



ISN-ESN MEETING

PORTO, PORTUGAL
AUGUST 08-11, 2023

Program Book

Organized by:



ISN
International Society
for Neurochemistry

Jointly with:



ESN
EUROPEAN SOCIETY FOR
NEUROCHEMISTRY

www.neurochemistry.org

#ISNESN2023 | #WeAreNeurochemistry



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ISN OFFICERS AND COUNCIL

Officers

President, Flávia Gomes, Brazil
Secretary, Caroline (Lindy) Rae, Australia
Treasurer, Alessandro Prinetti, Italy
Secretary-Elect, Babette Fuss, USA

Council

Past President, Historian, Ralf Dringen, Germany
Company Secretary, Monica Carson, USA
Publications Committee Chair, Anthony Turner, UK
ISN Council member, Vladimir Parpura, USA

ISN Council member, Ago Rinke, Estonia
ISN Council member, Constanze Seidenbecher, Germany
ISN Council member, Christian Gonzalez Billault, Chile
ISN Council member, James Olopade, Nigeria
ISN Council member, Vania Prado, Canada
ISN Council member, Akio Wanaka, Japan
ISN Council member, Amadi Ihunwo, South Africa
ISN Council member, Jean-Pierre Mothet, France
ISN Council Elect, Cheah Pike See, Malaysia
ISN Council Elect, Joao Duarte, Sweden

ESN OFFICERS AND COUNCIL

Officers

President, Johannes Hirrlinger, Germany
Secretary, Illana Gozes, Israel
Treasurer, Carlos Duarte, Portugal

Council

Historian, Anthony J Turner, UK
Company Secretary, Marcus Rattray, UK
Past-President, Natalia N Nalivaeva, US
Sara Grassi, Italy
Pavle Andjus, Serbia
Dimitra Mangoura, Greece

Nico Mitro, Italy
Angelo Poletti, Italy
Antonio Rodriguez-Moreno, Spain
Elena Rybnikova, Russia
Aiman Saab, Switzerland

PROGRAM COMMITTEE & LOCAL HOST COMMITTEE

Program Committee- ISN-ESN meeting 2023

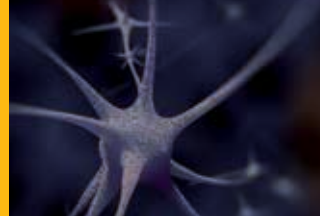
Cheah Pike See (Program Chair), Malaysia
Vania Prado (Past-Program Chair), Canada
Flávia Gomes, Brazil
Caroline Rae, Australia
Alessandro Prinetti, Italy
Carlos Duarte, Portugal
Illana Gozes, Israel
Johannes Hirrlinger, Germany
Andrew Lawrence, Australia
Mohammed R Shaker, Asia
Natalia Nalivaeva, UK

Ago Rinke, Estonia
Sara Xapelli, Portugal
Peng Lei, China
Kenji Tanaka, Japan
Simone Engelender, Israel
Carlo Sala, Italy
Chinna Orish, Nigeria
Arturo Ortega, Mexico
Tim Bredy, Australia
Dwight Bergles, USA
Alysson Muotri, USA

Local Host Committee

Carlos B. Duarte, University of Coimbra
Ana Luísa Carvalho, University of Coimbra
Ana Maria Sebastião, University of Lisbon
Cecília Rodrigues, University of Lisbon
Helena Vieira, Universidade Nova de Lisboa
Isaura Tavares, University of Porto

João Laranjinha, University of Coimbra
João B. Relvas, University of Porto
Mónica Sousa, University of Porto
Patrícia Maciel, University of Minho
Tiago F. Outeiro, Universidade Nova de Lisboa and
University of Göttingen



ISN-ESN-2023 WELCOME LETTER

We are delighted to announce that the joint meeting of the International Society for Neurochemistry (ISN) and the European Society for Neurochemistry (ESN), will take place during August 8-11, 2023 in Porto, Portugal. On behalf of the organising committee, we are pleased to invite you to join the exciting program at this biennial scientific meeting of ISN and the sister society, ESN.

The Program brings a collection of Plenary Lectures, Symposia and Workshops, carefully selected by the Program Committee. These activities embrace a diverse array of topics ranging from cellular, molecular, systemic to behavioral neurochemistry. Excitingly, we will have the third “Marthe Vogt Lecture” gracing the event. This prestigious award recognises the work of female scientists who have made outstanding contributions to Neurochemistry. To ensure a balanced meeting program, we have allocated ample time for poster presentations, exhibits and events. These activities offer an opportune time for delegates to meet colleagues, foster ongoing contacts, build new collaborations, and facilitate professional development.

ISN and ESN are also committed to supporting the development of the next generation of researchers. We offer Travel Awards to provide funding for travel to attend ISN-ESN 2023. We also offer the Young Scientist Lectureship Award and Emerging Group Leaders Symposia to outstanding mid career scientists, and Young Members’ Symposia Awards to outstanding early career scientists to showcase their exciting work.

Lastly, the social side of the event is just as important as the scientific content. A series of engaging and enjoyable social events have been planned so that delegates of ISN-ESN 2023 can continue to engage with each other in a relaxed, friendly and pleasant atmosphere.

We welcome you to the magnificent city of Porto and hope that you all have a successful and rewarding 2023 ISN-ESN Meeting.



Cheah Pike-See
(Program Chair)



Flávia Gomes
(ISN President)



Carlos Duarte
(Local Host Chair)

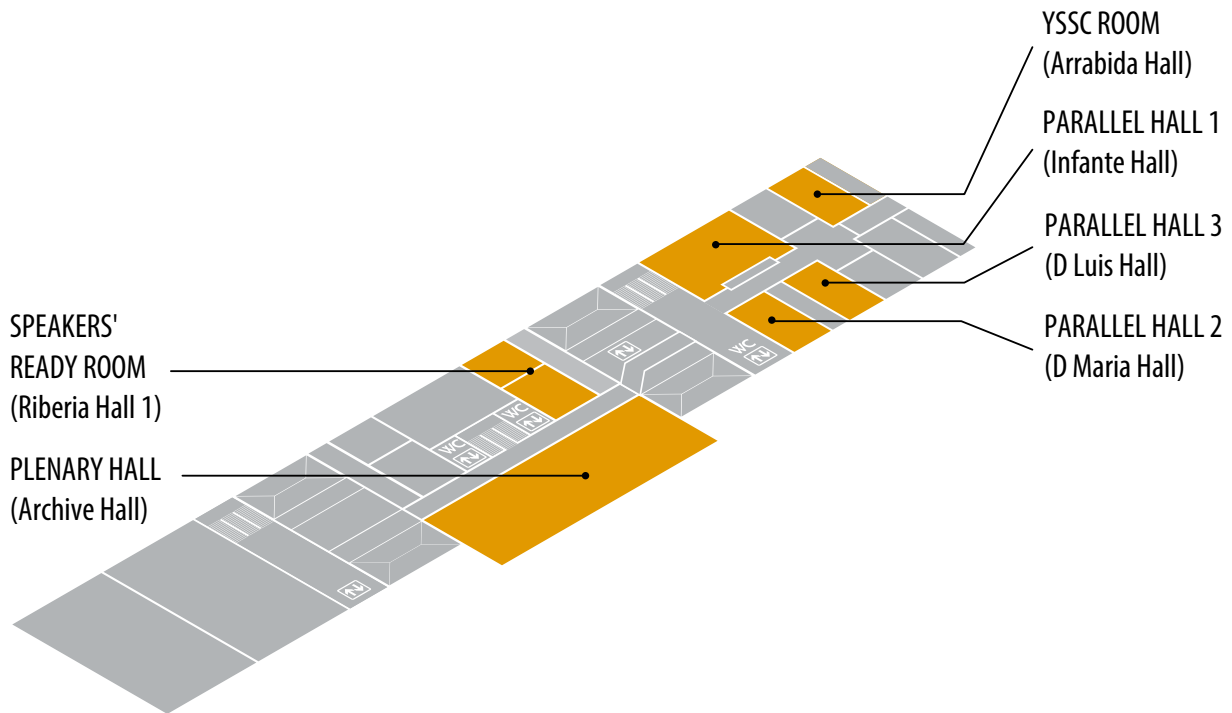


Johannes Hirrlinger
(ESN President)

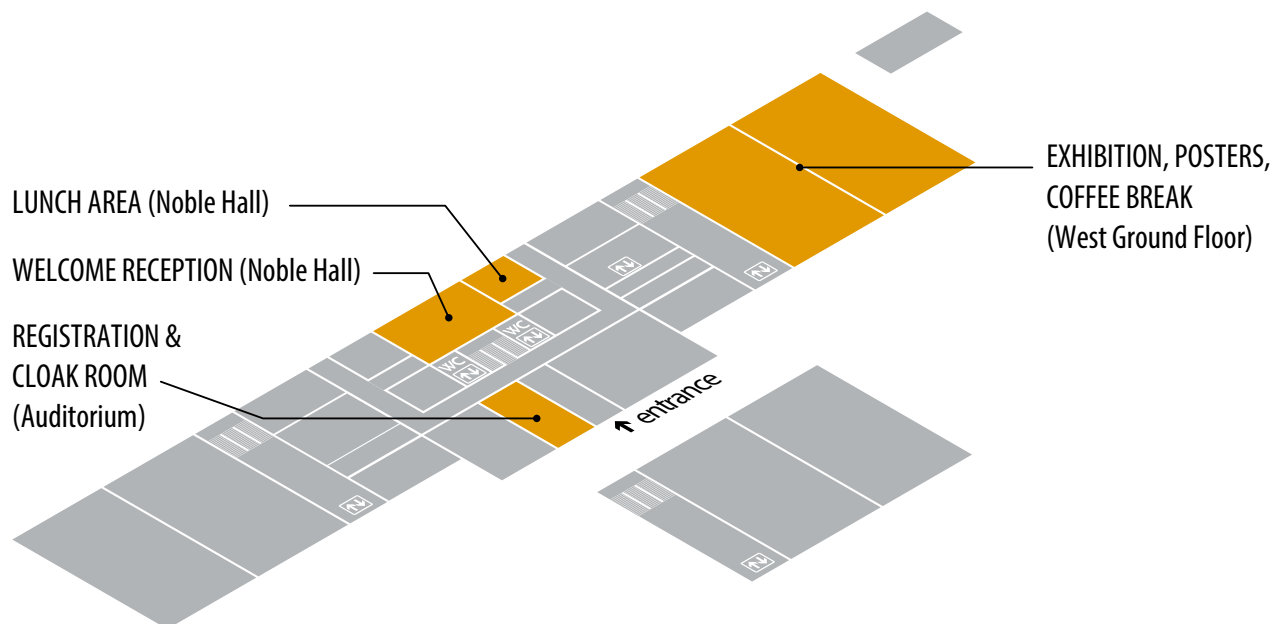


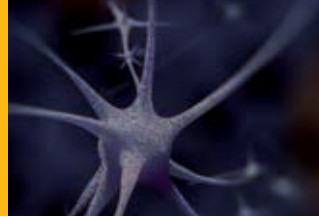
VENUE FLOOR PLAN

2ND FLOOR

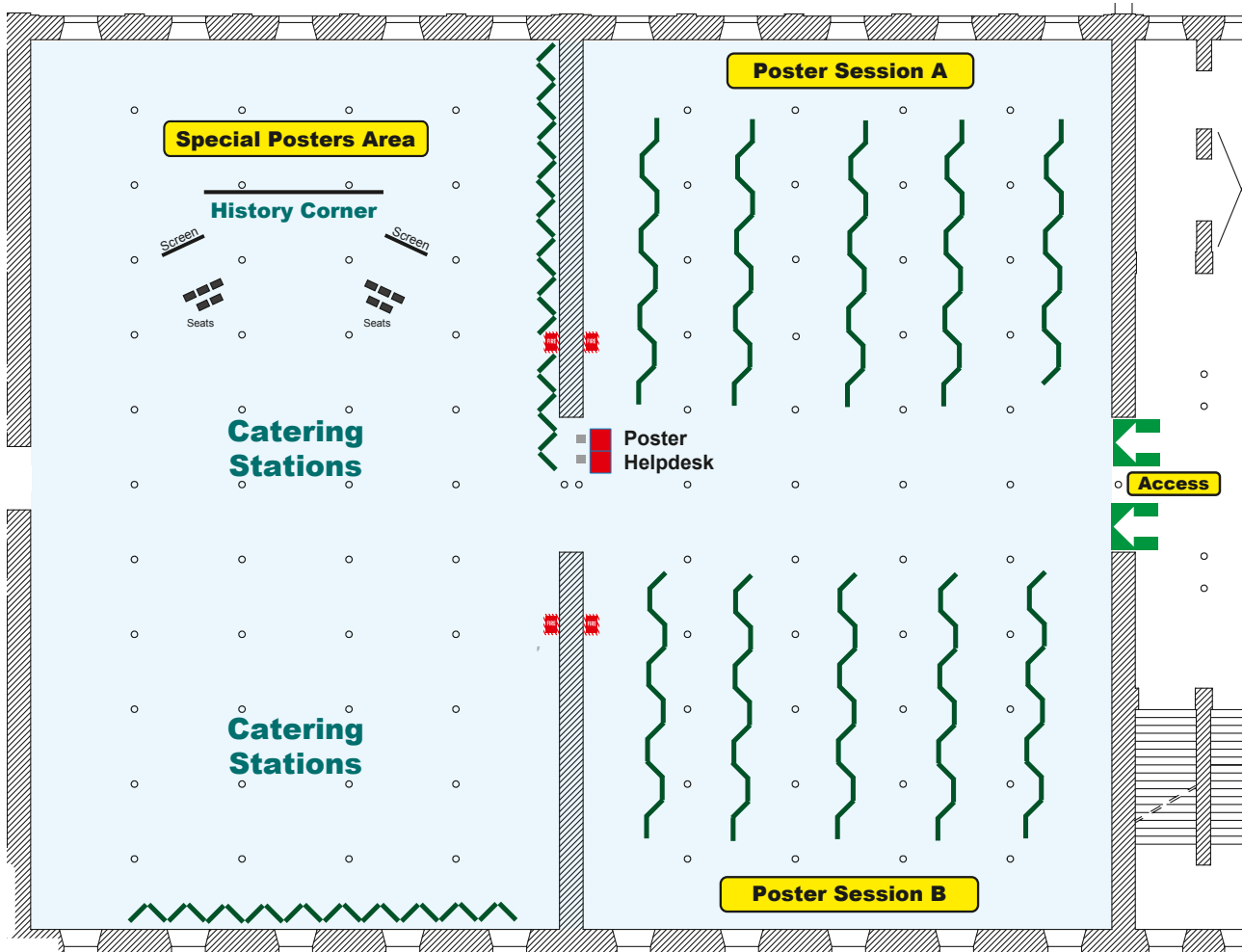


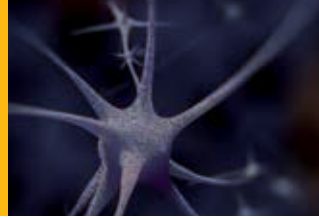
GROUND FLOOR





POSTER & EXHIBITION AREA





MOBILE APPLICATION

Be sure to download the official ISN-ESN 2023 app!

- Navigate the meeting program
- Customize your own schedule
- Post to social media accounts
- Follow meeting news as well as see the posts from other meeting attendees

You may download the app from IOS/App Store or Android/ Google Play through the below QR codes:



Download from
IOS/App Store

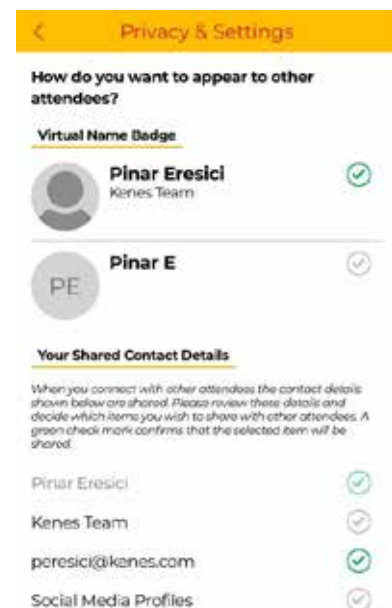


Download from
Android/Google Play

The event code for the mobile application is **isnesn23**. To login the mobile app, please use the credentials that have been sent to you via e-mail before the meeting.

