



CONGRESS
BOOK



SINS2025

PISA, SEPTEMBER 10 - 17 2025

21st NATIONAL
CONGRESS
OF THE ITALIAN SOCIETY
FOR **NEUROSCIENCE**





SINS2025

15-16 SEPTEMBER 2025

CONGRESS BOOK



SINS

THE
SOCIETY
FOR
INFORMATION
SCIENCE



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AND DOCUMENTALISTS



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We sincerely thank the following organizations for their generous support, which plays a key role in making the CNS 2008 Congress possible.

GOLD SPONSOR



BRONZE SPONSORS



REGULAR SPONSORS



Congress Venue



SINS 2025

10-12 November 2025

MEETING VENUE LEVEL

- Conference Room
- Exhibition Hall
- Seminar Room
- Seminar Room
- Seminar Room
- Seminar Room
- Seminar Room
- Seminar Room

LEVEL 1 - EXHIBITION

- Exhibition Hall
- Seminar Room
- Seminar Room

LEVEL 2 - EXHIBITION

- Exhibition Hall
- Seminar Room
- Seminar Room
- Seminar Room

LEVEL 3 - EXHIBITION

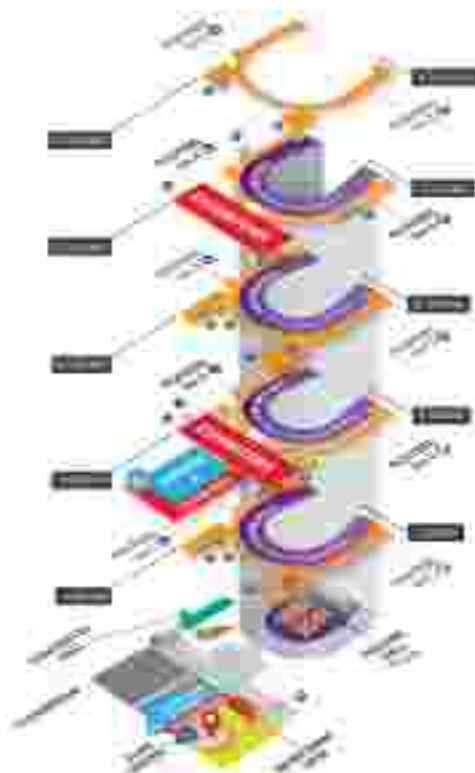
- Exhibition Hall
- Seminar Room
- Seminar Room

LEVEL 4 - EXHIBITION

- Exhibition Hall
- Seminar Room
- Seminar Room

LEVEL 5 - EXHIBITION

- Exhibition Hall
- Seminar Room





Congress Organization

ORGANIZING ASSOCIATION

National Society for Neuroscience (NSF)

<http://www.nsf.org>

ORGANIZING INSTITUTIONS

University of Michigan

London University, London

CONGRESS CHAIRS

Paula Brown

Harvard Medical School

University of Michigan

University of Florida

University of Florida

University of Florida

SCIENTIFIC COMMITTEE

COMMITTEE CHAIRS

Thomas D. Brown

University of Florida

MEMBERS

Lucia Brown

Harvard Medical School

University of Michigan

University of Michigan

University of Michigan

University of Michigan

University of Michigan

University of Michigan

University of Michigan

University of Michigan

University of Michigan

University of Michigan

University of Florida

University of Florida

University of California

University of California

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University of California

LOCAL ORGANIZING COMMITTEE

Luca Bernini	Chil. Pres.
Luigi Di Carlo	University of Pisa
Roberto Diorio	David Andrew Spivak
Federico Fenech	University of Pisa
Elisabetta Maria Geronzi	University of Pisa
Agostino Santopoli	University of Pisa
Andrea Silvestri	University of Pisa
Jose Fernando May-Hartmann	University of Pisa
Giuseppe Moser	Sankar Choudhary School of Advanced Studies
Michael Orr	University of Pisa
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Matteo Parramoni	University of Pisa
William Kufner	University of Pisa
Simone Ratto	Chil. Pres.
Alessandro Sisti	Chil. Pres.
Mario Suda	University of Pisa
Sebastian Sutherland	Chil. Pres.
Paula Teyssie	Sankar Choudhary School of Advanced Studies
Luca Turchetti	University of Pisa

CONGRESS SECRETARIAT

Andrea Bortol and Silke Gerni
LAAS SAS
rte de Calmar 136100
35240 Briele
Email: secretariat@congress2019.com

CONGRESS WEBSITE

<https://congress2019.com>

Congress Information

【关键词】 网络；网络成瘾；网络成瘾量表；网络成瘾量表-中文版

PLATO VENDOPIA PISA

the Palestine

Source: *U.S. Census Bureau, 1997*

Financial values of the 2000-2001 Congress in the House were, however, the highest among all 110th Congress freshmen and major events within years of the presidential election, in addition, to the House's 100th anniversary, are expected to stimulate additional revenue.

MULTI-SCALE AND DIVERGENCE

Wang, L., & Wang, J. (2010).

— 2007 —

The colored circles pointing to the Trade Fair, with their flat horizontal, oval-like, silhouette in a slightly compressed and flattened form.

Galleria d'Arte Antica

William A. Weeks, Editor, 100

0000-0001-9141-9141

© 2004 Blackwell Publishing Ltd, *Journal of Internal Medicine* 255: 105–112

50% of the total number of participants in each trial, receiving identical Hamilton before
 answers for all participants

Substance use

The Secretariat Office of SIMN 2022 will be located at the The Regency Hotel, 79-800 W. The Grand Avenue, Suite 1000, Los Angeles, CA.

Geographical Area covered by the

© 2004 Blackwell Publishing Ltd *Journal of Internal Medicine* 255: 229–236

Thyridoptera (Hymenoptera: Braconidae) 3: 375–376–433

Franklin D. Roosevelt Library, 300 N. Zeeb Road, Hyde Park, NY 12538

Reynolds, M. 1997. *Reynolds's Mammals of the World*. 4th ed. 1103 pp.

Following the opening text, all regularly required participants completed the 5-minute materiality checklist, which was designed to assist and inform their decision.

ADDITION TO THE THEATRE WALL

[illegible]

offer the "bridge" that it took to understand, explain, and control the world (and the world itself).

Participants who failed completed at least one stage (and still functioned at 40 percent growth) and data would be lost.

附註：此項資料係根據「台灣省人口統計」及「台灣省人口統計」資料整理而成。

Regulations on this will be provided during the early Congress session. The timing (and) of the report will be a subject of discussion with the relevant committees. The report will be provided to the Congress as soon as the relevant committees are ready.

CONGRESS \$4000:

There is no fee to attend or to watch the Congress and/or to attend the Congress.

PERSONAL PROPERTY

Participants and visitors to the Congress will be responsible for their personal belongings and not liable for any loss or damage. The Congress organizers are not liable for any loss or damage of the personal property of the participants.

CLEANROOM SERVICE

A **Cleanroom (if any will be available for the entire duration of the Congress** (before, during and after the Congress).

OPEN BUS

Two buses will be available at the morning and evening sessions (from 8.30 am to 5.00 pm) for offering the bus to the Congress visitors.

Morning session buses:

- This morning bus will depart from 8.30 am to 9.30 am.

Evening session buses:

- This evening bus will depart from 5.00 pm to 6.00 pm.

In the afternoon, and the evening at the bus will be available.

The buses will be used for the bus service during the Congress to ensure a quick and efficient service during the Congress between visitors, including those who are not attending the Congress between the Congress and the bus service.

CONGRESS

The Congress will be organized on **Thursday and Friday** from 10.00 am to 12.00 pm. Participants will receive a **bus ticket**, which will be collected by presenting the bus ticket provided in the Congress material and delivered at the Congress (the bus ticket will be provided at the Congress).

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WIFI ACCESS

There will be **WIFI access** and **WIFI access** during the Congress.

The event will be held in a room of the Congress and will be held in a room of the Congress. The event will be held in a room of the Congress and will be held in a room of the Congress. The event will be held in a room of the Congress and will be held in a room of the Congress.

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CERTIFICATE OF ATTENDANCE

The Congress will be held in a room of the Congress and will be held in a room of the Congress. The event will be held in a room of the Congress and will be held in a room of the Congress. The event will be held in a room of the Congress and will be held in a room of the Congress.



Ogni giorno, da oltre 100 anni, ci dedichiamo con passione a migliorare la vita delle persone e costruire un futuro più sano.

Con il nostro impegno, sviluppiamo soluzioni terapeutiche innovative per curare alcune delle patologie più complesse del corpo e della mente, focalizzandoci su quelle aree che presentano esigenze mediche non ancora soddisfatte.

Ottavia people creating new products for better health worldwide

Poster Display and Sessions

Poster Areas

Posters are displayed in the corridor that runs to the Plenary from registration (adjacent to the main hall). Their location are distributed across **five levels** identified in the map that is **Level 1 to Level 5**, corresponding to:

- **Level 1** - Plenary Deck
- **Level 2** - Ground Centre
- **Level 3** - Lower Deck
- **Level 4** - Plaza Level
- **Level 5** - Ground Floor

Each poster is divided into **left (L)** and **right (R)** sides. Posters fall in groups that follow a **10100** tag (a **1** start code, which refers to the 11m x 2.5m poster's display).

Example of a poster code 10100

- **1** indicates the level (Level 1 - Plenary Deck)
- **0** indicates the left side (L - right)
- **00** indicates the poster's position within the group

The 11m poster code, including the tag of presentation (e.g. 10100), the frequency of visit in the poster hall section of the Congress Book, and on the official website: www.eurpep2016.org

For Updates are encouraged to visit the website at least at 1 month prior to the poster session at least at office hours.

Poster Display

Posters will be on display on **Thursday, September 15** and **Friday, September 16**, during hours **08:00**.

A different set of posters will be presented each day. The poster day assigned to each presentation is indicated in the Poster Book, issued at the Congress time and on the official website.

Presentation Sessions

Poster Sessions

Each day of the poster sessions will feature **two dedicated presentation sessions**. During these two days, **presenting authors** will be available at their posters to discuss their research with attendees and present Q&A.

The two sessions are scheduled according to the **first digit** of the poster code:

- **Session 1** (08:00 - 10:30): for posters whose code ends in 0 (or an **odd number** e.g., 0100, 2000)
- **Session 2** (10:30 - 12:00): for posters whose code ends in 1 (or an **even number** e.g., 1100, 4000)

Presentation Guidelines

SESSION CHAIR GUIDELINES

Symposium & Oral Communication Sessions

The following guidelines apply to all Chair of Symposium and Oral Communication Sessions. Please read them carefully to ensure smooth coordination throughout the morning, and a positive initial experience for both speakers and audience members.

1. Before the Session

In the days leading up to the event, check the program provided to verify the exact time and location of your assigned Session.

Review the session schedule carefully, including the order of presentations, their titles, topics, and format. Read the Abstracts to determine and prepare your audience and presentation to help ensure the smoothest of sessions.

The first day of the session, arrive at the room at least 20-30 minutes early. This will give you time to meet the speakers, check that all presentations have been prepared correctly, and familiarize yourself with the room setup.

A hostess will be present in the room throughout the session. She will take care of starting each presentation at the appropriate time, assist with other logistical needs, and help maintain any unexpected issues, such as a speaker not showing up, or a presentation that is running over time. If necessary, she will provide a brief, but clear, explanation to the audience regarding any delays.

2. Opening the Session

Begin the session on time. Welcome the audience and briefly introduce yourself and your chair. During the session, stay busy and attentive to ensure that the host and center of the room is kept engaged.

3. During the Presentations

Provide a host support during their presentation.

Make sure to stick to the schedule. A 15-minute break and a 5-minute break are provided during each presentation, and ending at the point when the slides have been displayed. Be courteous but firm in enforcing this limit to ensure fairness to all speakers and to keep the session running smoothly.

- For Symposium Speakers, each presentation is allowed **18 minutes**, followed by **2 minutes** for Q&A, for a total of **20 minutes**.
- For Oral Communication Speakers, each presentation is allowed **8 minutes**, followed by **2 minutes** for Q&A, for a total of **10 minutes**.

It is essential to monitor time that slides to ensure that the session runs on time without any speakers being disappointed by present.

Monitor a strict and professional environment in the room, and promptly address any disruptions.

