



Italian Society for Neuroscience  
Section of Pharmacology,  
Department of Molecular and Translational Medicine,  
University of Brescia



UNIVERSITÀ  
DEGLI STUDI  
DI BRESCIA



## National Meeting of PhD Students in Neuroscience

June 11, 2022

Brescia

Aula Magna – Facoltà di Medicina  
Università degli Studi di Brescia  
Viale Europa 11, 25123, Brescia

Noldus





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**8:00-8:15 Introduction to the Meeting by Organizers and SINS  
President Prof. Alessandro Vercelli**

**8:15-9:45 Oral Presentations: 1<sup>st</sup> SESSION**

**Chairman: *Buonincontri V., University of Campania*  
*Parente M., University Roma Tre***

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- 8:15-8:30 Primary sensory cortices of a mouse model of CDKL5 deficiency disorder show atypical myelination**  
***Devi S.***  
*University of Torino*
- 8:30-8:45 Characterization of the extracellular vesicles released by astrocytes cultured from the spinal cord of 120-day-old SOD1G93A mice**  
***Zerbo A.***  
*University of Genova*
- 8:45-9:00 Is alpha-synuclein a foe for brain recovery after ischemic stroke?**  
***Bogale T.A.***  
*University of Brescia*
- 9:00-9:15 Targeting the endocannabinoid and melatonergic systems to provide neuroprotection against the neuroinflammatory damage**  
***Cammarota M.***  
*University of Napoli Federico II*
- 9:15-9:30 Somatosensory processing deficits and altered connectivity in *Cntnap2* *-/-* and *Shank3b* *-/-* mouse models of autism spectrum disorder.**  
***Balasco L.***  
*University of Trento*
- 9:30-9:45 Alterations in extracellular spaces thickness and dopaminergic activity in CKD mice models**  
***De Donato A.***  
*University of Campania*

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**9:45-10:30 Lecture: Dr. Solaiman Shokur, EPFL, Geneva, Switzerland**

***“A modular strategy for next-generation upper-limb sensory-motor neuroprostheses”***

***Chair: Prof. Viviana Trezza***

**10:30-10:45 Break**

## 10:45-12:25 Short Oral Presentations

Chairman: *Nappi M., University of Napoli*

*Preziuso A., University Politecnica delle Marche*

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- 10:45-10:55 **Semaphorin-3A drives axonal growth cone elongation during neuronal development in human neural progenitors**  
*Ferretti G.*  
*University of Napoli Federico II*
- 10:55-11:05 **Mind the gap: a role for ER-mitochondria interaction, in Alzheimer's disease astrocytes cellular dysfunction.**  
*De Matteis G.*  
*University of Piemonte Orientale*
- 11:05-11:15 **In vivo neurotransmitter deficits in genetic frontotemporal dementia. a genfi study**  
*Pengo M.*  
*University of Brescia*
- 11:15-11:25 **Engineering LIM kinase 1 to control dendritic spine plasticity**  
*Sollazzo R.*  
*IRCCS Policlinico Universitario A. Gemelli*
- 11:25-11:35 **Rescuing neural cell survival and maturation in a primary autosomal recessive microcephaly-17 (MCPH17) mouse model: effects of the postnatal N-acetyl cysteine treatment**  
*Khastkhodaei Ardakani M.*  
*University of Torino*
- 11:35-11:45 **The acute effects of intrusive thinking on neurotransmission within anterior cingulate cortex in pathological and non-pathological worriers: A 1H magnetic resonance spectroscopy and ecological momentary assessment study**  
*Schettino M.*  
*Sapienza University of Rome*
- 11:45-11:55 **Insights into the neurodegenerative mechanisms associated with KIF5A mutations**  
*Cozzi M.*  
*University of Milano*
- 11:55-12:05 **Synaptic targets of KLVFF: the impact on the neurotransmitters release**  
*Trebesova H.*  
*University of Genova*
- 12:05-12:15 **Insights into Frontotemporal Dementia pathogenesis: the role of anti-GluA3 antibodies**  
*Italia M.*  
*University of Milano*
- 12:15-12:25 **Long-term effect after intravenous self-administration (IVSA) of the synthetic cannabinoid receptor agonist 5F-MDMB-PICA in adolescent mice**  
*Caria F.*  
*University of Cagliari*

## 12:25-14:15 Poster session and Lunch

*Posters evaluated by the members of the SINS Board*

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## 14:15-15:00 Lecture: Prof. Alessandro Vercelli, SINS President

*"Of life and death of neurons"*

*Chair: Prof. Marina Pizzi*

**15:00-17: 15 Oral Presentations: 2<sup>nd</sup> SESSION**

**Chairman: Tomasoni Z., University of Brescia  
Camoglio C., University of Cagliari**

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- 15:00-15:15** Cognitive decline induced by intracerebral infusion of human-alpha synuclein oligomers is associated with altered neuronal firing in cingulate cortical neurons.  
**Palmas F.**  
*University of Cagliari, Italy*
- 15:15-15:30** SARS-COV2's tropism in neurons and glia impairs neuronal networks activity: an in vitro study on rat cortical cells  
**Manzati M.**  
*International School for Advanced Studies (SISSA)*
- 15:30-15:45** Mitochondrial alterations in subjects with idiopathic REM sleep disorders as a predictive biomarker for conversion to Parkinson's disease  
**Ongari G.**  
*IRCCS Mondino Foundation*
- 15:45-16:00** Extracellular vesicles cooperate with PQC system for the clearance of TDP-43 species associated with ALS and FTD  
**Casarotto E.**  
*University of Milano*
- 16:00-16:15** Evidence of vestibular contributions to visuospatial attention in patients with vestibular disorders  
**Gammeri R.**  
*University of Torino*
- 16:15-16:30** Improved synapsins phosphorylation and alpha-synuclein nitration occur in concert in experimental models of Parkinson's disease  
**Brembati V.**  
*University of Brescia*
- 16:30-16:45** Beyond retigabine: design, synthesis, and pharmacological characterization of a potent and chemically-stable neuronal Kv7 channels activator with anticonvulsant activity  
**Carotenuto L.**  
*University of Napoli Federico II*
- 16:45-17:00** Functional effects of a new dual adenosine A2A/A2B receptor antagonist on CA1 hippocampal synaptic plasticity or during oxygen glucose deprivation  
**Venturini M.**  
*University of Firenze*
- 17:00-17:15** Dissecting the neural bases behind observational learning of complex social behaviors  
**La Greca F.**  
*University of Milano*

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**17.15 – 17.45** Poster Awards, Conclusions and Final Remarks

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