PERSONALIZE THE MOBILE APP

You need to personalize your profile in the app in order to have your full name appear within the attendees. Please go to **“Privacy & Settings”** tab of the app and select your **“Virtual Name Badge”** from the list as shown below.



ISN International Travel Support (ITS)

Short term research visits of young ISN members (Student and Postdoc members) in the labs of established ISN members (Full Member) who are based in another country (from any country to any other country, to which ISN is able to provide funding).

Find out more!

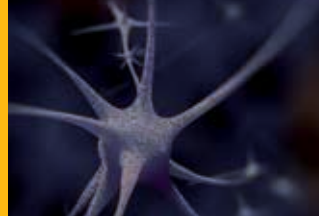


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GENERAL INFORMATION

MEETING VENUE

Alfandega do Porto
Edifício Da Alfândega
4050-430 Porto / PORTUGAL
Telephone: (+351) 223 403 000/24
Website: <https://www.ccalfandegaporto.com/en/>

LANGUAGE

The official language of the Meeting is English.

REGISTRATION DESK HOURS

7 August 2023, Monday	15:00 – 17:00
8 August 2023, Tuesday	07:00 – 19:00
9 August 2023, Wednesday	07:30 – 17:00
10 August 2023, Thursday	07:30 – 12:30
11 August 2023, Friday	07:30 – 14:00

POSTER VIEWING AND PRESENTATION TIMES

Tuesday, August 08

10:30 – 11:00 Posters Viewing A&B (Coffee Break)
17:00 – 19:00 Posters Session A

Wednesday, August 09

10:30 – 11:00 Posters Viewing A&B (Coffee Break)
16:30 – 18:30 Poster Session B

Thursday, August 10

10:00 – 10:30 Poster Viewing A&B (Coffee Break)

Friday, August 11

10:00 – 10:30 Poster Viewing A&B (Coffee Break)

NAME BADGES

All participants and exhibitors are requested to wear their name badges throughout the Meeting to be admitted to the lecture halls and scheduled activities.

PHOTOGRAPHY IN SCIENTIFIC SESSIONS AND POSTER PRESENTATIONS

Photography in scientific sessions, in poster presentations, and of any scientific information is strictly forbidden. Any photos taken will be deleted. We reserve the right to ask the unofficial photographer to leave the meeting venue.

We have a hired photographer to take photos throughout the meeting, these pictures will be published.

MOBILE PHONES

We ask that you have your mobile devices on silent or switched off in the scientific sessions



GENERAL INFORMATION

WIFI

Free WIFI is available to Meeting participants in public areas and in the Exhibition Area.

USERNAME: ISN 2023 PASSWORD: Porto2023

MOBILE APP

There will be an official ISN-ESN 2023 app that will allow participants:

- Navigate the meeting program
- Customize your own schedule
- Post to social media accounts
- Follow meeting news as well as see the posts from other meeting attendees

You may download the app from IOS/App Store or Android/ Google Play through the below QR codes:



Download from
IOS/App Store



Download from
Android/Google Play

The event code for the mobile application **isnesn23**. To login to the mobile app, please use the credentials that have been sent to you via e-mail before the meeting.

ABSTRACTS

Abstracts will be accessible and searchable to all delegates via the My ISN Account page during and after the Meeting.

ONLINE JOURNAL PUBLICATION

The Abstracts from the meeting will be published in a supplement of the Journal of Neurochemistry (JNC).

COFFEE BREAKS

Coffee, tea, and light refreshments will be served to all participants in the Exhibition and Poster Area as indicated in the timetable.

REGISTERED PARTICIPANT ATTENDANCE POLICY

All event activities (including scientific sessions, meal functions, exhibit hall, etc.) are exclusively reserved for registered attendees. Non-registered guests are not allowed in any of the event areas. An exception will be made for young children, they will need to get a child-guest badge at the registration desk. Badges provided at registration are required for entrance into all functions and will be strictly enforced.



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SOCIAL GUEST ATTENDANCE POLICY

Social Guests may enter for the Welcome reception and the Farewell. This excludes the Exhibition and Poster Area. They may not enter the scientific sessions. Badges provided at registration are required for entrance into all functions and will be strictly enforced.

Children are welcome in all areas under the supervision of a legal guardian.

LIABILITY AND INSURANCE

The Meeting Secretariat and Organisers cannot accept liability for personal accidents or loss of or damage to private property of participants. Participants are advised to take out their own personal travel and health insurance for their trip.

ISN-ESN 2023 MEETING SECRETARIAT



ISN-ESN Meeting Office:

ISN Secretariat Office

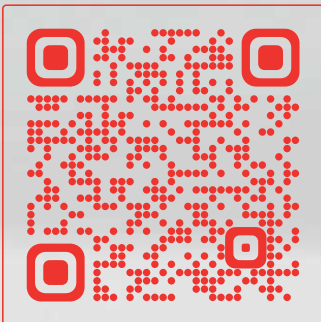
Contact: secretariat@neurochemistry.org

Website: www.neurochemistry.org

ISN Career Development Grants (CDG)

Funds for research for young investigators who are long-term ISN members to establish themselves as independent researchers.

Find out more!

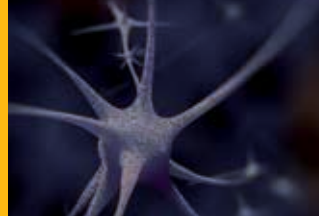


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INFORMATION FOR PRESENTERS

ORAL PRESENTATIONS

You are kindly requested to upload your presentation at least **3 hours before** the start of your session at the Speaker Ready Room. If your presentation is early in the morning, you are strongly encouraged to load your presentation the day before in order to avoid the morning rush.

The presentation document must be prepared in **16:9 format**. Please bring your presentation with a **USB** to upload at Speaker Ready Room before the start of your session (not individual talk).

Due to the networking system, internet connection will not be available on uploading computers. It will not be possible to download your presentation in the Speaker Ready Room.

To minimize technical problems and delays during the actual presentation, we require you to load your presentations at the Speaker Ready Room.

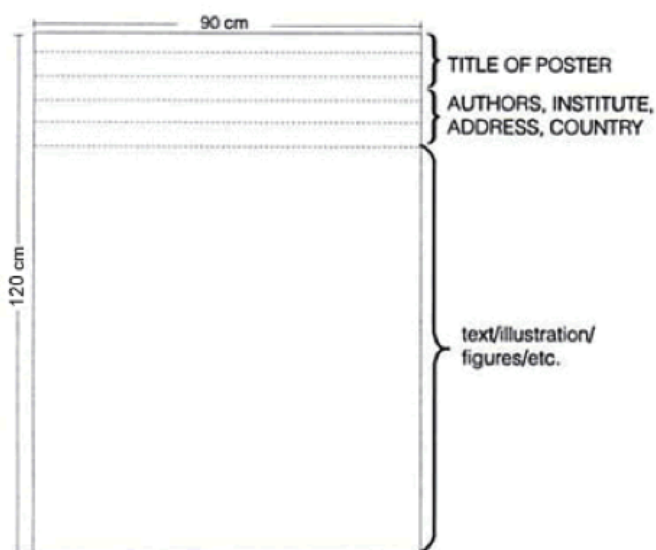
If you prefer not to load your presentation in the Speaker Ready Room and wish to use your own computer, please **bring your connection cable/adaptor** with you and **do notify Speaker Ready Room a day before your presentation**.

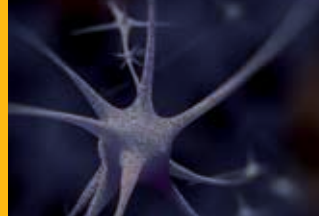
The Speaker Ready Room will be marked clearly with a signage at the meeting venue. Please refer to the Scientific Program for the date and time of your presentation.

POSTER PRESENTATIONS

Your poster should be displayed on the poster board with the abstract code you have received via email. The abstract codes can also be found in the program book.

- **All** posters will stay up for **4** days.
- Setup time starts at 07:00 on Tuesday, August 08. Please make sure you hang your poster by 17:00. Posters have to be taken down on Friday, August 11 from 13:30 until 15:00 or posters not taken from the board on time will be discarded.
- Please prepare your poster on one sheet of Bristol board or laminated paper. Alternatively, presenters may display their material on several smaller sheets.
- The dimensions of the poster should not exceed **90 cm wide x 120 cm high (35 inches x 47 inches)**. Allocate the top of the poster for the title and authors.
- The text, illustrations, etc should be bold enough to be read from a distance of two meters (six feet).
- Tacks and technical equipment will be available for the mounting of posters.





INFORMATION FOR PRESENTERS

Tuesday, August 08

10:30 – 11:00 Posters Viewing A (Coffee Break)

17:00 – 19:00 Posters Session A

*Poster presenters with odd numbers should be at their poster between 17:00-18:00 and those presenting posters with even numbers between 18:00-19:00.

Wednesday, August 09

10:30 – 11:00 Posters Viewing B (Coffee Break)

16:30 – 18:30 Poster Session B

*Poster presenters with odd numbers should be at their poster between 16:30-17:30 and those presenting posters with even numbers between 17:30-18:30

Thursday, August 10

10:00 – 10:30 Poster Viewing A&B (Coffee Break)

Friday, August 11

10:00 – 10:30 Poster Viewing A&B (Coffee Break)

13:30 – 15:00 Take down all posters

Authors are kindly requested to stand next to their poster boards where possible during the dedicated poster session viewing times. Authors are responsible for setting up and removing their posters. Posters not taken from the board on time will be discarded

ISN Schools Initiative



Financial support for the organisation of international neurochemistry schools worldwide, with a special focus on schools in emerging nations and regions.

Find out more!



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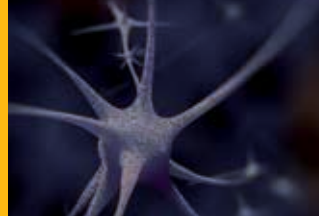
MEETING PROGRAM

Tuesday 08 August, 2023

Time	Archive Hall (Plenary Hall)	Infante Hall (Parallel 1)	D Maria Hall (Parallel 2)	D Luis Hall (Parallel 3)
08:00 - 08:30	Opening Ceremony			
08:30 - 09:30	<p>PL01 Plenary Session: Klaus Armin Nave (Germany) Novel roles of oligodendrocytes in brain energy metabolism and neurodegenerative diseases Chair: ISN President - Flávia Gomes (Brazil)</p>			
09:30 - 10:30	<p>Emerging Group Leaders Chair: Amadi Ihunwo (South Africa) Co-Chair: Abdel Ali Belaidi (Australia) Abdel Ali Belaidi (Australia) Apolipoprotein E signaling in Alzheimer's disease: mechanisms and novel drug targets Sunan Li (United States) Energy Matters: Resetting synaptomechanics is a new mechanistic target for the anti-bipolar actions of lithium Galyna Malieieva (Spain) Photopharmacological control of inhibitory brain receptors LuísRibeiro (Portugal) Neurobins induce dendritic outgrowth in an ICAM5-dependent manner</p>	<p>Emerging Group Leaders Chair: Akio Wanaka (Japan) Co-Chair: Yuuki Fujiwara (Japan) Yuuki Fujiwara (Japan) Identification of a novel protein-degradation pathway by lysosomes required for neuromuscular homeostasis Carina Soares-Cunha (Portugal) Genetic and functional maps of neuronal ensembles encoding associative learning Domenico Azarnia Tehran (Germany) Selective endocytosis of Ca²⁺-permeable AMPARs by the Alzheimer's disease risk factor CALM controls synaptic plasticity Theodora Kalpachidou (Austria) Nerve injury induced deregulation of microRNAs differentially involved in neuropathic pain vs. peripheral nerve neuroregeneration</p>	<p>Emerging Group Leaders Chair: James Olopade (Nigeria) Co-Chair: Blanca Aldana (Denmark) Blanca Aldana (Denmark) Unraveling the link between microglia metabolic reprogramming, neuroinflammation and neurotransmission Ignacio Fernandez Moncada (France) A lactate-dependent shift of glycolysis mediates synaptic and cognitive processes Philipp Mews (United States) Epigenome reprogramming underlies cell-type specific priming of striatal gene responses in cocaine relapse Veronica Pastor (Argentina) Exploring the role of α7 nicotinic acetylcholine receptors in the medial prefrontal cortex on memory processing</p>	<p>Emerging Group Leaders Chair: Vladimir Parpura (China) Co-Chair: Shahriar SheikhBahaei (United States) Shahriar SheikhBahaei (United States) Using animal models in stuttering research Rafael Almeida (United Kingdom) Axonal neurotransmitter release regulates myelination in vivo – insights from zebrafish Patricia Monteiro (Portugal) HANK3: an autism spectrum disorder associated gene Asaf Marco (Israel) Uncovering the genome-wide effects of intermittent fasting on chromatin modulation and transcription to improve brain health</p>
10:30 - 11:00	Coffee Break / Poster Viewing / Exhibition			
11:00 - 13:00	<p>S01 T#7 Neurochemical ground for oxytocin modulation of mammalian social behaviors Chairs: Valery Grenevich (Germany) Silvana Valtcheva (Germany) S01-01 Neural circuitry for maternal oxytocin release in response to infant vocalizations Yongsoo Kim (USA) S01-02 Anatomical and functional characterization of oxytocin receptor neurons in the dorsal endopiriform nucleus in mice Yevgenia Kozorovitskiy (USA) S01-03 Neuromodulatory landscapes shaping social reward Yulong Li (China) S01-04 Compartmental neuropeptide release measured using a new oxytocin sensor</p>	<p>S02 T#4 Homeostatic regulation of neural circuits: From basic principles to brain disorders Chairs: Inna Slutsky (Israel) LU CHEN (USA) S02-01 Retinoic acid signaling in spinal cord homeostatic plasticity and neuropathic pain Davis Graeme (USA) S02-02 Homeostatic Signaling at Central and Peripheral Synapses in Health and Disease Ege Kavalali (USA) S02-03 Functional nano-organization of central synapses, a substrate for plasticity Inna Slutsky (Israel) S02-04 Regulation and dysregulation of homeostatic activity set points in hippocampal circuits</p>	<p>S03 T#2 The emerging roles of D-amino acids in Neurochemistry: from physiology to disease Chairs: Jonathan van Syckle Sweedler (USA), Isis N O Souza (France) Shengzhou Wu (China) S03-01 Serine racemase modulates insulin signaling in the brain Isis N O Souza (France) S03-02 D-serine tunes cortical neuronal inhibition Alessandro Usiello (Italy) S03-03 Early D-Aspartate metabolism signals neurodevelopmental process with relevance for psychiatric disorders Jonathan van Syckle Sweedler (USA) S03-04 Speaker</p>	<p>S04 T#14 Next-generation tools to shine a new light on neurochemical dynamics Chairs: Tommaso Patriachi (Switzerland) Tommaso Patriachi (Switzerland) S04-01 Optical tools to monitor and control endogenous neuropeptide activity Robert Campbell (Japan) S04-02 New genetically encoded sensors for ions and metabolites Jin Zhang (USA) S04-03 Genetically encoded biosensors for kinase activity Olivia Masseck (Germany) S04-04 A genetically-encoded sensor for imaging serotonin release in vivo</p>
13:00 - 14:00	LUNCH BREAK			

Legend:

Plenary Lecture	Workshop	Symposium
Young Member Symposia	Young Scientist Lectureship	ESN YMS Symposia



