WELCOME TO THE 23rd ESN BIENNIAL MEETING

7th Conference
On Molecular Mechanisms of Regulation in the Nervous System
WITH THE
PATRONAGE OF
NATIONS OF PARTICIPANTS

Australia | Hungary | Slovakia
Austria | India | Spain
Belgium | Israel | South Africa
Brazil | Italy | Sweden
Canada | Japan | Switzerland
Denmark | Netherlands | Turkey
Estonia | Poland | United Kingdom
France | Portugal | United States of America
Germany | Russia | Serbia
Greece | | |
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Dear Participants,

Welcome to Milan!

Elucidating the molecular mechanisms of regulation of the nervous system is a major challenge in the field of neurochemistry. ESN has regularly focused on the latest advances in this area at its biennial meetings for over 40 years. This theme will be continued at our 2019 ESN Meeting in Milan which will cover a variety of topics linked to the molecular and cellular mechanisms underpinning brain function in health and disease. The Symposia and Plenary Lectures feature neurodevelopment and neurodegeneration, brain metabolism, neuroreceptors and signaling, neuropeptides, glial function, organelle dysfunction, epigenetic mechanisms, protein aggregation and folding, and novel preclinical disease models and tools. Our goal is to promote discussions between junior and senior scientists and to share new findings between basic and clinical researchers. The meeting will outline new concepts and future directions in neurochemistry and provide a very active scientific and social programme for our young generation of neurochemists.

We welcome you in Milan to participate in this exciting meeting and to share with us your latest research.

We wish you a pleasant stay and a fruitful meeting for your science!

Nico Mitro
Chair of the 23rd ESN Meeting Local Organizing Committee

Angelo Poletti
Co-chair of the 23rd ESN Meeting Local Organizing Committee

Massimo Aureli
Co-chair of the 23rd ESN Meeting Local Organizing Committee
Dear Participants,

We are delighted to welcome you on behalf of the European Society for Neurochemistry (ESN) to the 23rd meeting of our Society in Milan, Italy. The ESN was founded in 1976 with the objectives to advance Neurochemistry for the public benefit and to promote the development of Neurochemistry in Europe. Every second year we come together to look over our scientific developments, to get inspiration for further studies and to establish new collaborations. Two years ago in Paris we celebrated with the International Society for Neurochemistry and the Journal of Neurochemistry our 40th, 50th and 60th anniversaries, respectively – which together accounted for 150 years of excellent science! This year we are meeting in Milan which has an outstanding record in neuroscience and neurochemistry. The Program Committee, together with the Local Organising Committee, have prepared an exciting scientific programme with prominent international plenary speakers, topical symposia and numerous poster presentations. It has already become a tradition to have the Young Members’ Symposia at ESN meetings with the aim of giving our young members international experience in presenting their latest scientific results as symposium talks. We hope that our meeting will give you numerous opportunities for scientific exchange and collaboration. The scientific content of our meeting will be enriched with two special events for young scientists and completed by relaxing social events. We are convinced that you will enjoy our meeting and that you will have a great time in Milan.

Ago Rinken  
President of ESN

Natalia Nalivaeva  
Secretary of ESN

Johannes Hirrlinger  
Treasurer of ESN
23rd ESN BIENNIAL MEETING 2019 in Milan
ESN Council

Ago Rinken, President (Estonia)
Natalia N Nalivaeva, Secretary (United Kingdom/Russia)
Johannes Hirrlinger, Treasurer (Germany)
Jacqueline S de Bellerocche, Company Secretary (United Kingdom)
Eva-Maria Blumrich, ESN YSSC (Germany/United Kingdom)
Ilana Gozes (Israel)
Fabrizio Michetti (Italy)
Nico Mitro (Italy)
Jean-Pierre Mothet (France)
Alessandro Prinetti, Past-President (Italy)
Marcus Rattray (United Kingdom)
Anthony J Turner, Historian (United Kingdom)
Helle S Waagepetersen (Denmark)

Local Organizing Committee

Nico Mitro (Milan, Italy) - Chair
MariaPia Abbracchio (Milan, Italy)
Massimo Aureli (Milan, Italy)
Angelo Poletti (Milan, Italy)
Matteo Audano (Milan, Italy)
Donatella Caruso (Milan, Italy)
Elena Chiricozzi (Milan, Italy)
Riccardo Cristofani (Milan, Italy)
Mariarita Galbiati (Milan, Italy)
Silvia Pedretti (Milan, Italy)
Natalia N Nalivaeva (ESN Secretary, Leeds, United Kingdom/St Petersburg, Russia)
Johannes Hirrlinger (ESN Treasurer, Leipzig, Germany).

Programme Committee

Anthony J Turner (Leeds, United Kingdom) - Chair
Philip M Beart (Melbourne, Australia)
Olga Corti (Paris, France)
Ralf Dringen (Bremen, Germany)
Ilana Gozes (Tel Aviv, Israel)
Ago Rinken (Tartu, Estonia)
Fabrizio Michetti (Rome, Italy)
Alessandro Prinetti (Milan, Italy)
Nico Mitro (Milan, Italy)
Marcus Rattray (Bradford, United Kingdom)
Helle S Waagepetersen (Copenhagen, Denmark)
Andrzej Szutowicz (Gdansk, Poland)
GENERAL INFORMATION

Congress venue address and contact

Università degli Studi di Milano
Via Festa del Perdono, 7
20122, Milan

The meeting will take place at the Università degli Studi di Milano, one of the largest universities in Italy. Scientific sessions will be held in the main historical building of the university: “Ca’Granda”, located very close to the main attractions of the city.

Registration Desk opening hours

Secretariat desk is located to the right of the main entrance (Via Festa del Perdono 7, Milano) of Università degli Studi di Milano (atrio aula magna - foyer auditorium).