4. Q&A

After each presentation, you will moderate the question-and-answer session. Encourage audience participation by asking questions and taking questions to stay focused before starting. If the audience is hesitant, please use a question to kick them in and the discussion started. Ask to monitor the time effectively and fairly during the session to ensure that the session runs smoothly.

5. Closing the Session

At the end of the session, thank your speakers and thank both the speakers and the host for their participation.

It is absolutely critical that the session ends on time. We have a very packed program and even a five-minute delay can seriously compromise the schedule of the Congress.

SPEAKER GUIDELINES & SLIDE CENTRE INFORMATION

The following guidelines apply to **all speakers**, including those presenting in **Symposia and Oral Communication Sessions**. Please read the guidelines carefully to ensure smooth presentation and timely delivery of all presentations.

Slide Centre

All presentations must be submitted through the **Slide Centre**, located opposite the Secretariat Desk at Society House.

The Slide Centre will be open during all official Congress hours. A Screening staff will be available to assist you throughout the event.

Please note: personal laptops cannot be used for presentations under any circumstances.

Uploading Presentations

- Presentations must be uploaded at the Slide Centre, via USB, from 08:00 to 18:00 until 18:00.
- Screened, hard copy (PDF/PowerPoint) file will be available for the Screening staff to upload.
- Please complete the presentation at least **1.5 hours before** the start of your presentation period.
- Uploading files directly to the conference room is not permitted.
- After uploading, you must review and test your presentation at the Slide Centre, with assistance of screening if needed.

Presentation Format

- Presentations must be in **PowerPoint format** (ppt or pptx).
- One 10-slide template (A, B, C, D) screens must be submitted to Screening staff to a screening.
- Abstracts and presentation will be available at the Slide Centre, for 100 minutes each.
- A Power Point template will be available on the SRS Congress website and is strongly recommended to ensure timely submission of presentations.

Before Your Session

- Arrive at your assigned room at least **10 minutes before** the session begins.
- Allow a minimum 5 mins to review the content of presentation and discuss anything in discussion.

Time allocations are as follows:

Symposia Sessions
10 minutes for the presentation
2 minutes for Q&A
Total time: 22 minutes

Oral Communication Sessions
8 minutes for the presentation
2 minutes for Q&A
Total time: 10 minutes

During the Session

- Speakers are expected to attend to their presentation time for session. The session representative will monitor presentation.
- A 10-minute time will be given for the presentation, and a 2-minute time will be given for Q&A. Please do not exceed the time for the presentation. Please do not exceed the time for the presentation.
- Be ready to answer all the questions during the Q&A session. The session representative will monitor.

Screening Recommendations

- Bring a **backup copy** of your presentation on a separate USB stick.
- Use **external fonts and formats** to avoid display issues.
- Arrive early to allow time for technical technical adjustments.

POSTER PRESENTATION GUIDELINES

These guidelines apply to all poster presentations.

Posters must be prepared in the size specified in [Table 1](#) (in the Poster Index section) | [Table 1](#) (Index Page)

- **Thursday, September 11**
- **Friday, September 12**

Each day includes two presentation sessions. Presenting authors are expected to be present at their location during the session that corresponds to the first digit of their code.

- **Session 1** (9:30 – 12:30) displays with odd-numbered codes (e.g., 3.1.123)
- **Session 2** (1:30 – 4:45) displays with even-numbered codes (e.g., 4.2.111)

The exhibition committee for the Best Poster Awards will visit and submit with a comment card during these sessions. Attendance is required for all presenters.

Mounting and Removal

- Posters will be accepted from 08:00 on the day of presentation.
- All posters must be in place by 08:00.
- Posters should remain on display until 18:00.
- Posters must be removed by the end of the day, any posters left will be discarded.
- The fee for mounting will be provided from the booth.

Make sure to place your poster on the correct board according to the exact code (e.g., 3.1.123, which will be placed on the code).

Poster Areas

Posters are displayed in the company that corresponds to the poster code, generally displaying up to four of their code. These numbers are displayed across the board, identified by the number of LEVEL 1, the LEVEL 5 (continued right).

- **Level 1** – Animal Welfare
- **Level 2** – Biomedical Sciences
- **Level 3** – Basic Science
- **Level 4** – Public Health
- **Level 5** – Biomedical Sciences

Each poster code consists of the first 112 and 113 (114) digits. Posters are numbered and placed according to a **short code**, which refers to the first digit, and the **long code**.

Example of a poster code: 1.1.123

- 1 indicates the first digit (1 – Basic Science)
- 1 indicates the first digit (1 – Animal)
- 123 indicates the poster's position within the group.

For all poster codes requiring the full of presentation (e.g., 1.1.1.123 for Thursday, 11th day), the poster code is the first digit of the first digit and the first digit of the first digit.

Advancing brain health. Transforming lives.

Dr. John W. Kralik is a leading expert in the field of brain health. He is a member of the National Academy of Medicine and the National Academy of Sciences. He is also a member of the National Academy of Arts and Sciences. He is a member of the National Academy of Engineering. He is a member of the National Academy of Design. He is a member of the National Academy of Music. He is a member of the National Academy of Letters. He is a member of the National Academy of Sciences. He is a member of the National Academy of Arts and Sciences. He is a member of the National Academy of Engineering. He is a member of the National Academy of Design. He is a member of the National Academy of Music. He is a member of the National Academy of Letters. He is a member of the National Academy of Sciences.



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with 100% Oxygen Flow, 100% Nitrogen Flow, 100% Oxygen Flow



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Social & Cultural Events

The wonderful program of SALS 2025 will be enhanced by a selection of social and cultural events designed to offer attendees the opportunity to expand on what they discover for a full and complete knowledge of the

Whether you're looking to expand the city's history, spirit and traditions, or to informally offering to help those without resources, the SALS 2025 events are here to entertain and enlighten society.

SOCIAL EVENTS

WELCOME COCTAIL

Wednesday, September 10, 2025 - 19:30

Palacio Verde, Plaza Pío Jaramillo

At the start of the first day, all registered participants are warmly welcomed by the Reception Committee which will take place in the charming town of Pío Jaramillo. They welcome gathering will offer the opportunity to enjoy a cocktail with a welcome and enjoy a pleasant evening with drinks and light refreshments. It is a unique setting, steeped in history and culture. The program includes in the full program registration fee. Please make sure to confirm your registration to ensure a smooth experience at the Reception Committee.



LA CENA

Thursday, September 11, 2025 - 20:30

Loggia del Distrito del Centro First floor above the Museo del Centro del Surco
Address from Plaza del Surco 23

The Gala Dinner of SALS 2025 will be held in a truly magnificent setting, the Loggia del Distrito del Centro, an elegant space of historic value with the Living Room of the City. Taking the most of Plaza del Surco, this space will offer a unique view of the Plaza, the Cathedral, and the District, providing a unique view of the evening city.



CULTURAL EVENTS

LOW BATTERY OF ANA CATHODE - CONCEPT

Wednesday, September 11, 2013 • 10:00

Figures 10 and 11.

[illegible]

Received: 1999/12/14; revised version received: 1999/12/20; accepted: 1999/12/20.



bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted January 1, 2016. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

Journal of The MUSEI DELL'OPERA DEL BUSTO

Thursday, September 15, 2011 - 9:00 AM - 12:00 PM

Page 48 Norma D. Rice

With a lifetime highlight in his 1955 Pulitzer-winning book *Death in the Streets* spotlighting the 1930 Puerto Rico (PR) riots, the author, thought will segue from his power down. This remarkable immigrant from an illustrious family and University of Puerto Rico, developed knowledge of national markets, and the Caribbean (including PR) in 1940 for the Colonial Secretary and Lord of the



The last offering was apparently to replace the stone built at the village of P-4222 (P-18422) in an attempt to encourage cattle grazing and the construction of a wall and drainage system around the stone building, which is the only one of the stone buildings that has been found.

114 *Journal of Management Inquiry* 18(1)

This subject **has** a corresponding entry related to **Get New subject** with a word

Teams will be assigned in equal groups of up to 30 people, depending on the number from each participating university, and to all sit at the round tables. Prizes for teams of 20 or less will be awarded before the final hour of the competition.

© 2004 Blackwell Publishing Ltd, *Journal of Internal Medicine* 255: 105–112

Wanted to go to the Museum of Human Anatomy

**VISIT TO THE BUTSUGAL GARDEN AND MUSEUM OF THE UNIVERSITY OF FUKU,
September 9 to 14, 2025**
Open daily from 08:30 to 19:00
Entrance: Via Lane District and Via Route 58 (just 200 metres from the Laoting Road)

Since a peach was the high
feature of interest at the
of the Butsugal Garden and
Museum of the University of
Fuku, the whole university
spread garden in the north,
named in 1950, located in
the heart of the city, near
the main road, the garden
has been the garden and
has been the 2010 garden
since, in 1950, greenhouses
and other garden facilities
were included in the garden.



By the way, the adjacent Butsugal Museum preserves a wealth of scientific heritage including
fossilized organisms, minerals, and a large collection of plants that reflect the long-standing tradition of
plant research and collection at the University of Fuku.

Practical Information

Admission free for 2025 participants during regular opening hours (open every day)
See website [here](#) for the entrance.

For additional information, please visit <https://fuku.u-fukui.ac.jp/en/eng/01.html>

NEURO BRIDGE

THE FIRST-DOOR

Transnational Educational Initiatives

A bridge between the neurosciences and
the neurotechnologies: an interdisciplinary
programme of advanced education



Home page and PARTICIPATION FORM



UNIVERSITY OF PISA CHOIR - CONCERT

(Piano: *Anna Mannini*)
Conductor(s): *Roberto Tassinari*

Program

European Song
1915 - 1917

(from "The Forest")

*Alte gute alte Zeiten, die guten
Tage Europas, Europa, Europa
Tage, Europa*

(from "Midnight")

Die Fremden

(from "Katharina")

Edelmann, Edelmann

Calvin
1918 - 1919

(from "The German Song")

*Offenbar
Zurück, zurück, zurück
Viele sind hier, viele sind
Nur bei uns, nur bei uns
Nur die, nur die, nur die*



UNIVERSITY OF PISA & CNR

[illegible][illegible]

The ship was built between 1844 and 1850, and was completed following the opening of the southern port to American ships. The ship was built by James D. Smith, and was the only ship of the line built by him. The ship was built by the shipyard of James D. Smith, and was the only ship of the line built by him. The ship was built by the shipyard of James D. Smith, and was the only ship of the line built by him.

