



TOGETHER FOR SCIENCE

ISN-ASN MEETING

NEW YORK CITY, USA
AUGUST 19-22, 2025

Program Book

Organized by:



ISN
International Society
for Neurochemistry

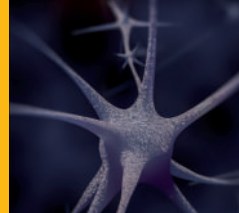
Jointly with:



American Society
for Neurochemistry
The Latest in Molecular and
Cellular Neurobiology in the Americas

www.neurochemistry.org

#ISNASN2025 | #WeAreNeurochemistry



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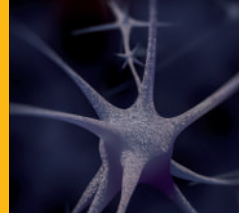
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ISN OFFICERS AND COUNCIL

Officers

President, Caroline (Lindy) Rae, Australia
Secretary, Babette Fuss, USA
Treasurer, Alessandro Prinetti, Italy
Treasurer-Elect, Vladimir Parpura, China

Council

Past President, Flávia Gomes, Brazil
Company Secretary, Monica Carson, USA
Chair of Publications Committee, Anthony J. Turner, UK
Historian / Archivist, Ralf Dringen, Germany
ISN Council Member, João M N Duarte, Sweden
ISN Council Member, Christian González-Billault, Chile

ISN Council Member, Jean-Pierre Mothet, France
ISN Council Member, Cheah Pike-See, Malaysia
ISN Council Member, Vania Prado, Canada
ISN Council Member, Ago Rinken, Estonia
ISN Council Member, Constanze Seidenbecher, Germany
ISN Council Member, Akio Wanaka, Japan
Re-elected ISN Council Member, Amadi Ihunwo, South Africa
ISN Council Elect, Itsuki Ajioka, Japan
ISN Council Elect, Erhard Bieberich, USA
ISN Council Elect, Arturo Ortega, Mexico

ASN OFFICERS AND COUNCIL

Officers

President, Michael Nichols, USA
Secretary, Donna Osterhout, USA
Treasurer, Steven Barger, USA

Councilors

Alternate, Stefka Spassieva, USA
Historian, Anne Boullerne, USA
Historian Emeritus, George DeVries, USA
ASN Councilor, Katrina Adams, USA
ASN Councilor, Elena Blanco-Suarez, USA
ASN Councilor, Ukpong Eyo, USA
ASN Councilor, Sergio Ferreira, Brazil

ASN Councilor, Bonnie Firestein, USA
ASN Councilor, Randy Stout, USA
ASN Councilor, Shinghua Ding, USA
ASN Councilor, Timothy Kennedy, Canada
ASN Councilor, Sarah Lutz, USA
ASN Councilor, Jessica MacDonald, USA
ASN Councilor, Arturo Ortega, Mexico
ASN Councilor, Tracy Tran, USA
ASN Councilor, Wilma Friedman, USA
ASN Councilor, Joshua Burda, USA
ASN Councilor, Dianna Hynds, USA
ASN Councilor, Seema Tiwari-Woodruff, USA

PROGRAM COMMITTEE & LOCAL HOST COMMITTEE

Program Committee- ISN-ASN meeting 2025

Program Chair, Maria Abbracchio, Italy
Past-Program Chair, Cheah Pike See, Malaysia
ISN President, Caroline (Lindy) Rae, Australia
ISN Treasurer, Alessandro Prinetti, Italy
ISN Secretary, Babette Fuss, USA
ASN Treasurer, Steven Barger, USA
ASN Secretary, Donna Osterhaus, USA
ASN President, Michael Nichols, USA
JNC EiC, Andrew Lawrence, Australia
Christian Gonzales-Billaut, Chile
Jessica L. MacDonald, USA

Sergio Ferreira, Brazil
Astrid Cardona, Canada
Michael Kreutz, Germany
Kenji Tenaka, Japan
Shengzhou Wu, China
Shane Liddelow, USA
Mychael Lourenco, Brazil
Eugenio Barone, Italy
Alfred Njamnshi, Cameroon
Selva Baltan, USA

Local Host Committee

Chair, Haesun Kim	Holly Colognato
Caroline (Lindy) Rae	Bonnie Firestein
Alessandro Prinetti	Peng Jiang
Babette Fuss	Steven Levison
Karen Chandross	Shane Liddelow
Peter Canoll	Carmen Melendez

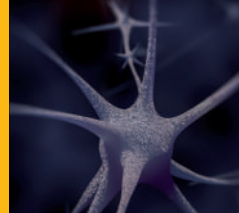
Hiroko Nobuta
Elia Scemes
David C. Spray
Randy Stout
Ching-On Wong



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ISN-ASN-2025 WELCOME LETTER

We are pleased to welcome you to ISN-ASN 2025, the joint meeting of the International Society for Neurochemistry (ISN) and the American Society for Neurochemistry (ASN), held in New York, one of the most diverse and vibrant cities in the world, known for its iconic landmarks, bustling streets, and multicultural neighborhoods.

We are excited to get together with colleagues, long known and newly to be discovered, from around the world to share the latest advances in neurochemistry. This meeting offers an engaging and cutting-edge scientific program that reflects the versatility, innovation, and depth of our field.

Across four days of lectures, symposia, workshops, and poster sessions, ISN-ASN 2025 brings together established leaders and emerging scientists to exchange ideas, explore new directions, and spark collaborations that will shape the future of our discipline. Our commitment to nurturing the next generation is reflected in the Emerging Group Leaders Symposia, Young Members' Symposia, Young Scientist Lectureship Awards, and interactive poster sessions - platforms that highlight exceptional work from talented researchers at various levels of early career stages.

It is our mission to continue to foster neurochemistry research, open collaboration, international dialogue, and a shared commitment to scientific progress. This meeting stands as a powerful expression of that commitment—bringing together minds from across the globe to learn, connect, and reaffirm the essential role of science as an instrument of social progress and peace.

Outside the lecture halls, we invite you to enjoy the rich cultural and social offerings of New York City. We hope that the connections you make here, both scientific and personal, will be lasting and impactful.

Thank you for being part of ISN-ASN 2025. We wish you a stimulating, rewarding, and enjoyable meeting.



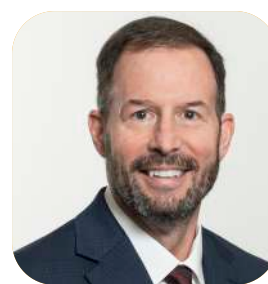
Maria Abbracchio
(Program Chair)



Caroline (Lindy) Rae
(ISN President)



Haesun Kim
(Local Host Chair)



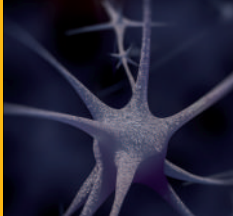
Michael Nichols
(ASN President)



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WELCOME MESSAGE FROM MAYOR



THE CITY OF NEW YORK
OFFICE OF THE MAYOR
NEW YORK, NY 10007

August 19, 2025

Dear Friends:

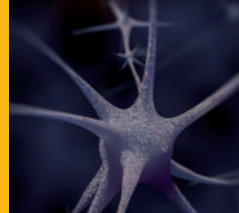
It gives me great pleasure to welcome everyone to New York City as the International Society for Neurochemistry (ISN) and the American Society for Neurochemistry (ASN) host their annual meeting.

New York has always been at the forefront of progress in the fields of medicine, science, and technology. This week's conference at Manhattan's Javits Center will feature networking events, expert speakers, panel discussions, and specialized sessions where academics, scientists, and graduate students from around the world can exchange knowledge, learn more about the latest advancements and concepts, and foster a spirit of unity and support within the vital discipline of neurochemistry. I applaud the organizers and participants of this comprehensive symposium for their efforts to advance understanding of the brain and nervous system through education, partnerships, and research. Together, we will continue to #GetStuffDone and ensure that our great city remains a global hub of discovery and innovation.

On behalf of the City of New York, please accept my best wishes for an inspiring and productive convention and further success.

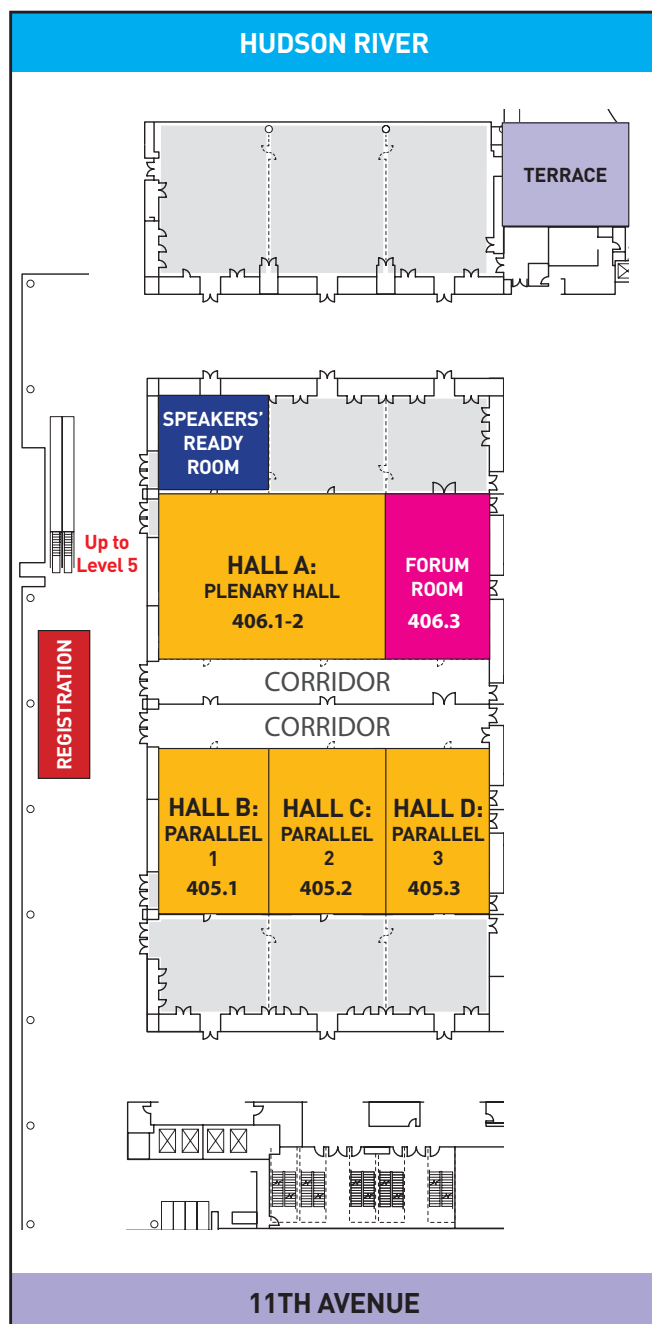
Sincerely,

Eric Adams
Mayor

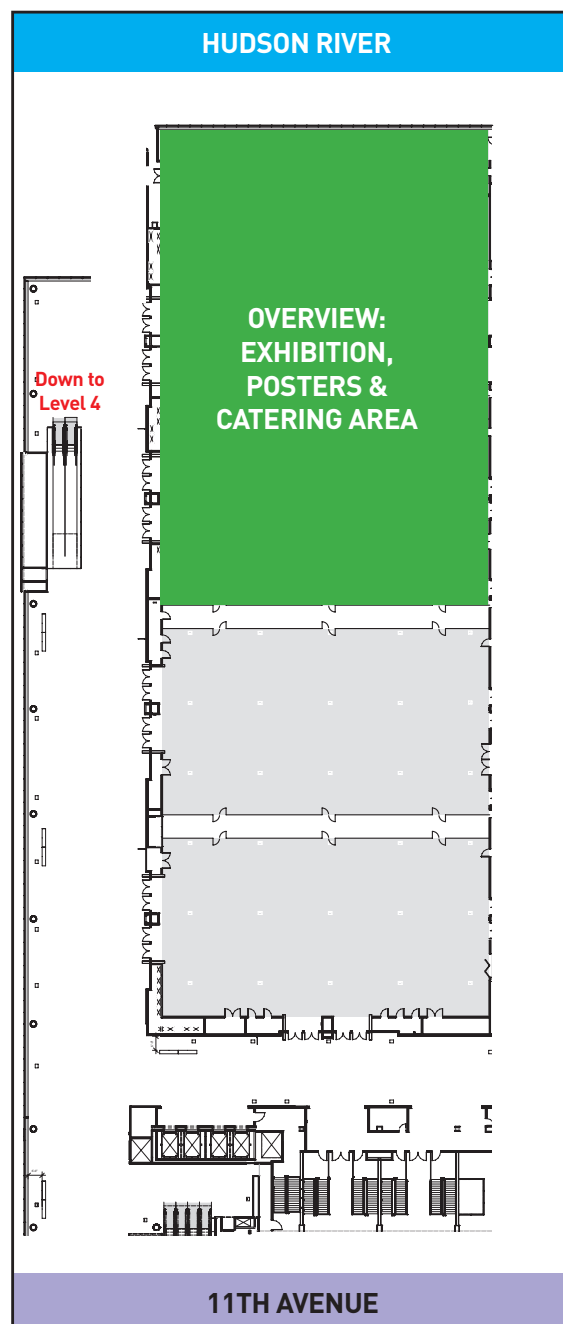


VENUE FLOOR PLAN

LEVEL 4



LEVEL 5

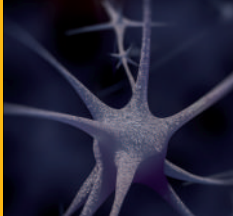




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ISN-ASN 2025 MOBILE APPLICATION

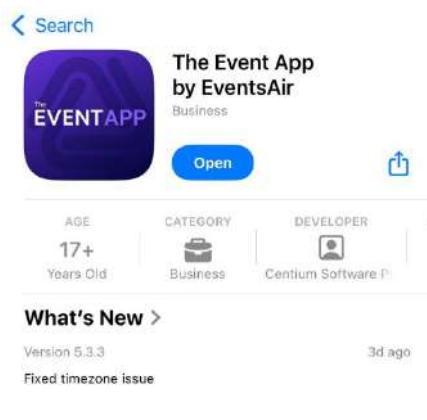
Application Name: Event App by EventsAIR



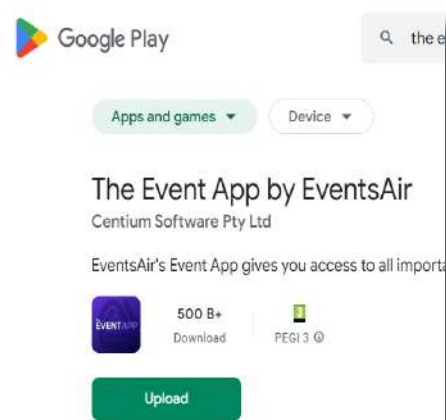
Download from
IOS/App Store



Download from
Android/Google Play



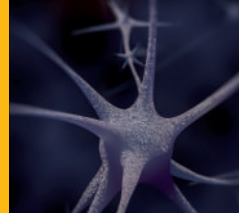
Please download the application
to your mobile phone.