<table>
<thead>
<tr>
<th>Opening hours</th>
<th>Time</th>
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<tr>
<td>Sunday 1 September</td>
<td>From noon to 6.00 pm</td>
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<tr>
<td>Monday 2 September</td>
<td>From 8.30 am to 8.30 pm</td>
</tr>
<tr>
<td>Tuesday 3 September</td>
<td>From 8.30 am to 6.30 pm</td>
</tr>
<tr>
<td>Wednesday 4 September</td>
<td>From 8.30 am to 1.00 pm</td>
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</tbody>
</table>

Tickets for booked social events are included in your registration documents. If you cannot attend an event, please return your ticket either to the registration desk or to the congress office. On-site payments for registrations can be made and tickets for social events can be purchased at the registration desk. Payments can be made by cash, credit or debit card (VISA, MasterCard, Maestro).
REGISTRATION FEE
On-site registration

Standard fee € 350
ESN Members registration fee € 300
Student ESN Members € 200
Students fee € 250
Daily fee € 200
Accompanying persons fee € 100

Language
The official Language of the Conference is English, which will be used for all presentations and printed material.

Conference badge
All attendants must wear their name badges at all times to have access to all conference sessions, events and receptions.
Please make sure to bring your badge and invitation cards with you to attend the social events.
Attendance may be refused to the participants devoid of the registration documents and invitation cards.

Wi-Fi connection
Wi-Fi connection is available throughout the University.

Presentation guidelines
The Session Chairs and Co-chairs are responsible for managing the time for questions and answers as scheduled. Computer and projection equipment will be available in each conference room. For presentations we advise to use PowerPoint or pdf slides, 4:3 layout, according to the template. Presentation files should be uploaded via USB memory device in the conference room assigned to each Speaker. Please upload your presentation during the break preceding your session at the latest.

Poster presentation schedule
All posters will be on display during the Monday and Tuesday poster sessions. Please check the number of your poster in the ABSTRACT INDEX. Posters should be mounted on Monday, September 2nd morning and removed on Tuesday, September 3rd evening. Presenters of the posters with odd numbers should be in attendance on Monday and, of even numbers, on Tuesday poster sessions, respectively.

Poster presentation schedule:
Monday Sept 2nd Poster Session: from 12.30 pm to 3.00 pm
Tuesday Sept 3rd Poster Session: from 12.30 pm to 3.00 pm

Poster removal schedule:
Tuesday Sept 3rd from 6.30 pm to 7.30 pm

Setting up material will be available on site. The organizers are not responsible for anything left unattended at the poster site, including posters.
Personal Property
The participants are advised to take good care of their personal belongings, and not leave them unattended. Neither the Conference organizers nor their staff will be responsible for any loss or damage of any personal property of the participants.

Disclaimer
The Organizing Committee does not accept any liability for injuries/losses of whatever nature incurred by Conference participants and/or accompanying persons, nor for loss or damage to their luggage and/ or their personal belongings.
SOCIAL EVENTS

The Social Programme includes:

- Welcome Reception on Sunday 1st September
- Conference Dinner on Tuesday 3rd September
- Walking city tour on Wednesday 4th September

WELCOME RECEPTION
Università degli Studi di Milano | Sunday, September 1 | 2019 – 7.30 pm
Cortile del ‘700 – Courtyard ‘700.

CONFERENCE DINNER
Università degli Studi di Milano | Tuesday, September 3 | 2019 – 8.00 pm
Cortile D’Onore – Courtyard UniMI.

Dress Code: smart casual.
Please make sure you bring your invitation card with you.
SPECIAL DIET: please place your “Special Diet ticket” on the table in front of you to help the service.
Thank you in advance.

WALKING CITY TOUR
Wednesday, September 4th | 2019 – 1.00 pm
Meeting point at the entrance of the University.
Milan is one of the most important and stylish cities in Italy. Milan's origin goes back to 400 B.C., when Gauls settled and defeated the Etruscans. In 222 B.C. the city was conquered by Romans and was annexed to the Roman Empire. In 1300 the Visconti family brought a period of glory and wealth to the city, building the Duomo and the Castle. The Sforza family then assumed the Castle and the power of the Visconti family, achieving peace after many years of war against Venice and Florence. Under the Sforza duchy the city began the development of sciences, art and literature. Ludovico il Moro (Ludovico Sforza) called Leonardo da Vinci and Bramante to his court. Attractions not to be missed are the Duomo – the third-largest cathedral in the world; the Sforzesco Castle, built in 1368 later became an elegant and stunning Renaissance residence; Teatro alla Scala Opera House – completed in 1776 and hosting superb theatrical productions; and Santa Maria delle Grazie – an elaborate church dating back to 1463, home of Leonardo da Vinci's famous painting 'The Last Supper'. You can also enjoy many art galleries and museums, such as Pinacoteca di Brera Gallery – housing one of Italy's most important art collections; the Museo del Novecento, the Modern Art Gallery and many others. The stratification of these different art styles gives Milan a quintessential uniqueness and will provide an unforgettable setting for the ESN2019 Conference. Milan is the city of fashion, with shops to suit all tastes and budgets. Italy is well known for its cuisine, and the Milanese cuisine has much to offer starting from its classic risotto. Milan is thus an intriguing blend of history, art, fashion and fun.

Detailed information about tourism in Milano at: http://www.turismo.milano.it/wps/portal/tur/en
General information about Milan

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GETTING AROUND MILAN

CITY BIKE (BIKE MI) www.bikemi.com

BikeMi is Milan’s Bike Sharing service, a real public bicycle transport system to be used for short trips. Detailed information at www.bikemi.com. It is a sharing public transport system therefore it has to be used by as many people as possible. For this reason the first 30 minutes of each use are free for traditional bikes, while the following minutes are charged according to the arranged rates.

CITY CAR www.car2go.com/en/milano/

If you need a city car, a “car2go” is always a pleasure to drive: book it, drive it, park it. Simple and straightforward. You can always find a vehicle in your area. www.car2go.com/en/milano/

TRAVELLING BY TRAM, BUS and METRO

Getting around in Milan is very easy and cheap if you take advantage of their readily available public transportation. The Milan Tramway network is an important part of the public transport network of Milan. It comprises 17 urban lines and 2 interurban lines. You can buy tickets at the metro stations, at giornali (kiosk) or tabacchi (stores marked with “T”), but not on the bus or tram.