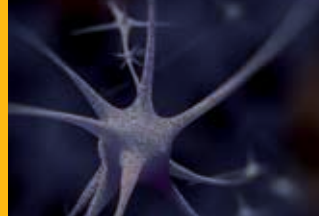
MEETING PROGRAM

Tuesday 08 August, 2023

Time	Archive Hall (Plenary Hall)	Infante Hall (Parallel 1)	D Maria Hall (Parallel 2)	D Luis Hall (Parallel 3)
14:00 - 16:00	<p>S05 T#9 The functional organization of axons Chairs: Matthew Rasband (USA), Matthew Rasband (USA), S05-01 Ankyrin and spectrin cytoskeletons regulate the functional organization of axons Elior Peles (Israel), S05-02 Role of axoglial cell adhesion molecules in sodium channel clustering Maren Engelhardt (Australia), S05-03 Organization and functional plasticity of the axon initial segment Dies Meijer (UK), S05-04 LGI3/2-ADAM23 interactions drive the accumulation and stability of Kv1 channels in myelinated axons</p>	<p>S06 T#15 New insights into the neurochemical basis of 'food addiction': genetic, epigenetic metabolic and circuit mechanisms Chairs: Robyn Brown (Australia), Rafael Maldonado (Spain), S06-01 Advances in the understanding of the epigenetic factors leading to food addiction Paul Kenny (USA), S06-02 GPR151 signalling in medial habenula regulates blood glucose homeostasis and food and drug-motivated behaviours Robyn Brown (Australia), S06-03 A paraventricular thalamus to insular cortex glutamatergic projection gates "emotional" stress-induced binge eating in females Serge Luquet (France), S06-04 The addiction-susceptibility Taq1A/Ankyrin repeat and kinase domain containing 1 kinase (ANKK1) and brain susceptibility to food-related diseases</p>	<p>S07 T#6 Insulin signaling and brain energy metabolism: a key connection for cognitive function Chairs: Eugenio Barone (Italy), Eugenio Barone (Italy) S07-01 Aberrant insulin signalling alters mitochondrial bioenergetics and cell stress response in the brain: a route toward neurodegeneration Joao Duarte (Sweden) S07-02 Impact of insulin resistance on energy metabolism of neurons and glial cells Bindu Paul (USA) S07-03 Gaseous signaling molecules in metabolism and neurodegeneration Fernanda G De Felice (Brazil) S07-04 Insulin resistance and allostatic load in Alzheimer's disease</p>	<p>S08 T#11 Novel modes and mechanisms of synaptic vesicle recycling Chairs: Michael Cousin (UK), Michael Cousin (UK) Dynamin-1 function and dysfunction at the presynapse Shigeki Watanabe (USA) Dynamin condensates for ultrafast endocytosis Natali Lujan Chadanay (USA) Novel signaling pathways that regulate synaptic vesicle recycling Sarah Gordon (Australia) Activity-dependent phosphorylation of alpha-synuclein reveals its function as a protein trafficking chaperone</p>
16:00 - 17:00	<p>Marthe Vogt Lecture: Marina Picciotto (USA) Stress-induced acetylcholine signaling in the hippocampus: too much of a good thing? Chair: Cheah Pike-See (Malaysia)</p>			
17:00 - 19:00	<i>Poster session A (odd numbers 17:00-18:00, even numbers 18:00-19:00)</i>			
19:00	Welcome Reception			

Legend:

Plenary Lecture	Workshop	Symposium
Young Member Symposia	Young Scientist Lectureship	ESN YMS Symposia



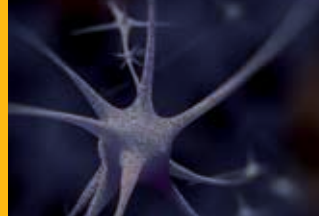
MEETING PROGRAM

Wednesday 09 August, 2023

Time	Archive Hall (Plenary Hall)	Infante Hall (Parallel 1)	D Maria Hall (Parallel 2)	D Luis Hall (Parallel 3)
08:00 - 08:30	<p>ESN YSLA Lectureship Award 01 Chair: Natalia Nalivaeva (UK) Boaz Barak (Israel) Novel mechanistic insights on myelination regulation in health and illness</p>	<p>ESN YSLA Lectureship Award 02 Chair: Dimitra Mangoura (Greece) Giuseppe Gangarossa (France) Leveraging gut-brain interoception to reappraise reward events and mechanisms</p>		
08:30-09:30	<p>PL02 Plenary Session: Nancy Ip Yuk-yu (Hong Kong SAR, China) Understanding the biomarkers of Alzheimer's disease – Insights into the development of diagnostics and therapeutics Chair: ESN President - Johannes Hirrlinger (Germany)</p>			
09:30 - 10:30	<p>YMS01 Young Members Symposia Chair: Vania Prado (Canada) Co-Chair: Vanessa Coelho-Santos (Portugal) Vanessa Coelho-Santos (Portugal) Live imaging of microglia behaviour across the life stages of the brain: From neonatal to aging Opeyemi Ogunsuyi (Nigeria) Donepezil's Therapeutic Effects Are Influenced by Curcumin: A Food-Drug Interaction Approach to Alzheimer's Disease Management Ami Kobayashi (United States) The role of tRNA-derived fragments in tau aggregation and propagation in Alzheimer's disease Cristina Marti-n-Monteagudo (Spain) Astrocytic Ensembles in Nucleus Accumbens: What Role do they Play in THC-Related Impairments?</p>	<p>YMS02 Young Members Symposia Chair: Constanze Seidenbecher (Germany) Co-Chair: Roberta Goncalves Anversa (Australia) Roberta Goncalves Anversa (Australia) Role of a thalamo-cortical glutamatergic projection in stress-induced binge eating in female mice Oren Princz Lebel (Canada) Cognitive and motor phenotypes induced by injection of different strains of human alpha-synuclein pre-formed fibrils in mice Daniela Monteiro-Fernandes (Portugal) Therapeutical potential of 5HT1AR agonism on behavioural and neuropathology in a clinically relevant mouse model of Rett Syndrome Felipe Ribeiro (Brazil) Synaptic proteasome is inhibited in Alzheimer's disease models and is associated with memory impairment in mice</p>	<p>YMS03 Young Members Symposia Chair: Jean-Pierre Mothet (France) Co-Chair: Cory White (United States) Cory White (United States) Variability in Lipid Composition in the Virally Suppressed SIV-infected Macaque Brain Marta Cozzi (Italy) Molecular mechanisms in KIF5A-related neurodegeneration Akhilesh (India) Targeting TRPA1/TRPV1 with Bergenin: Mitigating Chemotherapy-Induced Neuropathy and Neuroinflammation Helena Targa Dias Anastacio (Australia) Induced pluripotent stem cell derived neurons from Alzheimer's disease patients show elevated Ca²⁺ responses to AMPA</p>	<p>YMS04 Young Members Symposia Chair: Christian Gonzalez-Billault (Chile) Co-Chair: Luana Chagas (Brazil) Luana Chagas (Brazil) The TNF-α signalling in the rapid plasticity of visual system following monocular enucleation. Adriano Chaves Filho (Brazil) R- and S-Ketamine modulate microglia reactivity and gene expression in lipopolysaccharide (LPS)-induced depression model Adrienne Watson (Canada) Fractalkine enhances oligodendrogenesis and remyelination from central nervous system precursor cells Tyler Wenzel (Canada) Microglia in brain organoids exhibit different immune responses if developed innately versus microglia integrated by co-culture</p>
10:30 - 11:00	<i>Coffee Break / Poster Viewing B/ Exhibition</i>			

Legend:

Plenary Lecture	Workshop	Symposium
Young Member Symposia	Young Scientist Lectureship	ESN YMS Symposia



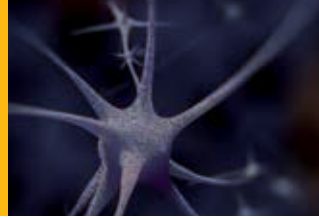
MEETING PROGRAM

Wednesday 09 August, 2023

Time	Archive Hall (Plenary Hall)	Infante Hall (Parallel 1)	D Maria Hall (Parallel 2)	D Luis Hall (Parallel 3)
11:00 - 13:00	<p>S09 T#2 Optical exploration of brain molecular signalling: New advances Chairs: Dmitri Rusakov (UK) Jonathan Marvin (USA) Exploratory development of genetically encoded sensors for glucose and ATP Lin Tian (USA) Biosensors for multi-dimensional analyses and manipulation of functional neural circuits in vivo Dmitri Rusakov (UK) Exploring spatiotemporal dynamics of extracellular glutamate and GABA Tatiana Korotkova (Germany) Neurotransmitter-targeting optogenetic manipulations of neural circuits that control selected behaviours</p>	<p>S10 T#4 Axonal cytoskeleton and transportation in neurodegeneration and regeneration Chairs: Yang Hu (USA) Monica Sousa (Portugal) Axon stretch triggers remodeling of cytoskeleton dynamics and trafficking Zdenek Lansky (Czech Republic) Regulation of microtubule accessibility by tau envelopes Wei Li (USA) Hibernation and neuroprotection in axonal injury Yang Hu (USA) Optineurin in axonal transportation and neurodegeneration.</p>	<p>S11 T#3 Targeting the complement system in brain injury and neurodegeneration Chairs: Marcela Pekna (Sweden), Beth Stevens (USA) Beth Stevens (USA) Complement-mediated synapse elimination: novel mechanistic insights and implications for therapy of neurodegenerative disorders Stephen Salton (USA) The role and therapeutic manipulation of the VGF/TLQP-21/C3aR1 pathway in neurodegenerative disease John Lee (Australia) The yin and yang of complement C3a and C5a in amyotrophic lateral sclerosis Marcela Pekna (Sweden) Therapeutic potential of C3aR agonists in the post-acute phase after stroke</p>	<p>S12 T#13 Interrogating the plasticity brake: How does neural extracellular matrix regulate neuroplasticity? Chairs: Jessica C F Kwok (UK) Markus Morawski (Germany) Aggrecan and brevican in the CNS - two sides of one coin? Daniella Carulli (Netherlands) Boosting brain plasticity by manipulating the extracellular matrix component Semaphorin3A Jessica C F Kwok (UK) Sugar coat or sugar code - how do perineuronal nets regulate memory in ageing? Amy Lasek (USA) Involvement of cortical perineuronal nets in compulsive alcohol consumption</p>
13:00 - 13:30	LUNCH BREAK			
13:30 - 14:30	ISN Annual Business Meeting			
14:30 - 16:30	<p>S13 T#7 Diversification of the Endoplasmic Reticulum in neuronal structure and function Chairs: Marina Mikhaylova (Germany) Marina Mikhaylova (Germany) Calcium-mediated ER dynamics during synaptic plasticity Mathieu Letellier (France) Local translation of synaptopodin enables input-specific homeostatic synaptic plasticity. Marijn Kuijpers (Netherlands) Autophagy controls neuronal ER calcium stores to regulate neurotransmission Ginny Farias (Netherlands) ER organization in axonal identify</p>	<p>S14 T#9 Astrocyte phagocytosis and brain functions Chairs: Schuichi Koizumi (Japan) Yosuke Morizawa (USA) Bergman glial synaptic nibbling mediates synaptic structural plasticity upon motor learning Chiara Zurzolo (France) Clearance of extracellular molecules via tunneling nanotubes. Won-Suk Chung (South Korea) Phagocytic roles of astrocytes in maintaining neural circuit plasticity and homeostasis Schuichi Koizumi (Japan) Alexander disease pathology caused by mutant astrocyte-mediated phagocytosis</p>	<p>S15 T#4 Cortical Malformations: from Patients to Mechanistic Insights Chairs: Koh-Ichi Nagata (Japan) Ghayda Mirzaa (USA) The genetic underpinnings of brain overgrowth and focal cortical dysplasia: from diagnostics to mechanistic insights Orly Reiner (Israel) Brain malformations: The Secrets of the progenitors Koh-Ichi Nagata (Japan) Pathophysiological mechanisms of variants of Rho family members, RAC1 and RAC3, in cortical malformations Jay Gopalakrishnan (Germany) Defective primary cilia dynamics as a basis to trigger human cortical malformations</p>	<p>JNC Workshop: Breaking through the noise: designing, publishing, and communicating your research for impact Chair: Marco A M Prado (Canada) Frank Middleton (USA) Designing Andrew Lawrence (Australia) Publishing Kim Kwan (Australia) Communicating</p>
16:30 - 18:30	<i>Poster session B (odd numbers 16:30-17:30, even numbers 17:30-18:30)</i>			
19:30	ISN Presidents Reception (By Invitation)			

Legend:

Plenary Lecture	Workshop	Symposium
Young Member Symposia	Young Scientist Lectureship	ESN YMS Symposia



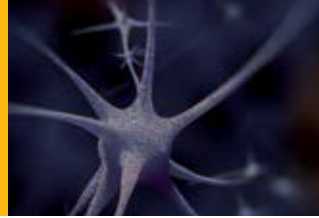
MEETING PROGRAM

Thursday 10 August, 2023

Time	Archive Hall (Plenary Hall)	Infante Hall (Parallel 1)	D Maria Hall (Parallel 2)	D Luis Hall (Parallel 3)
08:00 - 08:30	Mark A Smith Award: João Victor Cabral-Costa Mitochondrial sodium/calcium exchanger NCLX regulates glycolysis in astrocytes, impacting on cognitive performance.			
08:30 - 09:30	PL03 Plenary Session: Richard L. Huganir (USA) Regulation of neurotransmitter receptors during synaptic plasticity in health and disease Chair: Carlos B. Duarte (Portugal)			
09:30 - 10:00	Young Scientist Lectureship Award 02 Chairs: Alessandro Prinetti (Italy) Anastassia Voronova (Canada) Fractalkine signalling is a critical regulator of oligodendrocyte genesis and myelination in the developing and demyelinated brain		Young Scientist Lectureship Award 01 Chairs: Babette Fuss (USA) Tommaso Patriarchi (Switzerland) A next-generation optical toolkit to study neuromodulatory signaling	
10:00 - 10:30	<i>Coffee Break / Poster Viewing A&B/ Exhibition</i>			
10:30 - 12:30	S17 T#4 Biomolecular condensates in synaptic function and neurodegenerative diseases Chairs: Frederic Meunier (Australia), Shanley Sanders (Australia) Sandra Encalada (USA) Axonotoxic Prion Protein Endogosomes and Membraneless Organelles Form within Endolysosomal Pathways Ramon Martinez-Marmol (Australia) Tau forms functional synaptic nanobiomolecular condensates Susanne Wegmann (Germany) Neuronal implications of Tau condensates Akihiro Kusumi (Japan) SynGAP condensate formation and recruitment of PSD95 and receptors: single molecule imaging	S18 T#9 Microglia in physiology and disease Chairs: Margaret Ho (China) Margaret Ho (China) Glial autophagy in Parkinson's disease Renzo Mancuso (Belgium) Molecular mechanism of human microglial contribution to neurodegeneration Rosa Chiara Paolicelli (Switzerland) Dysfunctional microglia in the pathogenesis of brain disorders Qiaojie Xiong (USA) Microglia modulate stable wakefulness in mice	S26 Neuroimmunology: a common thread across diverse CNS disorders Chairs: Tammy Kielian (USA) David Loane (Ireland), Microglial dysfunction in the aged and injured brain Ety (Tika) Benveniste (USA) The JAK/STAT Pathway: Role in Neuroinflammation Ukpong Eyo (USA) Novel sex differences in microglial identity and regulation of neural behavior Jessica Williams (USA) Protective functions of immunomodulated astrocytes during autoimmune demyelination	S20 T#5 Cellular and molecular regulation of neurodevelopment and disorders Chairs: King-Hwa Ling (Malaysia) Shubha Tole (India) Neuron-glia cell fate regulation in the neocortex and hippocampus John Mason (UK) PAX6 controls cell fate choice in human cerebral organoids Elaine Lim (USA) Genotype-to-cell type discoveries using cerebral organoids in autism King-Hwa Ling (Malaysia) REST-JAK-STAT in the neurogenic-to-gliogenic shift in Down syndrome
12:30 - 13:30	ESN Business Meeting			
	FREE AFTERNOON			

