research Center, Greece
- S18-04 The role of tau in the regulation of translational stress response and its importance for brain pathology**
Joana Margarida Silva
 Life and Health Sciences Research Institute, Portugal

Hall C

Symposium 19 Glial Cell Dynamics in Neurodegeneration

Chairs: Antonella Tramutola, Martina Gabrielli (Italy)

- S19-01 Unveiling the role of miRNAs in glial cells: insights into insulin signaling and neurodegeneration**
Antonella Tramutola
 University of Rome, Italy

- S19-02 Pathogenic roles of microglial extracellular vesicles in neurodegeneration**
Martina Gabrielli
 CNR Institute of Neuroscience-Milano, Italy
- S19-03 Mitochondrial fatty acid β -oxidation in astrocytes is important for brain lipid homeostasis**
Francesco Petrelli
 University of Lausanne, Switzerland
- S19-04 The effect of astrocytic tau deposition on synaptic plasticity**
Ottavio Arancio
 Columbia University USA

Hall A 18:30 - 20:30

Young Scientists Steering Committee Workshop "Empowering Women, Fostering Diversity, and Advancing Brain Science: Guiding Professional Journeys"

Sponsored by WWN

Moderators and Speakers: Adva Hadar, Israel | Charoula Peta, Greece | Danielle Galber, Israel | Dimitra Mangoura, Greece | Emanuel Tahiri, Portugal | Illana Gozes, Israel | Marina Pantazopoulou, Greece | Natalia Nalivaeva, UK

Day 4

Wednesday, May 21, 2025

Session Code

BL Bachelard Award Lecture
S Symposia
WE Wednesday Posters

Time	Place	Code	Topic
09:00-10:00	Hall A	BL	Bachelard Award Lecture
10:00-10:30	Courtyard	Coffee break	
10:30-12:30	Hall A	S20	Mitochondria-nucleus crosstalk in behaviour and neurological disease
	Hall B	S21	Mechanisms of neural fate acquisition and synaptic function: from development to disease
	Hall C	S22	Extracellular matrix and astrocytes in health and disease
12:30-14:00	Courtyard	Lunch break and Poster Sessions	
14:00-16:00	Hall A	S23	The search for objective neuromarkers and effective interventions in rare monogenic neurodevelopmental disorders
	Hall B	S24	Extracellular vesicles as hubs for neurotrophin signalling and function
	Hall C	S25	Brains, models and pharmacology
16:00-16:20	Hall A	Closing Ceremony	
10:00-10:30 12:30-14:00 16:00-16:30		WE01	Microglia
		WE02	Brain energy and metabolism
		WE03	Neuroinflammation and neurotoxicity to neuroprotection and neurodegeneration
		WE04	Autophagy and protein degradation
		WE05	Mental health disorders

20:30 Farewell Dinner

Bachelard Award Lecture

09:00 - 10:00 All Halls

Session Chairs: Illana Gozes (Israel), Johannes Hirrlinger (Germany)

**A journey from neuropeptides to COVID-19,
a serendipitous neurochemical travel**

Tony Turner

University of Leeds, UK

Coffee break and Poster viewing 10:00 – 10:30

Symposia 20 - 22

10:30– 12:30

Hall A

**Symposium 20 Mitochondria-nucleus crosstalk in behaviour and neurological
disease**

Chair: Juan P. Bolanos (Spain)

S20-01 Mitochondria dynamics at the crossroads of anxiety and behaviorMichaela Filiou

University of Ioannina, Greece

S20-02 Mitochondria-nucleus p53 signaling in Alzheimer's disease and strokeAngeles Almeida

University of Salamanca, Spain

S20-03 Mitochondria stress signalling determines the cellular faith in Parkinson's diseaseNicoleta Moiso

De Montfort University, UK

S20-04 Regulation of behaviour by mitochondrial CB1 receptor signalingGiovanni Marsicano

