CONFERENCE TOPICS

• Synapse formation and neurotransmitter receptors
• Synaptic architecture
• Intracellular trafficking and protein dynamics
• Pre- and post-synaptic function
• Synaptic plasticity and memory
• Neuronal circuits in the healthy and diseased brain
• Molecular mechanisms of neuropsychiatric disorders
Dear Colleagues,

It is with great pleasure that we welcome you in Coimbra to participate in the 7th ISN Special Neurochemistry Conference on SYNAPTIC FUNCTION AND DYSFUNCTION IN BRAIN DISEASES. The conference will be a dynamic and informal forum for scientific exchange and a unique opportunity to discuss and share ideas about the mechanisms that govern synapse formation, neurotransmitter release, post-synaptic receptor trafficking, synaptic plasticity, neuronal circuits and cognition and behavior. These topics will also be considered in the scope of their relevance for mechanisms of neurodevelopmental and neurodegenerative disorders.

The program will provide multiple opportunities for interaction, during the poster sessions, lunch time, coffee breaks and social events. This unique setting, held at the novel Convention Center of Coimbra, which combines history and the best of the Portuguese architecture, will certainly contribute to shape your future research. We hope that the meeting will also help you finding new partners to address novel and exciting questions.

The generous support of ISN and IBRO allows the participation of young scientists from around the globe. The organizers are also grateful to all other sponsors that contributed to the meeting.

We invite you to discover Coimbra, a city that offers a combination of unique traditions, UNESCO World Heritage Sights and a vibrant and often flamboyant student community. We wish you all an exciting and scientifically rewarding meeting!

The Organizing Committee
<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>**Wednesday</td>
<td>June 1, 2016</td>
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<tr>
<td>16:30</td>
<td>Welcome session</td>
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<tr>
<td>17:00</td>
<td>Foundations of Neurochemistry in Portugal</td>
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<tr>
<td>17:30</td>
<td><strong>Opening Keynote presentation</strong> – Richard Huganir</td>
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<tr>
<td>18:30</td>
<td>Welcome cocktail</td>
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<tr>
<td>**Thursday</td>
<td>June 2, 2016</td>
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<tr>
<td>9:00-12:40</td>
<td><strong>S01 Synapse formation and function</strong></td>
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<tr>
<td>9:00</td>
<td>Keynote presentation – Daniel Choquet</td>
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<tr>
<td>10:00</td>
<td>Coffee break (Auditorium foyer)</td>
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<tr>
<td>10:30</td>
<td>Invited talks and selected oral communications</td>
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<td>12:10</td>
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<td>**Friday</td>
<td>June 3, 2016</td>
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<tr>
<td>9:00-12:40</td>
<td><strong>S03 Synaptic plasticity</strong></td>
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<tr>
<td>9:00</td>
<td>Keynote presentation – Casper Hoogenraad</td>
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<td>Coffee break (Cloister)</td>
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<td>17:30</td>
<td>Keynote presentation – Alcino Silva</td>
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<td>18:30</td>
<td>Wine and cheese cocktail and cultural event (Cloister)</td>
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<td>**Saturday</td>
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<td>9:00-12:40</td>
<td><strong>S05 From synapses to circuits</strong></td>
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<tr>
<td>14:15-17:30</td>
<td><strong>S06 Circuit dysfunction and neuropsychiatric disorders</strong></td>
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<td>Keynote presentation – Guoping Feng</td>
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Wednesday, June 1, 2016 | Auditorium

16:30 - 17:00  Welcome session

17:00 - 17:30  Foundations of Neurochemistry in Portugal
Arsélio P. Carvalho and Catarina R. Oliveira

K00-01  Opening Keynote Presentation | Chair: Ralf Dringen
17:30 - 18:30  Regulation of neurotransmitter receptor function and synaptic plasticity in the brain
Richard Huganir | Johns Hopkins University School of Medicine, USA

18:30  Welcome cocktail (Cloister)

Thursday, June 2, 2016 | Auditorium

K01-01  Keynote | Synapse formation and function | Chair: Clive Bramham
09:00 - 10:00  Linking AMPA receptor nanoscale organization and function at excitatory synapses
Daniel Choquet | Interdisciplinary Institute for NeuroScience, France

10:00 - 10:30  Coffee break (Foyer)

S01 Synapse formation and function | Chair: Clive Bramham and Paulo Pinheiro
10:30 - 12:40

S01-01  Building neuronal circuits after synapse degeneration: a role for Wnts in Alzheimer's disease
Patricia Salinas | University College London, United Kingdom
S01-02  Synaptotagmin-1: functional interaction with SNAREs and PI(4,5)P2
11:00 - 11:30  Jakob Sørensen | University of Copenhagen, Denmark

S01-03  Selected oral communication - Fluorescent false neurotransmitter
11:30 - 11:50  Daniela Pereira | Champalimaud Center for the Unknown, Portugal

S01-04  Selected oral communication - Neddylation drives spine development, synapse stability, and regulates learning and memory
11:50 - 12:10  Annette Vogl | MPI of Psychiatry, Germany

12:10 - 13:30  Lunch (Conventual room)

13:30 - 16:00  Poster presentation - Odd number posters (Aeminium room - floor 1)

16:00 - 16:30  Coffee break (Auditorium foyer)

S02 Neurodevelopmental disorders | Chair: Alcino Silva and José Esteban
16:30 - 18:10