Legend:

Plenary Lecture	Workshop	Symposium
Young Member Symposia	Young Scientist Lectureship	ESN YMS Symposia

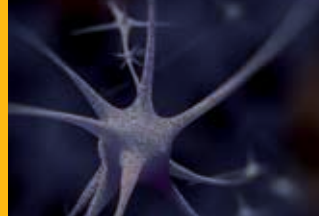


MEETING PROGRAM

Friday 11 August, 2023				
Time	Archive Hall (Plenary Hall)	Infante Hall (Parallel 1)	D Maria Hall (Parallel 2)	D Luis Hall (Parallel 3)
08:00 - 09:00	ESN Bachelard Lectureship Award Chair: Illana Gozes (Israel) Juan P. Bolaños (Spain) Metabolic shapes of brain cells and functional consequences			
09:00 - 10:00	PL04 Plenary Session: Carmen Sandi (Switzerland) Mitochondrial dynamics in neuronal structure and function: Behavioral implications Chairs: Caroline (Lindy) Rae (Australia)			
10:00 - 10:30	<i>Coffee Break / Poster Viewing A&B/ Exhibition</i>			
10:30 - 12:30	ESN YMS Symposia 01 Chairs: Dimitra Mangoura (Greece) and Johannes Hirrlinger (Germany) Rita Abrunhosa Soares (Portugal) Uncovering Mitochondrial properties as novel targets for neural stem cell differentiation in the Subventricular Zone Diogo M. Lourenço (Portugal) Cannabidiol and its neurogenic potential as a novel target for Rett Syndrome Charikleia (Charoula) Peta (Greece) NLS-neurofibromins are important mitotic MAPs in astrocytes Nadine Denker (Germany) Metabolism of pyruvate in astrocytes Ismail Gbadamosi (Poland) Depletion of neurodegeneration-associated protein TDP-43 perturbs cellular energy metabolism in motor neurons	ESN YMS Symposia 02 Chairs: Illana Gozes (Israel) and Carlos Duarte (Portugal) Milorad Dragic (Serbia) Neuroprotective effect of intermittent theta-burst stimulation in experimental Parkinsonism - the role of adenosine signaling Olayemi K. Ijomone (Nigeria) Acrylamide-induced behavioural deficits and neuroinflammation in rats: potential role for Sesamum radiatum extract Katarina Miličević (Serbia) Trimethyltin disrupts calcium homeostasis and promotes inflammatory phenotype in astrocytes in vitro Maria Francesca Palmas (Italy) Repurposing pomalidomide as a neuroprotective drug in an alpha-synuclein-based model of Parkinson's disease Maram Ganaïem (Israel) Pleiotropic Mechanisms in Brain Disease: NAP (Davunetide), the Microtubule Protecting ADNP Drug Candidate, Penetrates Cell Nuclei Marialuisa F. de Ceglia (Spain) Impact of western diet or d-pinitol in cognitive behaviour and hippocampal protein expression of 5xfad Alzheimer mouse model	S16 T#16 ISN History Symposium Chairs: Philip Beart (Australia) Catarina Resende Oliveira (Portugal) ISN Biennial Meeting 1989 in Albufeira Ana Luisa Carvalho (Portugal) ISN Special Neurochemistry Meeting 2016 in Coimbra Douglas Feinstein (USA) History of Astrocyte Research Fernando de Castro (Spain) History of Microglia Research Anne I Boullerne (USA) History of Oligodendrocyte Research	S22 T#10 The multifaceted biology of repeat expansion diseases Chairs: Rosanna Parlato (Germany) Riccardo Cristofani (Italy) Molecular pathways controlling unconventional non-AUG translated proteins levels Jannigje Rachel Kok (UK) Astrocyte-induced DNA damage as a mechanism of motor neuron death in ALS Rosanna Parlato (Germany) Dysregulation of quality control in HD and ALS Masahisa Katsuno (Japan) Molecular basis for early-phase pathogenesis of SBMA
12:30 - 13:30	LUNCH BREAK			

Legend:

Plenary Lecture	Workshop	Symposium
Young Member Symposia	Young Scientist Lectureship	ESN YMS Symposia



MEETING PROGRAM

Friday 11 August, 2023				
Time	Archive Hall (Plenary Hall)	Infante Hall (Parallel 1)	D Maria Hall (Parallel 2)	D Luis Hall (Parallel 3)
13:30 - 15:30	<p>S21 T#9 Disease-specific astrocyte responses: from molecules and function to treatment strategies Chairs: Elly Hol (Netherlands) Elly Hol (Netherlands) Human iPSC-derived organoid models to study glia in Alzheimer's and Alexander disease Robert Krencik (USA) Neuromodulation of bioengineered organoids with human reactive astrocytes Milos Pekny (Sweden) Astrocytes as key modulators of CNS responses to stroke Michael Sofroniew (USA) Convergent and divergent transcriptional regulators of astrocyte reactivity across disorders</p>	<p>S24 T#4 Regulation of Synaptic Proteins Associated with Neurodevelopmental Disorders Chairs: Katherine Roche (USA) Ana Luisa Carvalho (Portugal) Aberrant hippocampal transmission, excitability and behaviour associated with an intellectual disability-linked stargazin mutation Katherine Roche (USA) Deficits in the synaptic targeting of NMDA receptors with ASD-associated GluN2 variants Eunjoon Kim (South Korea) NMDA receptor dysfunctions in Shank2-related brain developmental disorders Gavin Rumbaugh (USA) Neuron subtype-specific synaptic and non-synaptic functions of Syngap1 throughout development</p>	<p>S19 T#14 Interrogation of the nervous system with fluorescence spectroscopy and optical superresolution microscopy Chairs: Francisco J Barrantes (Argentina) Ana Melo (Portugal) Untangling the distinct conformational signatures of the flanking polyQ regions in huntingtin exon 1 at the membrane surface: insights into Huntington's disease Giovanna Coceano (Sweden) Live cell compatible 3D superresolution fluorescence microscopy: from protein trafficking to synaptic plasticity in firing neurons Francisco J Barrantes (Argentina) Cholesterol modulation of nicotinic acetylcholine receptor topography, single molecule trajectories and nanocluster assembly</p>	<p>S23 T#15 Neuropeptide modulation of pain Chairs: Marc Landry (France) Bradley Taylor (USA) Spinal and brainstem neuropeptide YY1 receptor-expressing neurons in neuropathic pain Marc Landry (France) Mechanical vs thermal analgesia induced by relaxin-3/RXFP3 peptidergic transmission in anterior cingulate cortex and amygdala Edita Navratilova (USA) Dynorphin link between chronic pain and comorbid conditions.</p>
19:00 - 22:30	<p>Farewell Reception <i>Buses departure from Convention center</i></p>			

Legend:

Plenary Lecture	Workshop	Symposium
Young Member Symposia	Young Scientist Lectureship	ESN YMS Symposia

ISN Committee for Aid and Education in Neurochemistry (CAEN)

CAEN provides funds towards travelling to another laboratory to develop new technical or conceptual expertise, purchasing research supplies, attending workshops / training courses / satellite meetings or organizing a workshop / small school.



Find out more!

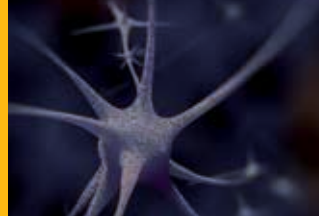


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BUSINESS MEETINGS

ISN BUSINESS MEETING

WEDNESDAY, AUGUST 9, 13:30-14:30 | PLENARY HALL / ARCHIVE HALL

Please note that only ISN members can vote at Business Meeting

ESN BUSINESS MEETING

THURSDAY, AUGUST 10, 12:30-13:30 | PLENARY HALL / ARCHIVE HALL

Please note that only ESN members can vote at Business Meeting

What is a Business Meeting and why should I attend as a member?

The Business meeting (also known as an Annual General meeting - AGM) is a crucial event for our society. During this meeting, we will discuss important matters concerning the operation, growth, and future direction of our society.

The business meeting provides an opportunity for all members to come together and actively participate in decision-making processes. We will present a comprehensive overview of our achievements, challenges, and financial performance over the past year. Additionally, key strategies and initiatives for the upcoming year will be shared, allowing everyone to contribute their valuable insights and ideas.

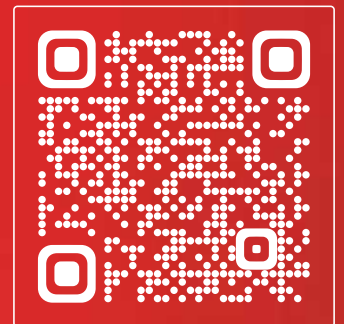
It is essential for each member to attend this meeting as your input and perspectives are vital to the success of our organization. Your attendance will not only enhance your understanding of the Society's current state but also enable you to have a direct impact on its future.

Both ISN and ESN look forward to engaging with their members at the Business Meetings

ISN Conference Committee (ISN-CC)

Financial support for the organisation of small conferences on specialised neurochemical topics and sponsors neurochemistry symposia within meetings of other scientific societies or groups.

Find out more!

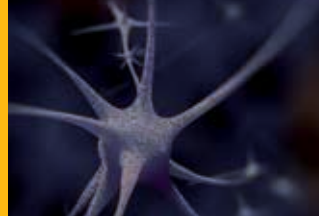


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POSTER SESSION A / TUESDAY, AUGUST 08

Poster presentation by authors between 10:30 – 11:00 on Tuesday, August 08

Poster presentation by authors with odd numbers between 17:00 – 18:00 on Tuesday, August 08

Poster presentation by authors with even numbers between 18:00 – 19:00 on Tuesday, August 08

Poster presentation by authors between 10:00 – 10:30 on Thursday, August 10

Poster presentation by authors between 10:00 – 10:30 on Friday, August 11

A01 - Gene regulation & genetics

- A 01-01 Effect of Chronic Unpredictable Mild Stress (CUMS) and ketamine treatment on circRNAs expression in rat hippocampus
Luiz Filipe Bastos Mendes
- A 01-02 An integrative GWAS followed by functional investigation reveals possible involvement of CNTNAP5 in glaucomatous neurodegeneration
Sudipta Chakraborty
- A 01-03 Unravelling the epigenetic of resilience:
H3K36me3 as a target in the development and heritability of Resilience to Depression
Lucas Silva
- A 01-04 Understanding the effect of SNCA overexpression in apoptotic cell death via lung cancer model
Yong Qi Leong

A02 - Signal transduction & synaptic transmission

- A 02-01 Opto-evoked neurotransmitter detection with graphene nanobiosensors
Mafalda Abrantes
- A 02-02 Ketogenic diet regulates presynaptic proteome by PKA and BDNF signaling pathway activation in prefrontal cortex of aging mice
Diego Acuña-Catalán
- A 02-03 Overlapping substrate selectivity between dopamine and serotonin transporters: implications for monoamine homeostasis
Ana Sofia Alberto e Silva
- A 02-04 α -Synuclein overexpression impairs the trafficking of crucial SNARE protein synaptobrevin-2
Elyas Arvell
- A 02-05 Glutamate transporters: targets of Cadmium toxicity in human astrocytes
Yaneth Castro-Coronel
- A 02-06 Synaptic transmission is affected by the lack of plasmalogens
Bárbara Correia
- A 02-07 Glycine transporter type 1 inhibitor promotes neuroprotection in a model of Alzheimer's disease
Onésia Cristina Oliveira-Lima
- A 02-08 The interplay between BDNF signaling and hippocampal dendritic mitochondria.
Filipe Duarte



POSTER SESSION A / TUESDAY, AUGUST 08

- A 02-09 Investigating the synaptic localization of endogenous Neuroligin-1 with a new mouse line
Charles Ducrot
- A 02-10 Microtubule-anchoring to excitatory synapses of PV neurons
Daniela Hacker
- A 02-11 The Developmental Trajectory of Synaptic Vesicle Endocytosis in ASD Models
Nawon Kim Michael A. Cousin

A03 - Neuroinflammation & neuroimmunology

- A 03-01 Neuroinflammation in the posterior dorsomedial striatum facilitates goal-directed action through an astrocyte mediated mechanism
Arvie Abiero
- A 03-02 P2X7 antagonist A438079 or Panx1 inhibition with Probenecid can “deactivate” rat activated astrocyte in vitro
Marija Adžić Bukvić
- A 03-03 Meninges as an overlooked pharmacological target for Globoid Cell Leukodystrophy
Alessia Amenta
- A 03-04 Impact of LRRK2-G2019S mutation on microglial NLRP3 inflammasome activation
Luca Ballotto
- A 03-05 Dendritic nanoarchitectures for the treatment of psoriasis
Mani Bhargava
- A 03-17 Cola acuminata extract against neuroinflammation in Parkinson’s disease by inhibiting NLRP3 inflammasome components in THP-1 cells
Ngoungoure Ndam Viviane Laure
- A 03-08 ASTROCYTES UNDERGO MORPHOLOGICAL AND MOLECULAR CHANGES IN AN IN VITRO MODEL OF CELLULAR SENESCENCE AND IN AGED MOUSE HIPPOCAMPUS
João Bastos
- A 03-09 The role of glial cells in neuroinflammation in the context of Alzheimer’s disease
Rafaella Ferreira
- A 03-10 Sex-specific alteration of midbrain inflammatory transcripts following maternal immune activation and estrogen receptor modulation
Sophie R. Debs
- A 03-11 Neuronal Gene Transcription in Multiple Sclerosis and Mouse Model Implicate a Senescence-like Phenotype
Sienna Sage Drake
- A 03-12 Transplanted iPSC-derived vascular endothelial cells recruit regulatory T cells and promote recovery of white matter infarct.
Yasuki Ishizaki



POSTER SESSION A / TUESDAY, AUGUST 08

- A 03-13 GSK2795039 a novel NOX2 inhibitor, reduces proinflammatory microglial activation in vitro and in a model of traumatic brain injury
Janeen Laabei
- A 03-14 Studies on prefrontal ultrastructural changes following interaction with Tenofovir-silver nanoparticles conjugate in diabetic rats
SODIQ KOLAWOLE LAWAL
- A 03-15 Vicious cycle of socially isolated depression and alcoholic dependence
Jin-Seok Lee
- A 03-16 Cerebral and peripheral response to maternal immune activation by viral mimetic; the relevance to Alzheimer's disease
Marta Matuszewska

A04 - Molecular basis of disease

- A 04-01 Aqueous lyophilisate of *Malva viscosa* Dill. Ex Cav. leaves exerts antiepileptogenic properties in rats
Maxwell Blesdel ADASSI
- A 04-02 Purinergic signaling-dependent microglial activation in the cerebral cortex in a valproic acid-induced rat model of autism
Lidia Babiec,
- A 04-03 GluN2A reduced expression induces a delay in neuron maturation involved in seizure susceptibility.
Veronica Baez
- A 04-04 Analysis of the neuronal extracellular matrix in the Syrian hamster during hibernation
Valerie Berrouschot
- A 04-05 Apoptosis-related Proteins in PBMC as Markers for Parkinson's Disease Development – A Pilot Study
Mária Brodňanová
- A 04-06 Multi-omics analysis of the metabolome and microbiota in a rat model of cerebral amyloidosis.
Lorenzo Campanelli
- A 04-07 Behavioral and anatomical phenotypes in a mutant for the Transglutaminase enzyme
Jorge M Campusano
- A 04-08 The participation of activating transcription factor 6 alpha (ATF6α) in Alzheimer's disease
Mariana Chauvet
- A 04-09 SUMOylation-mediated neuroprotection in models of Parkinson's disease
Helena Cimarosti
- A 04-10 Fragile-X Mental Retardation protein (FMRP) mediates BDNF-induced upregulation of synaptic NMDA receptors
Elisa Corti
- A 04-11 mTOR: The key link between Activating Transcription Factor-4 and neuronal apoptosis in Parkinson's disease models.
Matthew Demmings