University of Bordeaux, France

Hall B

**Symposium 21 Mechanisms of neural fate acquisition and synaptic function: from
development to disease**

Chairs: Panagiotis Politis, George Leondaritis (Greece)

S21-01 Oligodendrocyte progenitor cells: role and function in the healthy and injured brainLeda Dimou

University of Ulm, Germany

S21-02 Function and regulation of PLPPR3 membrane proteins in neuronsBritta Eickholt

Charité- Berlin University Medicine, Germany

- S21-03 Bioactive lipid-dependent regulation of axonal growth during development**
George Leondaritis
University of Ioannina, Greece
- S21-04 Gene regulation networks in nervous system development and cancer progression**
Panagiotis Politis
Biomedical Research Foundation of the Academy of Athens (BRFAA), Athens, Greece

Hall C**Symposium 22 Extracellular matrix and astrocytes in health and disease**

Chair: Eva Syková (Slovakia)

- S22-01 Astrocytes and perineuronal nets in extrasynaptic transmission and neuroplasticity**
Eva Syková
Slovak Academy of Sciences, Slovakia
- S22-02 Interplay between Glia and Extracellular Matrix at Tetrapartite Synapses**
Alexander Dityatev
German Center for Neurodegenerative Diseases (DZNE), Germany
- S22-03 Hyaluronan-based neural ECM in pathophysiological plasticity of the brain**
Constanze Seidenbecher
Leibniz Institute for Neurobiology, Germany
- S22-04 Modulation of chondroitin sulfates in the perineuronal nets mediate differential glial responses after CNS injury**
Jessica Kwok
University of Leeds, UK

Lunch and Poster viewing 12:45 – 14:00**Symposia 23 - 25****14:00 – 16:00****Hall A****Symposium 23 The search for objective neuromarkers and effective interventions in rare monogenic neurodevelopmental disorders**

Chair: John J Foxe (USA)

- S23-01 Developing neuromarkers of disease progression and cognitive function in human patients with CTNS gene mutations (Cystinosis)**
Sophie Molholm
Albert Einstein College of Medicine, USA
- S23-02 Sex-related efficacy in rare diseases: developing davunetide to treat individuals with mutations of the Activity-Dependent Neuroprotective Protein gene (ADNP), a rare monogenic variant of autism**
Illana Gozes
Tel Aviv University, Israel

- S23-03 Explorations of the molecular and cellular pathways associated with mutations of the SLC9A6 gene (Christianson Syndrome)**
Jamie Mustian
Mc Gill University, Canada
- S23-04 Developing a common neurophysiological endophenotype (neuromarker) in both human patients and a mouse model with CLN3 gene mutations (Batten Disease)**
John J Foxe
University of Rochester, USA

Hall B**Symposium 24 Extracellular vesicles as hubs for neurotrophin signalling and function**

Chairs: Maria José Diógenes (Portugal)

- S24-01 Targeted delivery of extracellular vesicles carrying RNA therapeutics: a novel role for neurotrophin receptors?**
Laura Marchetti
University of Pisa, Italy
- S24-02 Loss of neuroprotection in Alzheimer's disease: shedding light on BDNF receptor cleavage and its mirroring in extracellular vesicles**
Tiago Costa-Coelho
University of Lisbon, Portugal
- S24-03 Trans-synaptic signaling via EV and microRNA cargo mediates BDNF-dependent neuronal circuit formation**
Anna Antoniou
University of Bonn & German Center for Neurodegenerative Diseases Bonn, Germany
- S24-04 Neuron-derived EVs contain synaptic proteins, promote spine formation, activate TrkB-mediated signalling and preserve neuronal complexity**
Cristina Malagelada
University of Barcelona, Spain

Hall C**Symposium 25 Brains, models and pharmacology**

Chair: Pavle Andjus (Serbia)