The closest metro stop is: Missori (metro line 3, yellow): www.atm.it

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<tr>
<th>Ticket</th>
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<th>Price</th>
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<tr>
<td>Standard Ticket</td>
<td>90 Minutes after validation</td>
<td>€ 2,00</td>
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<tr>
<td>Carnet 10 tickets</td>
<td>Ten 90 Minutes tickets</td>
<td>€ 18,00</td>
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<tr>
<td>1 Day Ticket</td>
<td>24 Hours after validation</td>
<td>€ 7,00</td>
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<tr>
<td>2 Days Ticket</td>
<td>48 Hours after validation</td>
<td>€ 8.25</td>
</tr>
<tr>
<td>3 Days Ticket</td>
<td>72 Hours after validation</td>
<td>€ 12,00</td>
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</tbody>
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TRAIN

from Milan Central railway station: take underground Line no. 3 (yellow line) and get off at Missori station. The university is 5 minutes away.

from Porta Garibaldi railway stations take underground Line no. 2 (green line) to Milano Centrale and then take Line no. 3 (yellow line) and get off at Missori station. The university is 5 minutes away.

PLANE

from Malpensa airport: every 20 minutes, daily bus service to Milan Central Railway Station. Every 30-60 minutes, train service to Milan Central Railway Station: www.malpensaexpress.it

from Bergamo Orio al Serio Airport:

Terravision bus to Milan Central Railway Station: www.terravision.eu/milan_bergamo.html

Orio shuttle to Milan Central Railway Station: www.orioshuttle.com

TAXI

Taxi: (+39) 024040 or 026969 or 028585

Useful phone numbers

Emergency: 112

Tipping

Service is usually included in all restaurant bills, even though tips are widely accepted and expected by waiters and tour guides.

Currency, Banks and Post Office

Currency in Italy is Euro / €.

Bank opening hours:

Monday to Friday: 08.35 am / 1.35 pm, 2.45 pm / 4.15 pm

Closed on Saturdays and Sundays

Cash dispensers open 24/7

Post Office opening hours:

Monday to Friday: 08.30 am / 2.00 pm

Saturday: 08.30 am / 12.30 pm.

Telephone:

The Italian telephone country code is +39.
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Saturday: 08.30 am / 12.30 pm.

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<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Registration Open</td>
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<tr>
<td>09:00</td>
<td>Welcome Address</td>
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<tr>
<td>09:30</td>
<td>Plenary Session A</td>
</tr>
<tr>
<td>10:30</td>
<td>Coffee Break</td>
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<tr>
<td>11:00</td>
<td>Symposium Session</td>
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<tr>
<td>12:00</td>
<td>Lunch Break</td>
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<tr>
<td>13:30</td>
<td>Poster Session</td>
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<tr>
<td>15:30</td>
<td>Technical Tour</td>
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<tr>
<td>17:00</td>
<td>Closing Remarks</td>
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</table>

**Notes:**
- All sessions are subject to change.
- Additional events may be announced during the meeting.

**Contact:**
- ESN Secretariat
- info@esn.org
- Tel: +44 (0) 1234 567890

**Location:**
- Milan, Italy
- Hotel Milan Center

**Venue:**
- Milan Congress Center
- Via Montenapoleone 8, 20121 Milan, Italy

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**ESN:**
- European Society for Neurochemistry
- www.esn.org
### OPENING CEREMONY

**Auditorium**

**Session**

- **Chair:** ESN President A. Rinken
- **Principles of astrogliopathology: From reactivity to atrophy and degeneration**
  - **A. Verkhratsky - PL1**

**7.30 pm**

**'700 Courtyard**

**Opening reception**

### PARALLEL SATELLITE SYMPOSIA

#### MALLIANI ROOM

**Session**

- **Sensory processing sensitivity and drug use recovery pathways**
  - **(F. Fumagalli) - S1**

#### 111 ROOM

**Session**

- **Molecular mechanisms regulating oligodendroglial functions and re-/myelination**
  - **(E. Boda and D. Lecca) - S2**

### YOUNG NEUROCHEMISTS’ INFORMAL WELCOME

**Session**

- **My first conference: How to make the best of it**
  - **(E. M. Blumrich and G. Smirnova) - S3**

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1. **FOYER AUDITORIUM**

- **Participant registration**

2. **113 ROOM**

- **1° ESN Council meeting**

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**Lauree studi umanistici room**

**Session**

- **1° ESN Council meeting**
<table>
<thead>
<tr>
<th>Session</th>
<th>ISN LECTURE</th>
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<tr>
<td>113 ROOM</td>
<td>111 ROOM</td>
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<tr>
<td>Chair: ISN Council A.J. Turner - Leeds, UK</td>
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<tr>
<td>Axonal transport as a therapeutic target - G. Schiavo - PL2</td>
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<td>Coffee break - ‘700 Courtyard</td>
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<table>
<thead>
<tr>
<th>Session</th>
<th>PARALLEL SESSIONS</th>
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<tbody>
<tr>
<td>10.30 am</td>
<td>111 ROOM</td>
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<tr>
<td>CROCIERA ROOM</td>
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<tr>
<td>The role of lysosomal dysfunction in neurodegeneration (P. Rusmini) - S4</td>
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<td>Signalling and signatures of the developing nervous systems (A. Cariboni - A. Fantin) - S5</td>
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<td>Enlightening the social brain: oxytocin neurons, connections and functions (B. Chini) - S6</td>
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<thead>
<tr>
<th>Session</th>
<th>AUDITORIUM</th>
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<td>5.00 pm</td>
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<td>ESN BUSINESS MEETING</td>
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<th>Session</th>
<th>YOUNG NEUROCHEMISTS’ SESSION</th>
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<tr>
<td>111 ROOM</td>
<td>‘700 COURTYARD</td>
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<tr>
<td>How to make a living with a Ph.D. (E.-M. Blumrich) - S10</td>
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<td>Student Aperitif</td>
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**Program:**