S02-01  Selected oral communication - Thalamic reticular dysfunction underlies attention deficits and hyperactivity in the Ptchd1 knockout mouse
16:30 - 16:50  Michael Wells | Broad Institute of MIT and Harvard, USA

S02-02  Selected oral communication - Reduced inhibition and excitation underlies circuit-wide changes in vivo in a mouse model of Rett Syndrome
16:50 - 17:10  Abhishek Banerjee | University of Zurich, Switzerland

S02-03  Characterization of Shank proteins in the mouse brain
17:10 - 17:40  Tobias Boeckers | Ulm University, Germany

S02-04  Problematic proteostasis in fragile X syndrome
17:40 - 18:10  Emily Osterweil | University of Edinburgh, United Kingdom
Friday, June 3, 2016 | Mondego room (floor 2)

**K03-01**  
**Keynote | Synaptic plasticity**  
Chair: Richard Huganir  
Transport mechanisms underlying the biology and diseases of the nervous system  
Casper Hoogenraad | Utrecht University, Netherlands  

10:00 - 10:30  
Coffee break (Cloister)

**S03 Synaptic plasticity**  
Chair: Richard Huganir and Ramiro Almeida  
10:30 - 12:50

**S03-01**  
Synaptic signaling for plasticity during aging and Alzheimer's disease  
José Esteban | Centro de Biologia Molecular Severo Ochoa, Spain

**S03-02**  
Cell adhesion contactin-associated proteins mediate homeostatic experience-dependent synaptic plasticity  
Ana Luisa Carvalho | University of Coimbra, Portugal

**S03-03**  
Self-activating CaMKII/TIAM1 complex converts transient Ca$^{2+}$ rise into persistent biochemical signaling during LTP  
Yasunori Hayashi | RIKEN, Japan

**S03-04**  
The Arc of synaptic memory  
Clive Bramham | University of Bergen, Norway

**S03-05**  
Selected oral communication - Structural plasticity of dendritic spines during long-term depression in a mouse model of Fragile X  
Miquel Bosch | Institute for Bioengineering of Catalonia, Spain

12:50 - 14:00  
Lunch (Conventual room)

14:00 - 16:00  
Poster presentation - Even number posters (Aeminium room - floor 1)

16:00 - 16:30  
Coffee break (Cloister)
## PROGRAM

### S04 Plasticity mechanisms in synaptic function and dysfunction
16:30 - 17:30 Chair: Yasunori Hayashi and Ana Sebastião

**S04-01**
16:30 - 17:00
IGF-1 receptor: From synaptic transmission to Alzheimer’s degeneration
Inna Slutsky | Tel Aviv University, Israel

**S04-02**
17:00 - 17:30
Dysregulation of GABAergic synapses in brain ischemia: multiple mechanisms contributing to neuronal demise
Carlos Duarte | Center for Neuroscience and Cell Biology, Portugal

### K04-01
17:30 - 18:30
Keynote | Plasticity mechanisms in synaptic function and dysfunction | Chair: Rui Costa
Molecular, cellular, and circuit mechanisms that link memories across time
Alcino Silva | UCLA, USA

18:30 Wine and cheese cocktail (Cloister)

### Saturday, June 4, 2016 | Auditorium

**K05-01**
09:00 - 10:00
Keynote | From synapses to circuits | Chair: Guoping Feng
Generating and shaping novel action repertoires
Rui Costa | Champalimaud Foundation, Portugal

10:00 - 10:30 Coffee break (Foyer)

**S05 From synapses to circuits** | Chair: Guoping Feng and Emília Duarte
10:30 - 12:40

**S05-01**
10:30 - 11:00
Modulation of GABAergic inhibitory inputs to hippocampal interneurons by adenosine
Ana Sebastião | University of Lisbon, Portugal

**S05-02**
11:00 - 11:30
Understanding the roles of prefrontal long-range connections through targeted optogenetic perturbation
Ofer Yizhar | Weizmann Institute, Israel
## PROGRAM

<table>
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| 11:30 - 12:00 | **S05-03**  
Function of neuronal microcircuits in adult human neocortex  
Huib Mansvelder | VU University Amsterdam, Netherlands |
| 12:00 - 12:20 | **S05-04**  
Selected oral communication - A golden pair of synaptic adhesion molecules, netrin-G1 and netrin-G2  
Qi Zhang | RIKEN, Japan |
| 12:20 - 12:40 | **S05-05**  
Selected oral communication - Homeostatic control of dopamine by astrocytes in the postnatal maturation of the prefrontal cortex  
Paola Bezzi | University of Lausanne, Switzerland |
| 12:40 - 14:15 | Lunch (Convnetual room) |

### S06 Circuit dysfunction and neuropsychiatric disorders | Chair: Rui Costa and João Peça  
14:15 - 16:00

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| 14:15 - 14:35 | **S06-01**  
Selected oral communication - A role for the parvalbumin interneuron-enriched microRNA miR-206 in schizophrenia-related behaviors  
Mary Heyer | Icahn School of Medicine at Mount Sinai, USA |
| 14:35 - 14:55 | **S06-02**  
Selected oral communication - Rett-like severe encephalopathy caused by a de novo GRIN2B missense mutation is attenuated by D-Serine dietary supplement  
Xavier Altafaj | IDIBELL, Spain |
| 14:55 - 15:25 | **S06-03**  
SHANK3 controls maturation of social reward circuits in the VTA  
Camilla Bellone | University of Lausanne, Switzerland |
| 15:25 - 15:55 | **S06-04**  
Role of adenosine A2A receptors in the control of mood-related neuropsychiatric diseases  
Rodrigo Cunha | University of Coimbra, Portugal |
| 16:00 - 16:30 | Coffee break (Foyer) |