POSTER SESSION A / TUESDAY, AUGUST 08

- A 04-12 Structural comparison of the human NET and AChE for the study of dual inhibitors: An in silico and in vitro approach.
Luis Dinamarca
- A 04-13 Multidimensional functional profiling of human neuropathogenic FOXP1 alleles in primary cultures of pallial precursors
Simone Frisari
- A 04-14 Impaired nitric-oxide-dependent neurovascular coupling and spatial memory in type 2 diabetes are rescued by dietary nitrate
João S. Gonçalves
- A 04-15 Metformin improves cognition and restores microglial autophagy in experimental models of type 2 diabetes mellitus
Nicolas Gabriel Gonzalez Perez
- A 04-16 Characterization of cellular and molecular bases of Moyamoya angiopathy
Gemma Gorla
- A 04-17 The role of the fuzzy coat in the cellular uptake and seeding ability of α -synuclein fibrils
David Hicks
- A 04-18 Unfolded protein response in mitochondria and endoplasmic reticulum of SH-SY5Y cells induced by 3-nitropropionic acid
Luboš Hudák
- A 04-19 Applying novel human iPSC-derived neuronal models to investigate modulators of TDP-43 pathology
Matisse Jacobs
- A 04-20 GM3 Synthase Deficiency causes lysosomal and mitochondria impairment
Emma Veronica Carsana
- A 04-21 Levetiracetam modulates adenosinergic pathway in the brain: in silico and in vivo mechanistic study in model of epilepsy
Muhammad Jamal
- A 04-22 ApoE4 impairs Rab-mediated vesicular trafficking via GFAP dysregulation in astrocytes
Onyedikachi Ojiakor
- A 04-23 Waves of increased chaperone abundance may have anti-aggregation activities in a mouse model of ALS
Rebecca San Gil

A05 - Brain development & cell differentiation

- A 05-01 The Ontogenesis of the neuronal extracellular Matrix in the hominoid brain
Jan Philipp Alter
- A 05-02 Evaluating Neuroprotective Effects of Sulforaphane in a VPA-Induced Autism Model
Riley Bessetti
- A 05-03 Cadherin 13 expression in somatostatin-positive interneurons regulate auditory sensory processing.
Pegah Chehrazi

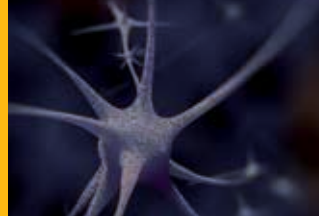


POSTER SESSION A / TUESDAY, AUGUST 08

- A 05-04 Relationship between reelin expression with age in the human and mouse hippocampal formation.
Vanessa Despotovski
- A 05-05 Vanadium improves memory and spatial learning and protects pyramidal cells of the hippocampus in juvenile hydrocephalic mice
Omowumi Femi-Akinlosotu
- A 05-06 The Development of the Inhibitory System Changes is Regulated by the Methylenetetrahydrofolate Reductase (Mthfr) Gene.
Hava Golan
- A 05-07 RTTN mutations impair the growth of human brain organoids
Adva Hadar
- A 05-08 Septin 5 and 6, dual regulators of stability and maintenance of the axon initial segment
Hamdan Hamdan
- A 05-09 Klf4 and Klf5 have opposing effects on the determination of neural precursor cell fate in the developing mammalian brain
- A 05-10 Filopodia in the z-direction of the growth cone, identified using superresolution microscopy
Michihiro Igarashi
- A 05-11 Chemogenetic modulation of human in vitro motoneuron development accelerates maturation trajectory and electrophysical properties
Sean Morrison
- A 05-12 Tenascin C modulates biochemical composition of adult hippocampal neurogenic niche
Milena Tucić

A06 - Bioenergetics & metabolism

- A 06-01 NEURONAL ENERGY METABOLISM AND INTEGRITY IN THE VISUAL CORTEX OF RATS FOLLOWING WITHDRAWAL FROM LEAD-INTOXICATION
Michael Ajenikoko
- A 06-02 Functional Metabolic Mapping Shows Preferential Metabolism of Butyrate over Acetate in Mouse Astrocytes
Aisha Ameen
- A 06-03 Itaconate esters deplete the glutathione content of cultured primary astrocytes
Christian Arend
- A 06-04 Myelin lipids as nervous system energy reserves
Ebrahim Asadollahi
- A 06-05 GAT1 and GAT3 gene expression associates with brain glucose metabolism in typically Alzheimer's disease hypometabolic regions
Giovanna Carello-Collar
- A 06-06 Investigation of NAD Metabolism in Mitochondrial Metabolism in the Dorsal Root Ganglion
Marina Chichierchio



POSTER SESSION A / TUESDAY, AUGUST 08

- A 06-07 Multi-omics reveals lipidomics alterations validated in an Alzheimer's disease mouse model and risk loci carriers
Monica Emili Garcia-Segura
- A 06-08 Increased Brain Fatty Acid Oxidation After Neonatal Brain Injury
Regina Fernandez Fernandez
- A 06-10 Leucine catabolism serves as a possible endogenous source of acetyl-CoA and ketone bodies in human neural cancer cells
Eduard Gondas¹
- A 06-11 Fatty acid metabolism maintains cellular ATP levels in glucose-starved cultured astrocytes
Antonia Regina Harders
- A 06-12 "Purine"omic alterations predict mortality following severe head injury
Nathan Strogulski

A07 - Neuronal plasticity & behaviour

- A 07-01 Selective deletion of beta2* nicotinic acetylcholine receptors in prefrontal cortex regulates specific social response
Alice Abbondanza
- A 07-02 Cellular mechanism underlying increased brain volume in L-DOPA-induced dyskinesia mouse model
Yoshifumi Abe
- A 07-03 CBD-enriched Cannabis extract induces neuroplastic changes in the hippocampus of long-term treated male rats
Andrey Aguiar
- A 07-05 Investigating the neuronal ensembles encoding valence in the laterodorsal tegmentum
Ricardo Bastos-Gonçalves
- A 07-06 Glutamatergic mechanisms underpinning stress-induced vulnerability to cocaine abuse in BDNF Met prodomain carriers
María Julieta Boezio
- A 07-07 Selective implications of ATM and ATR kinases in hippocampal neurons
Sabrina Briguglio, Clara Cambria Flavia Antonucci
- A 07-08 Exploring the Involvement of the Laterodorsal Tegmentum in Reward and Aversion Processing
Barbara Coimbra,
- A 07-09 High-fat diet induces memory impairment and alteration of protein synthesis in the hippocampus of mice
Anna Conceição
- A 07-10 SILDENAFIL DUAL EFFECTS ON MEMORY. SEARCH FOR A PHARMACODYNAMIC MODEL FOR DERIVATIVES WITH RESTRICTED ACCESS TO THE BRAIN.
Maria Florencia Constantin
- A 07-11 Spaced learning improved memory persistence in elementary-school students.
Julieta Correa



POSTER SESSION A / TUESDAY, AUGUST 08

- A 07-12 D2-MSN projections from the Nucleus Accumbens to the Ventral Pallidum are implicated in anxious-like behavior
Raquel Correia
- A 07-13 Forget about It! Potential Role of Rac1 in the VTA as an Active Forgetting Mechanism for a Consolidated Aversive Memory
Juliana Dalto
- A 07-14 Microglia depletion prevents lactation by inhibition of prolactin secretion
Árpád Dobolyi
- A 07-15 Encoding of valence by nucleus accumbens neurons
Ana Verónica Domingues
- A 07-17 The potential role of histone methylation in the development of Major Depression Disorder resilience phenotype.
Nicole Taís Fröhlich
- A 07-18 Transcriptional lability of brain oxytocin receptor (Oxtr) generates diversity in brain OXTR distribution and social behaviors.
Qi Zhang
- A 07-19 Maternal nematode infection positively influences development of hippocampal long-term potentiation in the juvenile mouse pup
Sophia Noel

A08 - Clinical studies, biomarkers & imaging

- A 08-02 Brain gene expression association with [18F]FDG-PET signal
Luiza Santos Machado
- A 08-03 Association of dysregulated noradrenergic response and cognition in schizophrenia
Rogerio Panizzutti
- A 08-04 Identification and characterization of plasma/CSF biomarkers for empowering the progression risk in cerebral amyloid angiopathy
Giuliana Pollaci

A09 - Glia and neuron-glia interactions

- A 09-01 Serotonin1A-Receptor-mediated signaling in Astrocytes and its influence on Major Depressive Disorder
Svenja Bremshey
- A 09-02 Visualizing live myelinic channels for a mechanistic understanding of myelin wrapping
Daryan Chitsaz
- A 09-03 THE ROLE OF MINOCYCLINE THERAPY ON THE LIVER OF RAT INDUCED WITH ISCHEMIC STROKE BY COMMON CAROTID ARTERY OCCLUSION.
Chukwu Bright



POSTER SESSION A / TUESDAY, AUGUST 08

- A 09-05 Chemogenetic activation of Gq-signaling in astrocytes modulates functional connectivity and improves spatial pattern separation
Alycia M. Crooks
- A 09-06 Astrocyte senescence is associated with an altered nuclear envelope morphology and composition
Isabella Damico
- A 09-07 ADENOSINE A2A RECEPTORS CONTROL THE ALTERATIONS OF ASTROCYTIC AQUAPORIN-4 UNDER STRESS CONDITIONS
Liliana Dias
- A 09-08 Aging promotes an increase in mitochondrial fragmentation in astrocytes.
Luan Diniz
- A 09-09 Naringin rescues visual deficits by modulating ocular oxidative stress and astrocytic activation in glaucomatous rats.
Adedamola Fafure
- A 09-10 Role of sphingolipids in fractalkine mediated myelin repair
Sara Grassi
- A 09-11 Licochalcone E, a β -amyloid aggregation inhibitor, promotes M1 to M2 microglia polarity via inhibition of CTL1 function
Masato Inazu
- A 09-12 Neuron-microglia interaction during Parkinson's disease: the role of the cytokine CCL21
Flavia Lima
- A 09-13 Functional characterization of DNA methylation in the transcriptional regulation of glutamate glial transporters
Jaqueline Loaeza

A10 - Neurodegeneration and neuropsychiatric disorders

- A 10-01 Black seed oil reverses chronic antibiotic-mediated depression and social behaviour deficits
Mujeeb Adedokun
- A 10-02 From the molecular hallmarks to motor behavior: characterization of a new transgenic mouse model for Spinocerebellar Ataxia type 2
Inês T. Afonso
- A 10-03 Investigating the Impact of Apolipoprotein E4 on Amyloid and Tau Pathology in an Alzheimer's Disease Mouse Model
Aya Arrar
- A 10-04 Evaluation of Antioxidant, Anti-inflammatory, and Anticholinesterase Activities of Selected Medicinal Plants Used in Dementia
Soliu Atunwa
- A 10-05 Brain ischemia and metabolism of amyloid precursor protein
Eva Babusikova



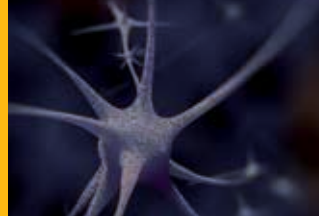
POSTER SESSION A / TUESDAY, AUGUST 08

- A 10-06 Myricitrin elevates striatal dopamine levels via Monoamine oxidase inhibition: therapeutic implication against Parkinson's disease
Chayan Banerjee
- A 10-07 Ceramide synthesis in Alzheimer's Disease; From small extracellular vesicles to the development of the pathology in a mouse model.
Melina Bellotto
- A 10-08 ASTROGLIAL ACTIVATION AND INSULIN RESISTANCE COMPRISE A JOINT RESPONSE IN EXPERIMENTAL ALZHEIMER'S DISEASE
Melisa Bentivegna
- A 10-09 FastProtAct - FAST-throughput phenotypic assay to identify compounds with PROTeostasis ACTivity.
Daniela Vilasboas-Campos
- A 10-10 Schizophrenic patients hiPSC-derived astrocytes impair synaptic engulfment by induced microglial-like cells (iMGs) in vitro
Pablo Leal Cardozo
- A 10-11 Evaluation of the effect of sarcosine in animal model of Alzheimer's disease
Raphaela Chiareli
- A 10-12 Mutant Androgen Receptor Alternative Translation Initiation as novel strategy to block toxicity in SBMA.
Marta Chierichetti
- A 10-13 Correction of mTORC1-mediated brain protein synthesis rescues memory in mouse models of Alzheimer's disease
Danielle Cozachenco
- A 10-15 Pre-clinical evaluation of phosphonate analogues of lanthionine ketenamine as potential therapies for neurological disorders.
Travis Denton
- A 10-16 Oligodendroglial Ank3 in paranodal maintenance and etiology of bipolar disorder
Xiaoyun Ding
- A 10-17 Neurosteroid Ganaxolone attenuates β -amyloid toxicity through activating Liver X receptor in Alzheimer's disease
Divya Goel
- A 10-18 Investigation of adeno-associated virus as a therapeutic approach for Alzheimer's disease
Tayna Ferreira
- A 10-19 Nigella sativa OIL MODULATED MK801-INDUCED SCHIZOTYPY IN BALB/c MICE
Royhaan Folarin
- A 10-20 Lysosome orchestrates autophagy and integrated stress response: new insights from Sephin1
Giulia Frapporti
- A 10-21 Intersectional approaches for probing sex differences in dopamine neuron resilience
Zachary Freyberg



POSTER SESSION A / TUESDAY, AUGUST 08

- A 10-22 Depletion of neurodegeneration-associated protein TDP-43 perturbs cellular energy metabolism in motor neurons
Ismail Gbadamosi
- A 10-23 AXONAL REGENERATION MEDIATED BY EXTRACELLULAR VESICLES OF NEURAL STEM CELLS IN RESPONSE TO ISCHEMIA.
Fernando H Real
- A 10-24 PIP3 interacts with alpha-synuclein and initiates its aggregation of Parkinson's disease-related fibril polymorphism
Kensuke Ikenaka
- A 10-25 Brain translational control and eIF2B in the pathophysiology of major depressive disorder
Alinny Isaac
- A 10-26 The mTORC 2 signaling and functions in neurotoxicity induced by 1-methyl-4-phenylpyridinium (MPP+) and 6-hydroxydopamine (6-OHDA)
Marija Jeremic
- A 10-27 GLABRIDIN ATTENUATES TiO₂NP INDUCED BEHAVIOURAL AND MOLECULAR CHANGES IN ADULT ZEBRAFISH
Karamjeet Kaur
- A 10-29 An antioxidant and anti-ER stress combination therapy alleviates post-TBI neurodegeneration
Charles K Davis
- A 10-30 Modulation of microglial phagocytosis of amyloid beta via lipids
Izabela Lepiarz-Raba
- A 10-31 THE ROLES OF KOLAVIRON ON THE BRAIN OF ADULT FEMALE WISTAR RATS EXPOSED TO ALUMINIUM CHLORIDE
Folashade Lewu
- A 10-32 Modeling non-motor symptoms in Parkinson's disease: Systematic review and behavioral characterization in rats
Cleiton Lopes-Aguiar
- A 10-33 Molecular signatures of inherited Frontotemporal Dementia with TDP-43 aggregates converge upon lipid metabolic dysfunction
Oana Marian
- A 10-34 The antidyskinetic potential of cannabigerol in an animal model of tardive dyskinesia
Rafaela Moraes
- A 10-35 Exploring the potential therapeutic impact of Trmt2a modulation in Spinocerebellar ataxia type 3 / Machado-Joseph Disease
Tiago Moreira-Gomes
- A 10-36 Amelioration in Enriched Environment and acute administration of aqueous-methanolic Extract of Garlic on mice model of depression
Philemon Paul Mshelia
- A 10-37 Development of brain-penetrating peptide therapeutics for neurodegenerative diseases
Azin Amin