- *ISN LECTURE*
  - **AUDITORIUM**
  - **PARALLEL SESSIONS**
  - **ESN BUSINESS MEETING**
  - **YOUNG NEUROCHEMISTS’ SESSION**
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<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Details</th>
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<tbody>
<tr>
<td>09.00 am</td>
<td><strong>YOUNG SCIENTIST LECTURESHIP AWARD</strong></td>
<td><strong>AUDITORIUM</strong></td>
<td>Chair: ESN Council member J.-P. Mothet</td>
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<td></td>
<td>Presynaptic nanomachines: regulation of the quantal release of glutamate</td>
<td><strong>YSLA1</strong></td>
<td>M. Martineau</td>
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<tr>
<td>10.00 am</td>
<td>Chair: ESN Treasurer J. Hirrlinger</td>
<td><strong>YSLA2</strong></td>
<td>Exploring mechanisms of neuron-glial signalling and metabolic interactions</td>
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<tr>
<td>10.00 am</td>
<td>Coffee break - ‘700 Courtyard</td>
<td><strong>MALLIANI ROOM</strong></td>
<td></td>
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<tr>
<td>10.30 am</td>
<td><strong>PARALLEL SESSIONS</strong></td>
<td><strong>111 ROOM</strong></td>
<td>Mitochondrial and autophagocytic alterations in Parkinson’s disease</td>
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<tr>
<td>12.30 pm</td>
<td>(E. Kramer) - <strong>S11</strong></td>
<td><strong>113 ROOM</strong></td>
<td>The NMDA receptors: from synapse physiology to pathology</td>
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<td>(J.-P. Mothet) - <strong>S12</strong></td>
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<td>12.30 pm</td>
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<tr>
<td>12.30 pm</td>
<td>Lunch and Poster Session</td>
<td><strong>111 ROOM</strong></td>
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<td>3.00 pm</td>
<td><strong>YOUNG MEMBERS’ SYMPOSIA I &amp; II</strong></td>
<td><strong>111 ROOM</strong></td>
<td>Young Members’ Symposia I</td>
</tr>
<tr>
<td>4.30 pm</td>
<td>(A.J. Turner) - <strong>S14</strong></td>
<td><strong>113 ROOM</strong></td>
<td>Young Members’ Symposia II</td>
</tr>
<tr>
<td>4.30 pm</td>
<td>Coffee break - ‘700 Courtyard</td>
<td><strong>113 ROOM</strong></td>
<td></td>
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<tr>
<td>5.00 pm</td>
<td><strong>PARALLEL SESSIONS</strong></td>
<td><strong>111 ROOM</strong></td>
<td>Blood brain barrier models, mechanisms and metabolism in health and</td>
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<td>7.00 pm</td>
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<td>disease (S. Saha) - <strong>S16</strong></td>
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<td>8.00 pm</td>
<td>Courtyard UniMi</td>
<td><strong>113 ROOM</strong></td>
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<td>Conference Dinner</td>
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### BACHELARD AWARD LECTURE

**Session**

**Auditorium**

**09.00 am - 10.00 am**

Chair: ESN Secretary N. Nalivaeva  
ESN - a key start to my scientific and academic career  
P. Fredman - PL3

**10.00 am**

Coffee break - '700 Courtyard

### PARALLEL SESSIONS

#### MALLIANI ROOM

**Session**

**111 ROOM**

**113 ROOM**

**10.30 am - 12.30 pm**

- Brain acetylation processes in health and disease  
  (A. Szutowicz) - S19
- Chaperone networks and signaling pathways in disease and aging  
  (S. Carra) - S20
- The neurochemistry of neuromelanins in neurodegenerative and psychiatric disorders  
  (L. Zecca) - S21

### AUDITORIUM

**12.30 pm - 12.45 pm**

Closing Ceremony

**1.00 pm onwards**

Milan guided sightseeing tour

### 113 ROOM

**Session**

**1.00 pm onwards**

2° ESN Council meeting
1 SEPTEMBER SUNDAY
## FOYER AUDITORIUM

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>noon</td>
<td>Participant registration</td>
</tr>
<tr>
<td>6.00 pm</td>
<td></td>
</tr>
</tbody>
</table>

## PARALLEL SATELLITE SYMPOSIA

### MALLIANI ROOM - S1

- **Session**
  - **2.00 pm**
    - Sensory processing sensitivity and drug use recovery pathways  
      F. Fumagalli (Milan, IT)
  - **2.30 pm**
    - Neuroplasticity in an animal model of SPS: evidence from rats lacking the serotonin transporter  
      F. Fumagalli (Milan, IT)
  - **3.00 pm**
    - The contribution of environmental sensitivity to vulnerability to cocaine addiction  
      a preclinical study  
      J. Homberg (Nijmegen, NL)
  - **3.30 pm**
    - Sensory processing sensitivity and drug use recovery pathways  
      M. Mary-Krause (Paris, FR)

### 113 ROOM

- **Session**
  - **12.00 pm**
    - 1° ESN Council meeting
  - **3.00 pm**
    - Sensory processing sensitivity and drug use recovery pathways  
      M. Mary-Krause (Paris, FR)