### K06-01  
Keynote | Circuit dysfunction and neuropsychiatric disorders  
Chair: Catarina R. Oliveira  
16:30 - 17:30

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| 16:30 - 17:30 | **K06-01**  
Dissecting synaptic and circuitry mechanisms of autism  
Guoping Feng | McGovern Institute for Brain Research, USA |
| 17:30 | Closing remarks |
FLOOR PLANS

Floor 0
- Entrance
- Registration and Information Desk
- Speakers Slide Room
- Auditorium
- WC
- Foyer

Floor -1
- Auditorium
- WC
- Foyer
FLOOR PLANS

Floor 1

Floor 2

Conventual Room (lunches)

Posters and Exhibition

Aeminium Room

Cloister

Mondego Room
**Poster Presentation Sessions**

*Thursday and Friday: 14:00 - 16:00*

**Thursday, June 2:** Odd number posters (e.g. PS01-01, PS01-03, PS02-01)

**Friday, June 3:** Even number posters (e.g. PS01-02, PS01-04, PS02-02)

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**PS01 Synapse formation and function**

**PS01-01** Piccolo is a regulator of endosome formation and membrane trafficking
Frauke Ackermann | DZNE, Germany

**PS01-02** Uncovering the molecular mechanisms that regulate synaptic diversity
Nuno Apóstolo | VIB, Belgium

**PS01-03** BACE1 physiological function in hippocampal mossy fiber circuitry
Soraia Barao | VIB, Belgium

**PS01-04** Nanoscale organization of synaptic adhesion proteins using 3-nm probes
Ingrid Chamma - IINS, France

**PS01-05** Three mechanisms cut short transmission of single impulses in cholinergic synapses: Functional and pathological significance
Yves Dunant | University of Geneva, Switzerland

**PS01-06** Presynaptic role for the small GTPase Arf6
Anna Fassio | Istituto Italiano di Tecnologia, Italy

**PS01-07** Co-agonists tune GluN2B-NMDA receptor trafficking at developing hippocampal synapses
Joana Ferreira | IINS - Interdisciplinary Institute for NeuroScience, France

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**PS01-08** Sema4D-induced stabilization of inhibitory presynaptic boutons through actin de-polymerization
Cátia Frias | Utrecht University, Netherlands

**PS01-09** A possible role of 14-3-3 proteins in regulating the dynamics of tyrosine hydroxylase phosphorylation at multiple sites
Sadaf Ghorbani | K.G. Jebsen Centre for Neuropsychiatric Disorders, Norway

**PS01-10** The proteasome controls presynaptic differentiation through modulation of an on-site pool of polyubiquitinated conjugates
Maria Guimarães Pinto | Center for Neuroscience and Cell Biology, Portugal

**PS01-11** Neuroplastins are required for learning and memory, E/I balance, and form complexes with the Plasma Membrane Calcium ATPase
Rodrigo Herrera-Molina | Leibniz Institute for Neurobiology (LIN), Germany

**PS01-12** Lack of Bassoon or Piccolo differently affects presynaptic voltage-dependent calcium channels
Julia Klueva | Leibniz Institute for Neurobiology, Germany
**POSTER PRESENTATIONS**

**PS01-13** Presynaptic differentiation triggered by target-derived cue is mediated by local protein synthesis  
Joana Pedro | Center for Neuroscience and Cell Biology, Portugal

**PS01-14** Fluorescent false neurotransmitter reveals functionally silent dopamine boutons in the striatum  
Daniela Pereira | Champalimaud Center for the Unknown, Portugal

**PS01-15** Doc2B interacts with Munc13 and SNAREs and acts as an upstream calcium sensor for vesicle priming  
Paulo Pinheiro | Center for Neuroscience and Cell Biology (CNC), Portugal

**PS01-16** Conformational states of kainate receptors influence the receptor lateral mobility at glutamatergic synapses  
Alice Polenghi | Fondazione Istituto Italiano di Tecnologia, Italy

**PS01-17** SorCS1 controls axonal targeting of Neurexin-1alpha  
Luis Ribeiro | VIB Center for the Biology of Disease, Belgium

**PS01-18** FGF22 regulates synaptogenesis and axon branching by activating different signaling pathways  
Susana Sampaio | Centr for Neuroscience and Cell Biology, Portugal

**PS01-19** The Role of ARHGAP8, a Novel RhoGAP, in Glutamatergic Synapses  
Jeannette Schmidt | Center for Neuroscience and Cell Biology (CNC), Portugal

**PS01-20** Synaptic scaffold protein Bassoon regulates presynaptic autophagy  
Katharina Schneider | German Center for Neurodegenerative Diseases (DZNE), Germany

**PS01-21** CaMKII is localized in dendritic spines as both drebrin-dependent and drebrin-independent pools  
Tomoaki Shirao | Gunma University Graduate School of Medicine, Japan

**PS01-22** Activity-regulated microRNA regulates GluA2 expression and excitatory/inhibitory synaptic balance in the hippocampus  
Mariline Silva | Center for Neuroscience and Cell Biology (CNC), Portugal

**PS01-23** Removing an epigenetic brake pad, PRMT8, to accelerate the maturity of mouse visual cortical circuitry  
Judy Sng | National University of Singapore, Singapore