Please download the application
to your mobile phone.

The event code is **isnasn25**

To login the mobile app, please use the credentials that have been
sent to you via e-mail before the meeting



GENERAL INFORMATION

MEETING VENUE

North Javits Center

445 11th Avenue, New York City

Website: www.javitscenter.com

Javits Area Guide: <https://www.business.nyctourism.com/meeting-planners/javits-area-guide>

LANGUAGE

The official language of the Meeting is English.

REGISTRATION DESK HOURS

18 August 2025, Monday	14:00 – 16:00
19 August 2025, Tuesday	08:00 – 19:00
20 August 2025, Wednesday	08:00 – 17:00
21 August 2025, Thursday	08:15 – 13:00
22 August 2025, Friday	08:45 – 14:00

SPEAKERS READY ROOM HOURS

19 August 2025, Tuesday	08:00 – 17:00
20 August 2025, Wednesday	08:00 – 17:00
21 August 2025, Thursday	08:00 – 13:00
22 August 2025, Friday	08:30 – 16:30

POSTER VIEWING AND PRESENTATION TIMES

19 August 2025, Tuesday

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

17:00 – 19:00 Posters Session A

20 August 2025, Wednesday

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

17:30 – 19:30 Poster Session B

21 August 2025, Thursday

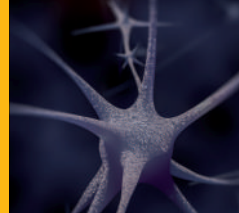
10:30 – 11:00 Poster Viewing A&B (Coffee Break)

22 August 2025, Friday

11:00 – 11:30 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. There will be badge scanning to enter all sessions.



GENERAL INFORMATION

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.

There will be an official photographer throughout the meeting; these pictures will be published.

WIFI

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

USERNAME: ISN2025 **PASSWORD:** NewYork2025

MOBILE APP

There will be an official ISN-ASN 2025 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 is **isnasn25**. To login to the mobile app, please use the credentials that have been sent to you via e-mail before the meeting.

ABSTRACTS

Abstract titles and allocations will be accessible and searchable to all delegates through the Abstract Book on the ISN Website.

ONLINE JOURNAL PUBLICATION

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

COFFEE BREAKS

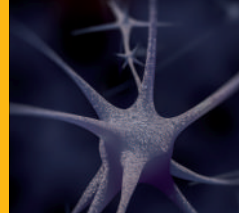
Coffee, tea, and light refreshments will be served to all participants in the Exhibition and Poster Area on **Level 5** as indicated in the timetable.



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GENERAL INFORMATION

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 and must be accompanied by an adult all the time. Badges provided at registration are required for entrance into all functions and will be strictly enforced.

SOCIAL GUEST ATTENDANCE POLICY

Social Guests may attend the Welcome Reception and the Farewell Celebration only. They are not allowed to enter scientific sessions including poster sessions. Badges provided at registration are required for entrance into all functions and will be strictly enforced.

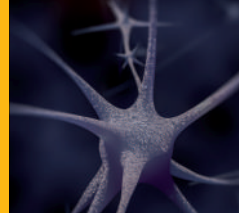
LIABILITY AND INSURANCE

The Meeting Secretariat and Organizers 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-ASN 2025 MEETING SECRETARIAT



ISN-ASN Meeting Office:
ISN Secretariat Office
Contact: secretariat@neurochemistry.org
Website: www.neurochemistry.org



INFORMATION FOR PRESENTERS

ORAL PRESENTATIONS

You are kindly requested to deliver your presentation at least **3 hours before** the start of your session (not before your individual talk) to the **Speakers' Ready Room**. If your presentation is early in the morning, you are strongly encouraged to deliver 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 on a **USB key**. Due to the networking system, the internet connection will not be available to download your presentation to the computers in Speakers' Ready Room.

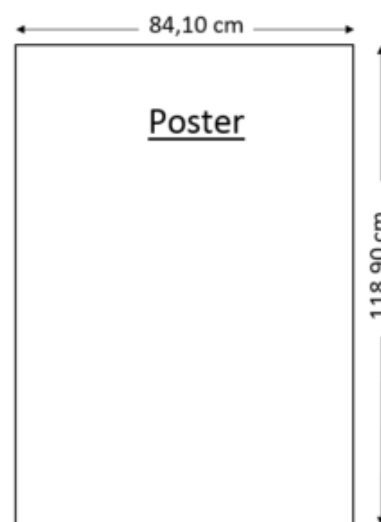
If you are a Mac user and wish to use your own computer, you are obligated to **bring your connection cable/adaptor** with you and **notify the Speakers' Ready Room a day before your presentation**.

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 07:30 on August 19, Tuesday**. Please make sure you hang your poster **by 17:00**. Posters must be taken down **on August 22, Friday between 15:00 and 17:00**. Posters not taken down 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 **84 cm wide x 118 cm high (33 inches x 46 inches)**. The paper should be **A0 size**. 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 to hang the posters.



August 19, 2025, Tuesday

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

17:00 – 19:00 Posters Session A

August 20, 2025, Wednesday

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

17:30 – 19:30 Poster Session B

August 21, 2025, Thursday

10:30 – 11:00 Poster Viewing A&B (Coffee Break)

August 22, 2025, Friday

11:00 – 11:30 Poster Viewing A&B (Coffee Break)

15:00 – 17:00 Take down all posters

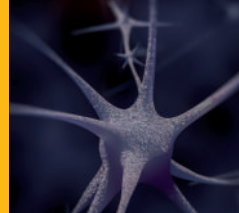
Authors are kindly requested to stand next to their poster boards, where possible, during the dedicated poster session viewing times. Authors are responsible for setting up and removing their posters. Posters not taken down from the board on time will be discarded



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BUSINESS MEETINGS

ISN BUSINESS MEETING - WEDNESDAY, AUGUST 20, 16:30-17:30 | PLENARY HALL

Please note that only ISN members can vote at Business Meeting

ASN BUSINESS MEETING - THURSDAY, AUGUST 21, 13:00-14:00 | PLENARY HALL

Please note that only ASN 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 ASN look forward to engaging with their members at the Business Meetings.

Career Support Grant

Supports young ISN members with funds for research supplies, small equipment, or ISN conference travel, helping them grow their research and move towards independence.



www.neurochemistry.org

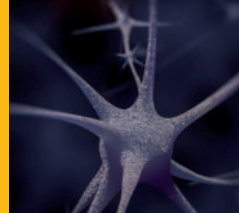
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MEETING PROGRAM

Tuesday 19 August, 2025				
Time	Hall A - Plenary Hall 406.1-2	Hall B - Parallel 1 405.1	Hall C - Parallel 2 405.2	Hall D - Parallel 3 405.3
08:45 - 09:15	Opening Ceremony			
09:15 - 10:00	Plenary Session Chair: Caroline (Lindy) Rae <i>PL01 Magdalena Götz (Germany)</i> Heterogeneity of organelles in neural development, disease and repair			
10:00 - 11:00	Emerging Group Leaders S01 Chair: Amadi Ihunwo Co-Chair: Delilah Hendriks (Netherlands) <i>EGLS01-01 Federico Salas Lucia (USA)</i> Thyroid Hormone Regulates Fetal Neurogenesis <i>EGLS01-02 Delilah Hendriks (Netherlands)</i> Novel human brain organoid models unravel progenitor behavior characteristics and preneoplasia susceptibility <i>EGLS01-03 Evan Goldstein (USA)</i> Pathogenesis and repair mechanisms of neonatal brain injury	Emerging Group Leaders S02 Chair: Joao Duarte Co-Chair: Vladimir Grubisic (USA) <i>EGLS02-01 Luan Pereira Diniz (Brazil)</i> Astrocytic mitochondrial dynamics in aging <i>EGLS02-02 Vladimir Grubisic (USA)</i> Enteric glia as friends and foes of the intestinal epithelial functions <i>EGLS02-03 Marina Garcia-Macia (Spain)</i> Brain-to-brown fat crosstalk to modulate the symptoms of a neurodegenerative disease	Emerging Group Leaders S03 Chair: Flavia Gomes Co-Chair: Caterina Michetti (Italy) <i>EGLS03-01 Philemon Paul Mshelia (Nigeria)</i> The role of BDNF-TrkB signalling in the synaptic expression of NMDA receptors in pilocarpine model of temporal lobe epilepsy <i>EGLS03-02 Caterina Michetti (Italy)</i> Social regression: from a latent synaptopathy to an overt dysfunctions in multisensory social processing <i>EGLS03-03 Rebecca San Gil (Australia)</i> Modifying toxic TDP-43 aggregation in amyotrophic lateral sclerosis	Emerging Group Leaders S04 Chair: Ago Rinken Co-Chair: Alejandro Villarreal (Argentina) <i>EGLS04-01 PASCHALIS THEOTOKIS (Greece)</i> Synthetic Thyroid Hormone Analog DITPA Promotes Myelin Repair in Neuroinflammation <i>EGLS04-02 Joana Margarida Silva (Portugal)</i> The role of tau in the regulation of translational stress response and its importance for brain pathology <i>EGLS04-03 Alejandro Villarreal (Argentina)</i> Astrocyte response after cold injury in mice: new insights into tissue response to brain edema with focus on epigenetic mechanisms
11:00 - 11:30	COFFEE BREAK / POSTER SESSION A&B / EXHIBITION			

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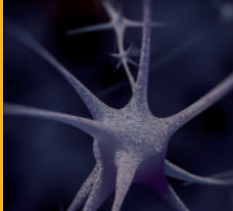
Plenary Lecture	Symposium	Emerging Group Leaders
Young Members Symposia	Young Scientist Lectureship	Business Meetings



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Time	Hall A - Plenary Hall 406.1-2	Hall B - Parallel 1 405.1	Hall C - Parallel 2 405.2	Hall D - Parallel 3 405.3
11:30 - 13:30	S04 T#5 Maternal Immune Activation and the Embryonic Brain Development Chair: Eduardo Bouth Sequerra (Brazil) S04-01 Maria Lehtinen (United States) Contributions of the choroid plexus and cerebrospinal fluid to maternal immune activation in developing brain S04-02 Xianhua Piao (United States) Microglial mechanism of interneuron development and deficit S04-03 Hiroake Wake (Japan) Microglia in psychiatric pathology with maternal infection S04-04 Eduardo Bouth Sequerra (Brazil) Exchange of maternal immune cells and embryonic neural cells in the congenital zika virus syndrome	S02 T#3 Immune dysregulation and clinical heterogeneity in Parkinson's disease Chair: Anna Carta (Italy) Co-Chair: Marina Romero-Ramos (Denmark) S02-01 Marina Romero-Ramos (Denmark) The peripheral immune profiles in Parkinson's disease: relevance of disease subtypes and stages S02-02 Caroline Williams-Gray (United Kingdom) Neuroinflammation and dementia risk in Parkinson's disease S02-03 Anna Carta (Italy) Central and peripheral immune responses to alpha-synuclein oligomers S02-04 Lucas Salas (United States) Dysregulated Immune Responses in the Periphery of Early-Stage Parkinson's Disease: Insights from a Molecular Epidemiologist	S03 T#4 ASN Jordi Folch Pi Award Emerging approaches to translate neurological disease mechanisms to the clinic Chair: Lisa Marie Julian (Canada) Co-Chair: Tim Hammond (United States) S03-01 Tim Hammond (United States) Unraveling the role of neuroinflammation in neurodegenerative disease using human iPSC tri-cultures S03-02 Omer Bayraktar (United Kingdom) Mapping the rules of glioblastoma using single cell and spatial genomics S03-03 Joao Pereira (United States) Organoid models of ALS S03-04 Lisa Marie Julian (Canada) Modeling neurodevelopmental onset of rare genetic diseases with region-specific brain organoids	S01 T#15 Pain, Emotion, and Drugs: Short-Circuiting the Nervous System Chair: Tuan Trang (Canada) Co-Chair: Giannina Descalzi (Canada) S01-01 Giannina Descalzi (Canada) Sex-specific astrocyte dependent neuroplasticity of the cingulate cortex is critical for the development of chronic pain S01-02 Michelle Roche (Ireland) Neuroimmune crosstalk in stress-induced hyperalgesia S01-03 Xiaoke Chen (United States) Deconstruction of a spinal-brain-spinal circuit drives chronic mechanical pain S01-04 Tuan Trang (Canada) Opioid medications alter locus coeruleus to spinal cord circuitry
13:30 - 15:00	LUNCH BREAK			

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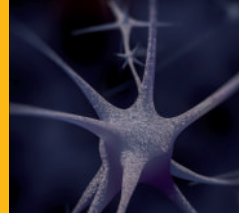
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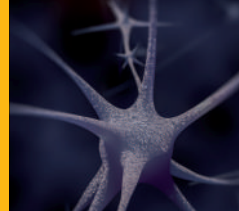


MEETING PROGRAM

Tuesday 19 August, 2025				
Time	Hall A - Plenary Hall 406.1-2	Hall B - Parallel 1 405.1	Hall C - Parallel 2 405.2	Hall D - Parallel 3 405.3
15:00 - 17:00	S06 T#4 Beyond adapter functions - tRNA and tRNA fragments in the CNS Chair: Katarzyna Winek (Germany) Co-Chair: Hermona Soreq (Israel) S06-01 Shahram Akbarian (United States) Regulation of glyceric tRNAs, CNS glycine metabolism and its impact on behavior S06-02 Jochen Prehn (Ireland) Role of transfer RNA fragments in epilepsy and ALS S06-03 Hermona Soreq (Israel) Transfer RNA fragments - molecular regulators in AD and PD S06-04 Katarzyna Winek (Germany) Small noncoding RNAs as fine-tuners of post-stroke immune response	S05 T#9 Advanced experimental cellular in vivo models of neurodegeneration Chair: Vincenzo De Paola (Singapore) S05-01 Florent Ginhoux (Singapore) Microglia-sufficient cerebral organoids to study neurodegeneration in Alzheimer's disease S05-02 Katerina Akassoglou (United States) Functional role of BBB disruption in inflammation and neurodegeneration S05-03 Vincenzo De Paola (Singapore) Illuminating human cortical circuit wiring and dysfunction in vivo S05-04 Li Gan (United States) Targeting neuroimmune interaction in neurodegeneration	S07 T#2 AMPA Receptors in Health and Disease Chair: Elena Blanco-Suarez (United States) Co-Chair: Elva Diaz (United States) S07-01 Elva Diaz (United States) How to change your mind: Regulation of peri-synaptic AMPARs by transmembrane auxiliary subunits S07-02 Victor Anggono (Australia) Molecular control of AMPA receptor exocytosis by the calcium- and phospholipid-binding protein Copine-6 S07-03 Mark Dell'Acqua (United States) Kinase/phosphatase regulation of Ca²⁺-permeable AMPA receptors in amyloid-β-induced synaptic dysfunction S07-04 Elena Blanco-Suarez (United States) Astrocyte-mediated AMPAR synaptic distribution in response to ischemic injuries	S08 T#10 Molecular Disease Mechanisms of Motor Neuron Disease Chair: Jeroen Pasterkamp (Netherlands) Co-Chair: Christine Vande Velde (Canada) S08-01 Jeroen Pasterkamp (Netherlands) Molecular mechanisms of repeat expansions in amyotrophic lateral sclerosis S08-02 Sami Barmada (United States) Origins and consequences of TDP43 mislocalization in disease S08-03 Stefania Corti (Italy) Modelling SMA and ALS using iPSC-derived organoid models S08-04 Christine Vande Velde (Canada) Stress granules and protein aggregation in motor neuron disease
17:00 - 19:00	Poster session A			
19:00 - 20:00	Welcome Reception			