### 111 ROOM - S2

- **Session**
  - **2.00 pm**
    - Molecular mechanisms regulating oligodendroglial functions and re-/myelination  
      E. Boda (Turin, IT) and D. Lecca (Milan, IT)
  - **2.30 pm**
    - Are oligodendrocyte progenitors all born equal? A lesson from a microcephaly model  
      E. Boda (Turin, IT)
  - **3.00 pm**
    - Post-transcriptional regulation in oligodendrocytes: the strategy of miR-125a-3p  
      D. Lecca (Milan, IT)
  - **3.30 pm**
    - Enhancing D-Aspartate signaling to promote (re)myelination  
      F. Boscia (Naples, IT)
  - **4.00 pm**
    - Decline of oligodendrogenesis in the ageing brain  
      A. Rivera (Naples, IT)
<table>
<thead>
<tr>
<th>Time</th>
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</tr>
</thead>
<tbody>
<tr>
<td>12.00 pm</td>
<td>Participant registration</td>
</tr>
<tr>
<td>12.00 pm</td>
<td>1° ESN Council meeting</td>
</tr>
<tr>
<td>6.00 pm</td>
<td>PARALLEL SATELLITE SYMPOSIA</td>
</tr>
<tr>
<td>2.00 pm</td>
<td>Neuroplasticity in an animal model of SPS: evidence from rats lacking the serotonin transporter</td>
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</tr>
<tr>
<td>3.00 pm</td>
<td>Sensory processing sensitivity and drug use recovery pathways</td>
</tr>
<tr>
<td>3.30 pm</td>
<td>Sensory-processing sensitivity in substance use disorders and its relation to cognition and behavior</td>
</tr>
<tr>
<td>4.00 pm</td>
<td>OPENING CEREMONY</td>
</tr>
<tr>
<td>6.00 pm</td>
<td>Plenary Lecture (Chair: ESN President A. Rinken - Tartu, EE)</td>
</tr>
<tr>
<td>7.30 pm</td>
<td>Principles of astrogliopathology: From reactivity to atrophy and degeneration - A. Verkhratsky (Manchester, UK)</td>
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</tbody>
</table>

YOUNG NEUROCHEMISTS’ INFORMAL WELCOME

My first conference
How to make the best of
E. M. Blumrich (Edinburgh, UK)
G. Smirnova (Moscow, RU)

E. M. Blumrich (Edinburgh, UK)
A. Churilova (St Petersburg, RU)
R. Cristofani (Milan, IT)
M. Audano (Milan, IT)
G. Smirnova (Moscow, RU)

OPENING CEREMONY

AUDITORIUM - PL1

6.00 pm 7.30 pm
Plenary Lecture (Chair: ESN President A. Rinken - Tartu, EE)
Principles of astrogliopathology: From reactivity to atrophy and degeneration - A. Verkhratsky (Manchester, UK)

‘700 COURTYARD

7.30 pm
Opening reception
2
SEPTEMBER
MONDAY
## ISN LECTURE

**AUDITORIUM - PL2**

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plenary ISN Lecture (Chair: ISN Council A.J. Turner - Leeds, UK)</td>
<td>09.00 am - 10.00 am</td>
<td>Axonal transport as a therapeutic target by G. Schiavo (London, UK)</td>
</tr>
</tbody>
</table>

## ’700 COURTYARD

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coffee break</td>
<td>10.00 am</td>
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</tr>
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</table>

## PARALLEL SESSIONS

### CROCIERA ROOM - S4

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>The role of lysosomal dysfunction in neurodegeneration (P. Rusmini - Milan, IT and D. Rubinzstein - Cambridge, UK)</td>
<td>10.30 am</td>
<td></td>
</tr>
<tr>
<td>Molecules capable to induce neuroprotection via lysophagy activation</td>
<td>11.00 am</td>
<td>P. Rusmini (Milan, IT)</td>
</tr>
<tr>
<td>Glucocerebrosidase and Parkinson disease</td>
<td>11.30 am</td>
<td>A. Schapira (London, UK)</td>
</tr>
<tr>
<td>Inhibiting amyloid protein aggregation relieves lysosomal-autophagic dysfunction and protects against neurodegeneration in lysosomal storage diseases</td>
<td>noon</td>
<td>A. Fraldi (Naples, IT)</td>
</tr>
<tr>
<td>Autophagy and neurodegeneration</td>
<td>12.30 pm</td>
<td>D. Rubinsztein (Cambridge, UK)</td>
</tr>
</tbody>
</table>

### 111 ROOM - S5

<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signalling and signatures of the developing nervous systems (A. Cariboni - Milan, IT and A. Fantin - Milan, IT)</td>
<td>10.30 am</td>
<td>From the nose to the brain: semaphorin signalling in the control of GnRH neuron development by A. Cariboni (Milan, IT)</td>
</tr>
<tr>
<td>Understanding the molecular mechanisms of angiogenesis in the brain and retina</td>
<td>11.00 am</td>
<td>A. Fantin (Milan, IT)</td>
</tr>
<tr>
<td>Non-monotonic regulation of gene expression, neural progenitor fate and brain growth by the chromatin remodeler CHD8</td>
<td>11.30 am</td>
<td>M.A. Basson (London, UK)</td>
</tr>
<tr>
<td>Molecular control of cortical layer development by transmembrane Semaphorins</td>
<td>noon</td>
<td>J. Pasterkamp (Utrecht, NL)</td>
</tr>
</tbody>
</table>
23RD ESN BIENNIAL MEETING

SESSIONS

ISN LECTURE

Session
AUDITORIUM - PL2
09.00 am
10.00 am
Plenary ISN Lecture (Chair: ISN President R. Dringen - Bremen, DE)
Axonal transport as a therapeutic target
G. Schiavo (London, UK)

Coffee break
10.00 am

PARALLEL SESSIONS

Session
CROCIERA ROOM - S4 111 ROOM - S5
10.30 am
Molecules capable to induce neuroprotection via lysophagy activation
P. Rusmini (Milan, IT)
From the nose to the brain: semaphorin signalling in the control of GnRH neuron development
A. Cariboni (Milan, IT)
11.00 am
Glucocerebrosidase and Parkinson disease
A. Schapira (London, UK)
Understanding the molecular mechanisms of angiogenesis in the brain and retina
A. Fantin (Milan, IT)
11.30 am
Inhibiting amyloid protein aggregation relieves lysosomal-autophagic dysfunction and protects against neurodegeneration in lysosomal storage diseases
A. Fraldi (Naples, IT)
Non-monotonic regulation of gene expression, neural progenitor fate and brain growth by the chromatin remodeller CHD8
M.A. Basson (London, UK)
12.00 pm
12.30 pm
Autophagy and neurodegeneration
D. Rubinsztein (Cambridge, UK)
Molecular control of cortical layer development by transmembrane Semaphorins
J. Pasterkamp (Utrecht, NL)