**PS01-24** Epidermal growth factor downregulates presynaptic maturation and suppresses synapse formation in vitro and in vivo  
Nobuyuki Takei | Brain Research Institute, Japan

**PS01-25** Neddylation drives spine development, synapse stability, and regulates learning and memory  
Annette Vogl | MPI of Psychiatry, Germany

**PS01-26** Cysteine 893 of GluA1 is a target of regulatory thiol modifications  
Lotta Von Ossowski | University of Helsinki, Finland
PS02 Neurodevelopmental disorders

PS02-01 Effect of ginger on cerebral cortex synaptosomal ectonucleotidases and acetylcholinesterase activities in hypertensive rats
Ayodele Akinyemi | Afe Babalola University, Nigeria

PS02-02 The role of Stargazin in schizophrenia and Intellectual disability
Gladys Caldeira | Center for Neuroscience and Cell Biology of Coimbra (CNC), Portugal

PS02-03 Identification of Deubiquitinating Enzymes that Regulate SHANK3 Stability
Meghan Campbell | Genentech, USA

PS02-04 GABAergic transmission may be related to the impairment of learning and memory caused by prenatal systemic hypoxia-ischemia
Marta Cristina da Cunha Rodrigues | Universidade do Estado do Rio de Janeiro, Brazil

PS02-05 Changes in pyramidal neurons of the sensorimotor cortex and neurobehavior of kainin-induced neonatal hydrocephalic mice
Omowumi Femi-Akinlosotu | University of Ibadan, Nigeria

PS02-06 Sexual divergence in activity-dependent neuroprotective protein (ADNP): the brain is not the same
Illana Gozes | Tel Aviv University, Israel

PS02-07 Cerebellar Shank2 regulates excitatory synapse density and motor, repetitive, and anxiety-like behaviors
Seungmin Ha | Korea Advanced Institute of Science and Technology, South Korea

PS02-08-09 De novo mutations in DENR disrupt neuronal development and link neurological disorders to defective mRNA translation re-initiation
Julian Heng | The Harry Perkins Institute of Medical Research, Australia

PS02-10 Effect of combined administration of escitalopram and risperidone on dopamine and serotonin increase in the rat frontal cortex
Katarzyna Kamińska | Institute of Pharmacology of the Polish Academy of Sciences, Poland

PS02-11 Histone methylation by the Kleefstra Syndrome protein EHMT1 mediates homeostatic synaptic scaling
Nael Nadif Kasri | Donders Institute for Brain Cognition and Behaviour, Netherlands

PS02-12 Role of caspase-3 in regulation of nephrilysin and synaptic plasticity after hypoxia
Natalia Nalivaeva | University of Leeds, United Kingdom

PS02-13 Cannabinoid receptor 1 blockade alleviates the cognitive deficit in Down syndrome mouse models
Alba Navarro | Pompeu Fabra University, Spain

PS02-14 Onset and reversion of autism-associated symptoms in mutant beta-neurexin-1 mouse model
Estefania Robles Lanuza | Instituto de Biomedicina de Sevilla IBiS-HUVR/CSIC/Universidad de Sevilla, Spain

PS02-15 Adenosine A2A receptors control axon formation during neuronal development: implications to neuronal migration and epileptogenesis
Ricardo Rodrigues | CNC-Center for Neuroscience and Cell Biology, Portugal
POSTER PRESENTATIONS

PS02-16 Thalamic reticular dysfunction underlies attention deficits and hyperactivity in the Pchd1 knockout mouse
Michael Wells | Broad Institute of MIT and Harvard, USA

PS03 Synaptic plasticity

PS03-01 Protein synthesis inhibitors exacerbate the deterioration induced by KCI on LTP during early events following induction: a propose
Abdul Karim Abbas | Institute of Neuroscience and Physiology, Sweden

PS03-02 Neuronal membrane glycoprotein Gpm6a induces filopodium formation in neurites through a Coronin-1a/ Rac1/ Pak1 pathway
Anabel Alvarez Juliá | Institute for Research in Biotechnology, Argentina

PS03-03 ARMS/Kidins220 protein controls regulated secretion of BDNF
Juan Carlos Arévalo | University of Salamanca, Spain

PS03-04 Membrane-tethered AKT regulates early phase LTP expression via modulation of post-synaptic AMPA receptors
Natalya Borovok | Tel-Aviv University, Israel

PS03-05 Structural plasticity of dendritic spines during long-term depression in a mouse model of Fragile X
Miquel Bosch | Institute for Bioengineering of Catalonia, Spain

PS03-06 Constitutive activity of the ghrelin receptor controls hippocampal AMPARs synaptic insertion and memory
Mário Carvalho | Center for Neuroscience and Cell Biology (CNC), Portugal

PS03-07 Desensitisation of rapid cholinergic neurosecretion in the Torpedo marmorata electric organ
J. Miguel Cordeiro | University of Porto, Portugal

PS03-08 The impact of adenosine A1 receptor on cannabinoid receptor 1-induced modulation of synaptic plasticity
Armando Cruz | Instituto de Medicina Molecular, Portugal

PS03-09 BDNF upregulates synaptic expression of GluN2B-containing NMDAR in cultured hippocampal neuron
Pasqualino De Luca | CNC-Center for Neuroscience and Cell Biology, Portugal

PS03-10 Positioning of AMPA receptor-containing endosomes regulates synapse architecture
Marta Esteves da Silva | Utrecht University, Netherlands