[illegible]

DAY 1 | Wednesday

September 10th, 2025

Verdi Theatre - THEATRE HALL

15.30 - 16.30

Symposium W1.1.1

NEURAL BASES OF SOCIAL COGNITION IN ANIMAL MODELS

Q-06 SYMPOSIUM

Chairs:

Francesca Lecchi (University of Rome, Rome, Italy)

Luisella Ferretti (University of Rome, Rome, Italy)

- Macaque Premotor Cortex Neuronal Dynamics During Human-Monkey Observational Learning Task
Francesca Lecchi (University of Rome, Rome, Italy)
- Frontopolar Cortex Dynamics During Observational Learning in Macaques
David Wiegand (University of Würzburg, Würzburg, Germany)
- Multi-Scale Dynamics Causally Modulates Emotion Dysregulation in Mice
Paola Riccardi (University of Turin, Turin, Italy)
- From Dementia to Autism: Rethinking to Understand Genetic Neurodegenerative Disorders
Margaret Wilson (National Institute of General Medical Sciences, Bethesda, MD, USA)

Odessa Cinema - ANALFI HALL

16.30 - 16.35

Symposium W1.1.2

NANOTOOLS FOR NEUROSCIENCE

Chairs:

Nora Tuncel (University of Amsterdam, NL, Amsterdam, The Netherlands)

Jana Fawcett (Baylor Research Institute, USA, Houston, Texas)

- Stimulating and Monitoring Neuronal Dynamics through Nanomaterials and Devices
Nathalie Gerschlager (University of Cambridge, Cambridge, UK)
- Stimuli-Responsive Nanofunctional Materials for Nerve Regeneration and Neurostimulation
Zeynep Kocak (University of Illinois, Urbana-Champaign, IL, USA)
- Engineering Neurotrophic Receptors at Extracellular Vesicle Surface for RNA Delivery
Luigi Marchetti (University of Pisa, Pisa, Italy)
- Nanoparticles to Treat and Monitor Amyloid Systems in Neurodegenerative Disorders
Nora Tuncel (University of Amsterdam, NL, Amsterdam, The Netherlands)

Open Cinema - VENEZIA HALL

15:30 - 18:30

Symposium W.I.C.**AUTISM SPECTRUM DISORDER: FROM MECHANISMS TO THERAPY****Chair:**

Stefano Di Lorenzo (University of Florence, Florence, Italy)

Marta Bignelli (University of Turin, Turin, Italy)

- Early-Life Adversity Shapes Behavioral Trajectories in CNTNAP2 Homozygous Mice
Gabriele Di Lorenzo (University of Florence - CNR, Florence, Italy)
- Inflammation and Oxidative Stress in Mouse Models of Autism
Laura Fagnano (University of Turin, Turin, Italy)
- NRG1 is a Possible Convergent Hub for Autistic Spectrum Disorders
Laura Carrozzini (University of Turin, Turin, Italy)
- SINEUP-RNA Therapeutic Strategy to Rescue CHD8 Haploinsufficiency in ASD
Nicola Bignelli (University of Florence, Florence, Italy)

Open Cinema - GENOVA HALL

15:30 - 18:30

Symposium W.I.C.**TRACING NEUROGENERATION AT SYNAPSES THROUGH MOLECULAR LENSES****Chair:**

Claudio Nicotri (University of Turin, Turin, Italy)

Marco Montanari (University of Turin, Turin, Italy)

- Brain Insulin Resistance Impairs Memory via Alteration of Protein S Palmitoylation
Sabrina Pappalardo (University of Turin, Turin, Italy)
- Separating Pre-frontal Nuclei Circuits with Non-Invasive Brain Stimulation in Early AD Mice
Francesca Montanari (University of Turin, Turin, Italy)
- Decoding Synaptic Failure in Alzheimer's Disease
Silvia Polverini (University of Milan, Milan, Italy)
- Proteomic Analysis of Lipidomic Impact on Healthy and Diseased Synapses
Nicola Montanari (University of Turin, Turin, Italy)

Oral Session - PISA HALL**15:30 - 16:30****Symposium Well-E****EPIGENETIC REGULATION OF NEURODEVELOPMENT IN HEALTH AND DISEASE****Chair:**

Michelle Orr (University of York, York, UK)

Nesma Elzein (University of Exeter, Exeter, UK)

- Exploring CHD7-CEMA Modulation for Urologic Treatments for CHARGE Syndrome
Jana Maria Cardoso (University of York, York, UK)
- Identification of Repurposed Epi-Drugs in a C-myc-driven CHARGE Syndrome Model
Lisa G. Schmitt (Institute of Developmental Neurobiology, Tübingen, Germany)
- Impairment of H3K91 Phosphorylation Enhances Chromatin Accessibility During Neurogenesis
Nesma Elzein (University of Exeter, Exeter, UK)
- Neurodevelopmental Impact of Maternal Cyp19a Knockout of SexS Epigenetic Regulator
Helle Jo Gjengedal (University of Oslo, Oslo, Norway)

Oral Session - CIPSO TECA HALL**16:30 - 16:30****Symposium Well-E****ADVANCING NEUROLOGICAL RESEARCH: THE VERSATILE ROLE OF BIOTOXINS****Chair:**

Luisa Bredon (Institute of Neuroscience - CNR, Pisa, Italy)

Andrea Piccinini (University of Ferrara, Ferrara, Italy)

- Botulinum Toxin in Motor Recovery: Innovation in Neurorehabilitation
Stefania Ballo (University Hospital of Pisa, Pisa, Italy)
- Anticoagulative Action of Botulinum Toxin and its Re-Engineered Derivatives
Anna Maria Comandini (University of Cagliari, Cagliari, Italy)
- Neurotoxins in Focus: Clostridial Toxins as Multifunctional Tools in Neuroscience
Luisa Bredon (Institute of Neuroscience - CNR, Pisa, Italy)
- Alpha-Latrotoxin as an Innovative Tool for Studying Peripheral Nerve Regeneration
Saverio Maggi (University of Pisa, Pisa, Italy)

Verdi Theatre - THEATRE HALL**17:00 - 18:30****Opening Ceremony****WELCOME AND GENERAL ADDRESS FROM THE SINS
PRESIDENT AND THE CONGRESS CHAIRS**

Walter Bucci (IAS President / University of Maryland, USA)
 Paolo Bucci (SINS 2025 Congress Chair / University of Pisa, Pisa, Italy)
 Maria Bucci (SINS 2025 Congress Chair / University of Pisa, Pisa, Italy)
 Giovanni Nardelli (SINS 2025 Congress Chair / University of Pisa, Pisa, Italy)

Greetings from the Authorities**SINS - Historical Lecture****ALLE ORIGINI DELLA CIVILTÀ DEI "MODERNI":
GALILEI E LA "LIBERTAS PHILOSOPHANDI"****AT THE ORIGINS OF THE CIVILIZATION OF THE "MODERNS":
GALILEI AND THE "LIBERTAS PHILOSOPHANDI"**

Walter Bucci (President, SINS) and Paolo Bucci (Congress Chair, SINS) / University of Pisa, Pisa, Italy

Chair:

Giovanni Nardelli (Congress Chair, SINS) / University of Pisa, Pisa, Italy

18:30 - 19:00**Matteo Chiari Lecture W4.3****CIRCUITS DISSECTION IN NEURODEVELOPMENTAL DISORDERS
FROM MECHANISMS TO THERAPEUTIC WINDOWS**

Matteo Chiari (Institute of Neuroscience - CNR, Pisa, Italy)
 Introduction: Lavinia Bucci (Executive Secretary of SINS) / University of Pisa, Pisa, Italy

Chair:

Walter Bucci (President, SINS) / University of Pisa, Pisa, Italy

19:00 - 19:30**UNIVERSITY OF PISA CHORUS - CONCERT**

Conductor: Mauro Stefano Bartolotti

Verdi Theatre - FOYER**19:30 - 20:30****WELCOME COCKTAIL**

DAY 2 | Thursday

September 11th, 2025

Verdi Theatre - THEATRE HALL

8:30 - 9:00

Symposium T1.1.8

UNRAVELING HUMAN MICROCIRCUITS: MULTIMODAL EX VIVO APPROACHES

Chair:

Sara Marchetti (University of Rome Tor Vergata, Rome, Italy)

Nicola Spinella (University of Padua, Padua, Italy)

- New Therapeutic Strategies for Drug Resistant Epilepsy: Human Brain Slice Recordings

Sara Marchetti (University of Rome Tor Vergata, Rome, Italy)

- Spatiotemporal Network Dynamics and Structural Correlates in Human Cerebral Cortex

Matteo Pappalardo (University of Padua, Padua, Italy)

- "Brain-on-a-Chip": Cortical Neuronal Assemblies

Nicola Spinella (University of Padua, Padua, Italy)

- Preparation of Acute Human Hippocampal Slices for Electrophysiological Recordings

Sara Marchetti (University of Rome Tor Vergata, Rome, Italy)

Dino D'Amico - ANALFI HALL

8:30 - 9:00

Symposium T1.1.9

MITOCHONDRIAL MEDICINE: ADVANCING THERAPEUTIC FRONTIERS

Chair:

Michaela Ghezzi (University of Pisa, Pisa, Italy)

Gabriele Gamba (University of Padua, Padua, Italy)

- Pre-Clinical Models for Developing Experimental Therapies in mtDNA Metabolism Defects

Gabriele Gamba (University of Padua, Padua, Italy)

- Targeting Mitochondrial Dysfunction in Forebrain Ataxia: Approaches to Therapeutic Strategies

Michaela Ghezzi (University of Pisa, Pisa, Italy)

- Therapeutic Strategies in Mitochondrial Optic Neuropathies

Gabriele Gamba (University of Padua, Padua, Italy)

- Mitochondrial Medicine: Advancing Therapeutic Frontiers

Michaela Ghezzi (University of Pisa, Pisa, Italy)

Oral Session - PISA HALL

8:30 - 9:30

Symposium 19.1.E

CEREBRAL CORTEX DEVELOPMENT AND DISORDERS: A REELIN PERSPECTIVE

Chair:

Ugo Bovolenta (University of Padua, Italy, Italy)

Emmanuel Darcq (Institut de Neurosciences - CNRS, France, France)

- **Reelin Sources and Levels in Normal and Pathological Neuronal Migration**
Julia Perrier (Institut de Neurosciences - CNRS, France, France)
- **Molecular Mechanisms of Reelin in ADLIE and Autism Spectrum Disorders**
Emmanuel Darcq (Institut de Neurosciences - CNRS, France, France)
- **Clinical Aspects of the Reelin Role in ADLIE**
Rebecca Matalicchio (Migra of Neurological Sciences of Bologna GDS Bologna, Italy)
- **Modeling Reelin Role in Corticogenesis**
Chia-Liwei Chen (University of Pisa, Italy, Italy)

Oral Session - OIPOTECA HALL

8:30 - 9:30

Symposium 19.1.F

DECIPHERING THE COMPLEXITY OF TREATMENT-RESISTANT SCHIZOPHRENIA: A MULTIDISCIPLINARY PERSPECTIVE

IP-60 SYMPOSIUM

Chair:

Simona Basso (University of Naples Federico II, Naples, Italy)

Francesco Mattia Rossi (University of the Republic, Porto Alegre, Brazil)

- **Molecular Landscape of Schizophrenia: Pathway-Specific Density Alterations and Antipsychotic Response**
Simona Basso (University of Naples Federico II, Naples, Italy)
- **Exploring Excitatory-Inhibitory Imbalance in Treatment-Resistant Schizophrenia: a TMS Approach**
Simona Basso (University of Naples Federico II, Naples, Italy)
- **Advanced Magnetic Resonance Imaging Using Artificial Intelligence for Treatment-Resistant Schizophrenia**
Marta Meloni (University of Pisa, Italy, Italy)
- **Metabolic Connectivity in Treatment-Resistant Schizophrenia: Network Analysis and ML Applications**
Simona Basso (University of Naples Federico II, Naples, Italy)

Verdi Theatre - THEATRE HALL

18:00 - 19:20

Symposium T15.1A

CHOROID PLEXUS SIGNALING: SHAPING BRAIN DEVELOPMENT AND FUNCTION

Chair:

Shantini Dargatzis (University of Essex, Essex, UK)
 Sarah Looze (University of Groningen) | Nieuw, Nieuw

- Investigating Human Choroid Plexus Maturation and Function Using Organoids
 Wei Seng Tang (Kunming Medical University, Kunming, China)
- Choroid Plexus and Physiological States: a Dynamic Duo
 Wouter Gans (University of Groningen, Groningen, Netherlands)
- The Choroid Plexus and the Non-Cell Autonomously Brain Regulation
 Annette Pöhl (University of Groningen, Groningen, Germany)
- Unraveling the Governance of the Brain with Choroid Plexus Organoids
 Sander Leijde (University of Groningen, Nieuw, Nieuw)

Odeon Cinema - ANALFI HALL

18:00 - 19:20

Symposium T15.2B

RESCUING MITOCHONDRIAL ACTIVITY AS THERAPEUTIC APPROACH IN NEURODEGENERATIVE DISEASES

Chair:

Walter Di Girolamo (University of Pisa, Pisa, Italy)
 Barbara Melega (University of Padova, Padova, Italy)

- Mitophagy in Neurodegenerative Diseases and Molecular Mechanisms of Protection
 Elena D'Amico (University of Padova, Padova, Italy)
- Restoring Mitochondrial Function as Therapeutic Approach in Parkinson's Disease
 Marco Stojan (University of Pisa, Pisa, Italy)
- Potentiation of Mitochondrial Activity by mTOR/REDD-1 Reverses Cognitive Impairment
 Giovanni Melchiorri (University of Pisa, Pisa, Italy)
- The C-Terminal of H2B: a New Biomarker for Neurodegenerative Diseases
 Irene Farioli (University of Padova, Padova, Italy)