Legend:

Plenary Lecture	Symposium	Emerging Group Leaders
Young Members Symposia	Young Scientist Lectureship	Business Meetings



MEETING PROGRAM

Wednesday 20 August, 2025				
Time	Hall A - Plenary Hall 406.1-2	Hall B - Parallel 1 405.1	Hall C - Parallel 2 405.2	Hall D - Parallel 3 405.3
08:45-09:30	Plenary Session <i>PL02 Ana Belen Elgoyhen (Argentina)</i> Chair: Michael Nichols The Brain Speaks Back to the Ear: The Efferent Olivocochlear System			
09:30 - 10:00	JNC Young Scientist Paper of the Year Award (In Honor of Mark A. Smith) Chair: Andrew Lawrence <i>MS01-01 Deniz Karabag (Germany)</i>			
10:00 - 11:00	YMS01 Young Members Symposia Chair: Constanze Seidenbecher Co-Chair: Isadora Matias (Brazil) <i>YMS01-01 Rimpi Arora (India)</i> Embelin Counters Amyloid-β Neurotoxicity, Preserves Cognitive Function in Rats: Investigating Hippocampal Neurochemical Mechanisms <i>YMS01-02 Pablo Leal Cardozo (Brazil)</i> NEGR1 gene expression modulation in APPSWE cortical brain organoids as a potential therapeutic strategy for Alzheimer's Disease <i>YMS01-03 Isadora Matias (Brazil)</i> Senescent Astrocytes Contribute to Age-Related Synaptic Decline: Insights from Mouse and Human Aging Models <i>YMS01-04 Samson Ehindero Olurunnado (Rwanda)</i> Trans-Cinnamaldehyde Mitigates Neurodegenerative Changes in the cerebrum of Insulin-Resistant Wistar Rats	YMS02 Young Members Symposia Chair: Akio Wanaka Co-Chair: Sunil Jamuna Tripathi (USA) <i>YMS02-01 Sunil Jamuna Tripathi (USA)</i> Neuroprotective effects of aminopropyl carbazole compound in Huntington's disease <i>YMS02-02 Giovanna Carella- Collar (Brazil)</i> A RELN POLYMORPHISM REDUCES TAU PATHOLOGY AND SLOWS COGNITIVE DECLINE IN LATE-ONSET ALZHEIMER'S DISEASE <i>YMS02-03 Matthew D Demmings (Canada)</i> ATF4 promotes dopaminergic neurodegeneration via a transcriptional program that inhibits mTOR activity in Parkinson's models <i>YMS02-04 Beatriz Elizabeth Nielsen (USA)</i> Alterations in M4-cholinergic signaling following dopamine loss contribute to parkinsonian and L- DOPA-induced dyskinetic behaviors	YMS03 Young Members Symposia Chair: Christian Gonzales Billault Co-Chair: Rui S RODRIGUES (France) <i>Dawn Brianna Lammert (USA) - YMS 03-01</i> Neurotransmitter metabolism after neonatal brain injury <i>Nathan Strogulski (Ireland) - YMS 03-02</i> NADPH oxidase (NOX2) drives immunometabolic reprogramming of microglial pentose-phosphate pathway after traumatic brain injury. <i>Melania González-Torres (Spain) - YMS 03-03</i> Dissecting the role of an antiviral immune response in a mouse model of Mitochondrial Neuropathology <i>Rui S RODRIGUES (France) - YMS 03- 04</i> Striatopallidal cannabinoid type-1 (CB1) receptors determine innate defensive behaviors	YMS04 Young Members Symposia Chair: Cheah Pike See Co-Chair: Cecilia Skoug (UK) <i>Serafma Dubnov (Israel) - YMS04- 01</i> A cell type atlas of short non-coding RNA from live human brain <i>Wasiu Gbolahan Balogun (USA) - YMS04-02</i> Plasma p-tau217 for early detection of amyloid pathology in older adults without impairment: evidence from community-based studies <i>Cecilia Skoug (UK) - YMS04-03</i> Hypophagia-related behaviours elicited by PPG neuron activation <i>William N. Sanchez Luna (USA) - YMS04-04</i> Heteromers of μ-opioid receptor and CRF1 receptor control glutamatergic transmission in the central amygdala
11:00 - 11:30	COFFEE BREAK / POSTER SESSION A&B / EXHIBITION			

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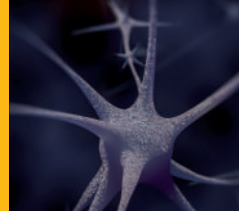
Plenary Lecture	Symposium	Emerging Group Leaders
Young Members Symposia	Young Scientist Lectureship	Business Meetings



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Time	Hall A - Plenary Hall 406.1-2	Hall B - Parallel 1 405.1	Hall C - Parallel 2 405.2	Hall D - Parallel 3 405.3
11:30 - 13:30	S09 T#9 New mechanisms and therapeutic approaches to enhance remyelination Chair: Davide Lecca (Italy) Co-Chair: Jennifer Orthman Murphy (United States) S09-01 Davide Lecca (Italy) Targeting the oligodendroglial receptor GPR17 to counteract remyelination failure S09-02 Wia Baron (Netherlands) Astrocytes as novel therapeutic targets to overcome remyelination failure in multiple sclerosis S09-03 Jason R Plemel (Canada) A diverse microglial response facilitates remyelination S09-04 Jennifer Orthmann Murphy (United States) Restoring cortical function after remyelination	S10 T#7 New roles of synaptic plasticity in brain function Chair: Antonio Rodriguez-Moreno (Spain) S10-01 Antonio Rodriguez-Moreno (Spain) Spike timing-dependent plasticity changes during critical periods of plasticity S10-02 Aušra Saudargienė (Lithuania) Rescue of impaired hippocampal synaptic plasticity in Alzheimer's disease: integration of experimental knowledge and computational modeling approach S10-03 Jeehyun Kwag (Korea) Inhibitory memory engrams shaped by synaptic plasticity S10-04 Alfonso Araque (United States) Long-term potentiation and astrocytes	S11 T#13 Lipids in the Brain: Implications for Normal and Pathological Brain Function Chair: Nicolas Vitale (France) S11-01 Sophie Laye (France) Role of early life n-3 PUFA in post-natal brain development, effects on spines and microglia S11-02 Nicolas Vitale (France) Illuminating neurosecretion: Optogenetic and click chemistry insights highlighting the multiple roles of phosphatidic acid in neurotransmitter release S11-03 Maria Ioannou (Canada) Peroxidized lipid trafficking in Alzheimer's disease S11-04 Gilbert Di Paolo (United States) Role of brain lipid dysregulation in neurodegenerative diseases	S12 T#4 Synaptic proteostasis in health and disease Chair: Emma Clayton (United Kingdom) Co-Chair: Paul Donlin-Asp (United Kingdom) S12-01 Paul Donlin-Asp (United Kingdom) Resolving the localization and dynamics of mRNA and protein synthesis within neurons S12-02 Eran Perlson (Israel) Dissolving ALS, the interplay between axonal transport and local synthesis S12-03 Emily Osterweil (United States) Fragile X: Make it or Break it S12-04 Emma Clayton (United Kingdom) Presynaptic proteostasis as a convergent pathomechanism in ALS/FTD
13:30 - 14:30	LUNCH BREAK			

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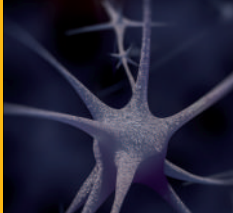
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Time	Hall A - Plenary Hall 406.1-2	Hall B - Parallel 1 405.1	Hall C - Parallel 2 405.2	Hall D - Parallel 3 405.3
14:30 - 16:30	S13 T#10 Molecular and Cellular Mechanisms for Stress-related Memory and Psychiatric Disorders Chair: Satoshi Kida (Japan) Co-Chair: Andrew Holms (United States) S13-01 Satoshi Kida (Japan) Molecular and cellular mechanisms for PTSD S13-02 Paul Frankland (Canada) Microglia-dependent regulation of fear memory extinction S13-03 Andrew Holmes (United States) Evidence from clinical and preclinical studies show that endocannabinoids modulate extinction S13-04 Anna Beyeler (France) Long-term impact of early life stress on anxiety-related behaviors and synaptic plasticity in the insular cortex	S14 T#4 Ectodomain shedding, an emerging mechanism involved in the pathophysiology of brain disorders Chair: M^a Dolores Martín-de-Saavedra Alvarez de Uribarri (Spain) Co-Chair: Peter Penzes (United States) S14-01 M^a Dolores Martín-de-Saavedra Alvarez de Uribarri (Spain) Ectodomain shedding and neurodevelopmental conditions S14-02 Katherine Roche (United States) Downstream Signaling Resulting from the Activity-Dependent Cleavage of NLGN3 S14-03 Isabel Martinez Garay (Spain) Proteolytic Processing and Nuclear Signaling of PCDH19 in Cortical Neurons S14-04 Peter Penzes (United States) Synaptic shedding in schizophrenia: from mechanisms to therapies	S22 T#5 Novel mechanisms of olfactory bulb neurogenesis in development, adulthood and disease Co-Chair: Armen Saghatelian (Canada) S22-01 Kara Goodkey (Canada) Olfactory bulb anomalies in a rare neurodevelopmental KBG syndrome mouse model and patients S22-02 Fiona Doetsch (Switzerland) On-demand adult neurogenesis for adaptive brain plasticity S22-03 Armen Saghatelian (Canada) Neural stem cells dynamics in response to micro-environmental cues S22-04 Mariana Alonso (France) Cortical feedback control of adult-born neurons in olfaction	S16 T#2 Spatiotemporal dynamics of glutamate and GABA signalling among neurons and astrocytes Chair: Dmitri Rusakov (United Kingdom) Co-Chair: Annalisa Scimemi (United States) S16-01 Annalisa Scimemi (United States) Extrasynaptic glutamate shapes synaptic inhibition in the hippocampus and striatum S16-02 Dmitri Rusakov (United Kingdom) Distinct dynamics of extracellular glutamate and GABA in response to sensory stimuli S16-03 Sarah Ackerman (United States) Neuronal activity-dependent changes in astrocyte morphology and function S16-04 Christian Henneberger (Germany) Bidirectional dysregulation of glutamate signaling after transient metabolic failure
16:30 - 17:30	ISN Annual Business Meeting			
17:30 - 19:30	Poster session B			

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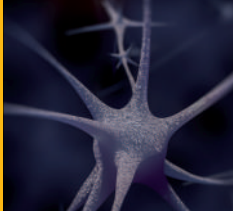
Plenary Lecture	Symposium	Emerging Group Leaders
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Thursday 21 August, 2025				
Time	Hall A - Plenary Hall 406.1-2	Hall B - Parallel 1 405.1	Hall C - Parallel 2 405.2	Hall D - Parallel 3 405.3
08:45 - 09:30	Plenary Session Chair: Haesun Kim <i>PL03 Eric Nestler (United States)</i> Transcriptional and Epigenetic Mechanisms of Drug Addiction			
09:30 - 10:00	ASN Awards Ceremony			
10:00 - 10:30		ISN Young Scientist Lectureship 01 Chair: Babette Fuss <i>YSLA01 Liubov Kalinichenko (Germany)</i> Brain acid sphingomyelinase – a sex-specific mechanism for drug addiction		ISN Young Scientist Lectureship 02 Chair: Vladimir Parpura <i>YSLA02 Carina Soares Cunha (Portugal)</i> Dynamic dynorphin signals modulate associative learning through a nucleus accumbens-ventral tegmental area circuit
10:30 - 11:00	COFFEE BREAK / POSTER SESSION A&B / EXHIBITION			
11:00 - 13:00	<i>S19 T#13 Novel roles of lipids in the brain: from dynamic compartmentation to memory and beyond</i> Chair: Nina Vardjan (Slovenia) Co-Chair: Mary C. McKenna (United States) <i>S19-01 Neal Devaraj (United States)</i> Innovative Bioconjugation Techniques Developed to Study Lipids and Lipid Modifications within Living Cells <i>S19-02 Natsumi Ageta-Ishihara (Japan)</i> Lipidation States Orchestrate CLICK-III/CaMKII's Stepwise Association with Golgi and Rafts-Enriched Membranes, and Specify its Functional Coupling to STEF-Rac1-Dependent Neurite Extension <i>S19-03 Frederic Andre Meunier (Australia)</i> Greasing the wheel of memory via a novel phospholipase A1 pathway <i>S19-04 Nina Vardjan (Slovenia)</i> Lipid Droplets: a Hallmark of Astrocyte Stress Response	<i>S18 T#6 Novel Aspects of Brain Glycogen: Exploring its Physiological and Pathological Roles</i> Chair: Jordi Duran (Spain) <i>S18-01 Matthew Gentry (United States)</i> Metabolic channeling of glycogen and signaling monosaccharides in the brain <i>S18-02 Juan Pascual (United States)</i> Synaptic activity in glucose metabolism failure <i>S18-03 Alicia Garcia (Spain)</i> Decoding brain glycogen metabolism in POMC neurons: implications for energy and glucose homeostasis and beyond <i>S18-04 Jordi Duran (Spain)</i> Lessons learned from Lafora disease: role of glycogen metabolism in GABAergic neurons in epilepsy	<i>S17 T#11 Neurochemistry of Extracellular Vesicles</i> Chair: Andrew Hill (Australia) <i>S17-01 Andrew Hill (Australia)</i> Role of Extracellular Vesicles in the nervous system <i>S17-02 Efrat Levy (United States)</i> A new perspective on the role of mitovesicles, mitochondria-derived extracellular vesicles in Alzheimer's disease <i>S17-03 Eva-Maria Krämer-Albers (Germany)</i> EVs in oligodendrocyte-neuron communication and axonal maintenance <i>S17-04 Christian Neri (France)</i> Extracellular vesicles remodeling in the context of chronic neurodegenerative insults: new insights from the study of Huntington's disease	<i>S20 T#4 Redox protein modifications, calcium signals and synaptic plasticity in Alzheimer's disease and other neurological disorders</i> Chair: Andrea Paula-Lima (Chile) Co-Chair: Rodrigo Herrera-Molina (United States) <i>S20-01 Rodrigo Herrera-Molina (United States)</i> Calcium signaling and Neuroplastin in retrograde amnesia and Neuropsychiatric Diseases <i>S20-02 Christian Gonzalez-Billault (Chile)</i> Aging and redox modifications in synaptic components as biomarkers of cognitive status in Alzheimer's disease <i>S20-03 Rogerio Panizzutti (Brazil)</i> Deregulation of excitatory neurotransmission in Alzheimer's disease <i>S20-04 Andrea Paula-Lima (Chile)</i> Redox modulation and contribution of ryanodine receptors to synaptic plasticity and spatial memory defects in Alzheimer's disease
13:00 - 14:00	ASN Annual Business Meeting			
FREE AFTERNOON				