PS03-11 Contactin-associated proteins 1 and 2 (Caspr1 & Caspr2) - unexpected key players in the regulation of homeostatic synaptic scaling
Dominique Fernandes | CNC - Centre for Neuroscience and Cell Biology, Portugal

PS03-12 An interplay between Caspr1 and the RNA-binding protein ZBP1 in the regulation of homeostatic synaptic scaling
Dominique Fernandes | CNC - Centre for Neuroscience and Cell Biology, Portugal
PS03-13 Adenosine $A_{2A}$ receptor controls long-term potentiation in rodent and human cortical areas
Samira Ferreira | Center for Neuroscience and Cell Biology, Portugal

PS03-14 Dyrk1a, a novel regulator of nmda receptors: implications for down syndrome and alzheimer’s disease
Macarena Gomez de Salazar | IDIBELL, Spain

PS03-15 In the pursuit of the fear engram: Identification of neuronal circuits underlying the treatment of anxiety disorder
Ossama Khalaf | EPFL, Switzerland

PS03-16 Chronic methiopropazine increases the spine density in the rat nucleus accumbens
Jeong-Hoon Kim | Yonsei University College of Medicine, South Korea

PS03-17 Comparison of the synaptic plasticity established by two genetically different populations of hiPS cell-derived excitatory neurons
Thorsten Lau | Central Institute of Mental Health, Germany

PS03-18 The RNA-binding protein hnRNP-K acts downstream of BDNF-TrkB signaling to regulate mRNA metabolism in dendrites
Graciano Leal | CNC-Center for Neuroscience and Cell Biology, Portugal

PS03-19 Role of DOR in neuronal plasticity changes promoted by food-seeking behaviour
Samantha Mancino | Boston University School of Medicine (Boston) - Universidad Pompeu Fabra (Barcelona), USA

PS03-20 The Impact of Phospholipase D2 Genetic Ablation in Adult Mouse Hippocampal Synaptic Functioning
Luisa Marinha | Life and Health Science Research Institute (ICVS), Portugal

PS03-21 Fingolimod, a sphingosine-1-phosphate receptor modulator, alters NMDA receptor properties in rat hippocampal slices
Guy Massicotte | Université du Québec, Canada

PS03-22 In quest for finding the key regulators of the molecular mechanisms of long-term memory
Izhak Michaellevski | Tel Aviv University, Israel

PS03-23 Contactin-associated protein 1 interacts with metabotropic glutamate receptor type 5 and modulates its function in the hippocampus
Xavier Morató Arús | Universitat de Barcelona, Spain

PS03-24 Controlled proteolysis of the extra-cellular matrix of the brain facilitates homeostatic plasticity
Alessandra Pellerito | Leibniz Institute of Neurobiology, Germany

PS03-25 Role of Bassoon & Piccolo in the regulation of voltage-gated calcium channels at the release sites and of synaptic vesicles cycle
Eneko Pina | Leibniz Institute for Neurobiology, Germany

PS03-26 Coordinated synaptic plasticity at dendritic inhibitory and excitatory synapses
Tiziana Ravasenga | Fondazione Istituto Italiano di Tecnologia, Italy
POSTER PRESENTATIONS

**PS03-27** Dissection of the role of the Ral/exocyst pathway in postsynaptic growth  
Cátia Rodrigues | CEDOC - Chronic Diseases  
FCM-UNL, Portugal

**PS03-28** Dissection of the mechanism of exosome release at the Drosophila Neuromuscular Junction  
Joana Rodrigues | CEDOC - Chronic Diseases  
FCM-UNL, Portugal

**PS03-29** Matrix metalloproteinase-9 (MMP-9) activity might prominently regulate presynaptic release probability  
Ahmad Salamian | Nencki Institute of Experimental Biology, Poland

**PS03-30** The administration affects structural plasticity in the hippocampus  
Viktória Salgado | Universitat Pompeu Fabra, Spain

**PS03-31** Teaching old dog new tricks: repurposing valproic acid as an epigenetic regulator to rewiring cortical connections and plasticity  
Judy Sng | National University of Singapore, Singapore

**PS03-32** Astrocyte phagocytic activity regulates synaptic pruning in the adolescent brain  
Jerome Staal | Florey Institute of Neuroscience and Mental Health, Australia

**PS03-33** Neuronal adenosine A<sub>2A</sub> receptor overexpression leads to NMDAR overactivation and a shift in LTD in CA1/CA3 hippocampal synapses  
Mariana Temido-Ferreira | Instituto de Medicina Molecular, Portugal

**PS04 Plasticity mechanisms in synaptic function and dysfunction**

**PS04-01** Axonal transport and subcellular localization of α-synuclein in Drosophila photoreceptors  
Yolanda Afonso | Instituto de Tecnologia Química e Biológica (ITQB-UNL), Portugal

**PS04-02** Role of astrocytes in hippocampal synaptic plasticity under conditions of Alzheimer’s disease  
Paula Agostinho | Faculty of Medicine, Portugal

**PS04-03** The Alzheimer’s risk factors Bin1 and CD2AP polarize the endocytic generation of ß-amyloid  
Claudia Almeida | CEDOC - Nova Medical School - University Lisbon, Portugal

**PS04-04** Neuronal and glial NCX3 as molecular target in neurodegenerative disorders  
Lucio Annunziato | University of Naples Federico II, Italy