- S25-01 Studying physiological hallmarks of Alzheimer's disease**
Srdjan Antic
University of Connecticut, USA
- S25-02 The function of the voltage-gated sodium channel Nav1.2 in physiology and pathology**
Fatima Abbas
University Grenoble Alpes, France
- S25-03 Application of human brain organoids in neurodegeneration research**
Dinko Mitrečić
University of Zagreb, Croatia

S25-04 Sweet disruptions: N-glycosylation alterations in neuronal differentiation and trisomy 21

Ana Cindrić

Genos Glycoscience Research Laboratory, Croatia

Wednesday Poster Sessions

WE01 – WE05

WE01 Microglia

WE01-01 DISSECTING THE COMPLEX NEURON-MICROGLIA INTERPLAY IN THE PRECIPITATING ROLE OF CHRONIC STRESS ON TAU-RELATED HIPPOCAMPAL MALPLASTICITY
Anesti Maria, Dioli C, Ntinou N, Gratsia E, Katsaitis F, Vamvaka-Iakovou A, Megalokonomou A, Silva J, Pinto L, Vyas S, Sotiropoulos I
National Centre for Scientific Research "Demokritos", Greece

WE01-02 MICROGLIA-SPECIFIC PHENOTYPIC AND FUNCTIONAL CHANGES UPON NEURONAL EXPRESSION OF FAMILIAL PARKINSON'S DISEASE p.A53T-ALPHA SYNUCLEIN
IBRO-HSN Travel Award
Ninou Elpinickie, Segklia K, Josephides J, Dominguez-Belloso A, Carag CJ, Deczkowska A, Taoufik E
Hellenic Pasteur Institute, Greece

WE01-03 THE INTRACELLULAR ORGANELLES OF MICROGLIA ARE ALTERED BY INHIBITING COLONY-STIMULATING FACTOR 1 RECEPTOR *ISN-ESN Travel Award*
St-Pierre Marie-Kim, Guillermo VC, Francisco JM, Farah RO, Daniel P, Martin S, Ahmed O, Bertrand J
Karolinska Institute, Stockholm, Sweden

WE01-04 IN VIVO STUDY OF MICROGLIA BIN1 DELETION ON MOUSE BRAIN UNDER HOMEOSTATIC AND NEUROINFLAMMATORY CONDITIONS
Margariti Maria, Papadimitriou E, Thanou I, Pelletier A, Xingi E, Margaroni M, Kyrargyri V, Costa M, Thomaidou D
Hellenic Pasteur Institute, Greece

WE01-05 B-LYMPHOCYTES-DERIVED EXTRACELLULAR VESICLES INFLUENCE MICROGLIAL ACTIVATION: INSIGHTS INTO EPSTEIN BARR VIRUS ROLE IN MULTIPLE SCLEROSIS
Zollo Alen, Citro V, Mingione A, Corona A, Giannandrea D, Penati S, Priori A, Chiaramonte R, Martinelli Boneschi F
University of Milan, Italy

WE01-06 ALZHEIMER'S DISEASE RISK FACTOR BIN1: LINKING MICROGLIAL DEFICIENCY TO NEUROINFLAMMATION AND REGULATION OF Adult Hippocampal Neurogenesis
IBRO-HSN Travel Award
Thanou Irini, Margariti M, Portokali E, Xingi E, Margaroni M, Costa M, Thomaidou D
Hellenic Pasteur Institute, Greece

WE01-07 UNVEILING TREM2 MEDIATED MICROGLIA TO NEURON CROSSTALK IN NEURODEVELOPMENT
Poliseno Paola, Tagliatti E, Desiato G, Matteoli M.
Humanitas University, Italy

WE01-08 EFFECT OF LRRK2 G2019S MUTATION ON MICROGLIAL FUNCTIONALITY
Nogales MC, Ortiz-Cabello M, Fernandez-Ruiz J, Raj T, Montesinos J, Esteras N, Navarro E
Complutense University of Madrid, Spain