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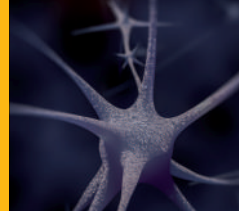
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Friday 22 August, 2025				
Time	Hall A - Plenary Hall 406.1-2	Hall B - Parallel 1 405.1	Hall C - Parallel 2 405.2	Hall D - Parallel 3 405.3
09:15 - 10:00	Plenary Session Chair: Alessandro Prinetti <i>PL04 Eunjoon Kim (Republic of Korea)</i> Synaptic dysfunction in autism spectrum disorders			
10:00 - 11:00	Marte Vogt Lecture Chair: Mariapia Abbracchio <i>MVL01 Ana Maria Cuervo (United States)</i> Selective autophagy and brain resilience to neurodegeneration			
11:00 - 11:30	COFFEE BREAK / POSTER VIEWING A&B / EXHIBITION			
11:30 - 13:30	S21 T#14 Controlling neurotransmitter receptors in behaving mice: new photochemical and chemogenetic advances Chair: Alexandre Mourot Mourot (France) <i>S21-01 Matthew Banghart (United States)</i> Advantages of using photopharmacology to study the mechanisms of drug action in vivo <i>S21-02 Wenjing Wang (United States)</i> Opto- and chemo-genetic tools for monitoring and modulating G protein-coupled receptor activity <i>S21-03 Michael Tadross (United States)</i> DART.2: Bidirectional Synaptic Pharmacology with Thousandfold Cellular Specificity <i>S21-04 Alexandre Mourot Mourot (France)</i> Optical and chemogenetic technologies for deconstructing nicotinic neuromodulation in mice	S15 T#7 New insights into the mechanisms of plasticity and memory Chair: Pankaj Sah (Australia) <i>S15-01 Pankaj Sah (Australia)</i> Formation and consolidation of fear memory <i>S15-02 Yukiko Goda (Japan)</i> Probing synapse-astrocyte interactions: new roles for familiar molecules <i>S15-03 Janine Kwapis (United States)</i> Diurnal regulation of memory via the clock gene Per1 <i>S15-04 Haruhiko Bito (Japan)</i> An ensemble activity in the prelimbic cortex specific for fear recall	S23 T#4 Head over heart: Signaling by gaseous messenger molecules in the brain Chair: Bindu Paul (United States) Co-Chair: Csaba Szabo (Switzerland) <i>S23-01 Stuart Lipton (United States)</i> Aberrant S-nitrosylation networks in Alzheimer's disease <i>S23-02 Csaba Szabo (Switzerland)</i> H2S overproduction in the pathogenesis of Down syndrome <i>S23-03 Andrew Pieper (United States)</i> Pathophysiologic S-nitrosylation in traumatic brain injury <i>S23-04 Suwarna Chakraborty (United States)</i> Reciprocity of sulfhydrylation and nitrosylation in Alzheimer's disease	S24 T#3 Microglial states and function in the pathogenesis of neurodegeneration Chair: Renzo Mancuso (Belgium) <i>S24-01 Rosa Chiara Paolicelli (Switzerland)</i> Critical windows for dysfunctional microglia in health and disease <i>S24-02 Renzo Mancuso (Belgium)</i> Biology and modulation of human microglia in neurodegeneration <i>S24-03 Alison Goate (United States)</i> Transcription factor regulation of microglial states and their link to Alzheimer's disease genetics <i>S24-04 Sarah Marzi (United Kingdom)</i> Epigenetic regulation of microglia in Alzheimer's disease
13:30 - 15:00	LUNCH BREAK			

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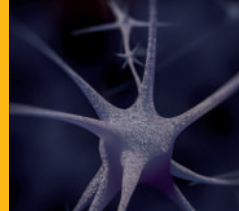
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15:00 - 17:00	S25 T#4 Inflammatory and Metabolic dysregulation in neurodegeneration and dementia Chair: Flavia Saravia (Argentina) Co-Chair: Róisín McManus (Germany) S25-01 Zoe Arvanitakis (United States) Relationship between metabolic disease and Alzheimer's disease S25-02 Stephanie Kullmann (Germany) Imaging the human brain to assess metabolic dysregulation S25-03 Róisín McManus (Germany) Sphingomyelin 14:0 – the link between obesity and neuroinflammation S25-04 Flavia Saravia (Argentina) Neuroprotection and Metformin in Alzheimer's disease context. A key role for glial autophagy	S26 T#3 Roles for T cell-glia interactions in CNS homeostasis and disease Chair: Jessica Williams (United States) Co-Chair: Brian Daniels (United States) S26-01 Brian Daniels (United States) Astrocyte-T cell crosstalk during viral encephalitis S26-02 Saskia Hemmers (United States) Novel roles for IL-1R family members in neuroinflammation S26-03 Jessica Williams (United States) T cell cytokine regulation of astrocyte function during CNS autoimmunity S26-04 Annelise Synder (United States) Defining mechanisms of innate immune dysfunction during brain metastasis	S27 T#2 Flowing Neurochemicals in the Brain Chair: Yulong Li (China) S27-01 Lin Tian (United States) Designs, applications and limitations of genetically encoded indicators in imaging neurotransmitters in vivo S27-02 Stephanie Cragg (United Kingdom) Axonal modulation of striatal dopamine transmission by neuronal and non-neuronal circuits S27-03 Lucy Palmer (Australia) Dynamics of dendritic signalling during learning S27-04 Pascal Kaeser (United States) Mechanisms and roles of neuromodulatory transmission	S28 T#5 Navigating Brain Development: Unveiling the Crucial Role of the Extracellular Matrix in Human Neurogenesis Chair: Orly Reiner (Israel) Co-Chair: Delilah Hendriks (Netherlands) S28-01 Carol Schuurmans (Canada) Proneural gene NEUROG2 activity is linked to extracellular matrix assembly in human cerebral organoids S28-02 Katherine Long (United Kingdom) Extracellular Matrix in the Developing Human Brain S28-03 Orly Reiner (Israel) Altered Extracellular Matrix Structure and Elevated Stiffness in a Brain Organoid Model for Disease S28-04 Benedetta Artegiani (Netherlands) Human relevant organoid platforms to study ECM role during human brain development
19:30 - 23:30	Farewell Reception			

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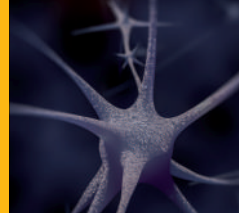
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Time	FORUM ROOM
Tuesday 19 August, 2025 15:00 - 17:00	S29 History Symposium The History of the International Societies for Neurochemistry Chair: Ralf Dringen (Germany) S29-01 APSN: Akio Wanaka (Japan) The History of Asian-Pacific Society for Neurochemistry (APSN) S29-02 ASN: Anne Boullerne (United States) ASN: American Society for Neurochemistry for the American continent S29-03 ESN: Anthony Turner and Natalia Nalivaeva (United Kingdom) Celebrating 50 years of the European Society for Neurochemistry S29-04 ISN: Ralf Dringen (Germany) ISN: The International Society for Neurochemistry
Wednesday 20 August, 2025 11:30 - 13:30	S30 Symposium in honor of Arne Schousboe and his contributions to Neurochemistry Chair: Mary C. McKenna (United States) Co-Chair: Jens Velde Andersen (Denmark) S30-01 Mary C. McKenna (United States) Arne Schousboe: An extraordinary person, neurochemist and leader S30-02 Brian Klein (United States) Arne Schousboe's contributions to our understanding of seizure control S30-03 Caroline (Lindy) Rae (Australia) Lactate in brain S30-04 Jens Velde Andersen (Denmark) Arne as a mentor and his contribution to brain disease research
Wednesday 20 August, 2025 14:30 - 16:30	JNC Workshop Under the hood: what's been bubbling up at JNeurochem? Chair: Andrew Lawrence (Australia) Co-Chair: Alyson Fournier (Canada) W01-01 Isaline Mees (Australia) An overview of JNC's focus, new initiatives, and author support. W01-02 Mychael Lourenco (Brazil) Learn the process of submitting reviews and proposing special issue topics. W01-03 Nirma Perera (Australia) Explore the new Trainee Editor Program, how to apply, and its career benefits. W01-04 Tyler Wenzel (Canada) Get insights into the Fundamental Neurochemistry Reviews and the Trainee Merit Award application process, and their positive impact on early-career researchers. W01-05 Daniel Gospodinov (Bulgaria) Strategies for effectively communicating your research for greater impact.
Thursday 21 August, 2025 11:00 - 13:00	ECDC / YSSC Neural Networking Event

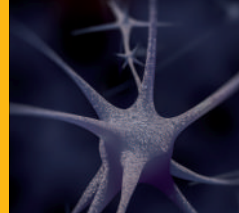
Laboratory Exchange Grant

Funds lab visits abroad for Student and Postdoc members to gain new skills or knowledge, encouraging global exchange and supporting their research and home institutions upon return.



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POSTER SESSION A

A01 - Gene regulation & genetics

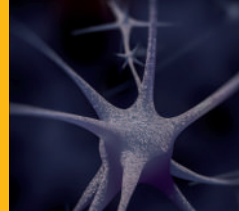
- A01-01 Gene alterations and Expression of Neuronal, Glial and Olfactory Markers in the Post-Mortem Olfactory Bulb in Parkinson's Disease
Cecilia Tremblay
- A01-02 Modulation of GRN Expression via Crisprdcas9 in Ipsc-Derived Astrocytes and Microglia-Like Cells From Patients With Schizophrenia
Juliana Lacerda

A02 - Signal transduction & synaptic transmission

- A02-01 Oscillation Frequency-Based Modulation of the Prelimbic Cortex by Low-Intensity Focused Ultrasound: Impact on Mesolimbic Dopamine
Greatness Olaitan
- A02-02 KH-5 is a PAM-Antagonist of Muscarinic Acetylcholine Receptors
Jan Jakubík
- A02-03 Signaling Mechanisms of Dscam2 in Restricting Dendritic Field Expansion of Visual Neurons
Joseph Oyewale
- A02-04 Calcium and Voltage Imaging Determinants of Plateau Depolarizations in Spontaneously Active Neurons
Katarina Milicevic
- A02-05 Activation of the B2-Adrenoceptor Induces Calcium-Dependent Exocytosis at the Neuromuscular Junction in a Sex-Specific Manner
Kivia Santos

A03 - Neuroinflammation & neuroimmunology

- A03-01 Caveolin-1 Deficient Mice Are Protected From Blood-Brain Barrier Permeability and Cognitive Impairment in a Mouse Model of Longcovid
Ali A. Almousawi
- A03-02 Investigating the Immune Responses to Cryptococcus neoformans in Human Cortical Organotypic Brain Slices
Anja de Lange
- A03-03 A Comparison of Surface Topography Structure to Tissue Function in Mouse Model of Colitis
Anna Mienko
- A03-04 Extra Virgin Olive Oil Supplementation Attenuates Hippocampal Inflammation of Obese Animals With a Depressive Phenotype
Ariadni Peres
- A03-05 Targeted Drug Delivery in Guillain-Barré Syndrome
Chanpreet Kaur
- A03-06 Direct Intracellular Interactions Between Amyloid-B Protofibrils and NLRP3 Inflammasome Proteins
Cristina Sinobas Pereira

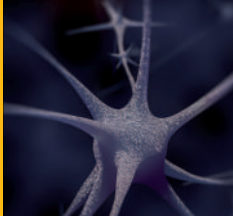


POSTER SESSION A

- A03-07 Ultrastructural Characterization of Microglia/Macrophages in Adult Female Mice at 14 and 28 Days After Spinal Cord Injury
Fernando González Ibáñez
- A03-08 Antigen-Specific CD4+ T Cell Responses Are Beneficial During Staphylococcus aureus Craniotomy Infection
Gunjan Kak
- A03-10 Abca7 Lof Microglia Lose Their Phagocytic Ability and Reactive Profile in a Humanized Model of AD
Jessie Premereur
- A03-11 The Role of Immune Oligodendroglia in CNS Demyelination and Remyelination
Jingwen Hu
- A03-12 Polyphenols Derivatives With Anti-Inflammatory Properties: Synthesis, Biological Evaluation, ADMET Prediction and SAR Analysis
Johant Lakey-Beitia
- A03-13 Assessing Macrophage Inflammation and Expression of Neurotransmitter Machinery in Patients With Comorbid HIV and Depression
John Montilla
- A03-14 Modulating NF- κ B Pathway After Treatment With Quercetin and Luteolin in a Healthy Aging and Age-Related Neurodegeneration
Afees John Olanrewaju

A04 - Molecular basis of disease

- A04-01 Impact of Thyroid Hormone Transporters Mct8/Oatp1c1 on Hippocampal Neurotransmission and Seizure Susceptibility
Andrea Alcaide Martin
- A04-02 LRRC8A-Containing Volume Regulated Anion Channels Promote Glioblastoma Proliferation via a WNK1/Mtorc2-Dependent Mechanism
Antonio M. Fidaleo
- A04-03 Oxysterol-Mediated Activation of Tgf β Pathway in Hypercholesterolemia: Impact on Brain Integrity and Visual Health
Ashmita Das
- A04-04 Agomelatine-Mediated Neuroprotection in a Chronodisrupted Rat Model: Modulation of Oxidative Stress and Autophagy
Avnish Kumar Verma
- A04-05 Role of Multi-Aminoacyl-Trna Synthetase Complex in Hypomyelination with Brainstem and Spinal Cord Involvement and Leg Spasticity
Bahaa Al-mhanawi
- A04-06 Activity-Based Anorexia Impairs HPA Axis Activity in the Brain and the Stress-Coping Response in Female Rats
Beatrice Rizzi