**PS04-05** Electrophysiological study of hippocampal neurons in the model of Alzheimer’s disease and neuroprotective impact of viper venom  
Naira Ayvazyan | Orbeli Institute of Physiology, Armenia

**PS04-06** P2X7 receptor overexpression in the neocortex of drug-resistant human epileptic patients may favor GABAergic rundown  
Aurora Barros-Barbosa | Instituto de Ciências Biomédicas Abel Salazar - Universidade do Porto, Portugal
PS04-07 Upr egulation of the adenosine A2A receptor and CD73 in hippocampal astrocytes of patients with mesial temporal lobe epilepsy (MTLE)
Aurora Barros-Barbosa | Instituto de Ciências Biomédicas Abel Salazar - Universidade do Porto, Portugal

PS04-08 First evidence for the recruitment of autophagy in human brain after stroke
Philip Beart | University of Melbourne, Australia

PS04-09 Vitamin D signalling and hippocampal function in adult mice
Thomas Burne | The University of Queensland, Australia

PS04-10 How is aging altering APP trafficking, beta-amyloid accumulation and synaptic function?
Tatiana Burrinha | CEDOC - Chronic Disease Research Center, Portugal

PS04-11 Synaptic modulation of Tau pathology propagation
Sara Calafate | VIB, Belgium

PS04-12 Deletion of the type-1 interferon receptor in APPSWE/PS1ΔE9 mice preserves cognitive function and alters microglial phenotype
Peter Crack | The University of Melbourne, Australia

PS04-13 BACE1/A PP interaction at early stages of Alzheimer’s disease associate with biophysical alterations in lipid rafts
Mario Diaz | Universidad de La Laguna, Spain

PS04-14 Menopause alters signalosome interactions in human cortical lipid rafts.
Mario Diaz | Universidad de La Laguna, Spain

PS04-15 GABA transmission via ATP-dependent K+ channels regulates α-synuclein secretion in mouse striatum
Evangelia Emmanouilidou | BRFAA, Greece

PS04-16 Hyperglycemia impairs dendritic arborization and synaptic puncta of newly-generated hippocampal neurons in Alzheimer’s disease
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PS04-17 Assessing neuroprotective effects of (poly)phenol metabolites in a Parkinson’s disease 3D cell model
Inês Figueira | ITQB - UNL, Portugal

PS04-18 Amyloid Beta/ APP Signalling complex and its effects at CA3 synapses
Samuel Frere | Tel Aviv University, Israel

PS04-19 Neurotoxic effects of 5-MeO-DIPT given chronically in adolescence in the rat brain
Krystyna Golembowska | Institute of Pharmacology Polish Academy of Sciences, Poland

PS04-20 Neurexin-Neuroligin in Alzheimer’s disease. Generation of a knockin mouse model for the frameshift mutation Neuroligin-1 T271fs
Francisco Gomez-Scholl | Instituto de Biomedicina de Sevilla (IBiS), Spain

PS04-21 Synapse dysfunction of layer V pyramidal neurons precedes neurodegeneration in a mouse model of TDP-43 proteinopathies
Emily Handley | University of Tasmania, Australia
PS04-22 Crosstalk between Calcium and ROS in the synaptic dysfunction triggered by amyloid-beta peptide oligomers
Cecilia Hidalgo | F. Medicine, Chile

PS04-23 FTY720 limits A neurotoxicity by favoring synaptic versus extrasynaptic NMDA receptor functionality in hippocampal neurons
Pooja Joshi | IRCCS Humanitas, Italy

PS04-24 ATP-derived adenosine controls A-induced impairment of behaviour and synaptic plasticity
João Pedro Lopes | Center for Neuroscience and Cell Biology - University of Coimbra, Portugal

PS04-25 Alterations in pro- and anti-inflammatory proteins along increased presence of HSV-1 in Alzheimer’s disease brain
Maria Lopez de Ceballos | Cajal Institute CSIC, Spain

PS04-26 The effects of miR-196a on neuronal morphology in vitro and in vivo
Suhan Mao | National Cheng Kung University, Taiwan

PS04-27 The IRE1-XBP1 branch of the UPR delays amyloid beta accumulation and neurotoxicity in Drosophila CNS; implications in AD
Maria Marcera | Fundacion Instituto Leloir, Argentina

PS04-28 Mesenchymal stromal cells secretome-induced axonal outgrowth is mediated by BDNF
Luis Martins | Center for Neuroscience and Cell Biology (CNC), Portugal

PS04-29 Alteration of GABA_A Receptor trafficking in status epilepticus
Miranda Mele | CNC-Center for Neuroscience and Cell Biology, Portugal

PS04-30 Dopaminergic neurotransmission dysfunction induced by β-amyloid transforms cortical LTP to LTD and produces memory impairment
Perla Moreno Castilla | Instituto de Fisiologia Celular, Mexico

PS04-31 Role of Src kinase in oligomeric amyloid-beta-induced early oxidative stress in mature hippocampal neurons - a link to Alzheimer’s disease
Sandra Mota | Center for Neuroscience and Cell Biology, Portugal

PS04-32 Age-dependent oxidative stress in presynaptic terminals of a mouse model of Huntington’s disease
Sandra Mota | Center for Neuroscience and Cell Biology, Portugal

PS04-33 Synaptic distribution of APP and secretases in mouse and human brain cortex-Anna Plíšsova | CNC.IBILI -CNC - Center for Neuroscience and Cell Biology & Faculty of Medicine, Portugal