POSTER SESSION A / TUESDAY, AUGUST 08

- A 10-38 Limited Therapeutic Impact of Intermittent Fasting and Ketogenic diets in a Mouse Model of Spinocerebellar Ataxia Type 3
Cármén Vieira
- A 10-39 GM1 oligosaccharide acts as a mitochondrial modulator: implication in neurological diseases
Giulia Lunghi
- A 10-40 Therapeutic potential of tauroursodeoxycholic acid in stress-related brain pathologies
Rita Nóbrega-Martins
- A 10-41 Neurodegeneration-induced activation of adult neurogenesis in hippocampus of Alzheimer's disease modelled rat brain
Konstantin Yenkovyan

A11 - Intracellular organelles and trafficking

- A 11-01 Microtubule dynamics determines DRG axon asymmetry and regenerative capacity
Ana Catarina Costa
- A 11-03 Tau phosphorylation impedes functionality of protective tau envelopes
Eva Lanska

A12 - Stem Cells and regeneration

- A 12-01 Treatment with hyperbaric oxygen reduces death of immature neurons in the adult hippocampal dentate gyrus following brain injury
Rada Jeremic
- A 12-02 Cannabidiol and its neurogenic potential as a novel target for Rett Syndrome
Diogo M. Lourenço
- A 12-03 Run, brain, run! In vitro and in vivo modulation of adult oligodendrogenesis by BDNF
Joana M Mateus
- A 12-04 TARGETING MIR-145 ENHANCES REMYELINATION AND RECOVERY IN A MOUSE MODEL OF MULTIPLE SCLEROSIS
Monique Marylin Alves de Almeida
- A 12-05 Mesenchymal stem cells extracellular vesicles to promote neurite outgrowth and axonal protection in vitro.
Paula Andrea Soto

A13 - Lipids and glycobiology

- A 13-01 The role of LPA6 receptor signaling in CNS myelination
Jazmín Soto-Verdugo



POSTER SESSION A / TUESDAY, AUGUST 08

A14 - Neurochemical technologies and resources

- A 14-01 Novel fluorescent probes for imaging the serotonin transporter
Oliver John Belleza
- A 14-02 In Silico Study of Bryophyllum pinnatum Leaf Phenolic Compounds Molecular Interactions with Enzymes Linked with Neurodegeneration
Olasunkanmi Omojokun
- A 14-03 Quantification of pregnanolone isomers and progesterone by liquid chromatography–tandem mass spectrometry in serum and brain
Felipe Borges Almeida

A15 - Pain / Addiction

- A 15-02 Effect of low-Dose Combination of Gabapentin and Indomethacin on Brain-Derived Neurotrophic Factor Modulation In CIA Rat Model
Zaid Abdul Razzak
- A 15-03 PLASMA LEVELS OF SEX-RELATED HORMONES AND PROTEINS IN ALCOHOL DEPENDENT SUBJECTS AND CONTROLS
Victor Karpyak
- A 15-04 Protein Parkin in Methamphetamine Use Disorder
Anna Moszczynska
- A 15-05 Tozasertib ameliorates CFA-induced inflammatory pain in rats by Modulation of KIF17/NR2B signalling
Anurag Kumar Singh
- A 15-06 Effect of positive GABAergic modulators on nucleus accumbens dopamine in rats treated with cocaine
William Norbey Sanchez Luna

A16 - Other topics

- A 16-01 The role of zinc in amyotrophic lateral sclerosis development: a toxicogenomic perspective
Katarina Živančević
- A 16-02 Ficus capensis Attenuates Anxiety-like behaviour via Inhibition of Cholinergic and Antioxidant Enzymes in Hypertensive Rats
Olufunke Ajeigbe
- A 16-03 N-Acetyl Cysteine ameliorates mitochondrial dysfunction in ischemic injury via attenuating Drp-1 mediated mitochondrial autophagy.
Mubashshir Ali
- A 16-04 Microstructural Characterization of Short Association Fibers in the Human Brain
David Edler von der Planitz
- A 16-05 Comparison of quantification techniques for assessment of astrogliosis via GFAP immunohistochemistry
Lauren Luijckink

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POSTER SESSION B / WEDNESDAY, AUGUST 09

Poster presentation by authors between 10:30 – 11:00 on Wednesday, August 09

Poster presentation by authors with odd numbers between 16:30 – 17:30 on Wednesday, August 09

Poster presentation by authors with even numbers between 17:30 – 18:30 on Wednesday, August 09

Poster presentation by authors between 10:00 – 10:30 on Thursday, August 10

Poster presentation by authors between 10:00 – 10:30 on Friday, August 11

B01 - Gene regulation & genetics

- B 01-01 A novel RNA-targeted therapeutic approach against Tau-driven neuronal pathology in Alzheimer's and Down syndrome brain pathologies
Carlos Campos-Marques
- B 01-03 MODAFINIL AFFECTS GLUTAMINE SYNTHETASE AND NEUTRAL AMINO ACID TRANSPORT ACTIVITY IN CEREBELLAR GLIAL CELLS
Janisse Silva-Parra
- B 01-04 Genetic polymorphism of GABA transaminase affects opioid-induced somnolence in patients with cancer pain
Mizuho Sumitani

B02 - Signal transduction & synaptic transmission

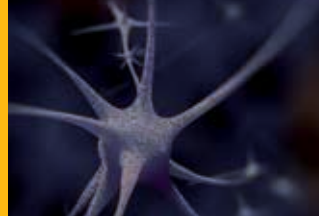
- B 02-01 Novel steroid-based allosteric modulators of M1-muscarinic receptors
Jan Jakubik
- B 02-02 Characterization of a novel MDMA derivative 1,3-Benzodioxolylbutanamine (BDB) and its structural analogs.
Nina Kastner
- B 02-03 Molecular Biomimicry and the Synthetic Synapse: Engineering a Stable Synaptogenic Extracellular Matrix
Timothy Kenned
- B 02-04 sDarken – Genetically encoded serotonin sensor
Martin Kubitschke
- B 02-05 Dopamine and cyclic AMP regulate AKT phosphorylation in the developing avian retina
Roberto Paes-de-Carvalho
- B 02-06 In vitro and in vivo anti-convulsant activity of hydromethanolic extract and fractions of *Pterolobium stellatum*
Samson Sahile Salile
- B 02-07 Activation of the β_2 -adrenoceptor induces calcium-dependent exocytosis of synaptic vesicles at the mouse neuromuscular junction
Kivia Santos
- B 02-08 Development of perineuronal net - like structures at cochlear inner hair cells of the mouse
Melanie Schulz
- B 02-09 Effect of microtubule polymerization on the structure of postsynaptic density
Tatsuo Suzuki



POSTER SESSION B / WEDNESDAY, AUGUST 09

B03 - Neuroinflammation & neuroimmunology

- B 03-01 Tramadol upregulates hypothalamic BMAL1 gene expression and modulates lipid-immune signalling in sleep-deprived rats
Smart Mbagwu
- B 03-02 Cannabinoid receptor CB2 antagonist SR144528 blocks LPS/IFN-gamma-induced microglial activation in a CB2 independent manner
Bolanle Fatimat Olabiyi
- B 03-03 Evaluation of the Neuroprotective Potential of Trans-Cinnamaldehyde in a Rat Model of Insulin Resistance
Samson Olorunnado
- B 03-04 Effect of Moringa oleifera supplemented diets on cognition and inflammations in the Brain of diabetic rats treated with Acarbose
Idowu Oyeleye
- B 03-05 A novel hexapeptide AIDS attenuates Spike S1-associated behavioral and neuronal inflammation in invitro and in vivo models
Ramesh Kumar Paidi
- B 03-06 Carbon Monoxide Modulation of Microglia-Neuron Communication: Anti-Neuroinflammatory and Neurotrophic Role
Inês Paiva
- B 03-07 Anti-VCAM-1 following stroke in obese mice leads to reduced neuroinflammation, infarct volume, and improved functional recovery
Todd Peterson
- B 03-08 Effects of selective TGF β 1- /2- receptor inhibition in an in-vitro glial scar model
Luise Schlotterose
- B 03-09 Extracellular vesicles derived from mesenchymal stromal cells as a treatment for sepsis-associated encephalopathy
Maria Barbosa-Silva
- B 03-10 Ameliorative Potential of Furanocoumarins Against Acute and Chronic Pain: Synthesis, Biological studies and Molecular Docking
Gurjit Singh
- B 03-11 Olfactory dysfunction precede motor impairment and neurochemical alterations in the rat model of multiple sclerosis
Andjela Stekic
- B 03-12 Role of LRRK2-G2019S mutation in neuroinflammatory pathways
Camila Tiefensee-Ribeiro
- B 03-13 Spatiotemporal profile of myocardial infarction-induced brain alterations
Lotte Vanherle
- B 03-14 Hypothalamic changes caused by Zika virus in adult mice
Emanuelle V de Lima



POSTER SESSION B / WEDNESDAY, AUGUST 09

- B 03-15 Brain-gut interaction originate from intestinal lipid sensor suppresses the PGD2-microglia-neuroinflammation cycle
Keisuke Yoshikawa
- B 03-16 Toll-like receptor 8 – the role of an innate immune receptor in neuronal excitability
Alice Santagostino

B04 - Molecular basis of disease

- B 04-01 Dopamine agonist post-treatment offers neuroprotection against ischemic stroke injury in rats.
Pooja Kaushik
- B 04-02 Dehydroascorbic acid accumulation affects neurite length, which is partially prevented by RIPK1 inhibition
Rocío Magdalena
- B 04-03 ApoER2 trafficking and Reelin signaling are affected by AP-4 deficiency: Implications for Hereditary Spastic Paraplegia
Maria-Paz Marzolo
- B 04-04 Effects of spinal cord injury and tamoxifen in skeletal muscle physiology
Jorge D. Miranda
- B 04-05 Gene targeting therapies for LBSL
Christina Nemet
- B 04-06 Molecular and cellular responses to neurotoxic stimuli by human brain slice cultures
Giovanna Nogueir
- B 04-07 Nitric oxide as a novel therapeutic target for autism spectrum disorder (ASD): Focus on Cntnap2 (Caspr-2) mouse model
Shashank Kumar Ojha
- B 04-08 High-fat diet and its effects on altered S1P signaling after stroke
Lisa Porschen
- B 04-09 Increasing the Vitamin C transporter SVCT2 in microglia suppresses pathology and cognitive impairment in Alzheimer's Disease
Camila Cabral Portugal
- B 04-10 The role of H3K9 and H3K27 trimethylations in animals susceptible to Major Depression
Luana Possa
- B 04-11 STUB1 mutants effect on TBP behaviour in digenic spinocerebellar ataxia type 17
Paola Pramaggiore
- B 04-12 Mutation of key residues in the human serotonin receptor 5HT1A modifies ligand-mediated conformational patterns.
Agustin I. Robles
- B 04-13 Antibody assisted biochemical isolation and conformational analysis of native Alzheimer's relevant A β oligomers
Adriano Sebollela



POSTER SESSION B / WEDNESDAY, AUGUST 09

- B 04-14 Development of An In Vitro Model of Depression Using Three-Dimensional Neural Culture
Mi Kyoung Seo
- B 04-15 The circadian clock of glioblastoma and the role of its microenvironment in tumor progression
Laura Trebucq
- B 04-16 Prenatal programming of autism spectrum disorder: bisphenol A and aromatase-directed male brain development.
Kristina Vacy
- B 04-17 Loss of FMRP delays Perineuronal Net formation through the regulation of aggrecan mRNA poly(A) tail length
Heleen van 't Spijker,
- B 04-18 CD44 Exon Variants Dysregulation in Brodmann Area 9 of Patients with Bipolar Disorder
Marin Veldic
- B 04-19 Senescent astrocytes show cytoskeleton remodeling directed to the production of the Senescence-Associated Secretory Phenotype
Cristopher Andres Villablanca
- B 04-20 Testing a new strategy to treat acute ischaemic stroke
Ashfaqul Hoque

B05 - Brain development & cell differentiation

- B 05-01 Cortical neurogenesis and maturation of the prenatal brain in the Greater Cane Rat (*Thryonomys swinderianus*).
Oluwaseun Mustapha
- B 05-02 Floor plate derived netrin-1 is an instructive long-range guidance cue for commissural axons in the embryonic spinal cord
Melissa Pestemalciyan
- B 05-03 Effects of Bisphenol-A (BPA) on Mitochondrial Trafficking in Rat Brain Hippocampus
Phoolmala
- B 05-04 Microglia and behavior ontogeny:sex-specific effects of infant stress in physiological developmental patterns of prepubescent mice
Bruna Resende
- B 05-05 Adult neural stem cells migration, astrogenesis and neuronal differentiation are regulated by RXR activation in vitro
Carolina Saibro-Girardi
- B 05-06 Mechanosensor TRPV2 channel promotes remodeling of actin cytoskeleton in developing neurons
Koji Shibasaki
- B 05-07 Effects of Bisphenol-A(BPA) on proteasome system in the rat brain hippocampus
Sangh Jyoti Singh



POSTER SESSION B / WEDNESDAY, AUGUST 09

- B 05-08 Changes in NMDAR subunit concentration in the hippocampus upon chemically induced LTP and LTD during developmental growth spurts
Torstein Landaas Skjervold,
- B 05-09 Uncovering Mitochondrial properties as novel targets for neural stem cell differentiation in the Subventricular Zone
Rita Soares
- B 05-10 Tension-driven axon elongation triggers cytoskeleton and membrane remodelling
Sara Sousa
- B 05-11 Impact of modulation of adenosine A2A receptor and BDNF signaling on neuronal development in a cellular model of Rett Syndrome
Ana Laura Duarte

B06 - Bioenergetics & metabolism

- B 06-01 Altered brain energy metabolism related to astrocytes in Alzheimer's disease
Kosei Hirata
- B 06-02 Modulation of ATP and creatine phosphate levels in cultured primary astrocytes
Gabriele Karger
- B 06-03 Association of the FNDC5 rs1746661 single nucleotide polymorphism with brain glucose hypometabolism in elderly humans
Ricardo Lima-Filho
- B 06-04 Involvement of brain glucose machinery in the [18F]FDG-PET signal
Christian Limberger
- B 06-05 Astrocytes clear mutant huntingtin aggregates through cannabinoid-activated autophagy
Israel Manjarrés-Raza
- B 06-06 Enantiomer selective actions of the ketone body, beta-hydroxybutyrate, on autophagy and proteostasis during ischemic stroke
Lourdes Massieu,
- B 06-07 Altered metabolism in the aged corpus callosum could be related to the loss of myelin and axons
Gonzalo Mayorga-Weber
- B 06-08 Metabolic profiling of fibroblasts derived from healthy donors and ALS patients bearing the p.G376D mutation in the TARDBP gene
Elisa Perciballi
- B 06-09 Competent astrocytic mitochondria are necessary for whole-body energy metabolism regulation in high-fat diet-fed mice
Zeinab Rafiee
- B 06-10 Transcriptomic analysis reveals mitochondrial pathways associated with distinct behavioral phenotypes and adolescent stress
Thamyris Santos-Silva



POSTER SESSION B / WEDNESDAY, AUGUST 09

B 06-11 Inhibition of G6PDH and pentose phosphate pathway-dependent processes by G6PDi-1 in cultured primary astrocytes
Patrick Watermann