Oral Cinema - VENEZIA HALL**12:00 - 12:20****Symposium TLE.2****FROM CELLS TO BEHAVIOR: UNRAVELING THE SPECIFICITY OF SEROTONERGIC NETWORKS****Chairs:**

Nicola Picciotto (University of Pisa, Pisa, Italy)

Luca Le Pera (University of Pisa, Pisa, Italy)

- **Neuron-Monocyte Interplay in Serotonin Subsystems**
Hans-Peter Domsch (Stockholm University, Stockholm, Sweden)
- **A miRNA-Exon Functional Unit in the Dorsal Raphe: the "Redout"**
Luisa Lombino (University of Pisa, Pisa, Italy)
- **Serotonin Circuits in the Emergence of Innate Fear Across Species**
Greta Zeno (Columbia University, New York, NY, USA)
- **From Emotional Contagion to Adaptive Behavior: a Brain Serotonin Effic**
Sara Mestayer (Rothamsted Institute of Neurobiology, Rothamsted, Harpenden, UK)

Oral Cinema - GENOVA HALL**12:00 - 12:20****Symposium TLE.3****NEUROBIOLOGICAL INSIGHTS INTO OBESITY AND EATING DISORDERS****U-28 SYMPOSIUM****Chairs:**

Marzia Fadda (University of Rome, Rome, Italy)

Giovanna Costa (University of Padova, Padova, Italy)

- **High-Fat Diet Promotes Brain Insulin-Resistant Metabolic and Amino Acid/TA and Neuroinflammation**
Lorena Stancik (University of Bonn, Bonn, Germany)
- **GluA2 in Food-Related Neural Circuits and Eating Behavior**
Maria Sallu (University of Milan, Milan, Italy)
- **Selective Oxytocin Receptor Antagonists: Innovative Approach for Binge Eating Behavior**
Luisa Bellodi (University of Campania, Campania, Italy)
- **Exploring Hypothalamic Molecular Landscapes in a Mouse Model of Anorexia**
Hafsa Elomri (University of Bonn, Bonn, Germany)

Orban Clowns - PISA HALL**18:00 - 18:30****Symposium Th.2.2****NEUROLOGICAL AND NEUROPATHOLOGICAL ROLE OF THE HISTONE ACETYLATION ERASERS HDACS****Chair:**

Lucio Alberdi (University of Rome, Tor Vergata, Rome, Italy)

Marina Pizzi (University of Milano-Bicocca, Italy)

- HDAC9 Knockdown Alleviates Farnesyl Receptor-Induced Neuronal Death after Stroke
Luigi Santoro (University of Padova, Padova, Italy)
- Synergistic Effect of HDAC Inhibitors and Repression in ALS
Marina Pizzi (University of Milano-Bicocca, Italy)
- Interleukin-1 β Modulates Synaptic Defects in HDAC-Infected Mice via HDAC4/MeCP2 Complex
Giovanna Cristofari di Palma (Università Cattolica del Sacro Cuore, Rome, Italy)
- Anti-Migraine Drug-Induced Gene Expression Resequencing in the Trigeminal Pain Pathway
Domenico Squitieri (University of Padova, Padova, Italy)

Symposium - GIPSOTECA HALL**18:00 - 18:30****Symposium Th.2.3****NAVIGATING THE DYNAMIC WORLD OF OLFACTORY PROCESSING****Chair:**

Serena Swadlow (University of Turin, Turin, Italy)

Paolo Rando (University of Turin, Turin, Italy)

- The Role of Trigeminal Activation in Olfactory Signal Processing
Francesca Devescovi (University of Turin, Turin, Italy)
- Resolving the Olfactory Mosaic: Supporting and Stem Cells in Olfactory Niche
Giovanna Cristofari di Palma (Università Cattolica del Sacro Cuore, Rome, Italy)
- Neuronal Heterogeneity and Plasticity in the Olfactory Bulb
Edoardo Maffei (University of Cambridge, Cambridge, United Kingdom)
- Olfactory Dopaminergic Cells: Key Players in Sexual Odor Perception
Serena Swadlow (University of Turin, Turin, Italy)

Verdi Theatre - THEATRE HALL

13:45 - 15:00

Symposium T13.3.A

METABOLISM AND NEUROENERGETICS: KEY DRIVERS OF CNS HEALTH AND DYSFUNCTION

Chair:

Paula Tegen (Georgia Institute of Technology, USA, Italy)

Parthiv Lodha (University of Michigan, USA, Italy)

- **Neuro-Glia Metabolic Coupling: Implications for Neuroenergetics, Plasticity, and Neuroprotection**
Parthiv Lodha (University of Michigan, USA, Italy)
- **Lactate Metabolism in the Context of Mitochondrial Function**
Rosa Clara Pacheco (University of Coimbra, Portugal, Italy)
- **Metabolic Trajectories in Human Neurological Development**
Maria Teresa Di Biase (University of Turin, Italy, Italy)
- **Cell Phenotype Classification by NMR Spectroscopy of Adult Cell Lines**
David Lockard (University of Toronto, Canada, Italy)

Oscar Cinema - ANALFI HALL

13:45 - 15:00

Symposium T13.3.B

EXPLORING INNOVATIVE PATHWAYS TOWARDS CELL-THERAPY APPROACHES FOR THE NERVOUS SYSTEM

Co-Chair SYMPOSIUM

Chair:

Maria Roldán (University of Seville, Spain, Italy)

Luis Rodríguez (University of Seville, Spain, Italy)

- **Existing Patient-Derived Cell Transplantations as Disease-Mimicking Models of Parkinson's Disease**
Sara Cano (University of Seville, Spain)
- **Mapping Dopaminergic Identifiers Through Their Axon Target Specificity**
Alejandro Fernández (University of Granada, Spain, Italy)
- **CRISPR-Cas9 Strategies to Enhance Oligodendrocyte Differentiation from Human iPSC**
Hiroaki Kato (The University of Tokyo, Japan, Italy)
- **Optimizing Cell-Replacement Approaches in Reconstructed Striatal Circuits in Huntington's Disease**
Marta Roldán (University of Seville, Spain, Italy)

Open Cinema - VENEZIA HALL

15:45 - 18:00

Symposium Th.3.2**NEOCORTEX DEVELOPMENT AND EVOLUTION - FOCUS ON RADIAL GLIA****Chair:**

Nancy Kalivas (University of Ferrara, Italy)

Marcello Costa (University of Pisa, Italy)

- Radial Glia Morphology in Neocortex Development and Evolution
Nancy Kalivas (University of Ferrara, Italy)
- Radial Glia under Fire: the immune impact on Brain Development
Marcello Costa (University of Pisa, Italy)
- Chimeric Mice to Study Physiological and Pathological Human Neurogenesis
Erika La Rosa (University of Turin, Italy)
- How the Extracellular Matrix Shapes the Developing Human Brain
Halla Lippman (University of Oxford, UK)

Open Cinema - GENOVA HALL

15:45 - 18:00

Symposium Th.3.3**MEMORY COLLAPSE IN CNS DISORDERS: NEUROBIOLOGICAL UNDERPINNINGS AND TREATMENT IMPLICATIONS****Chair:**

Nancy Kalivas (University of Ferrara, Italy)

Erika La Rosa (University of Turin, Italy)

- Neuronal Mitochondria Modulates Vulnerability and Resilience to Chronic Stress
Giovanna Pizzarello (University of Florence, Italy)
- Neurobiological Substrates of Emotional Memory Alteration Comorbid with Epilepsy
Roberto Cotroneo (University of Palermo, Italy)
- Understanding Fear Memory to Improve Therapies for PTSD
Maria Meneta (University of Rome, Italy)
- Targeting Dopamine D1 Receptors in Alzheimer's and Age-Related Memory Loss
Halla Lippman (University of Oxford, UK)

Global Classroom - PISA HALL

13:45 - 15:00

Symposium Th3.3.2

EXTRINSIC AND INTRINSIC FACTORS TO PROMOTE AXON REGENERATION

Chair:

William Balle (University of Pisa, Pisa, Italy)
 Alessandra Falaschi (University of Pisa, Pisa, Italy)



- **Local Translational Bridging: mitotic and Extrinsic Factors in Axonal Growth**
 Alessandra Falaschi (University of Pisa, Pisa, Italy)
- **Immune and Metabolic Regulation of Sensorimotor Physiology and Repair**
 Simone Di Gennaro (University of Pisa, Pisa, Italy)
- **Interactions with Neuroengineered Platforms for Neuronal Regeneration**
 Ori Shalev (Bar Ilan University, Ramat Gan, Israel)
- **WEMCIS Project Presentation**
 William Balle (University of Pisa, Pisa, Italy)

Global Classroom - GIPSOTECA HALL

13:45 - 15:00

Symposium Th3.3.3

NOVEL MULTIFACETED IMPLICATIONS OF MONOAMINERGIC DYSREGULATION IN NERVOUS SYSTEM DISORDERS

Chair:

Stella Lisa Morozzi (University of Turin, Turin, Italy) / C342 Teachers (Italy)
 Maria Chiara Morgese (University of Pisa, Pisa, Italy)

- **Amlyloid-beta Oligomer and Monoamineergic alterations after Streptozotocin Diet Exposure**
 Maria Chiara Morgese (University of Pisa, Pisa, Italy)
- **Allogeneic vs Experimental Autoimmune Encephalomyelitis: Link Between Neuroinflammation and Axonal loss?**
 Grazia Maria Morgese (University of Turin, Turin, Italy)
- **How Monoamine Loss Initiates the BDNF in Alzheimer's Disease**
 Lucia La Barbera (University of Turin, Turin, Italy)
- **Effect of Dopamine transporter inhibition in Adult Female Rats**
 Jane Suck (University of Western Australia, Australia)

Verdi Theatre – FOYER & SALA TITTA RUFFO**12:00 – 12:30****LUNCH**

Lunch boxes are distributed in the Foyer and in the Titta Ruffo Auditorium of the Theatre. Lunch can be ordered in the Foyer, as well as under the external awning of the Theatre entrance and in the hall located in the basement of the building opposite.

Verdi Theatre – THEATRE HALL**12:35 – 1:00****Special Lecture TdJ****TRANS-SYNAPTIC AND CONNECTIVITY EFFECTS OF ANTIPSYCHOTICS: IMPLICATION FOR TREATMENT RESPONSE IN PSYCHOSIS**

Speaker: Dr. Santuzza Schiavone (University of Naples Federico II, Naples, Italy)

Chair:

Carmina Nicosia (University of Naples Federico II, Naples, Italy)

Verdi Theatre – THEATRE HALL**14:30 – 15:00****Plenary Lecture TdJ****BUILDING FUNCTIONAL SENSORY CIRCUITS: UNRAVELING THE ROLE OF SPONTANEOUS ACTIVITY IN MODALITY-SPECIFICITY**

Speaker: Ligia Benito (University of Strasbourg, UMR 7252, Strasbourg, France)

Chair:

Luca Ferretti (University of Parma, Parma, Italy)

Verdi Theatre – BALCONY**15:30 – 15:45****POSTER SESSION TdJ****ODD-NUMBERED POSTERS: PRESENTING AUTHORS ONSITE AT THEIR POSTER**

Verdi Theatre - THEATRE HALL

15:30 - 16:00

Open Theatre TALK

MOLDEV | OBTAINING QUANTITATIVE DATA FROM NEUROTOXICITY AND SCREENING ASSAYS

Speaker: Eirikurei Olafsson

Gipsoteca - GIPSOTECA HALL

16:30 - 18:30

Brain Communications TALK

Chair:

Oliver Caspary (University of Bonn, Bonn, Germany)

Walter Driehs (University of Regensburg, Regensburg)

- Restoring Critical-Synaptic Connectivity in Huntington's Disease Through ADAM10 Inhibition

Ulrich Zischka (University of Bonn, Bonn, Germany)

- Radonin3A as Potential Positive Regulator of Permeated Synapses

Marty Rapier (University of Bonn, Bonn, Germany)

- Targeting Early Network Dysfunction in Rett Syndrome Through AMPA Receptor Modulation

Madeline Leitzinger (University of Bonn, Bonn, Germany)

- Subtype-Specific Ion Channels Drive Early Spontaneous Activity During Cortical Development

Sara Mochly (University of Bonn, Bonn, Germany)

- Neuromodulation: Adolescent-Like Plasticity in the Adult Mouse Visual Cortex

Francesca Maria Rossi (University of Bonn, Bonn, Germany)