WE01-09 DISRUPTED IL-33 SIGNALING IMPAIRS MICROGLIAL SYNAPTIC PRUNING IN FRAGILE X SYNDROME
Borrecia Antonella, El Bouatmani M, Santamaria G, Matteoli M
CNR-Institute of Neuroscience, Italy

WE01-10 INVESTIGATION OF THE ROLE OF MICROGLIA IN CNS REPAIR VIA MICROGLIAL DELETION
Politopoulou Katerina, Boutou A, Roufagalas I, Probert L
Hellenic Pasteur Institute, Greece

WE02 Brain energy and metabolism

WE02-01 EVOLUTIONARY AND FUNCTIONAL INSIGHTS INTO HUMAN GDH2: STRUCTURAL ADAPTATIONS AND METABOLIC REGULATION
Litso Ionela, Zaganas I
University of Crete, Greece

WE02-02 CTBP1 CONTROLS GLUCOSE METABOLISM TO SUSTAIN ENERGY HOMEOSTASIS DURING NEURONAL ACTIVITY *IBRO-HSN Travel Award*
Akdas Enes Yagiz, Sucu B, Erterek E, Frischknecht R, Salar S, Fejtova A
University of Erlangen-Nurnberg, Germany

WE02-03 LYSOSOMAL ACCUMULATION OF GLUCOSYLCERAMIDE IN THE ONSET OF NEURODEGENERATION: EXPLORING MITOCHONDRIAL AND METABOLIC DYSFUNCTIONS
Lunghi Giulia, Pedretti S, Pedrolì C, Carsana EV, Audano M, Mitro N, Aureli M
University of Milan, Italy

WE02-04 DECIPHERING MIR-802 IN DOWN SYNDROME: FROM INSULIN RESISTANCE TO OXIDATIVE STRESS
ISN-ESN Travel Award
Rolfi Lucrezia Romana, Barone E, Perluigi M, Tramutola A
Sapienza University of Rome, Italy

WE02-05 WEAK NEURONAL GLYCOLYSIS SUSTAINS COGNITION AND ORGANISMAL FITNESS
Jimenez-Blasco, Agulla J, Lapresa R, Garcia-Macia M, Bobo-Jimenez V, Garcia-Rodriguez D, Manjarres-Raza I, Fernandez E, Jeanson Y, Khoury S, Portaiz J-C, Padro D, Ramos-Cabrer P, Carmeliet P, Almeida A, Bolanos JP
University of Salamanca, Spain

WE02-06 LOSS OF BVR-A FOSTERS OXIDATIVE DISTRESS IN THE BRAIN OF MICE FED WITH HIGH-FAT DIET
Sommella Valeria, Lanzillotta S, Barone E
Sapienza University of Rome, Italy

WE02-07 TARGETING NUCLEAR RECEPTOR NR5A2 PROMOTES NEURONAL SURVIVAL AND NEUROPROTECTION UNDER OXIDATIVE STRESS
Kaltezioti Valeria, Rozani I, Nomikou A, Tetranga E, Dimitropoulou K, Gkikas D, Politis PK
Biomedical Research Foundation Academy of Athens, Greece

WE02-08 ASTROCYTE REMODELING IN ACUTE HEPATIC ENCEPHALOPATHY – FOCUS ON MITOCHONDRIA
Mariusz Popek, M. Zielinska
Mossakowski Medical Research Institute, Polish Academy of Sciences, Poland