PS04-34 Role of neuron-oligodendroglial cell synapses in myelination
Marion Porte | Brain and Spine Institute, France

PS04-35 Synaptic plasticity induced by CDK5 RNAi in normal and dysfunctional synapses
Rafael Posada Duque | University of Antioquia, Colombia
PS04-36 Increased APP intracellular domain levels in adult CA1 neurons alter NMDA receptor function and associated memory processing
Paula Pousinha | CNRS UMR7275, France

PS04-37 AMPA-receptor subunit GluA3 makes synapses susceptible to amyloid-β
Niels Reinders | NIN, Netherlands

PS04-38 BACE1 inhibitor rescues the dynamics of the axonal dystrophies and decreases the plaque growth rate
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PS04-39 Blood Glutamate Scavenging as a Novel Therapeutic Treatment for ALS
Angela Ruban | Tel Aviv University, Israel

PS04-40 Brain ischemia-induced alterations in the ubiquitin-proteasome system: role in neuronal demise
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PS04-41 An oxidative mechanism of cholinergic dysfunction in neurons exposed to Alzheimer’s-linked Aβ-oligomers
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PS04-42 Histone deacetylase inhibitor attenuates amyloid beta toxicity in neurons
Yuko Sekino | National Institute of Health Sciences, Japan

PS04-43 The "stressed" autophagy: chronic stress exacerbates Tau pathology by blocking autophagy clearance system
Joana Silva | Life and Health Sciences Research Institute, Portugal

PS04-44 Changes in sodium Calcium Exchanger (NCX) Expression And Activity in A53t Mice: New Perspectives in Dopaminergic Neuronal Demise
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PS04-45 Early signs of neurodegeneration in dopaminergic neurons observed in a Drosophila model of Parkinson's disease
Flora Stephano | University of Dar es Salaam, Tanzania

PS04-46 Tau reduction prevents cognitive and motor deficits in a mouse model of traumatic brain injury
Ping Zheng | Royal Melbourne Hospital, Australia

PS05 From synapses to circuits

PS05-01 Homeostatic control of dopamine by astrocytes in the postnatal maturation of the prefrontal cortex
Paola Bezzi | University of Lausanne, Switzerland

PS05-02 Characterization of novel optogenetic tools designed in silico
João Calmeiro | Center for Neuroscience and Cell Biology, Portugal

PS05-03 Regional differences in mu-opioid receptor modulation of dopamine efflux in rat striatum
Maria Cano-Cebrian | University of Valencia, Spain

PS05-04 Mechanisms underlying ribosomal regulation in axonal development
Rui O. Costa | CNC-Center for Neuroscience and Cell Biology of Coimbra, Portugal
PS05-05  HCN channels are involved in theta rhythm production in hippocampal formation - an in vivo and in vitro study
Paulina Kazmierska | University of Lodz, Poland

PS05-06  Tau protein as a key element in stress-induced suppression of adult hippocampal neurogenesis
Ioannis Sotiropoulos | Life and Health Sciences Research Institute (ICVS), Portugal

PS05-07  A golden pair of synaptic adhesion molecules, netrin-G1 and netrin-G2
Qi Zhang | RIKEN, Japan

PS06 Circuit dysfunction and neuropsychiatric disorders

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Xavier Altafaj | IDIBELL, Spain

PS06-02  Modification of synaptic markers and adenosine A1 and A2A receptor densities in different brain regions of suicide completers
Paula Canas | Center for Neuroscience and Cell Biology - University of Coimbra, Portugal

PS06-03  Dimorphic, brain region-specific regulation of microglia by adenosine A2AR receptors: uncoupling anxiety and cognition
Joana Duarte | CNC.IBILI, Portugal

PS06-04  GPRASP2 plays a role in mGluR1/5 trafficking, modulation of neuronal morphology and spine maturation
Mohamed Edfawy | Center for Neuroscience and cell Biology, Portugal

PS06-05  Does early life adversity affects social hierarchy in adulthood?
Lara Franco | CNC - Center for Neuroscience and Cell Biology; University of Coimbra, Portugal

PS06-06  Selective amygdala neuronal down-regulation of adenosine A2A receptors prevents mood-related modifications
Nélio Gonçalves | Center for Neuroscience and Cell Biology, Portugal

PS06-07  A role for the parvalbumin interneuron-enriched microRNA miR-206 in schizophrenia-related behaviors
Mary Heyer | Icahn School of Medicine at Mount Sinai, USA

PS06-08  The New Stimulant Designer Compound Pentedrone Induces Rewarding Properties and Affects Dopaminergic Activity
Ji Young Hwang | Sungkyunkwan University, Korea South

PS06-09  Buphedrone Has Rewarding Response through the Dopaminergic System
Kyungin Kim | Sungkyunkwan University, Korea South

PS06-10  Leptin in the nucleus accumbens regulates cocaine-induced locomotor activity
Jung Won Lee | College of Medicine, Korea South

PS06-11  ITGB3 in neurological disorders: from the synapse to therapeutic opportunities
Eduardo Morais | Istituto Italiano di Tecnologia (IIT), Italy
PS06-12 P2X7 receptors drive spine synapse plasticity in the learned helplessness model of depression
Lilla Otrokocsi | Institution of Experimental Medicine, Hungary

PS06-13 The Importin of Anxiety
Nicolas Panayotis | Weizmann Institute of Science, Israel