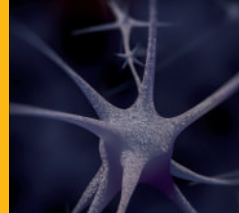


POSTER SESSION A

- A04-07 Investigating the Role of Microglial PERK in Memory and Behavior in Mice
Beatriz Wagner
- A04-08 Carnosine Alters Astrocyte Homeostasis
Belisa Parmeggiani
- A04-09 Nf1 Exon 51 Skipping in Primary Neurons Reveals Novel Properties of Neurofibromin Isoforms in Cytoskeleton Dynamics
Charoula Peta
- A04-10 Characterization of a Novel Mouse Model to Track Extracellular Vesicles In Vitro and In Vivo
Erhard Bieberich
- A04-12 Protein Expression in the Corpus Callosum Associated With Chronic Alcohol Use: A Multi-Level Biological Network Analysis
Felipe Borges Almeida
- A04-13 Optimization of Donepezil and Yukmijihwang-Tang Combination Ratio Using Response Surface Methodology
Gunhyuk Park
- A04-14 Investigating the Mechanism Underlying Dysfunctional Synaptic Vesicle Recycling in a Mouse Model of Huntington's Disease
Han Tan
- A04-15 TAAR1 Activation Counteracts Amyloid-B-Induced Memory Impairment
Ícaro Raony
- A04-16 Risk for SARS-Cov2 Cell Entry Through ACE2 and TMPRSS2 is Not Increased in Alzheimer's Disease, Concerns About Down Syndrome
Javier Saez-Valero
- A04-17 Transmission of Lysosomal Pathology to Mitochondria in GBA1-Associated Parkinson's Disease
Jimna Mohamed Ameer
- A04-18 Characterising the Neuropeptide Landscape of the Postmortem Human Orbitofrontal Cortex Following Exposure to Early Life Adversity
Katrina Z. Edmond
- A04-19 Lysosomal Damage Response as a Protective Mechanism Against Protein Aggregate Propagation in Neurodegenerative Diseases
Keita Kakuda

A05 - Brain development & cell differentiation

- A05-01 Neuropilin-2 Maintains Apical Adhesion and Extracellular Matrix Stability to Support Spinal Commissural Progenitor Survival
Adefemi Baderinwa
- A05-02 Prenatal Valproate Exposure Affects Cortical Neurite Branching, Gabaergic Markers, and Motor Reflexes in the Rat Pups
Denisa Mihalj

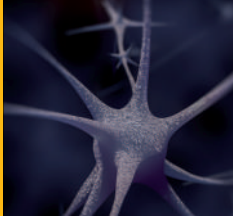


POSTER SESSION A

- A05-03 Exploring SEMA-Gene Modulation to Unlock Potential Treatment Avenues for CHARGE Syndrome Therapies
Federica Amoruso
- A05-04 Interleukin-6 Elicits Distinct Behavioral ASD-Like Phenotypes When Increased Prenatally Versus Postnatally in Mice
Fernando Janczur Velloso
- A05-05 Purkinje Cell Development, Survival, and Adaptive Motor Behavior in Mice Require the Redundant Function of Small Gtpase Rab11a/B
Jack DeLucia
- A05-06 The Developing Mouse Dopaminergic System: Cortical-Subcortical Shift in Receptor Balance and Increasing Regional Differentiation
Jee Hyun Kim
- A05-07 Microkiss: The Beginning of a Story About Kisspeptin and Microglia Interaction in Sex-Specific Social Development
Joao R. Neves
- A05-08 Investigating the Role of Copper in Oligodendrocyte Myelination
Johnathan Wong
- A05-09 Apotransferrin Induce Accumulation of Lipid Droplets in Oli-Neu Mouse Oligodendroglial Cell Line
Juana Pasquini
- A05-10 Short and Long Term Effects of Early Ethanol Exposure on Glial Reactivity and Plasticity
Julia Ferreira
- A05-11 What is the Effect of Postnatal Exposure to Fluoxetine in Mice? Neurogenesis, Behavioral and Biochemical Changes
Karen Stefani
- A05-12 Importance of High-Density Microelectrode Arrays for Recording Extracellular Potential and Network Dynamics in Ipsc-Derived Neurons
Karin Morandell

A06 - Bioenergetics & metabolism

- A06-01 Decanoic Acid Ameliorates Neuroinflammatory Markers and Rescues Astrocyte Energy Metabolism in Models of AD Pathology
Aishat Ameen
- A06-02 Effects of Methylphenidate on Mitochondrial Dynamics and Bioenergetics Are Sex-Dependent in the Prefrontal Cortex of Juvenile Rats
Alessandra Rieder
- A06-03 Regulation of Mitochondrial Dynamics by Endocannabinoids as a Neuroprotective Mechanism In Vitro
Ana Laura Torres Román
- A06-04 Decreased Neuronal Activity Attenuates the Purine Nucleotide Cycle in the Brain
Brennon Schofield

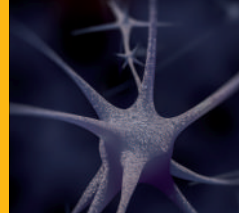


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- A06-05 Dietary Stressors Exacerbate the Impact of Antiretroviral Prophylaxis Use on the Brain Metabolome
Cory White
- A06-06 The Impact of Cypin Activation on NAD⁺ Metabolism, Mitochondrial Function, and Recovery After Mild Traumatic Brain Injury
Courtney Stains
- A06-07 Astrocytic Fatty Acid Synthase is Critical for Maintaining Reductive Potential and Lactate Levels in Hypoxic Brain
Drew Seeger
- A06-08 Sex-Associated Metabolic Alterations Underlying Brain Resilience and Pathogenesis in Alzheimer's Disease
Eugenio Barone
- A06-09 ATP Restoration by ATP-Deprived Cultured Primary Astrocytes
Gabriele Karger

A07 - Neuronal plasticity & behavior

- A07-01 Role of 5-HT_{2A}R in Prefrontal Cortex Activity and Plasticity in Social Behavior
Agostina Sacson
- A07-02 Infant Maltreatment Alters Adrenal Glands, Stress Response and Behavior in Juvenile Rat Offspring
Ailen Alba Colapietro
- A07-03 Integrative Computations on Neuromodulation
Alev Brigande
- A07-04 The Role of Aticaprant, a Kappa-Opioid Receptor Antagonist, in Stress-Induced Deficits and Synaptic Plasticity
Alexandra Symeonof
- A07-05 Beta₂* Nicotinic Acetylcholine Receptors Expression in Prefrontal Cortex: Layer Specificity and Behavioural Outcomes
Alice Abbondanza
- A07-06 Role of Nicotinic Acetylcholine Receptors Expressed by Cholinergic Interneurons in the Control of Striatal Activity
Amanda Rosanna Alves Barboza
- A07-07 Representation of Appetitive and Aversive Stimuli in D1- and D2-Medium Spiny Neurons of the Nucleus Accumbens Shell
Ana Verónica Domingues
- A07-08 Unravelling Cannabidiol's Therapeutic Potential in Stress and Alzheimer's Disease Brain Pathologies
Anastasia Vamvaka-Iakovou
- A07-09 Bezafibrate Reduces Neural Abnormalities and Improves Memory but Does Not Affect Neuroinflammation after Hypoxia-Ischemia in Rats
Andrey Vinicios Soares Carvalho



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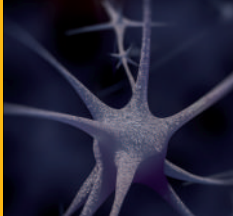
- A07-10 Sex-Specific Long-Term Behavioral Effects of Caffeine Exposure During Pregnancy and Lactation in Mice Offspring
Bruna da Silva Oliveira
- A07-11 The Indoleamine 2,3-Dioxygenase (IDO-1) Enzyme May Underlies the Development of Anxiety and Depressive-Like Behaviors After Mtb
Caroline Amaral Machado
- A07-12 Beta2* Nicotinic Acetylcholine Receptors Expressed by Individual Prefrontal Populations Show Specific Effects on Mouse Behavior
Helena Janickova
- A07-13 Exploring Synaptic Protein Dynamics in Behavioral Tagging: The Role of Novelty Exposure in Long-Term Memory Consolidation
Hiba Khan
- A07-14 Prevention of Scopolamine-Induced Spatial Memory Impairment by Cannabinoid Agonist WIN55,212-2
Iker Bengoetxea de Tena
- A07-15 The Development of Visually Evoked Defensive Behaviors in Male and Female Mice
Isabella Farhy-Tselnicker
- A07-16 Sex-Specific Outcomes in a Rat Model of Infant Maltreatment
Jazmín Grillo Balboa
- A07-17 Impact of Early-Life Stress and a Second Hit on Memory: Neuroplasticity and Inflammation at Midlife and Adulthood
Joelma Alves Lucio
- A07-18 Premenstrual Dysphoric Disorder (PMDD): Insights From a Rat Model Using Progesterone Withdrawal
Keerthana Padmanabhan

A08 - Clinical studies, biomarkers & imaging

- A08-01 Associations Between Polymorphisms in Purinergic Signaling Genes and Alzheimer's Disease Biomarkers
Luciana Costa
- A08-02 The Link among Perinatal Depression, Gestational Diabetes Mellitus, and Telomere Length: A Biochemical Approach
Pavithra Rekha Ravikumar
- A08-03 Csf Levels of Phosphorylated Tdp-43 Are Increased in Patients With Vascular Dementia and Correlate With Markers for Vasculopathy
Zeinab Rafiee

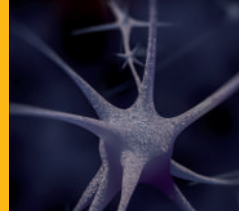
A09 - Glia and neuron-glia interactions

- A09-01 Demystifying the Myelin g Ratio: Origin, Biological Meaning and Alternatives
Alexander Gow
- A09-02 Astrocytic Chordin-Like 1 Regulation for Stroke Recovery Using Ketamine
Andrea Berghella



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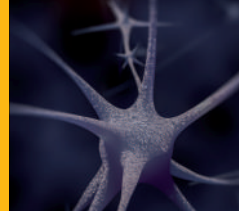
- A09-03 Decoding Translation in CNS Myelin Expansion
Avipsha Datta
- A09-04 Altered Myelin Lipid Homeostasis and Their Effect on Promyelinating Factor—PAK2 in PMP22
Haploinsufficiency
Bo Hu
- A09-05 DRG Neuron-Satellite Glia Interactions in Response to Physiological Levels of Shear Stress
David Spray
- A09-06 HIV Antiretroviral Drugs Trigger Stress Granule Formation via the PERK Activated Integrated Stress
Response in Oligodendrocytes
Eliana von Krusenstiern
- A09-07 Analyzing Sex Differences of Aged Microglia After an Inflammatory Stimulus: A Study in the Ventral
Hippocampus of C57BL6/J Mice
Eva Šimončíčová
- A09-08 The Mglur5 Agonist, CHPG, Enhances Differentiation of Human Oligodendrocytes
Hiroko Nobuta
- A09-09 Astrocytes Respond to Serotonin and Regulate the Serotonin-Induced Synaptic Transmission in the
Basolateral Amygdala
Jacob Noeker
- A09-10 The Role of GLT-1 in Oligodendrocyte Myelination: Unraveling Mechanisms of Myelin Repair in
Development and Disease
Jazmín Soto-Verdugo
- A09-11 Astrocytes Exhibit Sex-Dependent Morphological and Molecular Changes in Senescent Cells In Vitro and
in the Aged Mouse Hippocampus
Joao Bastos
- A09-12 Potential Use of Nociceptin as a Novel Biomarker and Target for Remyelination in Progressive Multiple
Sclerosis
Joseph Baker
- A09-13 Astrocytic Gabaergic Uptake: Shaping Spatial Memory Dynamics
Juan Gabriel Riboldi
- A09-14 New Insights Into the Mechanisms of Axonal Neurotransmitter Release and Its Impact on Myelination
Katy Marshall-Phelps
- A09-15 Astrocytes as Potential Mitochondria Donors for Neurons After Exposure to Alpha-Synuclein Oligomers
Livia Hayashide



POSTER SESSION A

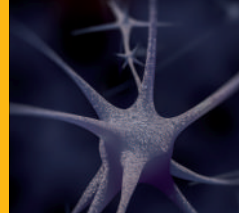
A10 - Neurodegeneration and neuropsychiatric disorders

- A10-01 Iron-Mediated Neurotoxicity in Alzheimer's Disease
Abdulqudus Omirude
- A10-02 Alteration of Membrane Proteins and Hippocampal Integrity in Rat Brain Due to Co-Toxicity of Cadmium and Lead
Abhishek Kumar
- A10-03 Protective Role of Plant Food-Derived Dietary Phenolic Compounds Against Cadmium-Induced Neurotoxicity
Adeniyi Adebayo
- A10-04 Erβ Ligand Treatment Mitigates Demyelination-Induced Cognitive Impairment by Modulating Glutamate in the Hippocampus
Alyssa Anderson
- A10-05 ZA-II-05, a Novel NMDAR Antagonist Reverses Vanadium-Induced Neurotoxicity in C. elegans, Rat Hippocampal Slices and Mice Models
Amany Ladagu
- A10-06 Using Novel Tau Antisense Oligonucleotides Against Alzheimer's Disease Brain Pathology
Anastasia Megalokonomou
- A10-07 The Aging Locus Coeruleus: Proteomic Characterization During Healthy Aging and Disease
Andres Jaramillo
- A10-08 Naringenin Confers Neuroprotection in Drosophila Model of Alzheimer's Disease by Modulating AChE and SOD mRNA Expressions
Ayomide Atoki
- A10-09 Enhancing Proteostasis in ALS Through Novel Brain-Penetrating Peptides: A Therapeutic Approach Targeting Autophagy
Azin Amin
- A10-10 Network Pharmacology, Molecular Docking, and Simulation Evaluation of Limonene in the Treatment of Neurodegenerative Disorders
Bhuvanesh Baniya
- A10-11 Therapeutic Efficacy of Chronic 5-HT1A Receptor Agonism by NLX-112 (Befiradol) in Spinocerebellar Ataxia Type 3 Mice
Bruna Ferreira-Lomba
- A10-12 Glycyrrhizin Reduces HMGB1 Elevation in Huntington's Disease Zq175 Mice Striatum Enhancing Motor and Cognitive Functions
Carla Caruso
- A10-13 Protective Effects of Metformin on Microglial Dysfunction in an Alzheimer's Disease In Vitro Model
Carlos Pomilio
- A10-14 Brain Sphingolipid Control is Disrupted in Schizophrenia
Christian P. Müller