- WE02-09 CONSUMPTION OF PROLINE AS ENERGY SUBSTRATE IN ASTROCYTES**
ISN-ESN Travel Award
Spellerberg Paul, Harders AR, Dringen R
University of Bremen, Germany
- WE02-10 BRAIN GLUCOSE AND LACTATE METABOLISM FOLLOWING LIPOPOLYSACCHARIDE ADMINISTRATION AND CEREBIOME TREATMENT**
Gostlin Sarah, Liang J, Haris Iqbal U, Bronner S, Binda S, Mayotte E, Dube-Zinatelli E, Cappelletti L, Krnel R, Erenben E, Murack M, Messier C, Ismail N
University of Ottawa, Canada
- WE02-11 MUTATION IN MITOCHONDRIAL CHAPERONE TRAP1 IN MICE AFFECTS THE NUMBER OF SYNAPTIC MITOCHONDRIA**
Dziembowska Magdalena, Stawikowska A, Magnowska M
University of Warsaw, Poland
- WE02-12 TRAP1 MUTANT MICE, A NOVEL MODEL OF ASD, SHOW SEX-SPECIFIC IMPAIRMENT OF SOCIAL BEHAVIOR AND DYSREGULATED MITOCHONDRIAL METABOLISM IN THE BRAIN**
Kuzniewska Bozena, Wojtowicz T, Kondrakiewicz L, Puscian A, Knapska E, Dziembowska M
University of Warsaw, Poland

WE03 Neuroinflammation & neurotoxicity to neuroprotection & neurodegeneration

- WE03-01 EFFECTS OF MINOCYCLINE AND OXYTOCIN ON LIPOPOLYSACCHARIDE-ALTERED BEHAVIORS IN MALE PRAIRIE VOLES**
Liu Yan, Wolcott J, Kabbaj M, Wang ZX
Florida State University, USA
- WE03-02 GLUTAMATE-MEDIATED NEUROTOXICITY DRIVES DISEASE PROGRESSION IN SPINOCEREBELLAR ATAXIAS**
Brito David, Afonso I T, Calado S, Yan J, Bading H, Nobrega C
University of Algarve, Portugal
- WE03-03 THE ROLE OF miRNAs IN THE REGULATION OF INJURY-INDUCED NEURONAL REGENERATION** *ISN-ESN Travel Award*
Peteinareli Maria, Wahl N, Kress M, Kalpachidou T
Medical University of Innsbruck, Austria
- WE03-04 INTRA-INSULAR CIRCUITRY REGULATES CONDITIONED IMMUNE RESPONSES IN MICE**
Yiannakas Adonis, Haneen K, Cruciani F, Chandran S, Edry E, Schif S, Rolls A, Ariel A, Rosenblum K
European University of Cyprus, Cyprus
- WE03-05 COMPARATIVE ANALYSIS OF DIFFERENT TBK1-ALS MUTATIONS IN PATIENT-DERIVED MOTOR NEURONS**
ISN-ESN Travel Award
Srinidhi Jahnvi, Brenner D, Loss I, Yilmaz R, Koch P, Parlato R, Weishaupt J
Heidelberg University, Germany
- WE03-06 WHEN CHRONIC STRESS MEETS TAU: DISSECTING THE INTERPLAY IN STRESS-GRANULE-RELATED RNA-BINDING PROTEIN DYNAMICS**
Papadimitriou Georgia, Campos-Marques C, Anesti M, Samiotaki M, Wolozin B, Silva JM, Sotiropoulos I
National Centre for Scientific Research "Demokritos", Greece