- A Novel Role of LRKK2 in Cerebellar Dysfunction in PD

Angela Di Biase (University of Bologna, Bologna, Italy)

Verdi Theatre - CANTINETTA HALL

15:30 - 16:30

POSTER SESSION T1.12

Chair:

Natalia Pustoi (University of Cyprus, Cyprus, 611)

Federica Diemé (Ecole Normale Supérieure, France, 612)

- Functional analysis of in vitro cortical neural network development
Eduard Tremblé (Université du Québec, Canada, 613)
- Binding and Dynamics of Quasiparticle Agents for AGM in *Grobliostoma*
Sally September (University of York, United Kingdom, 614)
- Proper Excitatory/Inhibitory Ratio is Required for Eyelid-coupled Mouse Cortical Activity
Domenico Zoccol (University of California, USA, 615)
- Decoding of Spontaneous Head Movements in Freely Moving Mice
Edoardo Iannace (University of Pavia, Italy, 616)
- Memory to Motion: Transient Dynamics for Spatial and Postspatial Neural Networks
Svenja Schönborg (ZIN - Zoon, human cognition & PaS, Portugal, 617)
- Mitochondrial Swirls Reduce Cellulose Stress and Bacteria Interactions in *Alzotomus*
Arminia Tschopp (University of Zurich, Zurich, 618)

Verdi Theatre - THEATRE HALL

16:10 - 16:40

Open Theatre T1.2

AHSI | CELL ANALYSIS: HOW TO IMPROVE THE LAB WORKFLOW AND PRODUCTIVITY

Speakers: Lucretia Marie Ferreira and Sofia Menezes

Verdi Theatre - BALCONIES

16:30 - 17:45

POSTER SESSION T1.2

EVEN-NUMBERED POSTERS: Presenting Authors only at Verdi Piazza

Gigantea – GIGANTEA HALL

14:30 – 17:30

Oral Communication P2.2.7

Chairs:

Michela Delogu (University of Naples Federico II, Naples, Italy)
 Alessandra Sale (Institut d'Alimentació – CSIC, Pisa, Italy)

- **Dysregulation of the mTOR-TFR2 Pathway and Synaptic Plasticity in ASD**
Carolina Basso (University of Rome Tor Vergata, Rome, Italy)
- **Apical Dendrites Drive Entrainment Responses in the Visual Cortex**
Luigi Neriello-Rossi (Center for Neuroscience and Translational Studies – CN, University of Turin)
- **Astrocytes Generated (GE-Cells) Instantaneously Transiently Integrate in the Cerebellar Granulum**
Francesca Cazzanini (University of Turin, Turin, Italy)
- **An All-Optical Mouse Model of MCAO Occlusion and Recanalization**
Julius Zech (National Institute of Ocular, CNR, Milan, Italy)
- **Alpha-Synucleinopathy in C9 Pathology is Recurrent in Spinocerebellar ataxias including Alzheimer's Disease**
Flaminia Longato (University of Liverpool, Liverpool, United Kingdom)
- **Post-Parturition Alkaloid Disrupts Maternal Synaptic Function and Behavior**
Seppelino Parnelli (Università Giuseppe Rossa, Genova, Italy)

VIII FLOOR – CANTINETTA HALL

14:30 – 17:30

Oral Communication P2.2.8

Chairs:

Stefano Casarottando (University of Turin, Turin, Italy)
 Anna Pignatelli (Istituto Nazionale Tumori, Milan, Italy)

- **Social Isolation Induced Behavioral and Neurobiological Dysfunctions: Focus on Endocannabinoid System**
Stefano Schiavone (University of Naples Federico II)
- **Cholesterol H2 and D2 Receptor Blockade Modulates R573948 Antipsychotic-Like Effects**
Marco Eick (University of Cologne, Cologne, Italy)
- **Targeting Glutamate Receptors Brain Development in ACHD? Microglial Motility**
Walter Basso (University of Turin, Turin, Italy)
- **Targeting the mTORC1/TFEB Network Reduces Beta-amyloid Inflammation in Alzheimer's Mice**
Olivia Buschler (University of Cologne, Cologne, Italy)
- **Home-Monitoring for the Evaluation of Adaptive DES in Parkinson's Disease**
Luca Caffi (Catholic University of Milan, Milan, Italy)
- **Pharmacological Modulation of Mitochondrial Metabolism in Mitigates Alzheimer's Disease Neurodegeneration**
Federica Bertoni (Università Politecnica delle Marche, Ancona, Italy)

Vardi Theatre - THEATRE HALL**16:30 - 17:30****Open Theatre Th.3****TOMOCUBE | HOLOTOMOGRAPHY: NO STAINS, NO LABELS,
JUST TRUTH. SEE WHAT YOU'VE BEEN MISSING**

Speaker: Boris Cvetkovic

Vardi Theatre - THEATRE HALL**18:40 - 19:30****Plenary Lecture Th.2****HOW DOES CONTEXT AND EXPERIENCE SHAPE SOCIAL
FEAR CIRCUITS?**

Catherine Weiss, European Molecular Biology Laboratory (EMBL), Worm, Sept 1

Chair:

Ermanno Mombiazzi (Duke University, Durham, NC) (H1)

DAY 3 | Friday

September 12th, 2025



Oral Session - VENEZIA HALL

8:30 - 9:30

Symposium PSLC

FROM SELF TO OTHERS: NEUROBIOLOGY OF SOCIAL DECISION-MAKING ACROSS SPECIES

Chair:

Stéphane Schilg (University of Oxford, United Kingdom)

Co-Chair: Christelle Jourdain (University of Cambridge, Cambridge, UK, Italy)

- Negative Self-Experiences Shape Responses to Different Emotional States
Valeria Volterra (University of Turin, Italy)
- Prosocial Decision-Making in Food-Foraging Contexts
Christine Mappin (University of Cambridge, United Kingdom)
- Prefrontal-Amygdala Coordination During Prosocial Decisions
Oliver Schilg (University of York, United Kingdom)
- Individual Differences in Prosocial Learning Are Represented in the Hippocampus
Reto Schuster (University of Bonn, Germany)

Oral Session - GENOVA HALL

8:30 - 9:30

Symposium PSLC

THE AFFECTIVE-COMMUNICATIVE-SENSORY INTERPLAY IN PSYCHIATRIC DISORDERS: EVIDENCE FROM ANIMAL MODELS

Chair:

Sara Anna Basso (University of Geneva, Geneva, Switzerland)

Co-Chair: Priscilla Jourdain (University of Zurich, Zurich, Italy)

- Unravelling Mice Ultrasonic Vocalizations: Correlation Between Communication and Behavior
Marta Penni (University of Geneva, Geneva, Switzerland)
- Effects of Isolation Rearing on Amphetamine-Induced Ultrasonic Vocalizations and Neurogenesis
Marta Penni (University of Zurich, Zurich, Switzerland)
- Serotonergic/Glutamatergic Co-Transmission in the Amygdala: A Neuromodulator of Emotion
Adam Hamed (University of Cambridge, United Kingdom)
- Sensory-Webb Tactile Allotaxis in Psychiatric Mouse Models
Luis Delgado (University of Cambridge, United Kingdom)

Orban Cinema - PISA HALL

8:30 - 9:00

Symposium P3.1E

THE ROLE OF MICROGLIA IN REGULATING BRAIN DEVELOPMENT AND REPAIR

9-10 SYMPOSIUM

Chair:

Stefano Raffone (University of Milan, Milan, Italy)

Yoonkeun Oh (Korea University, University of Seoul, Seoul, Korea)

- Microglial E1c Mediate Ctg Depletion at Pre-Synapse Promoting Synaptic Pruning
Marta M. Wang (University of Cambridge, Cambridge, UK)
- Microglia Drive Neuronal Dysfunction in Down Syndrome by Affecting Inhibition
Alexa T. B. (University of Cambridge, Cambridge, UK)
- Microglial TNF α Regulates Myelin Regeneration and Functional Recovery after Stroke
Stefano Raffone (University of Milan, Milan, Italy)
- Microglial SHIP1 Limits Complement-Mediated Synaptic Pruning During Hippocampus Development
Alessandra M. (University of Cambridge, Cambridge, UK)

Orbanica - CIPSOATECA HALL

8:30 - 9:00

Symposium P3.2F

SURFING THE CALCIUM WAVE: FROM PHYSIOLOGY TO PATHOLOGY IN NEUROGLIA

Chair:

David D. (University of Cambridge, Cambridge, UK)

Thomas P. (University of Cambridge, Cambridge, UK)

- Impaired Proteostasis and Endoplasmic Reticulum-Mitochondria Interactions in Alzheimer's Disease Astrocytes
David D. (University of Cambridge, Cambridge, UK)
- ER-Mitochondria Distances Shape Mitochondrial Calcium Signaling in Astrocytes
David D. (University of Cambridge, Cambridge, UK)
- Calcium Signaling in Astrocytes Rescues Alzheimer's Disease Pathology
David D. (University of Cambridge, Cambridge, UK)
- A Downstream Dysregulation for Astrocyte Ca $^{2+}$ Signaling in Alzheimer's Disease
David D. (University of Cambridge, Cambridge, UK)

Verdi Theatre - THEATRE HALL

18:00 - 19:30

Symposium P3.3.8

DISSECTING BRAIN NETWORK FUNCTIONS BY MULTIMODAL OPTICAL TOOLS

Chairs:

Guillaume Balla-Baudry (Université d'Angers - CNRS, France, 2024)

Irene Szabadák (Université Claude-Bernard, France, 2024)

- Imaging Windows to Study the Pathophysiology of Vascular-Related Neurodevelopmental Disorders
Guillaume Balla-Baudry (Université d'Angers, France, 2024)
- Imaging Neuron-Astrocyte Networks for Spatial Memory
Guillaume Balla-Baudry (Université d'Angers - CNRS, France, 2024)
- Visualizing Neuronal Circuit Dynamics in Mouse Models of Brain Disorders
Guillaume Balla-Baudry (Université d'Angers - CNRS, France, 2024)
- Two-Photon Holographic Manipulation of Neuronal Circuits
Irene Szabadák (Université Claude-Bernard, France, 2024)

Oscar Cinema - ANALFI HALL

18:00 - 19:30

Symposium P3.3.8

MGYR NEURON DISEASE: ADVANCES INTO THERAPEUTIC STRATEGIES AND BIOMARKER DISCOVERY

Chairs:

Roberta Pavesoni (Université de Montréal, Montréal, Québec, Canada)

Guillaume Verstraëte (University of SAO, Sao Paulo, Brazil)

- Time-Dependent Cortical Projection Neuron Alterations in SMA Model
Roberta Pavesoni (University of Paris, Paris, France)
- Unravelling the Role of Tau Phosphorylation in Amyotrophic Lateral Sclerosis
Teresa Petyukova (State University of New York, Albany, NY, USA)
- Studying Neuromuscular Junction as Source of Potential Biomarker in ALS
Roberta Pavesoni (University of Montreal, Montreal, Québec, Canada)
- Cortical Network Dysregulation in a DHDN Mouse Model for Parkinson's Disease
Guillaume Verstraëte (Université d'Angers - CNRS, France, 2024)

Oral Claims - VENEZIA HALL

18:00 - 19:30

Symposium Fr.2.2**ON THE ROLE OF INTRACELLULAR Ca^{2+} -STORING ORGANELLES IN NEURODEGENERATIVE DISEASES****9-10 SYMPOSIUM****Chair:**

Silvia Piccirilli (University of Piemonte Orientale, Novara, Italy)
 Maurizio Diakoff (University of Pisa, Pisa, Italy)

- Targeting Lysosomal Channels for Neurodegenerative Diseases Therapy via Autophagy Regulation
 Martina Tofanelli (University of Naples Federico II, Naples, Italy)
- Ultrafine Air Pollution Components and Ca^{2+} Homeostasis Mechanisms in ALS
 Silvia Piccirilli (University of Piemonte Orientale, Novara, Italy)
- Geni Places the Role of Ca^{2+} Signaling in Microglia Motility
 Alberto Giambelli (University of Göttingen, Göttingen, Italy)
- Targeting Mitochondrial Ion Homeostasis as Pharmacological Strategy in Neurodegenerative Diseases
 Silvia Piccirilli (University of Piemonte Orientale, Novara, Italy)