113 ROOM - S6

Enlightening the social brain: oxytocin neurons, connections and functions
B. Chini - (Milan IT)

How does an oxytocin treatment in early life impact social behavior and hippocampal alterations in Magel2-deficient mice?
F. Muscatelli (Marseille, FR)

Oxytocin signaling in the central amygdala modulates emotion discrimination in mice
F. Papaleo (Genoa, IT)

Prolonged optogenetic activation of oxytocin neurons in groups of mice increases prosocial and agonistic behaviors
Y. Shemesh (Rehovot, IL)
<table>
<thead>
<tr>
<th>Session</th>
<th>CROCIERA ROOM - S7</th>
<th>111 ROOM - S8</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.30 pm</td>
<td>Lunch and Poster Session</td>
<td></td>
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</tbody>
</table>
| **3.00 pm** | Brain energy metabolism back in the spotlight  
A. Trevisiol (Goettingen, DE) | Cys-loop receptors: function and modulation  
P. Bregestovsky (Marseille, FR) and V. Tsetlin (Moscow, RU) |
| **3.30 pm** | Axonal metabolic support and energy dynamics in active white matter tracts  
A. Trevisiol (Goettingen, DE) | Photochromic modulators of Cys-loop receptors  
P. Bregestovsky (Marseille, FR) |
| **3.30 pm** | Cellular mechanisms regulating axonal energy metabolism in compact white matter  
A. Saab (Zurich, CH) | From neurotoxic peptides and proteins to endogenous regulators of Cys-loop receptors  
V. Tsetlin (Moscow, RU) |
| **4.00 pm** | Correlation between activity-related changes in intracellular sodium and ATP in mouse hippocampal neurons  
C. Rose (Duesseldorf, DE) | Molecular interactions of 5-HT3 receptors  
S. Lummis (Cambridge, UK) |
| **4.30 pm** | Cell type specificity of neurovascular coupling in cerebral cortex  
M. Thunemann (La Jolla CA, US) | Allosteric regulation of pentameric ligand-gated ion channels by phospholipids  
C. Ulens (Leuven, BE) |
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>3.00 pm</td>
<td>ADNP and the ADNP syndrome: from gene to autism</td>
<td>I. Gozes (Tel Aviv, IL)</td>
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<tr>
<td>3.24 pm</td>
<td>ADNP/NAP (CP201): From gene to clinical development</td>
<td>I. Gozes (Tel Aviv, IL)</td>
</tr>
<tr>
<td>3.48 pm</td>
<td>Clinical presentation of a complex neurodevelopmental disorder caused by mutations in ADNP</td>
<td>F. Kooy (Edegem, BE)</td>
</tr>
<tr>
<td>4.12 pm</td>
<td>De humani corporis fabrica: organoid-based deconvolution of neuropsychiatric disorders at single cell resolution</td>
<td>G. Testa (Milan, MI)</td>
</tr>
<tr>
<td>4.36 pm</td>
<td>A transcription factor implicated in autism locally constrains chromatin looping</td>
<td>M. Buhler (Basel, CH)</td>
</tr>
<tr>
<td>5.00 pm</td>
<td>De novo and inter-tissue somatic mosaicism of ADNP mutations in autistic individuals</td>
<td>C. Pearson (Toronto, CA)</td>
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<tr>
<td>Time</td>
<td>Session 111 ROOM - S10</td>
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<tr>
<td>7.00 pm</td>
<td>How to make a living with a Ph.D. E. M. Blumrich (Edinburgh, UK)</td>
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<tr>
<td>7.22 pm</td>
<td>How to make money with a PhD - Introductory talk: general ideas on career planning E. M. Blumrich (Edinburgh, UK)</td>
<td></td>
</tr>
<tr>
<td>7.44 pm</td>
<td>Graduated and now? A personal review about working in the industry F. Bulcke (Berlin, DE)</td>
<td></td>
</tr>
<tr>
<td>8.06 pm</td>
<td>Starting a career in academia A. Prinetti (Milan, IT)</td>
<td></td>
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<tr>
<td>8.30 pm</td>
<td>From science to science publishing: opportunities and challenges A.J. Turner (Leeds, UK)</td>
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<thead>
<tr>
<th>Time</th>
<th>Session: '700 COURTYARD</th>
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<tbody>
<tr>
<td>5.00 pm</td>
<td>Coffee break</td>
</tr>
<tr>
<td>5.30 pm</td>
<td>ESN BUSINESS MEETING</td>
</tr>
<tr>
<td>7.00 pm</td>
<td>Young Neurochemists’ Session</td>
</tr>
<tr>
<td>8.00 pm</td>
<td>Student Aperitif</td>
</tr>
</tbody>
</table>

23rd ESN BIENNIAL MEETING
23RD ESN BIENNIAL MEETING
SEPTEMBER 2
MONDAY 2000 COURTYARD
5.00 pm Coffee break
SESSION AUDITORIUM
5.30 pm - 7.00 pm
ESN BUSINESS MEETING
YOUNG NEUROCHEMISTS’ SESSION
111 ROOM - S10
How to make a living with a Ph.D.
E. M. Blumrich (Edinburgh, UK)
7.00 pm
How to make money with a PhD - Introductory talk: general ideas on career planning
E. M. Blumrich (Edinburgh, UK)
7.22 pm
Graduated and now?
A personal review about working in the industry
F. Bulcke (Berlin, DE)
7.44 pm
Starting a career in academia
A. Prinetti (Milan, IT)
8.06 pm
From science to science publishing: opportunities and challenges
A. J. Turner (Leeds, UK)
8.30 pm
'700 COURTYARD
STUDENT APERTIF
3rd ESN BIENNIAL MEETING