- WE03-07 INVESTIGATING THE AMPK-MFF PATHWAY TO MODULATE MITOCHONDRIAL DYNAMICS AS A TARGET FOR NEUROPROTECTION**
ISN-ESN Travel Award
Seager Richard, Ramesh NS, Wilkinson K, Henley JM
University of Bristol, United Kingdom
- WE03-08 AZ191 INHIBITOR RESCUES EARLY AXONOPATHY OF THE EMBRYONIC SPINAL MOTOR NEURONS IN SOD1G93A MICE** *IBRO-HSN Travel Award*
Kokkorakis Nikolaos, Papoutsis E, Xingi E, Thomaidou D, Zagoraiou L, Matsas R, Gaitanou M
Hellenic Pasteur Institute, Greece
- WE03-09 DAPAGLIFLOZIN-MEDIATED NEUROPROTECTION IN IN VITRO AND IN VIVO TOXICITY MODELS**
Katsenos Andreas P, Sereti S, Kotoula E, Tzavellas N. P, Zoidi D, Duro S, Ourika I, Kanellos F, Lekkas P, Bellos S, Bellou S, Bekiari C, Paschou SA, Konitsiotis S, Simos YV, Lakkas L, Peschos D, Tsamis KI
University of Ioannina, Greece
- WE03-10 CLUH MAINTAINS FUNCTIONAL MITOCHONDRIA AND TRANSLATION IN MOTONEURONAL AXONS AND PREVENTS PERIPHERAL NEUROPATHY** *ISN-ESN Travel Award*
Zaninello Marta, Schlegel T, Nolte H, Pirzada M, Savino E, Barth E, Klein I, Wüstenberg H, Uddin T, Wolff L, Wirth B, Lehmann HC, Cioni JM, Langer T, Rugarli EI
University of Cologne, Germany
- WE03-11 THE EFFECT OF INDIVIDUAL TUDCA AND PBA AS WELL AS COMBINATIONAL TREATMENT IN SH-SY5Y CELLS**
ISN-ESN Travel Award
Liskova Monika, Evinova A, Guzikova J, Hudak L, Racay P
Comenius University Bratislava, Slovakia
- WE03-12 UNRAVELING THE MOLECULAR DETERMINANTS OF AXONAL REGENERATION: A COMPARATIVE ANALYSIS OF CNS AND PNS AXONS**
Triantopoulou Nikoletta, Pateraki N, Pasadaki S, Samiotaki M, Trompouki E, Ntini E, Mizuno N, Vidaki M
University of Crete, Greece
- WE03-13 THE ROLE OF PITUITARY ADENYLATE CYCLASE ACTIVATING POLYPEPTIDE IN DIABETIC KERATOPATHY**
Maugeri Grazia, Palmeri N, D'Amico AG, D'Agata V
University of Catania, Italy
- WE03-14 ABSENCE OF THE PERIPHERAL IMMUNE SYSTEM HIGHLY AFFECTS HIPPOCAMPAL NEUROGENESIS AT EARLY POSTNATAL STAGES**
Kotsikou Zoe, Troumpoukis D, Serafimidis I, Koutmani Y
Biomedical Research Foundation of the Academy of Athens, Greece
- WE03-14 NEUROPROTECTION AND REPAIR FOLLOWING DAILY ORAL ADMINISTRATION OF 3,5-DIIODOTHYROPYROPIONIC ACID (DITPA) IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS**
Rahimeh Emamnejad, Theotokis P, Lee JY, Pagnin M, Ozturk E, Grigoriadis N, Petratos S
Monash University, Australia

WE04 Proteostasis

- WE04-01 THE ROLE OF RGS4 PROTEIN IN K-OPIOID RECEPTOR MEDIATED AUTOPHAGY**
Nomikou Angeliki, Symeonof A, Pallaki P, Charalampous C, Serafimidis I, Tsoutsani A, Samiotaki M, Karoussiotis C, Georgoussi Z
 National Centre for Scientific Research "Demokritos", Greece
- WE04-02 ATAXIA TELANGIECTASIA MUTATED KINASE IN SYNAPTIC AUTOPHAGY**
ISN-ESN Travel Award
Ranti Dimitra, Kreis P, Kirstein J, Eickholt JB
 Charite-University Medicine Berlin, Germany
- WE04-03 HSPA1A MODULATION FOR DEGRADATION OF TDP-25 THROUGH THE PROTEASOME IN MOTOR NEURON-LIKE CELLS**
Solomonidis Giorgos, Tedesco B, Poletti A, Richter J
 Cyprus Institute of Neurology and Genetics, Cyprus