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- A10-15 Connecting Lactate Metabolism in Reactive Microglia to Early Alzheimer's Disease
Clair Ashley
- A10-16 *Drosophila melanogaster* and *Homo sapiens* Serotonin Transporter: Genetic Similarity and Comparative Affinity by Antidepressants
Fabiani Triches
- A10-17 When Chronic Stress Meets Tau: Dissecting the Interplay in Stress-Granule-Related RNA-Binding Protein Dynamics
Georgia Papadimitriou
- A10-18 Impact of SARS-Cov-2 Infection or Viral Product Exposure on Cellular Senescence and Its Implications for Memory Impairment
Hannah Paola Mota-Araujo
- A10-19 Anti-Angiogenic Effects of BBC1501, a Chemical Inhibitor Targeting BRD2/4, on Experimental Choroidal Neovascularization in Mice
In-Beom Kim
- A10-20 Evaluating the Potential of Stigmasterol as a Scaffold for Novel Antidepressants
Isaac Blessed Mensah
- A10-21 Motor Neurons Cell-Specific Metabolic Maladaptation Following TDP-43 Aggregation: Implications for ALS and FTL D
Ismail Gbadamosi
- A10-22 Impact of Lipid Metabolism on Microglial Phagocytosis of Amyloid-Beta
Izabela Lepiarz-Raba
- A10-23 Targeting Microvascular Dysfunction in Alzheimer's: Therapeutic Role of Galectin-1 in Vascular Function and Proteostasis Pathways
Jessica L Presa
- A10-24 Unveiling the Mystery: How the Aggregation of a Single Protein Leads to Multiple Diseases
Kensuke Ikenaka
- A10-26 Exploring Chaperone-Mediated Autophagy in Androgen Receptor Degradation as a Novel Targetable Pathway for Kennedy Disease
Laura Cornaggia
- A10-27 Intracisternal Administration of Rad-IGF1 Reduces Anxiety-Like Behavior in a Rat Model of Neurotoxicity Induced by 6-OHDA
Leandro Champarini
- A10-28 Ibuprofen Exposure Differentially Alters Morphology and Synapses in the Prefrontal Cortex and Amygdala of Adult Male Wistar Rats
Leviticus Arietarhire
- A10-29 Neurogenic Potential of Quinic Acid in Combating Ischemic Stroke by Regulating Notch Pathway
Maha Shahid
- A10-30 Brain Printing Biometrics in Crosstalk With Rod-Shaped Microglia and TREM2 Signaling for Early Alzheimer's Disease Detection
Mai M. Anwar



POSTER SESSION A

- A10-31 P75^{ntr} Mediated Retrograde Degeneration of Basal Forebrain Cholinergic Neurons after TBI Leads to BFCN-Specific Cognitive Deficit
Mansi Pandya
- A10-32 Dissecting Neuronal–Microglial Interplay on Dentate Gyrus Plasticity Under Chronic Stress in Tau Brain Pathology
Maria Anesti

A12 - Stem Cells and regeneration

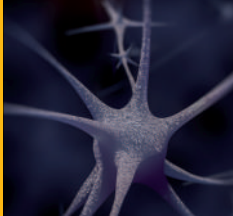
- A12-01 Multipotent Cell-Derived Magnetic Extracellular Vesicles in Nerve Regeneration
Daniela Rodriguez Carrascal
- A12-02 Elucidating the Role of Endothelin-1 Signaling in Adult Neural Stem Cells
Lawry Del Mar Soto Escobar
- A12-03 Protein Phosphatase Inhibition Blocks Stress Granule Assembly and Promotes Axon Regeneration
Manasi Agrawal

A13 - Lipids and glycobiology

- A13-01 Interplay of Altered Sphingolipid Metabolism and Endocannabinoid System in Schizophrenia
Anna Emilia Hoffmann
- A13-02 Exploring Molecular Controls of Neuronal HSL Activity
Annelise Francisco

A15 - Pain / Addiction

- A15-01 Nanoengineered TRPA1 Sirna Formulation Alleviates Chemotherapy-Induced Neuropathic Pain
Akhilesh
- A15-02 Passiflora incarnata L. Extract Reduces Withdrawal Symptoms in Morphine-Dependent Mice
Ana Olivia Martins Laurentino
- A15-03 Long-Term Effects of Neonatal Overfeeding on Homeostatic Regulation of Food Intake in Response to a Cafeteria Diet in Adulthood
Cora Stoker
- A15-04 Investigating the Role of Silent KV8 Subunits in Sensory Neuron Function
Kai Kummer



POSTER SESSION A

A16 - Other topics

- A16-01 Gut Epithelial Functions in Mice With Heart Failure Due to Endothelial Overexpression of Tissue Nonspecific Alkaline Phosphatase
Alexander Malayev
- A16-02 Psychotria camptopus Prevents Neuropsychiatric Comorbidities by Modulating Neuroprotective Pathways in Fully PTZ-Kindled Rats
Aliance Romain Fokoua
- A16-03 Amine-Functionalized Mesoporous Silica Nanoparticles: A Promising Approach to Enhanced Acetylcholinesterase and Amyloid Inhibition
Anurag Kumar Singh
- A16-04 Modulation of Adenosine Release by Glutamate in Schaffer Collaterals-Ca1 Synapses
Dayana Surendran
- A16-05 Immunohistochemical Identification of West Nile Virus Envelope Glycoprotein in the Brain of Yinpterochiroptera Bat, Eidolon Helvum
Iheanyi K. Peter-Ajuzie

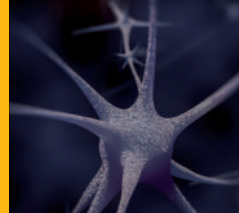
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POSTER SESSION B

B01 - Gene regulation & genetics

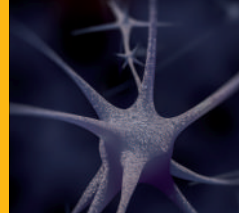
- B01-01 Chromatin Regulator Ankrd11, Associated With Neurodevelopmental Disorders, Regulates Cortical Gliogenesis
Kara Goodkey
- B01-02 Regulatory Roles of Eugenol in Paraquat-Altered SNCA/LZTS3/MAPT in the Cerebellum of Wistar Rats
Obinna Uchewa

B02 - Signal transduction & synaptic transmission

- B02-01 Influence of Hearing Aid Usage on Neural Plasticity in Geriatric Auditory Brainstem
Mohammad Shamim Ansari
- B02-02 Unlocking the Potential of Partial Efficacy: A Novel Insight Into Monoamine Neurotransmitter Transporters
Mohammad Nazmul Islam
- B02-03 Binding of Steroid Ligands to Muscarinic Receptors Detected by Fluorescence Quenching
Nikolai Chetverikov
- B02-04 Regulation of CREB Phosphorylation by Dopamine or Forskolin in Early Chick Retina Development
Roberto Paes-de-Carvalho
- B02-05 Role of a Cannabis Extract in 2-Arachidonoylglycerol Metabolism Regulation During Physiological Aging
Sabrina Rosicler Salas

B03 - Neuroinflammation & neuroimmunology

- B03-01 Brain–Gut Crosstalk: How the Immune System and Gut Microbiota Are Linked in Experimental Stroke
Junjie Guan
- B03-02 Efficacy and Potency of Novel Pyrimidine-Based Inhibitors of Ecto-5' Nucleotidase/CD73 in Primary Astrocytes In Vitro
Katarina Mihajlovic
- B03-03 The Inflammasome Inhibitor MCC950 Decreases Neuroinflammation in a Mouse Model of Pediatric Neurodegeneration
Kathryn Sanchez
- B03-04 Sphingosine Kinase 2 Inhibition in High-Fat Diet-Fed Mice Ameliorates Obesity-Induced Neuroinflammation
Lotte Vanherle
- B03-05 Eprosartan With Diosgenin Impedes Multi-Organ Dysfunction Following Traumatic Brain Injury in Mice: Synergistic Approach
Manisha Thakur
- B03-07 | In Vitro Interactions Between Amyloid- β and NLRP3 Inflammasome Proteins
Michael Nichols

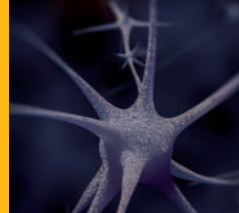


POSTER SESSION B

- B03-08 Organotypic Brain Slice Cultures to Model Glial Cell Responses in the Pediatric Neurodegenerative Disease CLN2
Miriam Domowicz
- B03-09 Activation of TLR4/MyD88/NF- κ B Pathway Regulates Inflammation in Cypermethrin-Induced Parkinsonism
Mohd Faizan
- B03-10 The Role of Glial Cells in Neuroinflammation in the Context of Alzheimer's Disease
Rafaella Ferreira
- B03-11 Unraveling the Variable Penetrance of Inflammatory Gene Signatures into Adjacent Brain Parenchyma in Meningeal Inflammation
Saumitra Singh
- B03-12 IL-6 as a Therapeutic Target for the Treatment of TBI
Shradha Suresh
- B03-13 Sex-Specific Transcriptional Alterations in Midbrain Following Maternal Immune Activation and Estrogen Receptor Modulation
Sophie Debs
- B03-14 Neuroprotective Role of CNS-Active Antidotes in Mice Exposed to Organophosphate Compounds
Zrinka Kovarik

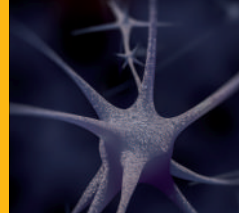
B04 - Molecular basis of disease

- B04-01 REST Dysregulation and Neuropathogenesis in Down Syndrome
King-Hwa Ling
- B04-02 High-Fat Diet Alters Stroke-Associated S1P Responses
Lisa Teresa Porschen
- B04-03 microRNA-29a as a Potential Biomarker of Heritability of the Depressive-Like Phenotype and Response to Ketamine Treatment
Lucas dos Santos da Silva
- B04-04 Perturbed Cholesterol Metabolism and Cytoskeletal Reorganization in Nerves and Glial Cells From Trembler J Mice Modeling CMT1E
Lucia Notterpek
- B04-05 Sodium Propionate: Key Metabolite for Alleviating Depressive-Like Behavior via Gut Microbiome and Neural Epigenetic Modulations
Luiza Behrens
- B04-06 Targeting the Endocannabinoid System in Binge Eating Disorder: Efficacy of Oleoylethanolamide Derivatives in a Preclinical Model
Marialuisa Francesca de Ceglia
- B04-07 Pathophysiological Consequences of Middle Domain DNM1 Mutations
Marie Pronot



POSTER SESSION B

- B04-08 Exploring the Potential Neuroprotective Properties of Fungi Living in Extreme Environments in a Cell Model of Alzheimer's Disease
Matías Lantadilla
- B04-09 Mitochondrial DNA Mutations Impact Bioenergetics and Neuronal Differentiation in Autism: Insights From a Cybrid Model
Merlin Jeejo
- B04-10 Investigation of CYP46A1 and Cholesterol Homeostasis as a Therapeutic Target for Rett Syndrome Phenotypes in Mecp2-Mutant Mice
Nasim Khatibi
- B04-11 Molecular Clock and Circadian-Driven Neuroinflammatory Markers Profile in Early Developmental Dravet Syndrome Mouse Model
Radharani Benvenuti
- B04-12 Gene Network Linked to Environmental Enrichment Predicts Human Mental Health
Randriely Merscher Sobreira de Lima
- B04-13 LKB1 Deficiency in Astrocytes: Disruption of Pantothenate Kinase and Promotion of Ferroptosis
Rebecca Alemani
- B04-14 GABAergic Dysfunction Underlies Tau-Dependent Sleep Loss But Is Rescued by Targeting Beta Activity With Zolpidem
Riley Irmen
- B04-15 Therapeutic Exploration of syPNA-141: Unlocking Mechanisms and Pharmacodynamic Effects in Ischemic Stroke Rehabilitation
Sanjeev Kumar Yadav
- B04-16 Newborn Reactions to Maternal Prenatal Stress Alter Umbilical Cord Blood tRNA Fragments Targeting Cholinergic Transcripts
Shani Vaknine Treidel
- B 04-17 Modulation of $\alpha 7$ nAChR, Neuroinflammation, and BDNF-Mediated Neurotrophic Signaling Prevent Neuropathology in Alzheimer's Disease
Shivanshu Bajaj
- B 04-18 Stress Induces Alteration in the Expression of Neuronal HSP70 and HSP40 Chaperones
Siraj Fatima
- B04-20 microRNAs Modulating Insulin Resistance: A Shared Pathway in Alzheimer's Disease and Metabolic Syndrome
Tehniat Faraz Ahmed
- B04-21 Molecular Pathogenesis of Juvenile ALS: Dissecting the Impact of the E102Q SIGMAR1 Variant on Cellular Homeostasis and Autophagy
Vina Banouvong



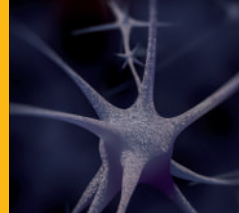
POSTER SESSION B

B05 - Brain development & cell differentiation

- B05-01 Risperidone Administration in Rats with Perinatal Brain Injury Impairs Brain Development and Induces Inflammation
Lauren Jantzie
- B05-02 GFAP Expression in the Brain During Human Postnatal Development
Lauren Luijckink
- B05-03 Untangling the Intricate Networks Shaped by d-Aspartate in the Developing Brain
Raffaella di Vito
- B05-04 Mast Cells as Central Mediators of Neuroimmune Interactions During Physiological and Pathological Neurodevelopment
Raissa Rilo Christoff
- B05-05 Selective Complement Lysis Vulnerability of Neural Stem Cells and Multipotential Progenitors in a Germinal Matrix Hemorrhage Model
Rebecca Zaritsky
- B05-06 Impaired Sulfation of Heparan Sulfate Proteoglycans Compromises GnRH Neuron Development by Modulating VEGF Signaling
Roberto Oleari
- B05-07 The Effect of Cannabidiol Activation of CB1 Receptor on the Prenatal VPA-Induced Anxiogenic Activities in Amygdala of Male Mice
Roseline Udodi
- B05-08 Crosstalk Between the CSF and Embryonic Stem Cell Niche
Ryann Fame
- B05-09 Levels of Microglial Trem2 Program Synaptic Pruning and Hippocampal Function in a Mouse Model of Early Adversity
Sahabuddin Ahmed
- B05-10 Maternal Folic Acid Supplementation Improves Disrupted Neocortical Development in a Forebrain-Specific Cited2 Knockout
Sara Brigida
- B05-11 GluN2A-Dependent Ionic Currents and Calcium Signaling in Human iPSC-Derived Neurons
Sergio Escamilla
- B05-12 Non-Cooperative Roles of GPM6a and Neuroplastin in Neurite Outgrowth and Filopodia Formation
Camila Scorticati

B06 - Bioenergetics & metabolism

- B06-01 Metabolism of Dendrimer-Conjugated N-Acetyl Cysteine Shows Multiple Neuroprotective Responses in a Rabbit Model of Cerebral Palsy
James Sowers
- B06-02 Modulation of NAD⁺ and NADH Contents in Cultured Astrocytes
Johanna Elisabeth Willker