SEPTEMBER 3 / TUESDAY

YOUNG SCIENTIST LECTURESHIP AWARD

Session
AUDITORIUM - YSLA1-YSLA2

09.00 am - 10.00 am

YSLA LECTURE I
(Chair: ESN Council member J.-P. Mothet - Orsay, FR)
Presynaptic nanomachines: regulation of the quantal release of glutamate
M. Martineau (Bordeaux, FR)

10.00 am - Coffee break

YSLA LECTURE II
(Chair: ESN Treasurer J. Hirrlinger - Leipzig, DE)
Exploring mechanisms of neuron-glial signalling and metabolic interactions
A. Saab (Zurich, CH)
**YOUNG SCIENTIST LECTURESHP AWARD**

<table>
<thead>
<tr>
<th>Session</th>
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<tbody>
<tr>
<td><strong>AUDITORIUM - YSLA1-YSLA2</strong></td>
<td></td>
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</tbody>
</table>
| **YSLA LECTURE I** | (Chair: ESN Council member J.-P. Mothet - Orsay, FR)  
Presynaptic nanomachines: regulation of the quantal release of glutamate  
M. Martineau (Bordeaux, FR) |  |
| 09.00 am |  |
| 10.00 am |  |
| **YSLA LECTURE II** | (Chair: ESN Treasurer J. Hirrlinger - Leipzig, DE)  
Exploring mechanisms of neuron-glial signalling and metabolic interactions  
A. Saab (Zurich, CH) |  |
<p>| |
|  |
| <strong>'700 COURTYARD</strong> |  |
| 10.00 am | Coffee break |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>MALLIANI ROOM - S11</th>
<th>111 ROOM - S12</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.30 am</td>
<td>Ret protects the midbrain dopaminergic system against synuclein toxicity by influencing mitochondrial integrity and autophagy</td>
<td>E. Kramer (Plymouth, UK)</td>
<td>The NMDA receptor co-agonist D-serine is essential for dopamine modulations of prefrontal neuronal activity and cognitive function</td>
</tr>
<tr>
<td>11.30 am</td>
<td>Functional genomic analysis uncovers mitophagy regulators associated with Parkinson’s disease risk.</td>
<td>H. Plun-Favreau (London, UK)</td>
<td>NMDA receptor C-terminal domain signaling in health and disease</td>
</tr>
<tr>
<td>noon</td>
<td>Decoding PINK1/Parkin signalling in Parkinson’s disease</td>
<td>M. Muqit (Dundee, UK)</td>
<td>Emergence of mTOR-dependent protein translation is controlled by non-conventional</td>
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<tr>
<td>12.30 pm</td>
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<td>NMDA receptors</td>
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**'700 COURTYARD**

12.30 pm | Lunch and Poster Session

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23rd ESN BIENNAI MEETING
### 113 ROOM - S13

| Brain metabolism failure as a common factor in rare diseases  
| J. Bolaños (Salamanca, ES) |
| Brain metabolic alterations in neuronal ceroid lipofuscinosis juvenile CLN7 Batten disease  
| J. Bolaños (Salamanca, ES) |
| APC/C-Cdh1 regulates X fragile protein FMRP and dendrite stability during brain development  
| A. Almeida (Salamanca, ES) |
| Lysosomal disorders provide valuable insight into neurodegenerative conditions  
| S. Heales (London, UK) |
| The role of cholesterol metabolism in Huntington’s disease: from molecular mechanism to therapeutics  
| M. Valenza (Milan, IT) |
### YOUNG MEMBERS’ SYMPOSIA I & II

<table>
<thead>
<tr>
<th>Session</th>
<th>MALLIANI ROOM - S14</th>
<th>111 ROOM - S15</th>
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<tbody>
<tr>
<td></td>
<td>Young Members’ Symposium I</td>
<td>Young Members’ Symposium II</td>
</tr>
<tr>
<td></td>
<td>A.J. Turner (Leeds, UK)</td>
<td>A. Prinetti (Milan, IT)</td>
</tr>
<tr>
<td>3.00 pm</td>
<td>The Adnp-deficient mouse models synaptic and behavioral phenotypes of an autism-like syndrome</td>
<td>Long-Lasting Impairment of Neuroplastic Gene Expression as a Mechanism of Cognitive Deficit Caused by Neonatal LPS Exposure</td>
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<td>S. Sragovich (Tel Aviv, IL)</td>
<td>A. Trofimov (St Petersburg, RU)</td>
</tr>
<tr>
<td>3.22 pm</td>
<td>Metabolic heterogeneity of astrocytes in grey and white matter</td>
<td>GM1 oligosaccharide modulation of calcium signaling in neuronal function</td>
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<td>S. Köhler (Leipzig, DE)</td>
<td>G. Lunghi (Milan, IT)</td>
</tr>
<tr>
<td>3.44 pm</td>
<td>Maternal hyperhomocysteinemia disturbs development of brain cortex and hippocampus and affects memory in rat offspring</td>
<td>Mushroom bodies development and abnormalities in defective Wnt pathway models</td>
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<td></td>
<td>A. Shcherbitskaia (St Petersburg, RU)</td>
<td>P. Grazioli (Milan, IT)</td>
</tr>
<tr>
<td>4.06 pm</td>
<td>Identification of the antigen recognized in vitro by rHlgM22, a remyelination-promoting human monoclonal antibody</td>
<td>How we used Wfs1 deficient rat to develop treatment strategies for Wolfram Syndrome patients</td>
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<tr>
<td>4.30 pm</td>
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<td>K. Seppa (Tartu, EE)</td>
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</table>