WE05 Mental health Disorders

- WE05-01 SKIPPING MEALS AND BEING ANXIOUS: WHAT ABOUT MITOCHONDRIA?**
IBRO-HSN Travel Award
Papageorgiou Maria P, Nussbaumer M, Samiotaki M, Anousi E, Filiou MD.
 University of Ioannina, Greece
- WE05-02 PLPPR3 INFLUENCES ANXIETY BEHAVIORS AND INTERACTS WITH LYSOPHOSPHATIDIC ACID**
Polyzou Alexandra, Tsiouris A, Dimoudi A, Antoniou K, Eickholt B, Leondaritis G
 University of Ioannina, Greece
- WE05-03 MOLECULAR UNDERPINNINGS OF CALORIC RESTRICTION ON A HIGH ANXIETY BACKGROUND: A MULTIOMICS APPROACH**
Anousi Elissavet, Nussbaumer M, Papageorgiou MP, Samiotaki M, Dethloff F, Filiou MD
 University of Ioannina, Greece
- WE05-04 AN EVOLUTIONARY VIEW TO UNDERSTANDING AFFECTIVE STATES ACROSS SPECIES (AFFECT-EVO): A COST-ACTION IN PROGRESS**
Smulders Tom, Tsingotjidou A
 Newcastle University, United Kingdom
- WE05-05 EVALUATING THE THERAPEUTIC EFFICACY OF G PROTEIN-COUPLED ESTROGEN RECEPTOR 1 (GPER1) ACTIVATION: INVESTIGATING SEX-SPECIFIC EFFECTS IN MOOD AND ANXIETY DISORDERS**
Kali Alkmini, Pavlidi P, Polissidis A, Politis P, Sotiropoulos I, Antoniou I, Kokras N, Dalla C
 National and Kapodistrian University of Athens, Greece
- WE05-06 PANCREATIC CANCER-ASSOCIATED DEPRESSION (PCAD) IS LINKED TO ADULT NEUROGENESIS IMPAIRMENT**
Troumpoukis Dimitrios, Papadimitropoulou A, Kogionou P, Charalampous C, Koronaoui E, Polissidis A, Nicolaides N, Koutmani Y, Serafimidis I
 Biomedical Research Foundation of Academy of Athens, Greece

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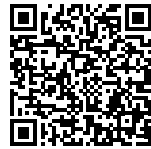


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WE01-9**WE01-10****WE02-1****WE02-2****WE02-3****WE02-4****WE02-5****WE02-6****WE02-7****WE02-8****WE02-9****WE02-10****WE02-11****WE02-12****WE03-1****WE03-2****WE03-3****WE03-4****WE03-5****WE03-6****WE03-7****WE03-8****WE03-9****WE03-10****WE03-11****WE03-12****WE03-13****WE03-14****WE03-15****WE04-1****WE04-2****WE04-3****WE05-1****WE05-2****WE05-3****WE05-4****WE05-5****WE05-6****YMSI-1****YMSI-2**

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YSLA I



YSLA II

Bachelard Award
Lecture

Special lecture



S08-05



Late Breaking Abstracts

- LBA-01** STEAROIL-CoA DESATURASE INHIBITION LEADS TO FATTY ACIDS NORMALIZATION AND IMPROVED DENDRITIC SPINES DENSITY IN THE HIPPOCAMPUS OF 5xFAD-AD MOUSE MODEL
Marta Turri, Aubin M, Aumont A, Vachon A, Mayhue M, Avila Lopez J, Plourdre M, Fernandes K
University of Sherbrooke, Canada
- LBA-02** EVALUATION OF THE NEUROCOMPATIBILITY OF NEW BIOMATERIALS WITH DIFFERENTIATED SH-SY5Y CELLS
Eleni Zingkou, Kolianou A, Angelis G, Wilson J, Giagka V, Orkoulou M, Pampalakis G, Sotiropoulou G
University of Patras, Greece
- LBA-03** ASSESSMENT OF THE NEUROCOMPATIBILITY OF STAINLESS STEEL 316L WITH DIFFERENTIATED SH-SY5Y CELLS
Asimina Kolianou, Zingkou E, Angelis G, Orkoulou M, Pampalakis G, Sotiropoulou G
University of Patras, Greece