B07 - Neuronal plasticity & behaviour

- B 07-01 What is the relationship between ibogaine and NMDAR/GABAAR expression in male and female rats after cocaine-CPP exposure?
Nubia Heidrich
- B 07-02 Role of Amyloid Beta in Memory Consolidation Utilizing Behavioral Tagging Model
Medha Kaushik
- B 07-03 The Sound of Silence – How Hibernation affects the Auditory Pathway
Jonas Lohmann
- B 07-04 ROLE OF ADENOSINE A2A RECEPTORS IN THE CONTROL OF SYNAPTIC SENESENCE UPON AGEING
Cátia R. Lopes
- B 07-05 Renin-Angiotensin System plays a role in motor coordination and learning impairment after experimental mild traumatic brain injury
Caroline Machado
- B 07-06 Neurotrophin-3/TrkC contribution to fear extinction and regulation of glutamatergic synapses
Gianluca Masella
- B 07-07 Caffeine as a driver of plasticity: impact on adult neurogenesis and synaptogenesis
João B. Moreira
- B 07-08 Psychobiotics ameliorates trauma-related behaviors in a model of comorbid post-traumatic stress disorder and alcohol use disorder
Kate Nebo
- B 07-10 Glutamine transporter SAT1 deficiency promotes anxiety-like behavior in mice: element in neurotransmitter imbalance hypothesis?
Mariusz Poppek
- B 07-11 Countering chronic stress with cannabinoid type 2 receptors and physical exercise: a neurogenic focus
Rui S Rodrigues
- B 07-12 Genetic inhibition of NF- κ B in Nucleus Accumbens core prevents chronic stress-induced facilitation of cocaine self-administration.
Marianela Sanchez
- B 07-14 Whole-brain c-Fos mapping in appetitive learning
Magdalena Sobieć
- B 07-15 A Behavioral-Tagging account of spaced learning: contribution of ERK1/2 kinases to memory formation upon spaced spatial training.
Ramiro Tintorelli1
- B 07-16 Heterogeneity of cholinergic activities during multi-modal learning
Yang Yang



POSTER SESSION B / WEDNESDAY, AUGUST 09

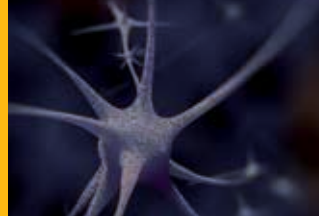
- B 07-17 Serotonin receptors 2A activity in the rat mPFC promotes Retrieval-Induced Forgetting in rats by modulating dCA1
Maria Belen Zanon Saad

B08 - Clinical studies, biomarkers & imaging

- B 08-01 Connectomics on the cellular level: Informing DWI through 3D EM and Light Microscopy
Philip Ruthig
- B 08-02 Heterogeneous microglial response to cancer cells visualized by in vivo imaging model.
Takahiro Tsuji
- B 08-03 Integrated spatial transcriptome and metabolism study reveals immunol and metabolic heterogeneity of human injured brain
Ping Zheng

B09 - Glia and neuron-glia interactions

- B 09-01 Age-related functional changes in the glutamate-glutamine cycle and synaptogenic capacity of astrocytes
Isadora Matias
- B 09-02 Transferrin-loaded EVs enter OPCs by the intranasal route accelerating the remyelination process in a mouse model of demyelination
Vanesa Soledad Mattera
- B 09-03 Expression and malignant role of an extracellular matrix integrin $\alpha 8 \beta 1$ POEM/NPNT in glioblastoma
Naoko Morimura
- B 09-04 Mixed ginger and garlic juice attenuates astrocytic response and other markers of hippocampal function in lead-induced rats
KENNETH OPARAJI
- B 09-05 A2A receptor expression in different cell types provides information on the central role of the neuronal receptor in synaptogenesis
Solen Rimbart
- B 09-06 Astrocyte-origin α -TIMP-1 corrects cognitive deficits by restoring synaptic plasticity in 5xFAD mouse model of Alzheimer's disease
SUKANYA SARKAR
- B 09-07 Manipulating astrocyte cholinergic signaling to improve cognition in an Alzheimer's disease mouse model
Scheila Schmidt
- B 09-08 Glutathione modulates the release of gliotransmitters from primary cortical astrocytes
Mateus Silva
- B 09-09 Ethanol gestational exposure impairs blood-brain barrier development and alters DNA methylation on brain endothelial cells
Michele Siqueira



POSTER SESSION B / WEDNESDAY, AUGUST 09

- B 09-10 Glial neurotransmitter transporters in retinal Müller cells: Role in excitotoxicity
Temitayo Subair
- B 09-11 The role of astrocytes in V2L neuronal remodeling following vision loss
Ikuko Takeda
- B 09-12 Investigating the Role of ATF4 in Astrocyte Reactivity and Neurodegeneration
Elizabeth Tennyson
- B 09-13 Oligodendroglial UNC5B regulates the organization of paranodal junctions and modification of myelin during aging
Nonthué Uccelli
- B 09-14 Alterations in astrocytic K⁺ clearance during neurodegeneration
Yossi Buskila

B10 - Neurodegeneration and neuropsychiatric disorders

- B 10-01 Molecular mechanism of novel anti-phospho-tau serine 396/404 scFv antibody on reversal of Tau pathology in Alzheimer's disease
Pei Ying Ng
- B 10-02 Defects in mitochondrial plasticity of directly reprogrammed human neurons to APOE4 and Alzheimer's disease
Sandra A Niño
- B 10-03 Targeting Stress Inducible Phosphoprotein 1 can reduce α -Syn and TDP-43 mixed pathologies in synucleinopathy and ALS mouse models.
Vladislav Novikov
- B 10-05 Co-Exposure To Chronic Stress And Metals In Rats: Impact on Memory Functions, Neurochemical and Immunohistochemical Alterations
Oritoke Okeowo
- B 10-06 Fluoranthene exposure altered behavior, suppressed neuronal antioxidant defense system and induced neurodegeneration in *C. elegans*
Tosin Olasehinde
- B 10-07 Nickel-induced neurodegeneration in the hippocampus, striatum and cortex; an ultrastructural insight, and the role of caspase-3
Sunday Yinka Olatunji
- B 10-08 Serotonergic signaling modulation as a therapeutic approach for spinocerebellar ataxia type 3: unveiling the molecular pathways
Stéphanie Oliveira
- B 10-10 Curcumin abrogates cobalt-induced memory impairment by modulating neuroinflammation, Microgliosis, and Bcl2 expressions
RADEMENE ORIA
- B 10-11 S100B and endothelin-1: peripheral markers of social stress-induced blood-brain barrier dysfunction?
Karolina Orzeł-Gajowik,



POSTER SESSION B / WEDNESDAY, AUGUST 09

- B 10-12 Polyaromatic hydrocarbons (PAHs) in PM2.5 contributes to olfactory-brain-induced glial cells activation and neurodegeneration
Samir Ranjan Panda,
- B 10-13 Recovered astrocyte-vascular communication in the hippocampus of AD-mice after glycan-binding protein Galectin-1 treatment
Jessica Presa
- B 10-15 Regulating epilepsy by manipulation of hippocampal VIP-expressing interneurons
Sadeqh Rahimi
- B 10-16 AAV-mediated overexpression of miR-146a in primary cortical neurons promotes neurite outgrowth and regeneration
Vinicius Toledo Ribas
- B 10-17 THE B2-ADRENERGIC AGONIST FORMOTEROL IS CAPABLE OF INCREASING THE NEUROMUSCULAR JUNCTION AREA OF A NEW MURINE MYASTHENIA MODEL
Leonardo Rossi
- B 10-18 Biological and computational evaluations of novel aminochalcones as neurodegenerative therapeutics
Waralee Ruankham
- B 10-19 Targeting abnormal chaperone activity in a mouse model of synucleinopathy to mitigate cognitive deficits
Rodrigo Sandoval
- B 10-20 Beneficial effects of targetting IL10 signalling in diabetes induced capillary stalling and cognitive deficits in mice
Sorabh Sharma
- B 10-21 Could the Combination of Two Non-Psychotropic Cannabinoids Counteract Haloperidol Catalepsy?
Núbia Silva
- B 10-22 The role of tau protein in the regulation of translational stress response
Joana Margarida Silva
- B 10-23 Deciphering the neurodegeneration and disease mechanisms caused by impaired choline transport
Tiago Silva
- B 10-24 Pharmacological effect of Carvacrol against poly (I: C) induced neuropsychiatric disorder in mice.
Ramu Singh
- B 10-25 Glucosylceramide dysfunction and glucosylated sterols unbalance are associated to gut damage in mice models for neurodegeneration
Chiara Sinisgalli
- B 10-26 Pias4 regulates the homeostasis of the tau protein
María Clara Sokn
- B 10-27 Proteomic investigation on unmasking of neurotoxicity in rechallenged adult rats prenatally exposed to lindane
Ankita Srivastava



POSTER SESSION B / WEDNESDAY, AUGUST 09

- B 10-28 Hunger-promoting hypothalamic AgRP neurons control structure and function of the medial prefrontal cortex
Bernardo Stutz
- B 10-29 Intra-axonal autophagosome biogenesis impairment in Alzheimer's disease
Emanuel Tahiri
- B 10-30 Disruption of dystonin gene in the sensory circuit is responsible for movement disorders in dystonia musculorum mice
Hirohide Takebayashi
- B 10-32 Consistent circulating microRNA signatures of childhood trauma in humans: Implications for long-term sequelae and propagation
Weronika Tomaszewska
- B 10-33 INPP5D modulates TREM2 loss-of-function phenotypes in a β -amyloidosis mouse model
Taisuke Tomita
- B 10-34 Altered SOD1 maturation and post-translational modification in familial and sporadic ALS spinal cord motor neurons
Benjamin Trist
- B 10-35 Latex of *Calotropis procera* ameliorates muscle function restoration after sciatic nerve lesion induction in mice.
Shamaila Zafar
- B 10-36 Intermittent theta burst stimulation improves motor and non-motor symptoms in the 6-hydroxydopamine model of Parkinson's disease
Milica Zeljkovic Jovanovic

B11 - Intracellular organelles and trafficking

- B 11-01 Age-dependent Changes of Cerebral Copper Trafficking in a Mouse Model of Tauopathy assessed by $^{64}\text{CuCl}_2$ PET/CT
Fang Xie
- B 11-02 Tau – a master regulator of recycling synaptic vesicle clustering at the presynapse
Shanley F. Sanders

B12 - Stem Cells and regeneration

- B 12-01 Exploring the intersection between the light/dark cycle, circadian timing and neural stem cell regulation
Pedro Ozorio Brum

B14 - Neurochemical technologies and resources

- B 14-02 Carbon Fiber Multielectrode Array Biosensor for Multiplexed Measurements of Neurochemicals
Alexander Zestos,



POSTER SESSION B / WEDNESDAY, AUGUST 09

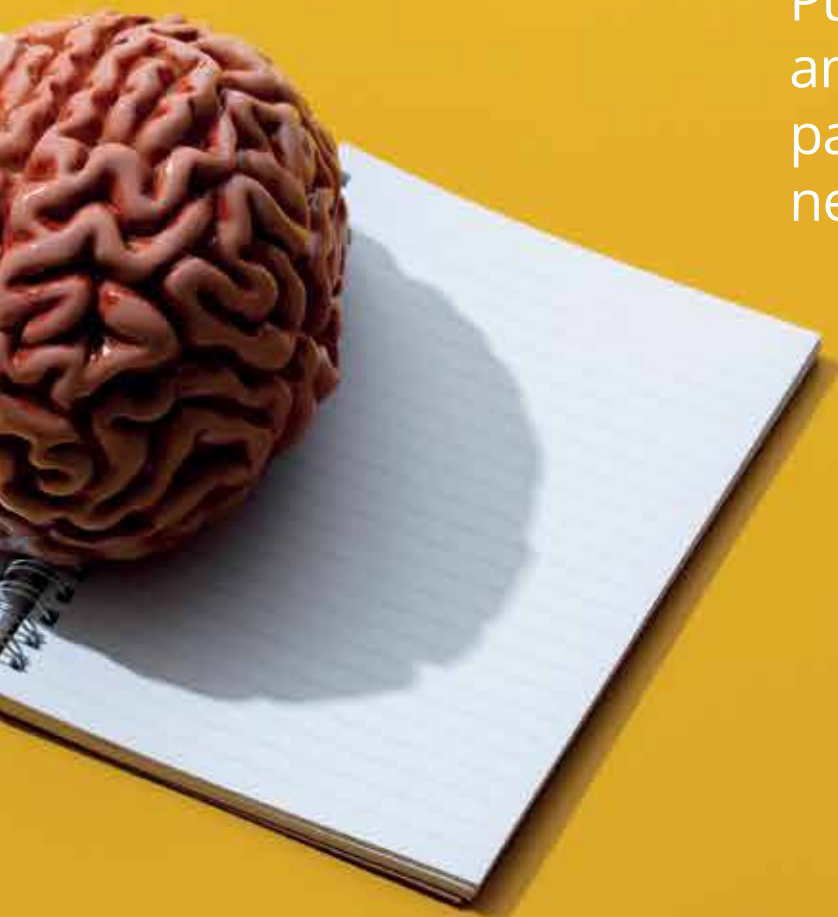
B15 - Pain / Addiction

- B 15-01 PARTICIPATION OF NITRIC OXIDE SIGNALING WITHIN THE MEDIAL PREFRONTAL CORTEX IN THE EXPRESSION OF COCAINE SENSITIZATION
Maria Fernanda Ponce Beti
- B 15-02 SGIP-1 protein deletion enhances WIN 55,212-2 inhibitory effect on nociceptive transmission
Monica Pontearso
- B 15-03 Different effects of anandamide (AEA) and AEA precursor 20:4-NAPE administration on nociceptive synaptic transmission
Diana Spicarova
- B 15-04 ROLE OF THE KCTD16 PROTEIN IN MODULATION OF NOCICEPTION AND NEUROPATHIC PAIN
Daniel Vasconcelos

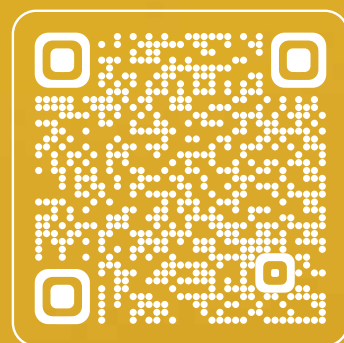
B16 - Other topics

- B 16-01 Investigating orexin involvement in stress-induced binge eating in female mice
Muthmainah Muthmainah
- B 16-02 Remodulating effect of Elateriospermum tapos yoghurt in mitigating anxiety like behavior and recognition index in F1 generation
Ruth Naomi
- B 16-03 Persistent binding at dopamine transporters determines sustained psychostimulant effects
Marco Niello
- B 16-04 Role of vitamin C in primary brain tumors
Eder Ramírez
- B 16-05 Investigating the properties and behavioural roles of RXFP3+ zona incerta/lateral hypothalamus neurons
Brandon Richards
- B 16-06 Vanadium Administration Ameliorates Cortical Structural and Functional Changes in Juvenile Hydrocephalic Mice
Funmilayo Olopade

Student or Early-Career Postdoc?



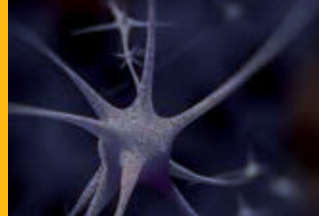
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OPTIONAL NETWORKING EVENTS PROGRAM

WELCOME RECEPTION

TUESDAY, AUGUST 8, 19:00 – 20:00 | ALFANDEGA DO PORTO / QUAY & NOBLE HALL
Please join us for the official ISN-ESN 2023 Welcome Reception at Alfandega Da Porto. All participants and social guests are welcome to join this networking event.

RECEPTION AT POSTER AREA

TUESDAY, AUGUST 8, 17:00 – 19:00 | Poster Area
WEDNESDAY, AUGUST 9, 16:30 – 18:30 | Poster Area

Don't miss these great opportunities to view the poster presentations, chat with the exhibitors and mix and connect with your colleagues from all around the World. All participants are welcome to join these special events.