Oral Claims - GENOVA HALL

18:00 - 19:30

Symposium Fr.2.3**A TRANSLATIONAL MULTIPLE SCLEROSIS VIEW: NOVEL INSIGHT IN THERAPEUTICAL APPROACHES****Chair:**

Paola Polito (University of Cagliari, Cagliari, Italy)
 Silvana Candelise (University of Catania, Catania, Italy)

- The Pathogenesis of Multiple Sclerosis as a Continuum
 Eleonora Zola (University of Cagliari, Cagliari, Italy)
- Behavioral and Cognitive Dysfunction in Multiple Sclerosis: the PISA Paradigm
 Lilla Portaccio (University of Florence, Florence, Italy)
- Understanding Behavior and Cognition in MS in Preclinical Models
 Andrea Manno (University of Pisa, Pisa, Italy)
- New Pharmacological Approaches in Preclinical Models of Multiple Sclerosis
 Rita Samanin (University of Catania, Catania, Italy)

Online Clinics - PISA HALL

18:00 - 19:30

Symposium P3.2.E**NEUROSCIENTIFIC AND NEUROENGINEERING METHODS FOR EARLY ALZHEIMER'S DISEASE DIAGNOSIS****Chair:**

Luisa Maria Garcia-Roldán (García-Suñer, Geriatria, Pso, 202)

Michael Lisse (Runde, Geriatria, Geriatria, Wg, 100)

- **Genetic Biomarkers in Cognitive Reserve: An Insight on SCD Progression?**
Wendy Beal (University of Arizona, Phoenix, USA)
- **Misdiagnosis Biomarkers of Alzheimer's Disease: Open Challenges and Future Perspectives**
Gina Di Lorenzo (University of Ferrara, Ferrara, Italy)
- **Interpretable Machine Learning Models for Early Alzheimer's Disease Diagnosis**
Tina Gelfand (Polina, University of Bari, Bari, Italy)
- **Advancing Alzheimer's Disease Diagnosis: Combining EEG Recordings and Computational Approaches**
Robert Lisse (Runde, Geriatria, Geriatria, Pso, 100)

Olympics - OLYMPIA HALL

18:00 - 19:30

Symposium P3.2.F**A SENSE FOR NUMBER IN FISH, HUMANS AND MACHINES****Chair:**

Tina Gelfand (Polina, University of Bari, Bari, Italy)

Maria Roldán (University of Bari, Bari, Italy)

- **The Early Development of Number Sense in the Fish Brain**
Tina Gelfand (Polina, University of Bari, Bari, Italy)
- **Evidence for a Number Sense in Humans**
Tina Gelfand (Polina, University of Bari, Bari, Italy)
- **Nonverbal Readout of Numerosity Perception**
Tina Gelfand (Polina, University of Bari, Bari, Italy)
- **Neurophysiological Foundations of Numerosity Perception**
Tina Gelfand (Polina, University of Bari, Bari, Italy)

Verdi Theatre - THEATRE HALL

13:45 - 15:00

Symposium Pt. 3.8

BRAIN MACHINE INTERFACES AND NEUROSCIENCE: PROMISING TOOLS FOR SENSORY-MOTOR RESTORATION

Chair:

Naveed Eliazzi, Neural Engineering of Humans, Boston, USA

Cécile Hain Odeh, Neural Systems, East Kent, UK

- Preserved Neural Dynamics Across Animals: Opportunity for Generatable Boly Models? **Yafaa Intermat, Centre for Cognitive Control, London, United Kingdom**
- Neural Decoding from Posterior Parietal Cortex **Matteo Tripodi, University of Bologna, Bologna, Italy**
- Touch: Science and Engineering for Bionic Prostheses and Collaborative Robotics **Changli Wang, State of Texas Systems, Delft, The Netherlands**
- Neuroprostheses and Wearable Robotics to Restore Sensory-Motor Functions **Shahin Mousavi-Ganji, University of California, Irvine, USA**

Olson Cinema - ANALYTICAL HALL

13:45 - 15:00

Symposium Pt. 3.9

EXERCISE AND NEUROMODULATION IMPROVE PARKINSON'S DISEASE: MOLECULAR AND CLINICAL EVIDENCE

Chair:

Simeon Paul, University of Paris, Paris, France

Piero Carboni, IRCCS Fondazione Policlinico Universitario Agostino Gemelli, Rome, Italy

- Clinical Outcomes of Intensive Physical Activity in Parkinson's Disease **Orla B Lazzaro, IRCCS Fondazione Policlinico Universitario Agostino Gemelli, Rome, Italy**
- Biomarker Outcomes of Non-Pharmacological Treatments in Parkinson's Disease **Amel Samir, Université Caen Normandie, Caen, France**
- Inflammation and Synaptic Plasticity: a TBS Perspective **Maria Stamova, IRCCS Fondazione Policlinico Universitario Agostino Gemelli, Rome, Italy**
- Profiling Biochemical Signatures of Intensive Physical Activity in Parkinson's Disease **Geoffrey D. Stansfield, University of Paris, Paris, France**

Open Cinema - VENEZIA HALL

15:45 - 18:00

Symposium Fr.3.2**HALLUCINOGENS FOR BETTER UNDERSTANDING AND TREATMENT OF BRAIN DISORDERS****Chair:**

Stefano Di Lauro (University of Turin, Italy)

Elisa De Luca (University of Turin, Italy) and (co-Chair) - CNA (Italy)

- **Chronic Anti-Psychotic Polypharmacy Promotes Visual Recovery after Cerebral Stroke**

Stefano Di Lauro (University of Turin, Italy)

- **LSO Reduces Alcohol Consumption and Reverts Organismic Dysfunction in Mice**

Stefano Di Lauro (University of Turin, Italy)

- **Neurotoxic Effects of Hallucinogens in Brain's Adult**

Stefano Di Lauro (University of Turin, Italy)

- **Primary Neuronal Cultures to Dissect the Cellular Mechanisms of Hallucinogens**

Stefano Di Lauro (University of Turin, Italy)

Open Cinema - GENOVA HALL

15:45 - 18:00

Symposium Fr.3.3**INNOVATIVE CELLULAR MODELS FOR ADVANCING NEUROLOGICAL RESEARCH****15:45 SYMPOSIUM****Chair:**

Matteo Bardini (IRCC Fondazione Policlinico, Italy)

Francesca Caraglia (University of Turin, Italy)

- **Modeling Sporadic ALS Using iPSC-Derived Spinal Cord Organoids: Morphological and Molecular Insights**

Matteo Bardini (IRCC Fondazione Policlinico, Italy)

- **iPS-Derived Cell Models to Characterize a Novel Neurodevelopmental Disorder (Genetic Disease)**

Francesca Caraglia (University of Turin, Italy)

- **Patient-Derived Human Organoids of SBA-Parkinson's Disease Recapitulate Fundamental Lewy Pathology**

Matteo Bardini (IRCC Fondazione Policlinico, Italy)

- **Human-Derived Brain Organoids to Model Alzheimer's Disease and Discover New Drugs**

Francesca Caraglia (University of Turin, Italy)

Orban Cinema - PISA HALL

13.00 - 13.00

Symposium P3.3.E**UNRAVELING SLEEP: TECHNOLOGY, BRAIN RECOVERY, GENDER DIFFERENCES, AND EVOLUTION INSIGHTS****Chair:**

Shella Corcoran (University of Pennsylvania and The University of California, San Diego)
 Shella Corcoran (University of Pennsylvania and The University of California, San Diego)

- **Monitoring Sleep in the Age of Wearable Technologies**
 Yanyu Bai (University of Pennsylvania)
- **Intrusion of Slow-Wave Sleep: Cortical Dynamics During Wakefulness Following Brain Injury**
 Shantanu Singh (University of Illinois, Urbana-Champaign)
- **Slow-Wave Sleep Impacts Memory Processes Differently in Male and Female Mice**
 Shella Corcoran (University of Pennsylvania and The University of California, San Diego)
- **Stressed Out, Not Sleep-Deprived: The Gut's Gutative Circuitry Resolves**
 Shella Corcoran (University of Pennsylvania and The University of California, San Diego)

Orbaneca - CIPSOATECA HALL

13.00 - 13.00

Symposium P3.3.F**BRAIN CONDITIONING TO INDUCE ISCHEMIC TOLERANCE: MECHANISMS AND THERAPEUTIC OPPORTUNITIES****Chair:**

Shella Corcoran (University of Pennsylvania and The University of California, San Diego)

Shella Corcoran (University of Pennsylvania and The University of California, San Diego)

- **Plasma-Electrodeless Brain Stimulation Conditioning as a Tool for Neuroprotection**
 Shella Corcoran (University of Pennsylvania and The University of California, San Diego)
- **Brain-Induced Tolerance Involves Modulation of Immune Pathways in Mice**
 Shella Corcoran (University of Pennsylvania and The University of California, San Diego)
- **Practical Multisite Trial of Stress Conditioning: Design, Harmonization and Results**
 Shella Corcoran (University of Pennsylvania and The University of California, San Diego)
- **Clinical Evidence of Remote Ischemic Conditioning in Adult Ischemic Stroke**
 Shella Corcoran (University of Pennsylvania and The University of California, San Diego)

Verdi Theatre - FOYER & SALA TITTA RUFFO**12:00 - 12:30****LUNCH**

Lunch boxes are distributed in the Foyer, Foyer and in the Titta Ruffo Auditorium of the Theatre. Lunch can be ordered in the Foyer, as well as under the external service network of the Theatre entrance and in the hall located in the basement of the building opposite.

Verdi Theatre - THEATRE HALL**12:45 - 1:15****Special Lecture P13****THE FUTURE OF BIOMARKERS IN NEUROLOGY:
FROM BASIC FINDINGS TO IMPACT**

Alexandra Pachatz (University of Bonn, Germany)

Chair:

Michaela Mallett (University of Oxford, Oxford, UK)

Verdi Theatre - THEATRE HALL**14:30 - 15:00****Plenary Lecture P14****THE ODDS OF A DECISION**

Michael Cavonius (UCSD, University of California, San Diego, United States)

Chair:

Marla Glimcher (Washington University of St. Louis, MO)

Verdi Theatre - BALCONIES**15:20 - 16:30****POSTER SESSION P15****ODD-NUMBERED POSTERS: PRESENTING AUTHORS ONSITE
AT THEIR POSTER**

Verdi Theatre - THEATRE HALL

15:30 - 16:00

Open Theatre Ex1

NIKON - INNOVATING YOUR IMAGING: NIKON ECLIPSE JI AND AX-NSPARC, A SMART IMAGING SYSTEM FOR AI-DRIVEN AUTOMATED ASSAYS WITH SUPER-RESOLUTION CONFOCAL MICROSCOPE

Speaker:

Nathan Perry

Simpotex - SIMPOTECA HALL

12:30 - 14:30

Oral Communications T1.3.T

Chair:

Sandra Knebel (University of Bonn, Germany) - CDR, PhD, Italy

Ellyssa M. K. Institute of Neuroscience - CNR, PhD, Italy

- Genetic Stimulation and Robotic Rehabilitation Reduce Post-Stroke Aphasia in Mice

Graham S. Knebel, University of Bonn, Germany - CDR, PhD, Italy

- Brain Signatures of Spontaneous Recovery After Stroke in Mice

Claudio S. Knebel, University of Bonn, Germany - CDR, PhD, Italy

- Influence of Sex and Metabolic Factors on Perinatal Cell Distribution in the Adult Mice

Graham S. Knebel, University of Bonn, Germany - CDR, PhD, Italy

- A Neural Substrate for Defensive Behaviour: Evolution in *Peromyscus* Mice

Graham S. Knebel, University of Bonn, Germany - CDR, PhD, Italy

- Hemiparesis in Children: Spontaneous and Treatment-Induced Plasticity

Graham S. Knebel, University of Bonn, Germany - CDR, PhD, Italy

- Neural Correlates of Walking and Reaching in Monkey Premotor Cortex

Graham S. Knebel, University of Bonn, Germany - CDR, PhD, Italy

Verdi Theatre - CANTINETTA HALL**15:30 - 16:30****POSTER SESSION P2.6****Chair:**