LBA-01



LBA-02



LBA-03

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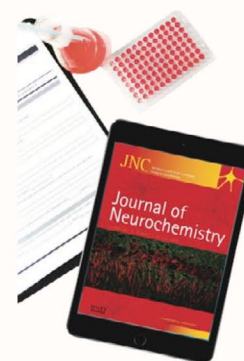
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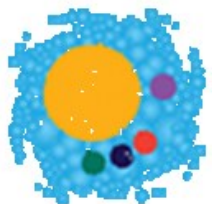
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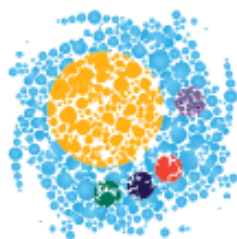


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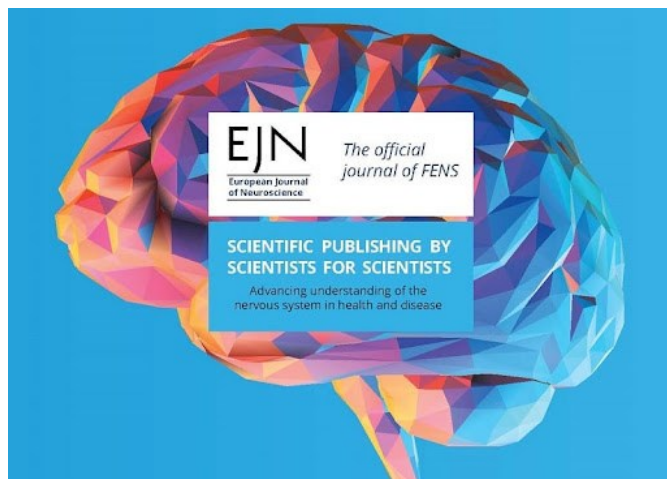




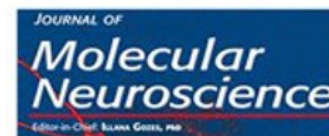
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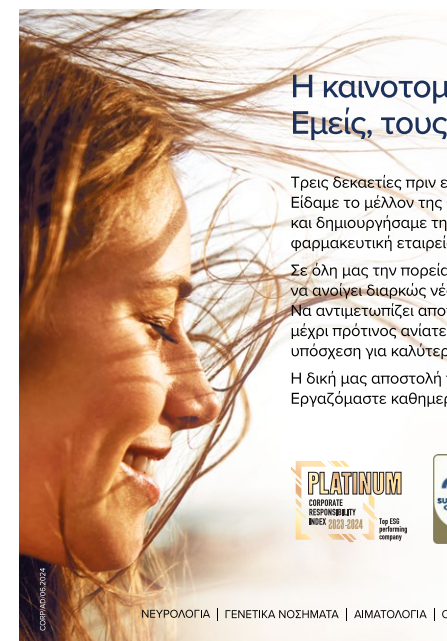
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Τρεις δεκαετίες πριν είδαμε λίγο πιο μακριά. Είδαμε το μέλλον της θεραπείας να αλλάζει και δημιουργήσαμε την πρώτη ελληνική φαρμακευτική εταιρεία βιοτεχνολογίας.

Σε όλη μας την πορεία, βλέπουμε την επιστήμη να ανοίγει διαρκώς νέους δρόμους. Να αντιμετωπίζει αποτελεσματικά ασθένειες, μέχρι πρότινος ανίατες. Να εκπληρώνει την υπόσχεση για καλύτερη και περισσότερη ζωή. Η δική μας αποστολή παραμένει σταθερή. Εργαζόμαστε καθημερινά, ώστε οι νέοι αυτοί

καινοτόμοι δρόμοι θεραπείας να οδηγούν εδώ, στη χώρα μας, μέσα από συνεργασίες με πρωτοπόρες διεθνείς φαρμακευτικές εταιρείες που αναπτύσσουν θεραπείες αιχμής.

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