### ‘700 COURTYARD

<p>| 4.30 pm | Coffee break |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>MALLIANI ROOM - S16</th>
<th>111 ROOM - S17</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.00 pm</td>
<td>Blood brain barrier models, mechanisms and metabolism in health and disease</td>
<td>S. Saha (Leeds, UK)</td>
<td>The type 2 cannabinoid receptor: an emerging target for brain therapeutics</td>
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<td>P. Brust (Leipzig, DE)</td>
</tr>
<tr>
<td>5.30 pm</td>
<td>The Blood-Brain Barrier. Transcytosis of protein-based nanoparticles to the brain: a new insight into the role of astroglia</td>
<td>D. Begley (London, UK)</td>
<td>Development of selective CB2 receptor inhibitors as potential probes for molecular imaging with positron emission tomography</td>
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<tr>
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<td></td>
<td>P. Brust (Leipzig, DE)</td>
</tr>
<tr>
<td>6.00 pm</td>
<td>In vitro modeling of the human blood-brain barrier - recent developments in stem cell-based human models</td>
<td>L. Saaby (Horsholm, DK)</td>
<td>Endocannabinoid signalling in neuroprotection: Key-role of CB2 receptor</td>
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<td>M. Maccarrone (Rome, IT)</td>
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<tr>
<td>7.00 pm</td>
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<td>Y. Friedman-Levi (Jerusalem, IL)</td>
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<td>8.00 pm</td>
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<td></td>
<td>Conference Dinner</td>
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<tr>
<td>Session</td>
<td>Time</td>
<td>Topic</td>
<td>Presenter(s)</td>
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<tr>
<td></td>
<td>5.00 pm</td>
<td>The emerging role of S100B in pathogenic processes of neural disorders: A novel therapeutic target?</td>
<td>(A. Fernandes - Lisbon, PT and F. Michetti - Rome, IT)</td>
</tr>
<tr>
<td></td>
<td>5.30 pm</td>
<td>S100B as a biomarker and therapeutic target in Multiple Sclerosis</td>
<td>A. Fernandes (Lisbon, PT)</td>
</tr>
<tr>
<td></td>
<td>6.00 pm</td>
<td>Roles of S100B in schizophrenia and affective disorders</td>
<td>J. Steiner (Magdeburg, DE)</td>
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<tr>
<td></td>
<td>6.30 pm</td>
<td>Development of S100B small molecule inhibitors</td>
<td>D. Weber (Baltimore, US)</td>
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<tr>
<td></td>
<td>7.00 pm</td>
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<td></td>
<td>8.00 pm</td>
<td>Courtyard UniMI</td>
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<tr>
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<td>Conference Dinner</td>
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</table>
PARALLEL SESSIONS

Session 113 ROOM - S18

The emerging role of S100B in pathogenic processes of neural disorders: A novel therapeutic target?
(A. Fernandes - Lisbon, PT and F. Michetti - Rome, IT)

5.00 pm

S100B as a biomarker and therapeutic target in Multiple Sclerosis
A. Fernandes (Lisbon, PT)

5.30 pm

The S100B story: from biomarker to active factor in neural injury
F. Michetti (Rome, IT)

6.00 pm

Roles of S100B in schizophrenia and affective disorders
J. Steiner (Magdeburg, DE)

6.30 pm

Development of S100B small molecule inhibitors
D. Weber (Baltimore, US)

8.00 pm

Courtyard UniMI Conference Dinner
### BACHELARD AWARD

**AUDITORIUM - PL3**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</table>
| 09.00 am | Bachelard Award Lecture (Chair: ESN Secretary N. Nalivaeva - Leeds, UK/St. Petersburg, RU)  
ESN - a key start to my scientific and academic career  
P. Fredman (Gothenburg, SW) |
| 10.00 am | Coffee break                                                           |

### ’700 COURTYARD

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>10.00 am</td>
<td>Coffee break</td>
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### PARALLEL SESSIONS

**MALLIANI ROOM - S19**

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<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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| 10.30 am | Brain acetylation processes in health and disease  
A. Szutowicz (Gdansk, PL) |
| 11.00 am | Nε-lysine acetylation within the endoplasmic reticulum: a fundamental role for brain physiology and pathology  
L. Puglielli (Madison WI, US) |
| 11.30 am | Inborn errors of Coenzyme A metabolism in neurodegeneration with brain iron accumulation  
V. Tiranti (Milan, IT) |
| noon    | Histone acetylation in myelinating glia  
P. Casaccia (New York, US) |

**111 ROOM - S20**

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| 10.30 am | Acetyl-CoA – direct regulator of acetylations in the brain?  
A. Szutowicz (Gdansk, PL) |
| 11.00 am | Interplay between misfolded proteins and membraneless organelles: implications in age-related neurodegenerative diseases  
S. Carra (Modena, IT) |
| 11.30 am | Remodeling proteostasis networks in Caenorhabditis elegans aging  
A. Ben-Zvi (Beer-Sheva, IL) |
| noon    | Deciphering the proteostasis network’s response to the accumulation of toxic protein aggregates in the aging brain  
E. Cohen (Jerusalem, IL) |
| 12.30 pm | Protein aggregation is the prime driver of most neurodegenerative diseases  
H. Kampinga (Groningen, NL) |

**SEPTEMBER 4 / WEDNESDAY**
113 ROOM - S21

The neurochemistry of neuromelanins in neurodegenerative and psychiatric disorders
L. Zecca (Milan, IT)

Ultrastructure and chemical composition of neuromelanin in the human substantia nigra
A. Biesemeier (Tübingen, DE)

Neuromelanin-sensitive MRI: a novel, non-invasive proxy measure of dopamine function in psychiatric illness
C. Cassidy (Ottawa, CA)

Locus coeruleus imaging correlations to pathology and cognition in dementia
H. Jacobs (Boston, US)

Neurochemistry and neurobiology of human brain neuromelanins
F. Zucca (Milan, IT)
<table>
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<tr>
<th>Time</th>
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<tr>
<td>12.30 pm</td>
<td>Closing Ceremony</td>
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<tr>
<td>12.45 pm</td>
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<tr>
<td>1.00 pm</td>
<td>Milan guided sightseeing tour</td>
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<tr>
<td>1.00 pm</td>
<td>2° ESN Council meeting</td>
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23rd ESN BIENNIAL MEETING

Session

AUDITORIUM

12.30 pm

12.45 pm

Closing Ceremony

1.00 pm

Milan guided sightseeing tour

Session

LAUREE STUDI

UMANISTICI ROOM

1.00 pm

2° ESN Council meeting