PS06-14 Understanding the basis of orthosteric and allostERIC modulation at GABA_A-Rs in the hunt of novel non-sedating anxiolytic agents
Pavan Payghan | CSIR-Indian Institute of Chemical Biology, India

PS06-15 Dimorphic responses to chronic A2AR blockade in a model of developmental anxiety
Helena Pinheiro | CNC.IBILI, Portugal

PS06-16 CP 47,497 and its derivatives, synthetic cannabinoids, induce conditioned place preference and self-administration in mice
Jee-yeon Seo | Sungkyunkwan University, Korea South

PS06-17 Enhanced adenosine A_1 receptor expression in forebrain neurons promotes antidepressant effects and modulates synaptic plasticity
Tsvetan Serchov | University Hospital Freiburg, Germany

PS06-18 Homer1a induction in the medial PFC mediates the antidepressant effects of imipramine, ketamine and sleep deprivation
Tsvetan Serchov | University Hospital Freiburg, Germany

PS06-19 Adenosine A_2A receptors in the amygdala control synaptic plasticity and fear memory
Ana Simões | Center for Neuroscience and Cell Biology-University of Coimbra, Portugal

PS06-20 Tau protein is essential for stress-driven depressive pathology and cognitive impairment
Ioannis Sotirooulos | Life and Health Sciences Research Institute (ICVS), Portugal
TRAVEL AWARDS

Congratulations to the following young investigators for the ISN, IBRO and SPN travel awards:

Abhishek Banerjee  Switzerland
Ahmad Salamian  Poland
Anabel Alvarez Juliá  Argentina
Armando Cruz  Portugal
Aurora Barros-Barbosa  Portugal
Ayodele Akinyemi  Nigeria
Daniela Pereira  Portugal
Dominique Fernandes  Portugal
Emily Handley  Portugal
Eneko Pina  Portugal
Evangelia Emmanouilidou  Australia
Flora Stephano  France
Joana Ferreira  Portugal
Joana Silva  Brazil
Luis Santos  Portugal
Luisa Santa Marinha  Spain
Macarena Gomez de Salazar  Argentina
Maria Marcora  Portugal
Mariana Temido-Ferreira  France
Marion Porte  Portugal
Mariline Silva  The Netherlands
Marta Esteves da Silva  USA
Mary Heyer  USA
Michael Wells  Israel
Nicolas Panayotis  Switzerland
Ossama Khalaf  Portugal
Paula Canas  France
Paula Pousinha  Poland
Paulina Kazmierska  India
Pavan Payghan  Australia
Ping Zheng  Italy
Pooja Joshi  Colombia
Rafael Posada Duque  USA
Samantha Mancino  Portugal
Sandra Mota  Belgium
Sara Calafate  South Korea
Seungmin Ha  Belgium
Soraia Barão  Belgium
Tsvetan Serchov  Germany
GENERAL INFORMATION

Coimbra
City of Students and a UNESCO World Heritage Site, Coimbra is unique in its great historical legacy. Coimbra was the birthplace of six Portuguese kings and is home of the first university of Portugal. With over 725 years of history, the University of Coimbra is one of the oldest in Europe. During your stay, make sure you do not miss the opportunity to savour local gastronomy, and visit monuments and historical treasures.

Conference Venue
Convento São Francisco, Centro de Convenções e Espaço Cultural
Av. da Guarda Inglesa 3, 3040-270 Coimbra

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Registration and Information Desks
The Registration and Information Desks are located at the entrance foyer of the Convento de São Francisco and will remain open throughout the Conference during the following hours:

Wednesday, June 1: 15h00 – 18h30
Thursday, June 2: 08h30 – 18h30
Friday, June 3: 08h30 – 18h30
Saturday, June 4: 08h30 – 18h00

Wireless internet
Free Wi-Fi internet will be available except in the auditorium. No password is required. Network: CSF Convidados
Lost and found
A lost and found service will be available at the Registration Desk.

Name badge
Each registered delegate will receive a name badge. Delegates must wear the badge at all times during the Conference. Admission to the Conference rooms, exhibition, posters, and social events are limited to those wearing the name badge.

Certification of attendance
A Certificate of attendance will be sent by e-mail after the Conference.

Speaker Ready Room
All speakers should go to the Speaker Ready Room (next to the Registration Desk) to upload their slides at least 4 hours before the presentation. A staff person will help speakers upload their slides and other files.

Computer in the presentation room will run in Microsoft Windows with PowerPoint. VGA connectors for Mac computers will not be available. Mac computers will not be used and presentations will need to be transferred. The use of personal laptops for presentation will not be possible.

Speaker Ready Room Schedule
Wednesday, June 1: 15h00 – 18h30
Thursday, June 2: 08h30 – 16h30
Friday, June 3: 08h30 – 16h30
Saturday, June 4: 08h30 – 16h00

Opening Session
The Opening Session and the first lecture will take place on Wednesday, June 1 at 16h30, at the auditorium (floor -1), and is followed by a Welcome Cocktail at the Cloister.

Coffee-Break
Coffee-break will be served at the foyer in front of the auditorium except on June 3 when it will be served at the cloisters (floor 1)

Lunch
Lunches on June 2, 3 and 4 will be served at the Conventual room (floor 1)

Wine and Cheese Cocktail and Cultural Event
We count on your presence at the wine and cheese cocktail on Friday 3 at the venue cloister. It will be an excellent opportunity to enjoy the traditional Coimbra Fado.
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