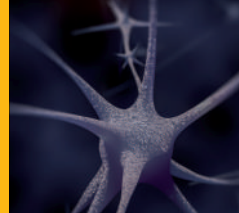


POSTER SESSION B

- B06-03 Study of the Central Actions of the LEAP2 Peptide
Lucia Giovanini
- B06-04 CD38 Role in Mitochondrial Metabolism in the Dorsal Root Ganglion
Marina Chichierchio
- B06-05 Differential Effects of Itaconate and Its Esters on the Glutathione and Glucose Metabolism of Cultured Primary Rat Astrocytes
Patrick Watermann
- B06-06 Single Nucleotide Polymorphisms of the Astrocytic Excitatory Amino Acid Transporter 2 Are Associated With Brain Glucose Metabolism
Roberta Oliveira
- B06-07 Comparative Analysis of Primary and iPSC-Derived Microglia Metabolism Dysregulated by A β Exposure
Seong-Hun Bong
- B06-08 Repeated Head Injuries Progressively Promote Functional and Metabolic Impairments in Mice
Vitória Girelli de Oliveira
- B06-09 Neurons Carrying Frontotemporal Dementia-Related MAPT Mutation Exhibit Perturbed Bioenergetics
Yan Tong

B07 - Neuronal plasticity & behavior

- B07-01 The Role of mTORC1-Dependent Protein Translation During Memory Consolidation in the Neocortex
Kinga Konkol
- B07-02 Investigating a Role for Netrin-1/ DCC Signaling in Excitatory Homeostatic Synaptic Upscaling
Kira Feighan
- B07-03 Cocaine-Induced Alterations in LDT-NAc Neuronal Activity and Connectivity
Leandro Aguiar
- B07-04 Negative Affective State in Mice After the Interruption of Chronic Ethanol Drinking Plus a Single Intraperitoneal Administration
Leon Condat
- B07-05 AMPAR Expression is Modified by GluN2A Silencing in Mature Neurons
Maria Florencia Acutain
- B07-06 Modulation of Neuronal Plasticity in BDNF Met Prodomain Carriers in Stress and Cocaine Comorbidity
Maria Julieta Boezio
- B07-07 Sex-Specific Impact of Sigma-1 Receptor Deletion on CA1 Neuronal Excitability and Behavior
Mathieu Lapalme
- B07-09 Mechanisms of Restraint Stress and Heavy Metals Co-Exposures: Cognitive Impairment, Oxidative Stress, and Neuroinflammation
Oritoke Okeowo

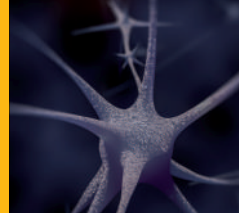


POSTER SESSION B

- B07-10 Enhancement of Synaptic Plasticity and Learning Mediated by Dopaminergic Activation of Hippocampal Astrocytes
Rafael Falcon Moya
- B07-11 Re-Activation of a Cocaine Ensemble but Not a Shock Ensemble in the Nucleus Accumbens Controls Behavioral Preference
Raquel Correia
- B07-12 Decreased Memory After e-Vapour (Nicotine) Is Associated With Altered Hippocampal Nicotinic Receptors, Apoptosis, and Microglia
Rita Machaalani
- B07-13 Alterations in Hippocampal Long-Term Depression and Spatial Memory Induced by Elevated Perinatal Interleukin-6
Rouba Y. Houbeika
- B07-14 Effects of GluN2A Knockdown on Spatial Memories and Social Behavior
Maria Verónica Baez
- B07-15 Naringin Mitigates Cognitive Deficits in Chronic Stress by Modulating Synaptic Plasticity via G-Protein and BDNF/TrkB Pathways
Vivian Ojiakor
- B07-16 The Microtubule-Associated Protein Tau Controls the Homeostasis of Glutamate-Type Receptors in Mammalian Central Neurons
Xuan Ling Hilary Yong
- B07-17 Involvement of $\alpha 7$ Nicotinic Acetylcholine Receptor in Social Behavior Impairments in Juvenile Mice Exposed to Social Defeat Stress
Yukihiro Noda
- B07-18 Aged Garlic Extract Supplementation Improves Cognitive and Memory Function and Alters Multi-Functional Molecular Clusters
Zezong Gu
- B07-19 Ethanol's Effects on Memory Consolidation: Exploring the Role of $\alpha 7$ Nicotinic Acetylcholine Receptors
Verónica Pastor

B09 - Glia and neuron-glia interactions

- B09-01 Molecular Composition of Endogenous Glutamate-Permeable LRRC8 Channels in Mouse Astrocytes
Madison Chandler
- B09-03 Disruption of Immune Homeostasis Mediates Neural and Behavioral Alterations Induced by Cocaine
Maria Carolina Machado da Silva
- B09-04 The HIV-1 Transgenic Rat Brain Exhibits Disrupted Myelin Lipids
Marisa Jeffries
- B09-05 Aging-Induced Morphological and Molecular Changes in Astrocyte–Endothelial Interactions
Michele Siqueira

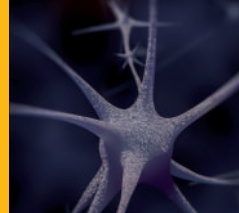


POSTER SESSION B

- B09-06 Investigating the Role of Astrocytic Autophagy Within Central Nervous System (CNS) and Amyotrophic Lateral Sclerosis (ALS)
Nirma Perera
- B09-07 Connecting Intercellular Endocytosis With Astrocyte Extracellular Vesicles via Gap Junctions
Randy Stout
- B09-08 White Matter Secondary Injury and 4-Aminopyridine (4AP) Beneficial Effect Informed by Spatial Transcriptomics in Experimental TBI
Regina Armstrong
- B09-09 Role of Neuroinflammation in AD: In Vivo Characterization of 3xTg-AD Mice Through PET/MRI, Histological and Behavioral Studies
Rosina Daputo
- B09-10 Role of Sphingolipids in Fractalkine Mediated Myelin Repair
Sara Grassi
- B09-11 Targeted Polysomal mRNA Reveals Satellite Glial Cells-Specific Translatome Changes During Urological Chronic Pelvic Pain Syndrome
Sathish Kumar Yesupatham
- B09-12 Glial Neurotransmitter Transporter Regulation in Retinal Müller Cells: Role in Excitotoxicity
Temitayo Subair
- B09-13 CD11c Microglia Enhance Oligodendrocyte Differentiation Through Insulin-Growth Factor 1 (IGF1) and Osteopontin Co-Signaling
Teshawn Johnson
- B09-14 Deciphering the Role of Astrocytic Insulin Receptor Overexpression on Vascular Dynamics and Gait in an Amyloidosis Model
Ting-Hsuan Lu
- B09-15 Endothelin-1 Inhibits Neural Stem Cell Gliogenesis in the Adult Brain Following Demyelination
Veronica Vanoverbeke

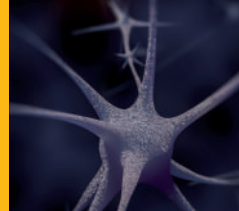
B10 - Neurodegeneration and neuropsychiatric disorders

- B10-01 Study of the Pro-Solubilizing Effect of a Short Androgen Receptor Isoform to Disrupt Mutant Androgen Receptor Toxicity in SBMA
Marta Chierichetti
- B10-02 Stearoyl-CoA Desaturase Inhibition Leads to Hippocampal Fatty Acid Normalization and Improved Dendritic Spine Density in 5xFAD
Marta Turri
- B10-03 Early TGF- β 3 Gene Therapy and Neuroinflammation: Therapeutic Potential for Motor and Non-Motor Impairments in Parkinson's Disease
Matías Jávega Cometto
- B10-04 Effects of rTMS on Neurodegeneration, Neuroinflammation, and Purinergic Signaling in a 6-OHDA Parkinson's Disease Model
Milica Zeljkovic Jovanovic



POSTER SESSION B

- B10-05 Rauvolfia vomitoria Extracts Relieve Swiss Mice Against Pentylentetrazol-Induced Seizure and Protect Temporal Lobe Structures
Moses Ekong
- B10-06 Using Inhibitory Chemogenetics to Reduce Cortical Hyperexcitability in Amyotrophic Lateral Sclerosis
Mouna Haidar
- B 10-07 The Role of Polyamines in Modulating Alpha-Synuclein Aggregation: Insights from Physiologically Relevant Conditions
Nan Wang
- B10-08 Severity of Sleep Loss Does Not Correlate With A β Plaque Load
Nicholas Constantino
- B10-09 Cognitive Deficits, Amyloid Pathology, and Microglial Homeostasis Are Restored by Metformin in Experimental Alzheimer's Disease
Nicolas Gabriel Gonzalez Perez
- B10-10 Neuroinflammation, Oxidative Redox Imbalance Drive Memory Dysfunction in Adolescent Rats Prenatally Exposed to Datura stramonium
Olawande Bamisi
- B10-11 Homocysteine Impairs Glucose Uptake via Akt/GSK3 β /GLUT1 Pathway in Hippocampus: Neuroprotection by Rivastigmine and Ibuprofen
Osmar Vieira Ramires Junior
- B10-12 Dissecting Cariprazine's Mechanism of Action Combining Fluo-Cariprazine Binding, mRNA In Situ Hybridization and Electrophysiology
Ildiko Pal
- B10-13 Assessing the Therapeutic Potential of GPER1 Activation With a Focus on Sex Differences in Mood and Anxiety Disorders
Pavlina Pavlidi
- B10-14 Iron Overload Drives Oligodendrocyte Lineage Cell Death in White Matter Degeneration in Aging Brains
Philip Adeniyi
- B10-15 Neurochemical Changes May Explain Improved Outcomes in a Huntington's Disease Model
Priscilla Welter
- B10-16 Characterization of Oligodendrocytes in X-linked Dystonia Parkinsonism
Priya Prakash
- B10-17 Low Dose Ketamine Induces Unique Molecular And Cellular Responses in the Brains of Alzheimer's Disease Mouse Models
Ricardo Lima-Filho
- B 10-18 Enduring Behavioral Effects of Developmental Vitamin D Deficiency in a Rodent Model: Implications for Autism Spectrum Disorder
Roana Liz George
- B10-19 Therapeutic Potential of Elateriospermum tapos Yoghurt for Cognitive Impairments and Anxiety-Like Behavior
Ruth Naomi Manuel

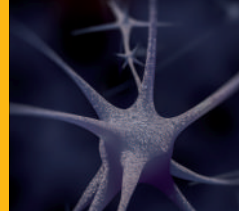


POSTER SESSION B

- B10-20 Chronic Mitochondrial Insult Causes Parkin Inactivation and Aggregation: Protection by Methylene Blue
Safreena Narukkottil
- B10-21 Widespread Mitochondrial and Cytoplasmic Dysfunction Due to Mutant Ataxin-1 Expression in Models of Spinocerebellar Ataxia Type 1
Sarita Lagalwar
- B10-22 Targeting Neurogenesis as Therapeutic Potential to Delay Alzheimer's Disease progression by Regulating the Wnt/ β -Catenin Pathway
Sarosh Farooq Khan
- B 10-23 Neuroprotection of Combretum molle Extract on Aluminum Chloride and d-Galactose- Induced Zebrafish Model of Alzheimer's Disease
Thandi Fasemore
- B 10-24 Astrocytic Activation Induces Cognitive Enhancement and A β Plaques Shrinkage in an Alzheimer's Mouse Model
Tirzah Kreisel
- B 10-25 Pumilio-1 Haploinsufficiency Exacerbates Secondary Brain Damage After Ischemic Stroke
Vijay Arruri
- B10-26 | vATPase Dysfunction in Parkinson's Disease
Violetta Ivanova
- B10-27 Interplay of Serum Lipids and Microglia in the Susceptibility to the Long-Term Behavioral Effects of Adverse Childhood Experiences
Weronika Tomaszewska
- B10-28 Pathological Products of Alzheimer's Disease Disrupt the Transcription of Circadian Clock Related Genes
Xuanyu Huang
- B 10-29 Effects of Cannabidiol-Enriched Cannabis sp. Extract in a 6-Hydroxydopamine Parkinson's Disease Model
Yolanda Paes-Colli
- B10-31 Crtac1B/LOTUS Improves Synaptic Dysfunction and Cognitive Impairment in Alzheimer's Disease Model Mice
Yuki Kawaguchi

B11 - Intracellular organelles and trafficking

- B11-01 Presynaptic Protein Synthesis and Sorting Mechanisms in Developing Human iNeurons
Julia Riedlberger
- B11-02 Extracellular Vesicles Derived From the Brains of Alzheimer's Disease Patients Induce Cognitive Impairment in Mice
Lisandra Silva Pinheiro
- B11-03 Cocaine-Induced Disruption of Endosomal Recycling: A Novel Mechanism in psychostimulant Addiction
Sara-Maude Belanger



POSTER SESSION B

B12 - Stem Cells and regeneration

- B12-01 miRNA-Mediated Regulation of Neuronal Regeneration Following Peripheral Nerve Injury
 Maria Peteinareli
- B12-02 Inhibition of G3BP1 Granules Promotes Mammalian CNS and PNS Axon Regeneration
 Pabitra Sahoo
- B12-03 Impact of Novel Multimodal Compounds on Neurogenesis Using an In Vitro Neurosphere Model
 Sara Xapelli

B13 - Lipids and glycobiology

- B13-01 Synaptic Lipidomic Changes in Parkinson's Disease
 Julita Chlebowicz
- B13-02 Oral L-Serine Rescues Neuropathic Behaviors Caused by Toxicity of 1-Deoxysphingolipids
 Susana Munoz

B15 - Pain / Addiction

- B15-01 Neural Correlates of "Incubation of Craving" for Alcohol-Associated Cues
 Laisa de Siqueira Umpierrez
- B15-02 Behavior and Cellular Effects of Oral Treatment With a Cannabidiol-Enriched Extract in Rats With Chronic Neuropathic Pain
 Raquel Maria Campos
- B15-03 DNA Methylation Analysis of OPRM1, DAT1, and DRD2 Genes in a Drug-Dependent Population of Manipur, India
 Reena Haobam

B16 - Other topics

- B16-01 In Silico Pharmaceutical Analysis of Naringenin and Carotenoids with Potential Activity Against Alzheimer's Disease
 Marisín Pecchio
- B16-02 Noradrenergic Dysfunction in AppNL-G- F Mice: Impaired Norepinephrine Metabolism and Compensatory Changes in Alzheimer's Disease
 Nurcan Kilic
- B16-04 Sex Differences in Adenosine in Sleep Circuitry
 Priyansha Dubey
- B16-05 Evaluation of Neuroprotective Effects of Dietary Raw and Roasted Pumpkin Seed Supplementation in Healthy Rats
 Seun Akomolafe

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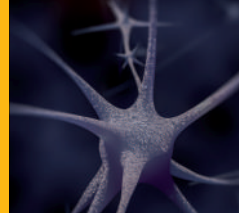
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**ISN-ASN
MEETING**

**NEW YORK
CITY, USA
AUGUST
19-22, 2025**



OPTIONAL NETWORKING EVENTS PROGRAM

WELCOME RECEPTION

TUESDAY, AUGUST 19, 19:00 – 20:00 | NORTH JAVITS CENTER | LEVEL 5 – THE OVERVIEW ROOM

Please join us for the official ISN-ASN 2025 Welcome Reception at North Javits. All participants and social guests are welcome to join this networking event.