Stefano Casaccia (University of Toronto, Toronto, Italy)

Chairman: Stefano Casaccia (University of Toronto, Toronto, Italy)

- **Backtracking Alpha-Synuclein Pathology: Sensor Deficits in Parkinson's Disease Early Model**
Federica Caporinelli (University of East London, London, UK)
- **Investigation of PRRT2 and TTN1 Mutations with Human-Derived Glutathione Neurons**
Mehrin Samadpour (Center for Synaptic Research, Johns Hopkins University, Baltimore, MD, USA)
- **SABR-Mediated Alternative Mitophagy and Its Implications to Parkinson's Disease**
Helena Braghiera (University of Toronto, Toronto, Canada, CA, USA)
- **Timing Matters: How Daily Rhythms Affect Neuroprotective Therapy for Stroke**
Ester Lissotti (University of Naples Federico II, Naples, Italy)
- **Neural Encoding of Sensory "Bursts" in the Mouse Cortex**
David Benabib (Vanderbilt University, Nashville, TN, USA)
- **Comparing pTSAIP Splicing and Wild Type Human HSA in SclAD Mice**
Giovanna Caporin (University of Toronto, Toronto, Canada, CA, USA)

Verdi Theatre - BALCONIES**16:30 - 17:45****POSTER SESSION P2.2**

EVEN-NUMBERED POSTERS: PRESENTING AUTHORS ONSITE AT THEIR POSTER

Gigantea - GIPROTECA HALL

14:30 - 17:30

Oral Communication P3.3.1**Chair:**

Stefano Zucka (University of Turin, Turin, Italy)
 Elisabetta Redden (University of Parma, Parma, Italy)

- **Whisker-sensory Integration of Spatial Cues in the Ventromedial Prefrontal Cortex**
 Stefano Zucka (University of Turin, Turin, Italy)
- **Adaptation to Photoperiod via Dynamic Ecotone-Glutamate Neurotransmitter Segregation**
 Riccardo Melchiorri (Harvard University, Boston, MA, USA)
- **Neural Dynamics of Cross-Modal Memory Integration in Human Newborns**
 Marco Buiatti (University of Bristol, Bristol, Italy)
- **Interneurons Modulate Hippocampal Synaptic Transmission and Interfere with Episodic Memory**
 Hans-Joachim Bi (Carolee Scientific University of Rome, Rome, Italy)
- **New Repurposed Drugs for the Treatment of Spinal Muscular Atrophy**
 Maria Grazia Capovilla (University of Turin, Turin, Italy)
- **YGLF1/2 Control Dopaminergic Neurons Development via Hes1/Hi-5/Notch Signaling Using theoreti/Kat5/Hi-5/Notch Signaling**
 Ching-Hong Chen (National Central University, Chungli, Taiwan, Republic of China)

VIII Theatre - CANTINETTA HALL

14:30 - 17:30

Oral Communication P3.3.2**Chair:**

Jeffrey Caste (University of Cambridge, Cambridge, UK, Italy)
 Antea Meryta (University of Birmingham, Birmingham, UK, Italy)

- **Quantitative Cytoarchitectural Phenotyping of Maturation of Cortical Development With 3D Imaging**
 Hans Cornelius (University of Vienna, Vienna, Austria)
- **Reduced Oxytocin and Social Reward Sensitivity in Dams and Pups in Damaged Rats**
 Antea Meryta (University of Cambridge, Cambridge, UK, Italy)
- **Linking Cerebral 3D Neuroanatomical Dysfunction to CMTX Disease Pathogenesis**
 Ching-Hong Chen (University of Turin, Turin, Italy)
- **CRMA-6 Successfully Completed Phase-I Trial, Progressing in ASD Clinical Development**
 Antea Meryta (University of Cambridge, Cambridge, UK, Italy)
- **Modeling mTOR Pathway Dysregulation in Patient-Derived Neurons**
 Ching-Hong Chen (University of Turin, Turin, Italy)
- **Critical Role of NMDA in Human Cortical Development**
 David Ballester (University of Cambridge, Cambridge, UK, Italy)

Verdi Theatre - THEATRE HALL

17:45 - 18:30

Memory Section P1.2

ON THE ELECTROPHYSIOLOGICAL CONSEQUENCES OF BRAIN INJURY

Nicola Maggioni (University of Milan, Milan, Italy)

Chair

Piero Binda (University of Pisa, Pisa, Italy)

Verdi Theatre - THEATRE HALL

18:45 - 19:15

General Assembly of ILMN Members

DAY 4 | Saturday

September 13th, 2025



Verdi Theatre - THEATRE HALL

8:30 - 9:00

Symposium S4.3.8

THE RETINA AND BEYOND: LINKING VISION TO BEHAVIOR

Chair:

Saraia Romani (INCTE - Hospital Poma) S4A Meeting, Genoa (Italy)

Lucia Ziemni (ICB) Laura Ziemniowska (Symposium S4A Meeting, Genoa (Italy)

- Engineering the Retinal Code: Nano-Strategies to Restore Vision and Behavior
Belén D. Mares-Chavez (for Springer Neuroscience and Neurology (S4A Meeting, Genoa (Italy)
- Pupil Modulation Drives Retinal Activity in Mice and Human Perception
Sabine Romagosa (University of Würzburg, Würzburg, Germany - S4A Meeting, Genoa (Italy)
- Road for Saliency: Visual Feature Processing in the Superior Colliculus
Mehmet Akar (University of Leipzig, Leipzig, Germany)
- Intrinsic Dynamics of Visual Attention in the Early Visual System
Manfred Jägle (Institute of Vision and Behavioural Science - IZV, Bonn University, Bonn)

Odeon Cinema - ANALFI HALL

8:30 - 9:00

Symposium S4.3.8

CURRENT APPROACHES AND FUTURE PERSPECTIVES IN
HEREDITARY SPASTIC PARAPLEGIA RESEARCH

Chair:

Fátima Crescenzo (University of Naples, Naples, Italy)

Mark Merz (HSC Foundation, Basel, Switzerland)

- Structural Biology Meets Medicinal Chemistry: Drug Repurposing Strategies for HSP
Hafsa-Rosal Sebastião (University of Turin, Turin, Italy)
- Patient Cell Models to Study RBMS220-Dependent SMN2 and ALSN-Dependent LAMP
Fátima Crescenzo (University of Naples, Naples, Italy)
- Targeting Spastic Degradation to Treat HSP Type 4
Claudia Romagosa (University of Würzburg, Würzburg, Germany - S4A Meeting, Genoa (Italy)
- In Vivo and In Vitro Models of HSP Type 5a
Domenico Di Biase (IRCCS Santa Maria Eccellenza, Pavia, Italy)

Oral Clinicals - VENEZIA HALL

8:30 - 9:00

Symposium S4.3.C

SHINING LIGHT ON CORTICAL DYSFUNCTION IN NEURODEVELOPMENTAL DISORDERS

Chair:

Anna Lelkes Pfelecs Mende (Institute of Neuroscience - DSI, Pápa, Hungary)
 Pál Kovács (University of Debrecen, Debrecen, Hungary)

- Visual Cortex Pruning as Biomarker for Neurodevelopmental Disorders
 Katalin Maki-Florkovits (University of Pécs, Pécs, Hungary)
- Cortical Underpinnings of Tactile Perception in Autism
 Corinne Smeets (University of Bordeaux, Bordeaux, France)
- Visuomotor Learning Deficits in a Mouse Model of Rett Syndrome
 Caterina Maria Barthelemy (The University of Edinburgh, Edinburgh, United Kingdom)
- Age-Dependent Cortical Overconnectivity in Striatal Mice is Modulated by Arousal
 Anna Lelkes Pfelecs Mende (Institute of Neuroscience - DSI, Pápa, Hungary)

Oral Clinicals - GENOVA HALL

8:30 - 9:00

Symposium S4.3.D

NOT JUST NEURONS: GENETIC AND EXTRINSIC FACTORS UNDERLYING NEURODEVELOPMENTAL DISORDERS

9-12 EST/POSSIBLE

Chair:

Elis Avallone (University of Bologna, Bologna, Italy)
 Susie Burgoyne (Duke University, Durham, NC, USA)

- Myelin Generation and Beyond: Oligodendrocyte Precursor Cell Vulnerability During Development
 Iris Adonis Giamberini (University of Bologna, Bologna, Italy)
- Mitochondrial Tmem2 Receptor Controls Neuronal Metabolism and Synapses During Neurodevelopment
 Elina Tappala (2022) University of Turku, Turku, Finland)
- Sex-Exposed Regulation of Brain Blood Vessels after Maternal Immune Activation
 Hani Rashed (University of Colorado, Fort Collins, CO, USA)
- Astrocytic PSC-In Restoration in Therapy for Zfy25 Defects
 H. J. Zetterstrom (University of Jönköping - JMW, Jönköping, Sweden)

Oral Session - PISA HALL

8:30 - 9:00

Symposium SA3.2

ASTROCYTES AS PIVOTAL PLAYERS AND THERAPEUTIC TARGETS IN CNS DISEASES

Chair:

Barbara Bonaguidi | University of California, San Francisco, USA, USA
William Bonaguidi (University of Toronto, Canada, CA)

- **Unveiling the Impact of Prenatal Inflammation on Astrocytes**
Esther Marmè | Institute of Pharmacology - CNR, Italy, Italy
- **Astrocytic Dysfunction as Factors Contributing to Epileptogenesis in Symptomatic Epilepsy**
Rosa Di Sesto | CNR, Italy, Italy
- **Exploiting Astrocyte GDNF in Gene Therapy Approaches for CNS Diseases**
Daria Cattaneo | CNR, Italy, Italy
- **Exploring Gene Editing Tools for Astrocyte-Specific Therapy in Alexander Disease**
Vito Marzocchi | CNR, Italy, Italy

Oral Session - GIPROTECA HALL

8:30 - 9:00

Symposium SA3.F

ENVIRONMENT MATTERS: DECONSTRUCTING VULNERABILITY IN THE TRAJECTORY OF ABERRANT BEHAVIORS

Chair:

Luca Gallo | University of Milan, Italy, Italy
Rosa Gallo | University of California, Berkeley, CA, USA

- **Neonatal Viral Approach for Sensational TMC Memory and Mitochondria Dysfunction**
Walter Lando | University of Padova, Padova, Italy
- **Neuroplastic Mechanisms Underlying Social-Reward Deficits Following Early Life Isolation**
Andrea Marzocchi | University of Rome, Rome, Italy
- **Effect of Stress-Related Neuroplasticity on Alcohol Self-Administration and Impulsivity**
Rosa Gallo | University of California, Berkeley, CA, USA
- **Metabolomics Insights into a New Way to Promote Resilience**
Rosa Gallo | University of Milan, Italy, Italy

Verdi Theatre - THEATRE HALL

18:00 - 19:20

Symposium S4.2.A

ADVANCING THERAPEUTIC STRATEGIES FOR NEURODEVELOPMENTAL DISORDERS: BRIDGING SCIENCE AND CARE

Chairs:

Laura Baranes (Institute of Neurogenetics, CNRS, Paris, France)
 Benjamin Pless (University of North Carolina, Chapel Hill, NC, USA)

- The Winding Road Towards Gene Therapy for Cerebral Transporter Deficiency
 Catherine Bousquet (University of Strasbourg, CNRS, Strasbourg, France)
- Translational Opportunities for Angelman Syndrome
 Benjamin Pless (University of North Carolina, Chapel Hill, NC, USA)
- A Self-Regulating Gene Therapy for Rett Syndrome
 Diego Zavan (IRCCJ, University of Edinburgh, Edinburgh, United Kingdom)
- Pathogenic Variants of *FOXP3* Associate with Developmental and Epileptic Encephalopathy
 Elena Savio (IRCCJ San Carlo Hospital, Milan, Italy)

Odeon Cinema - ANALFI HALL

18:00 - 19:20

Symposium S4.2.B

EARLY-LIFE STRESS, IMMUNOLOGY AND GUT MICROBIOME: MECHANISMS AND THERAPEUTIC HORIZONS

Chairs:

Stephanie Gauthier (University of Moncton, Moncton, New Brunswick)
 Judith Henning (Medical University, Hospital Charité, Berlin, Germany)