FAREWELL CELEBRATION

FRIDAY, AUGUST 11, 19:30 – 22:30 | PORTO LEIXÕES CRUISE TERMINAL*

Meet colleagues and international experts outside the session halls, at Porto Leixões Cruise Terminal. Don't miss this great opportunity to mix, mingle and build connections that will last you a lifetime!

All participants and social guests are welcome to join this networking event.

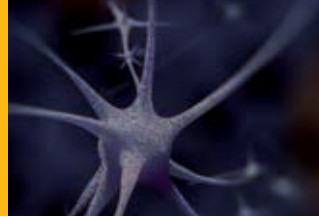
*There will be shuttle buses from / to meeting venue, Alfandega do Porto.



TRAVEL AWARDEES

Congratulations to the following young investigators for the ISN-ESN 2023 Meeting travel awards:

Adedamola Fafure	Nigeria	Leonardo Rossi	Brazil	Oren Princz Lebel	Canada
Adrienne Watson	Canada	Liliana Dias	Portugal	Pablo Leal Cardozo	Brazil
Aisha Ameen	Denmark	Lisa Porschen	Sweden	Paola Pramaggiore	Italy
Alana de Castro Panzenhagen	Brazil	Lorenzo Campanelli	Argentina	Patrick Watermann	Germany
Alessia Amenta	Italy	Lotte Vanherle	Sweden	Pedro Ozorio Brum	Austria
Alinny Isaac	Brazil	Luan Diniz	Brazil	Pei Ying Ng	Malaysia
Alycia Crooks	Canada	Luana Chagas	Brazil	Philemon Mshelia	Nigeria
Andjela Stekic	Serbia	Luana Possa	Brazil	Philip Ruthig	Germany
Andrey Aguiar	Brazil	Luca Ballotto	Italy	Phoolmala Phoolmala	India
Antonia Harders	Germany	Lucas Silva	Brazil	Ping Zheng	China
Arvie Abiero	Australia	Luis Dinamarca Villarroel	Chile	Pooja Kaushik	India
Bárbara Coimbra	Portugal	Luise Schlotterose	Germany	Rada Jeremic	Serbia
Benjamin Trist	Australia	Luiz Bastos Mendes	Brazil	Rademene Oria	Nigeria
Brandon Richards	Australia	Luiza Machado	Brazil	Rafaela Moraes	Brazil
Bruna Resende	Brazil	Mafalda Abrantes	Portugal	Rafaella de Lima Corrêa	Ferreira Brazil
Camila Tiefensee-Ribeiro	Canada	Magdalena Sobieñ	Poland	Ramesh Kumar Paidi	United States
Carlos Marques	Portugal	Mani Bhargava	India	Ramiro Tintorelli	Argentina
Carolina Girardi	Brazil	Marco Niello	Italy	Ramu Singh	India
Caroline Machado	Brazil	Maria Constantin	Argentina	Raphaela Chiarelo	Brazil
Cátia Lopes	Portugal	Maria Zanon Saad	Argentina	Raquel Correia	Portugal
Charles Ducrot	France	María Sokn	Argentina	Rebecca San Gil	Australia
Charles Kozhikkadan Davis	United	Maria Carolina Barbosa Silva	Brazil	Regina Fernandez	United States
States Chayan Banerjee	India	María Fernanda Ponce Beti	Argentina	Ricardo Bastos-Gonçalves	Portugal
Christian Limberger	Brazil	Maria Julieta Boezio	Argentina	Riley Bessetti	United States
Christian Arend	Germany	Marialuisa de Ceglia	Spain	Rita Martins	Portugal
Cory White	United States	Mariana Chauvet	Brazil	Rita Soares	Portugal
Cristina Martín-Monteaagudo	Spain	Marianela Sanchez	Argentina	Roberta Goncalves Anversa	Australia
Daniela Campos	Portugal	Marija Adžić Bukvić	Serbia	Rocio Magdalena	Chile
Danielle Cozachenco	Brazil	Marija Jeremic	Serbia	Rodrigo Sandoval	Canada
Daryan Chitsaz	Canada	Marina Chichierchio	Brazil	Rui Rodrigues	France
Diego Acuña	Chile	Marta Cozzi	Italy	Sadegh Rahimi	Austria
Diogo Lourenco	Portugal	Martin Kubitschke	Germany	Samir Panda	India
Divya Divya	India	Mateus Silva	United States	Samson Salile	Ethiopia
Eder Ramírez	Chile	Matisse Jacobs	Australia	Samson Olorunnado	Rwanda
Elisa Perciballi	Italy	Maxwell Blesdel Adassi	Cameroon	SANGH SINGH	India
Elisa Corti	Portugal	Medha Kaushik	India	Saurabh Bhargava	India
Elizabeth Tennyson	Canada	Melanie Schulz	Germany	Scheila Schmidt	Canada
Elyas Arvell	Australia	Melina Bellotto	Argentina	Sean Morrison	Australia
Emanuelle Vasconcellos de Lima	Brazil	Melisa Bentivegna	Argentina	Shamaila Zafar	United States
Fernando H. Real	Mexico	Melissa Pestemalciyan	Canada	Shanley Sanders	Australia
Giovanna Nogueira	Brazil	Michael Ajenikoko	Uganda	Shashank Kumar Ojha	Israel
Giulia Frapporti	Italy	Michele Siqueira	Brazil	Sienna Drake	Canada
Giulia Lunghi	Italy	Milena Tucić	Serbia	Simone Frisari	Italy
Gonzalo Mayorga-Weber	Chile	Milica Zeljković Jovanović	Serbia	Soliu Atunwa	Nigeria
Gurjit Singh	United States	Monica Pontearso	Czech Republic	Sophia Noel	Canada
Heleen van 't Spijker	United States	Monique Marilyn Alves		Sophie Debs	Australia
Helena Targa Dias Anastacio	Australia	de Almeida	Canada	Sorabh Sharma	Canada
Inês Afonso	Portugal	Mubashshir Ali	United States	Stéphanie Oliveira	Portugal
Inês Paiva	Portugal	Mujeeb Adedokun	Nigeria	Sudipta Chakraborty	India
Jessica Presa	Argentina	Muthmainah Muthmainah	Australia	Sukanya Sarkar	India
Joana Mateus	Portugal	Nawon Kim	United Kingdom	Susan Lewu	Nigeria
Joana Silva	Portugal	Nicolas Gonzalez Perez	Argentina	Svenja Bremshey	Germany
João Moreira	Portugal	Nicole Fröhlich	Brazil	Taiwo Olubodun-obadun	Nigeria
Juliana Dalto	Argentina	Nina Kastner	Austria	Tayná Ferreira	Brazil
Julieta Correa	Argentina	Nonthué Uccelli	Canada	Temitayo Subair	Mexico
Karamjeet Kaur	India	Nubia Heidrich	Brazil	Thamyris Silva	Brazil
Katarina Živančević	Serbia	Núbia Silva	Brazil	Torstein Skjervold	Norway
Kate Nebo	Nigeria	Oana Marian	Australia	Vanessa Despotovski	Australia
Kenneth Chiedozie Oparaji	Nigeria	Oliver John Belleza	Austria	Vanessa Coelho-Santos	United States
Kivia Santos	Brazil	Olufunke Ajeigbe	Nigeria	Vladislav Novikov	Canada
Kosei Hirata	Japan	Oluwaseun Mustapha	Nigeria	Xiaoyun Ding	United States
Kristina Vacy	Australia	Omojokun Seun	Nigeria	Yong Qi Leong	Malaysia
Laura Trebuçq	Argentina	Omowumi Femi-Akinlosotu	Nigeria	Zaid Abdul Razzak	Pakistan
Lauren Luijierink	Australia	Onyedikachi Ojiakor	Canada	Zeinab Rafiee	Sweden



MARK A SMITH PRIZE WINNERS

2023: João Victor Cabral-Costa

for the paper "Mitochondrial sodium/calcium exchanger NCLX modulates astrocytic glycolysis in astrocytes and impacts cognitive performance"

YOUNG SCIENTIST LECTURESHIP AWARDS

YSLA01

A next-generation optical toolkit to study neuromodulatory signaling

Tommaso Patriarchi

University of Zurich, Institute of Pharmacology and Toxicology, Zurich, Switzerland

YSLA02

Fractalkine signalling is a critical regulator of oligodendrocyte genesis and myelination in the developing and demyelinated brain

Anastassia Voronova

University of Alberta, Medical Genetics, Edmonton, Canada

YOUNG MEMBERS' SYMPOSIA AWARDS

YMS01-01 Live imaging of microglia behaviour across the life stages of the brain: From neonatal to aging

Vanessa Coelho-Santos

Seattle Children's Research Institute, Center for Developmental Biology and Regenerative Medicine, Seattle, United States

YMS01-02 Donepezil's Therapeutic Effects Are Influenced by Curcumin: A Food-Drug Interaction Approach to Alzheimer's Disease Management

Opeyemi Ogunsuyi,

The Federal University of Technology Akure, Biomedical Technology, Akure, Nigeria

YMS01-03 The role of tRNA-derived fragments in tau aggregation and propagation in Alzheimer's disease

Ami Kobayashi

Brigham and Women's Hospital, Neurology, Boston, USA

YMS01-04 Astrocytic Ensembles in Nucleus Accumbens: What Role do they Play in THC-Related Impairments?

Cristina Martín-Monteaagudo,

Cajal Institute - CSIC, Functional and Systems Neurobiology, Madrid, Spain

YMS02-01 Role of a thalamo-cortical glutamatergic projection in stress-induced binge eating in female mice

Roberta Anversa,

The University of Melbourne, Pharmacology and Biochemistry, Melbourne, Australia

YMS02-02 Cognitive and motor phenotypes induced by injection of different strains of human alpha-synuclein pre-formed fibrils in mice

Oren Princz-Lebel



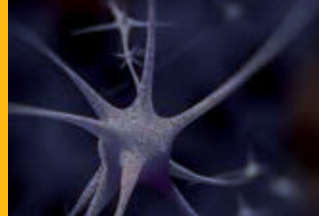
YOUNG MEMBERS' SYMPOSIA AWARDS

- YMS02-03** Therapeutical potential of 5HT1AR agonism on behavioural and neuropathology in a clinically relevant mouse model of Rett Syndrome
Daniela Monteiro-Fernandes,
Life and Health Sciences Research Institute (ICVS), School of Health Sciences, University of Minho, Braga, Portugal, ICVS, Braga, Portugal
- YMS02-04** Synaptic proteasome is inhibited in Alzheimer's disease models and is associated with memory impairment in mice
Felipe Ribeiro
Federal University of Rio de Janeiro, Institute of Medical Biochemistry, Rio de Janeiro, Brazil
- YMS03-01** Variability in Lipid Composition in the Virally Suppressed SIV-infected Macaque Brain
Cory White
Johns Hopkins University School of Medicine, Department of Molecular and Comparative Pathobiology, Baltimore, Maryland, USA
- YMS03-02** Molecular mechanisms in KIF5A-related neurodegeneration
Marta Cozzi
Università degli Studi di Milano, Dipartimento di Scienze Farmacologiche e Biomolecolari "Rodolfo Paoletti" (Dipartimento di Eccellenza 2023-2027), Milan, Italy
- YMS03-03** Targeting TRPA1/TRPV1 with Bergenin: Mitigating Chemotherapy-Induced Neuropathy and Neuroinflammation
Akhilesh
Akhilesh , Department of Pharmaceutical Engineering and Technology, Indian Institute of Technology (Banaras Hindu University) , Varanasi, 221005 (U.P.) , India
- YMS03-04** Induced pluripotent stem cell derived neurons from Alzheimer's disease patients show elevated Ca²⁺ responses to AMPA
Helena Anastacio,
University of Wollongong, School of Chemistry and Molecular Bioscience, Wollongong, Australia
- YMS04-01** The TNF- α signalling in the rapid plasticity of visual system following monocular enucleation.
Luana Chagas
Federal Fluminense University, Department of Neurobiology and Program of Neurosciences, Niterói, Brazil
- YMS04-02** R- and S-Ketamine modulate microglia reactivity and gene expression in lipopolysaccharide (LPS)-induced depression model
Adriano Chaves-Filho^{1,2}
¹ Federal University of Ceará, Physiology and Pharmacology, Fortaleza, Brazil
² University of Victoria, Division of Medical Sciences, Victoria, Canada
- YMS04-03** Fractalkine enhances oligodendrogenesis and remyelination from central nervous system precursor cells
Adriane ES Watson^{1,2}
¹ University of Alberta, Medical Genetics, Edmonton, Canada
² University of Alberta, Women & Children's Health Research Institute, Edmonton, Canada
- YMS04-04** Microglia in brain organoids exhibit different immune responses if developed innately versus microglia integrated by co-culture
Tyler J Wenzel,
University of Saskatchewan, Psychiatry, College of Medicine, Saskatoon, Canada



ISN EMERGING GROUP LEADER AWARD

- EGLS01-01 Apolipoprotein E signaling in Alzheimer's disease: mechanisms and novel drug targets
Abdel Ali Belaidi
- EGLS01-02 Energy Matters: Resetting synptoenergetics is a new mechanistic target for the anti-bipolar actions of lithium
Sunan Li
- EGLS01-03 Photopharmacological control of inhibitory brain receptors
Galyna Maleeva
- EGLS01-04 Neuroligins induce dendritic outgrowth in an ICAM5-dependent manner
Luís F Ribeiro
- EGLS02-01 Identification of a novel protein-degradation pathway by lysosomes required for neuromuscular homeostasis
Yuuki Fujiwara
- EGLS02-02 Genetic and functional maps of neuronal ensembles encoding associative learning
Carina Soares-Cunha
- EGLS02-03 Selective endocytosis of Ca²⁺-permeable AMPARs by the Alzheimer's disease risk factor CALM controls synaptic plasticity
Domenico Azarnia Tehran
- EGLS02-04 Nerve injury induced deregulation of microRNAs differentially involved in neuropathic pain vs. peripheral nerve neuroregeneration
Theodora Kalpachidou
- EGLS03-01 Unraveling the link between microglia metabolic reprogramming, neuroinflammation and neurotransmission
Blanca Aldana
- EGLS03-02 A lactate-dependent shift of glycolysis mediates synaptic and cognitive processes
Ignacio Fernández-Moncada
- EGLS03-03 Epigenome reprogramming underlies cell-type specific priming of striatal gene responses in cocaine relapse
Philipp Mews
- EGLS03-04 Exploring the role of $\alpha 7$ nicotinic acetylcholine receptors in the medial prefrontal cortex on memory processing
VERONICA PASTOR
- EGLS04-01 Using animal models in stuttering research
Shahriar SheikhBahaei
- EGLS04-02 Axonal neurotransmitter release regulates myelination in vivo – insights from zebrafish
Rafael Almeida



ISN EMERGING GROUP LEADER AWARD

EGLS04-03 SHANK3: an autism spectrum disorder associated gene
Patricia Monteiro

EGLS04-04 Uncovering the genome-wide effects of intermittent fasting on chromatin modulation and transcription to improve brain health
Asaf Marco



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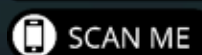
- you will be a member of a highly interactive and supportive network of scientists;
- multiple options to actively contribute to the development of Neurochemistry in Europe by:
 - submitting Workshop and Symposium proposals for ESN conferences;
 - suggesting candidates for the ESN Young Scientist Lectureship Award;
 - becoming an organizer of an ESN Conference;
 - becoming a member of the ESN Council;
- you become an ISN and FENS member for free;
- reduced registration fees for ESN Conferences, biennial ISN Meetings, biennial FENS Forum and other FENS meetings;
- free access to Journal of Neurochemistry, and ISN higher education and training initiatives;
- free access to European Journal of Neuroscience, FENS higher education and training initiatives and FENS travel stipends.

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