RECEPTION AT POSTER AREA

TUESDAY, AUGUST 19, 17:00 – 19:00 | Poster Area

WEDNESDAY, AUGUST 20 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 attend these special events.

FAREWELL CELEBRATION

FRIDAY, AUGUST 22, 19:30 – 23:30 | THE TERRACE AT NORTH JAVITS (LEVEL 4)

Meet colleagues and international experts outside the session halls, at "The Terrace". 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.

April 18-22, 2026 | Saint Charles, Missouri

Saint Charles, Missouri

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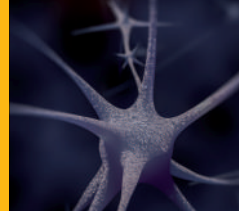


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Congratulations to the following young investigators for the ISN-ASN 2025 Meeting travel awards:

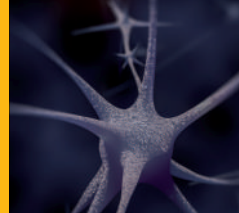
Abhishek Kumar	India	Gabriele Karger	Germany
Adeniyi Abiodun Adebayo	Nigeria	Georgia Papadimitriou	Greece
Agostina Belén Sacson	Argentina	Giovanna Carello-Collar	Brazil
Ailen Alba Colapietro	Argentina	Han Chew Gaelan Tan	United Kingdom
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Akhilesh .	United States	Hiba Khan	India
Alessandra Schmitt Rieder	Brazil	Ícaro Raony	Brazil
Alev Brigande	United States	Iheanyi K. Peter-Ajuzie	Nigeria
Alexandra Symeonof	Greece	Iker Bengoetxea De Tena	Spain
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Aliance Romain Fokoua	Cameroon	Isadora Matias	Brazil
Alyssa Anderson	United States	Ismail Gbadamosi	Poland
Amanda Rosanna Alves Barboza	Czech Republic	Izabela Lepiarz-Raba	Poland
Amany Digal Ladagu	Nigeria	Jacob Noeker	United States
Ana Laura Laura Torres Román	Mexico	Jazmin Grillo Balboa	Argentina
Ana Olivia Martins Laurentino	Brazil	Jazmín Soto Verdugo	United States
Ana Verónica Mendes Domingues	Portugal	Jessica Lorena Presa	Argentina
Anastasia Megalokonomou	Greece	Jessie Premereur	Belgium
Anastasia Vamvaka-Iakovou	Greece	Jimna Mohamed Ameer	India
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Andrey Vinicios Soares Carvalho	Brazil	Joelma Alves	Brazil
Anja De Lange	South Africa	Johanna Elisabeth Willker	Germany
Anna Emilia Hoffmann	Australia	Joseph Oyewale	Taiwan, Province Of China
Annelise Francisco	Sweden	Juan Gabriel Riboldi	Argentina
Anurag Kumar Singh	India	Julia Christina Riedlberger	Germany
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Avnish Kumar Verma	India	Juliana Paiva Silveira Lacerda	Brazil
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Farhanah Nabilah Sallie	South Africa	Leviticus Oghenevurinrin Arietarhire	Nigeria
Felipe Borges Almeida	Brazil	Lisandra Silva Pinheiro	Brazil



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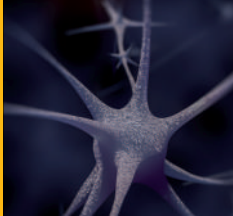
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Luciana Rocha Costa	Brazil	Raffaella Di Vito	Italy
Luiza Marques Prates Behrens	Brazil	Raissa Rilo Christoff	Brazil
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Mai Mamdouh Anwar	Egypt	Raquel Gonçalves Correia	Portugal
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Marie Pronot	United Kingdom	Sabrina Rosicler Salas	Argentina
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Marta Chierichetti	Italy	Sahabuddin Ahmed	United States
Marta Turri	Canada	Sanjeev Kumar Yadav	United States
Matías Ignacio Lantadilla	Chile	Sarosh Farooq Khan	Pakistan
Matías Jávega Cometto	Argentina	Saumitra Singh	United States
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Milica Zeljković Jovanović	Serbia	Shivanshu Bajaj	India
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Oritoke Modupe Okeowo	Nigeria	Wasiu Gbolahan Balogun	United States
Osmar Vieira Ramires Junior	Brazil	Xuan Ling Hilary Yong	Australia
Pablo Leal Cardozo	Brazil	Xuanyu Huang	Italy
Patrick Watermann	Germany	Yolanda Paes-Colli	Brazil
Pavlina Pavlidi	Greece	Zeinab Rafiee	Sweden



YOUNG SCIENTIST PAPER OF THE YEAR (MARK A. SMITH PRIZE)

MS01-01 Effects of the NLRP3 Inflammasome on Microglial Senescence in Tauopathies

Deniz Karabag

¹Institute of Innate Immunity, Medical Faculty, University of Bonn, Department for Neuroimmunology, Bonn, Germany

²German Center for Neurodegenerative Diseases (DZNE), Bonn, Germany

³Medical Faculty, University of Cologne, Cluster of Excellence Cellular Stress Response in Aging-associated Diseases (CECAD), Cologne, Germany

MS01-02 Antiretroviral Treatment Reveals a Novel Role for Lysosomes in Oligodendrocyte Maturation

Lindsay Festa

¹University of Pennsylvania, Department of Oral Medicine, Philadelphia, United States

²Children's Hospital of Philadelphia, Department of Neurology, Philadelphia, United States

MS02-01 $\alpha 2\delta$ - 2 Mutations Linked to Epileptic Encephalopathy Affect Calcium Channels and Synapses

Sabrin Haddad

Karl Landsteiner University of Health Sciences, Division of Physiology, Department of Pharmacology, Physiology, and Microbiology, Krems, Austria

MS02-02 Genetic Deletion of Hormone- Sensitive Lipase in Mice Reduces Cerebral Blood Flow but Does Not Aggravate the Impact of Diet- Induced Obesity on Memory

Cecilia Skoug

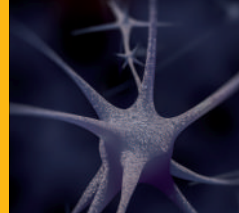
¹Department of Experimental Medical Science, Faculty of Medicine, Lund University, Lund, Sweden

²Wallenberg Centre for Molecular Medicine, Faculty of Medicine, Lund University, Lund, Sweden

MS02-03 Midkine is Upregulated in the Hippocampus Following Both Spatial and Olfactory Reward Association Learning and Enhances Memory

Sarah Abdulmalek

University College Dublin, School of Biomolecular and Biomedical Science, Dublin, Ireland

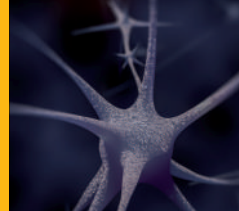


YOUNG SCIENTIST LECTURESHIP AWARD

- YSLA01 Brain Acid Sphingomyelinase—A Sex- Specific Mechanism for Drug Addiction**
Liubov Kalinichenko
University Clinic of Friedrich-Alexander University Erlangen-Nuremberg
- YSLA02 Dynamic Dynorphin Signals Modulate Associative Learning Through a Nucleus Accumbens- Ventral Tegmental Area Circuit**
Carina Soares-Cunha
University of Minho

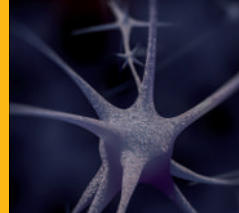
YOUNG MEMBERS SYMPOSIA AWARD

- YMS01-01 Embelin Counters Amyloid- β Neurotoxicity, Preserves Cognitive Function in Rats: Investigating Hippocampal Neurochemical Mechanisms**
Rimpi Arora
Christian medical college and hospital, neurology, Ludhiana, India
- YMS01-02 NEGR1 Gene Expression Modulation in APPSWE Cortical Brain Organoids as a Potential Therapeutic Strategy for Alzheimer's Disease**
Pablo Cardozo
Universidade Federal de Minas Gerais, Biochemistry and Immunology, Belo Horizonte, Brazil
- YMS01-03 Senescent Astrocytes Contribute to Age-Related Synaptic Decline: Insights from Mouse and Human Aging Models**
Isadora Matias
Universidade Federal do Rio de Janeiro, Institute of Biomedical Sciences, Rio de Janeiro, Brazil
- YMS01-04 Trans-Cinnamaldehyde Mitigates Neurodegenerative Changes in Wistar Rats Models of Insulin-Resistance**
Samson Olorunnado
University of Rwanda, Human Anatomy, Huye, Rwanda
- YMS02-01 Neuroprotective Effects Ofaminopropyl Carbazole Compound in Huntington's Disease**
Sunil Jamuna Tripathi
Johns Hopkins University School of Medicine, Department of Pharmacology and Molecular Sciences, Baltimore, MD, USA
- YMS02-02 A Reln Polymorphism Reduces Tau Pathology and Slows Cognitive Decline in Late-Onset Alzheimer's Disease**
Giovanna Carello-Collar
Biochemistry, Department of Biochemistry, Institute of Health Basic Sciences, Universidade Federal do Rio Grande do Sul (UFRGS), Porto Alegre, Brazil



YOUNG MEMBERS SYMPOSIA AWARD

- YMS02-03 ATF4 Promotes Dopaminergic Neurodegeneration via a Transcriptional Program That Inhibits Mtor Activity in Parkinson's Models**
Matthew Demmings
University of Western Ontario, Robarts Research Institute, London, Canada
- YMS02-04 Alterations in M4-Cholinergic Signaling following Dopamine Loss Contribute to Parkinsonian and L-DOPA-Induced Dyskinetic Behaviors**
Beatriz Nielsen
University of Colorado - Anschutz Medical Campus, Pharmacology, Aurora, United States
- YMS03-01 Neurotransmitter Metabolism after Neonatal Brain Injury**
Dawn Lammert
Johns Hopkins University School of Medicine, Department of Neurology, Baltimore, MD, USA
- YMS03-02 NADPH Oxidase (NOX2) Drives Immunometabolic Reprogramming of Microglial Pentose-Phosphate Pathway after Traumatic Brain Injury**
Nathan R. Strogulski
Trinity College Dublin, School of Biochemistry and Immunology, Dublin, Ireland
- YMS03-03 Dissecting the Role of an Antiviral Immune Response in a Mouse Model of Mitochondrial Neuropathology**
Melania Gonzalez-Torres
¹Institute of Neurosciences, Autonomous University of Barcelona, Barcelona, Spain
²Department of Cell Biology, Physiology and Immunology, Autonomous University of Barcelona, Barcelona, Spain
- YMS03-04 Striatopallidal Cannabinoid Type-1 (CB1) Receptors Determine Innate Defensive Behaviors**
Rui S. Rodrigues
Univ. Bordeaux, INSERM, Neurocentre Magendie U1215, 33000 Bordeaux, France
- YMS04-01 A Cell Type Atlas of Short Non-Coding RNA From Live Human Brain**
Serafima Dubnov
The Hebrew University of Jerusalem, The Edmond & Lily Safra Center for Brain Sciences, Jerusalem, Israel
- YMS04-02 Plasma P-Tau₂₁₇ for Early Detection of Amyloid Pathology in Older Adults Without Impairment: Evidence From Community-Based Studies**
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Delilah Hendriks

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Evan Goldstein

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EGLS02-01 Astrocytic Mitochondrial Dynamics in Aging

Luan Pereira Diniz

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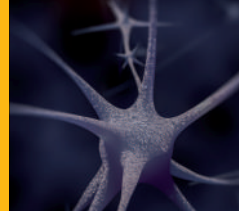
Vladimir Grubisic

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EGLS03-02 Social Regression: From a Latent Synaptopathy to an Overt Dysfunctions in Multisensory Social Processing

Caterina Michetti

¹Department of Experimental Medicine, Università degli Studi di Genova, Viale Benedetto XV, 3, 16132, Genova, Italy

²Center for Synaptic Neuroscience and Technology (NSYN@UniGe), Istituto Italiano di Tecnologia, Largo Rosanna Benzi, 10, 16132, Genova, Italy

EGLS03-03 Modifying Toxic TDP-43 Aggregation in Amyotrophic Lateral Sclerosis

Rebecca San Gil

School of Medical Sciences, The University of Sydney, Sydney, Australia

EGLS04-01 Synthetic Thyroid Hormone Analog DITPA Promotes Myelin Repair in Neuroinflammation

Paschalis Theotokis

¹Department of Neuroscience, School of Translational Medicine, Monash University, Prahran, Victoria 3004, Australia

²B Department of Neurology, Laboratory of Experimental Neurology and Neuroimmunology, AHEPA University Hospital, Stilponos Kiriakides str. 1, 54636, Thessaloniki, Macedonia, Greece

³Department of Histology-Embryology, School of Medicine, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece

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Joana Margarida Silva

Life and Health Sciences Research Institute (ICVS), University of Minho, Portugal

EGLS04-03 Astrocyte Response After Cold Injury in Mice: New Insights Into Tissue Response to Brain Edema With Focus on Epigenetic Mechanisms

Alejandro Villarreal

¹Instituto de Biología Celular y Neurociencias 'Profesor Eduardo De Robertis' (UBA-CONICET), Argentina, Facultad de Medicina, Universidad de Buenos Aires.

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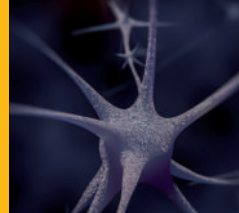
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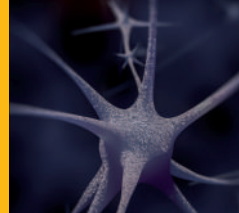
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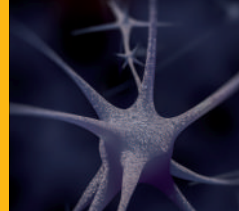
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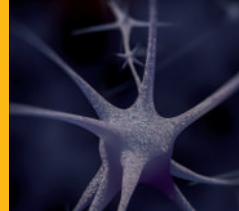
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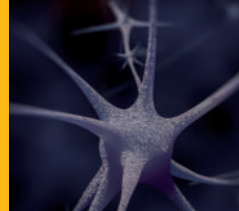
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2. To stimulate communication between investigators;

3. To disseminate new research findings through meetings, seminars, publications, and related activities; and

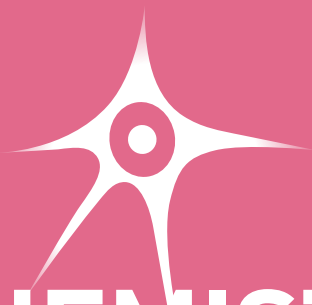
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