- Early-Life Stress and Gut-Brain Crosstalk: Sex-Specific Influences on Behaviour
 Alessandra Calfone (University of Moncton, Moncton, New Brunswick)
- Gut Serotonin Affects Behaviour: The Gut Microbiome and Immune System
 Judith Henning (Medical University, Hospital Charité, Berlin, Germany)
- Impact of Prenatal Stress on Maternal Brain
 Anne-Sophie Sabido (University of Amsterdam, Amsterdam, The Netherlands)
- Childhood Trauma (Impact) on Brain Morphology, Connectivity, and Clinical Outcomes
 Anne-Sophie Sabido (University of Amsterdam, Amsterdam, The Netherlands)

Open Cinema – VENEZIA HALL

13:00 – 13:25

Symposium SA.2.4

EXCITATION-INHIBITION: MECHANISMS IN BRAIN DEVELOPMENT, FUNCTION AND DISORDERS

9-10 SYMPOSIUM

Chair:

Norm Datta University of Pisa, Pisa, Italy

Marina Bagnari IRECS Neuroscience Research Hospital, Rome, Italy

- Developmental Excitation/Inhibition Imbalance Disrupts Social Circuit via Activity-Dependent Transcriptional Remodeling
Alexand Stenke-Göhrke, University of Cologne and Cologne Symposia, Cologne, Germany, 19, 2024
- Synaptic Balance and Therapeutic Intervention Strategies for CDKL5 Deficiency Disorder
Antonio Bagnari, University of Turin, Turin, Italy
- Postnatal Development of the Tuberoinfundibular Dopamine System in the Mouse
Andreas Lüscher, University of Cologne, Cologne, Germany
- Age-Dependent Modulation of Prefrontal Cortex - Locus Coeruleus Connection
Laura Hale, Center for Complex Systems, MIT, Somerville, MA, USA

Open Cinema – GENOVA HALL

13:00 – 13:25

Symposium SA.2.5

UNRAVELING NEURODEVELOPMENTAL TRAJECTORIES: IMPACT OF EARLY-LIFE CHALLENGES

9-10 SYMPOSIUM

Chair:

Nicholas Trenton, University of Oregon, Eugene, OR

Valentina Caselli, University of Padova, Padova, Italy

- Unraveling the Impact of Pre- and Post-Natal Insults on Neurodevelopment
Hana Bana, University of Padua, Padova, Italy
- Prenatal LPS Elevates Alters the Developmental GABAergic Switch in Offspring
Sara Basso, Institute of Neuroscience, CNR Padova, Italy, 14/11
- Neuroplastic Mechanisms in Addictive Processes: Focus on Cognition During Adolescence
Francesca Bistacchi, University of Milan, Milan, Italy
- Developmental Psychoneuroendocrine Exposure: Relevance for Autism Spectrum Disorder
Alexandro Riva, Roma Tre University, Rome, Italy

Global Classroom - PISA HALL**18:00 - 18:30****Symposium 8a.2.2****SHEDDING LIGHT ON GENETIC AND ENVIRONMENTAL FACTORS UNDERLYING PSYCHIATRIC DISORDERS****Chair:**

Maria Antonietta De Luca (University of Padua, Italy)

Sara Bignardi (University of Ferrara, Italy)

- Response to Environmental Stimuli is Influenced by the 5-HTT (Serotonin) Polymorphism
Domenico Costa (University of Padua, Italy)
- TrkB Ligand vs. GRP Receptor: Distinct Cannabinoid Effects on Neurodevelopment
Bernardine Marino (University of Catania, Italy)
- Neurobiological Consequences of Adolescent Initiation of Synthetic Cannabinoid Receptor Agonists
Michael Pothos (University of Cyprus, Cyprus)
- Cannabinoid-Hypothalamic Pathway Interactions: Focusing on Hypothalamic AChE
Sara Bignardi (University of Ferrara, Italy)

Signature - DIPLOTECA HALL**18:00 - 18:30****Symposium 8a.2.3****MODELS AND APPROACHES TO TACKLE NEURODEVELOPMENTAL DISORDERS HETEROGENEITY****Chair:**

Antonella De Jager (University of Rome, Italy)

Marlene Engel (University of Strasbourg, France)

- New Risk Therapy Strategies for Neurodevelopmental Disorders
Angeles Barakos (Center for Complex Genotypes - UK, Italy)
- Genetics and Sex Hormones in ASD Development Using Brain Organoids
Ilana Uchida (UK Laboratory of Molecular Biology, Cambridge, UK)
- Mechanisms of Synaptic Dysfunction in the Angelman Syndrome
Gabriela Bernini (Institute of Neurobiology - CNR, Italy)
- Early Cerebellar Cerebellar Alterations in a Mouse Model of Ataxia-Telangiectasia
Erika Healy (University of San Francisco, Italy)

Verdi Theatre - THEATRE HALL**11:45 - 12:30****EENS - Presidential Lecture:****AMPA RECEPTOR NANOSCALE DYNAMICS IN SYNAPTIC PLASTICITY: FROM FUNDAMENTAL MECHANISMS TO NOVEL REGULATORY PATHWAYS**

Santti Oupajärvi, Stockholm University, Stockholm, Sweden

Chair:

Mikael Elomaa (Stockholm University of Music, Stockholm, Sweden)

Verdi Theatre - THEATRE HALL**12:30 - 12:45****Awards & Closing Ceremony**

POSTER
Index

Thursday
September 11th

COGNITION AND BEHAVIOR

Level 1 - Corridor on the Left

79-11,88 **Measuring Psychopaths: From Public Courts to Therapeutic Applications**

Understanding Psychopaths: From Biology to Therapeutic Applications

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1. A. L. Kuznetsov, *Journal of Applied Mathematics and Mechanics*, **24**, No. 5, 1960.

Dissociating Neural Pathways for Selective Attention in the Prefrontal Cortex

Disinhibitory (Intral) Pathways Are Selective Attention in the Prefrontal Cortex

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Fullfamilyry and c-Fos Indicate Multimodal Micro-Mechanisms in Erectile Contagion

Fluorimetry and c-Fos Indicate Multimodal Mirror Mechanisms in Electrical Contacts

[illegible]

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19/11/04 **Heights of Emotional Contagion via Action Units and Morphological Features**

Influences of Emotional Contagion via Action Units and Morphological Features

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Psychocytin Improves Cognition Via BDNF Fcγ in Fragile-X Syndrome

Fluticasone Improves Cognition Via BDNF Levels in Fragile X Syndrome

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J. S. Marshall, 10000 Highway 100, Suite 100, Houston, Texas 77055, U.S.A.

7/11/2020
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10.1016/j.celrep.2020.09.040

Synaptic Rabies Uncovers Aberrant Modulation of Synaptic Plasticity in Organotypic Cultures

Michael J. Kelly^{1,2}, David J. Kelly^{1,2}, David J. Kelly^{1,2}, David J. Kelly^{1,2}

¹Department of Psychology, University of Cambridge, Cambridge, UK

²Department of Psychology, University of Cambridge, Cambridge, UK

Abstract Synaptic plasticity is a key mechanism for learning and memory. However, the mechanisms underlying synaptic plasticity in organotypic cultures are poorly understood. Here, we use a novel approach to study synaptic plasticity in organotypic cultures, revealing that synaptic plasticity is modulated by synaptic transmission, which is in turn modulated by synaptic transmission.

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Probing Ex Vivo Human Hippocampal Microcircuitry with Imaging and High-Resolution Electrophysiology

Michael J. Kelly^{1,2}, David J. Kelly^{1,2}, David J. Kelly^{1,2}, David J. Kelly^{1,2}

¹Department of Psychology, University of Cambridge, Cambridge, UK

²Department of Psychology, University of Cambridge, Cambridge, UK

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Corticostriatal Delet Stress Reduces Prefrontal Cortex Excitability in Mice

Michael J. Kelly^{1,2}, David J. Kelly^{1,2}, David J. Kelly^{1,2}, David J. Kelly^{1,2}

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Purkinje Cells as Gatekeepers of Intrinsic Excitability: Insights from Optogenetics

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DEVELOPMENT

Level 2 - Corridor on the Left

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Studying Cellular Diversity of Hair Cell Progenitors

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Microglia as a Potential Regulator of Hypothalamic Metabolism

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A New Patient-Derived Model for the Study of SLC4-Related Synaptophysin

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Expanding HFDX Rule to SPG30 Clinical Variants to Zebrafish-Based Therapies

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Role of Neuroinflammation in APP/PS1 Zebrafish Brain Affected

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Sex Differences in CASP-Mediated Autophagy in ALS Char Cells

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Characterization of the Oxytocin System in EDWLS-Deficient Bipolar Mouse Model

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Activated Microglia Contribute to fragile X Syndrome: Role of IL13

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The Call: Primate Avatars Evoke Alters Sam Hecker and Mass Social Behavior

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P5-44.0 Cellular Senescence in Alzheimer Patients (PCA)-Derived Neurons and Potential Treatment

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Age-Dependent Increase of Zinc Binding Capacity in Kidney of Mice

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NOVEL METHODS AND TECHNOLOGY DEVELOPMENT

Level 1 - Corridor on the Right

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A Novel Fluorescent Sensor Reveals Mechanisms of Cellular Inhibition

Keywords: *depression; mood; self-esteem; social support*

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How do we know that the authors have not been influenced by the fact that the data were collected in a laboratory setting? The authors address this question in the discussion, stating that the results are consistent with those of other studies that have used naturalistic data (e.g., 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2

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Enteroic-Like Activity from Human Temporal-Cortical Brain Slices

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The Micro-Site Host: a Functionalized Membrane for Blood Filter Interface

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Targeted Neurostimulation Via Focused Ultrasound Aided Active Hemorrhoidal Brain Surgery

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附一：生薑湯

The Effect of Trypsinase on Microgilia Modicum in *Adioscoda* sp.

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Role and Characterization of Oxyanionic Intermediates in Mass Effluence Halls

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Cortical Spatiotemporal Refinement Tuned to Saccadic Amplitude

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Discretization with Continuous, Global Critical Existence

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Abstract

Thyroid Carotid Flexibility in Adult Humans Measured with Ultrasonographic B-mode

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DISORDERS OF THE NERVOUS SYSTEM

Level 3 - Corridor on the Left

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MT2 Regulates Mitochondrial Ca^{2+} Transport in Physiology and Neurodegeneration

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Proteomic Characterization of Extracellular Vesicles in Urine in Alzheimer's Disease Biomarkers

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A Novel NLRP3 Inflammasome Inhibitor: a Treatment for Alzheimer's Disease

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GA5-Cnt2 St Spike Subunit Induces Neuronal Toxicity Through NRP1/NDAC4/CAEB/IRK2 Axis

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Unraveling Neuroinflammation from in Adult neurogenesis impairment in Alzheimer's Disease

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Exploring the Role of Circadian Rhythms in C9orf72 Deficiency Disorder

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See Specific Neurodegeneration in C. elegans Models of Neurodegenerative Diseases

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C. elegans is a powerful model organism for studying neurodegeneration. It has been used to study a variety of neurodegenerative diseases, including Alzheimer's disease, Parkinson's disease, and Huntington's disease. This chapter discusses the use of C. elegans models to study these diseases and the insights they have provided into the underlying mechanisms of neurodegeneration.

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Worsening Sensory Neuropathy Caused by FLVCR1 Mutation in Mice

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Cerebellar Involvement in Limbic Seizure-Like Events: an in Vitro Study

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Mixing Alcohol with Ethanol Modifies Behavior and Methyltransferase Dopamine Transcription

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NR2F1 Deficiency Impairs Mitochondria in Mouse and Human iPSC-Derived Neurons

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NeuPy: Scalable, Rescale-Vision LLMs in NeuPy-GPT, NeuPy-MoE
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Diagnosis of Glioma: Glioma Perfusion and Brain Axon and Intra-axonal Neurodegeneration

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Fluid Biomarkers in Neurological Disorders: from Birth to Bed

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Neuropharmacology of Inhibition Attenuates Reinstatement of Cocaine Seeking in Water Rats

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In Vitro Modeling of Neuronal Glial Interactions Using Co-Culture Systems

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Shank3 Deficiency: Targeting mGluR5 to Restore Synaptic Function

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Enhancing Central Nervous System Regeneration via Mechanical Stimulation

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