Mechanistic Insights into Neurological Disorders and New Therapeutic Strategies

Conference
Rome, July 7th – 8th, 2021
CNR Headquarters - Aula Convegni
Piazzale Aldo Moro, 7
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### Program – Wednesday July 7th, 2021

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<th>Time</th>
<th>Session: Neurodevelopment - Chair: Alessandro Giuffrè, Patrizia Lavia</th>
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<td>11.30 - 11.45</td>
<td>Welcome address - Daniela Corda, DSB Director</td>
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**Session: Neuromuscular and Psychiatric Diseases - Chair: Giovanni Maga, Giancarlo Colombo**

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<td>15.00 - 15.15</td>
<td>The mechanosignaling network of differentiating myoblasts under mechanical strain - G. Lattanzi, IGM</td>
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<td>15.15 - 15.30</td>
<td>Epigenetic reprogramming of Fibro-Adipogenic Progenitors promotes repair and prevents degeneration of dystrophic muscles - V. Bianconi, IBPM</td>
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<td>15.30 - 15.45</td>
<td>Cell2a inhibition: a new strategy to ameliorate Duchenne Muscular Dystrophy symptoms – J. Martone, IBPM</td>
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- **Session: Infrastructures - Chair: Piergiuseppe De Berardinis, Maria Patrizia Stoppelli**
  - 16.45 - 17.00 Gene therapy strategies for myotonic dystrophy type 1 - S. Mandillo, IBBC
  - 17.00 - 17.15 Exploring the neuroprotective effects of Montelukast treatment in a rat model of quinolinic acid-induced neurotoxicity - S. Belloli, IBFM
  - 17.15 - 17.30 Networking-based prediction of involvement of differentially expressed IncRNAs in Alzheimer’s Disease - E. Filomena, IBIOM
  - 17.30 - 17.45 Removal of chronic pain symptoms by in vivo microsections of rat somatosensory cortex with parallel high-energy X-ray microbeams - A. Zippo, IN

17.45 - 18.00 ER-shaping proteins and their role in neuronal calcium homeostasis - D. Pendin, IN

18.00 - 18.30 Horizon Europe: contesto politico e azioni dedicate ai temi Health – L. Moretti, CNR International and European Relations
Program – Thursday July 8th, 2021

Welcome address – Maria Chiara Carrozza, CNR President

09.00 - 10.00 Lecture “Empowering stem cell therapy for huntington’s disease using single-cell genomics” - Elena Cattaneo, Università degli Studi di Milano

Session: Neurodegeneration - Chair: Gianluca De Bellis, Luigi Zecca

10.00 - 10.15 Intracellular interference with A-beta oligomers rescues adult hippocampal neurogenesis and memory deficit of Tg2576 - R. Scardigli, IFT

10.15 - 10.30 Pathogenic fus promotes the expression of aggregation-prone splicing isoforms of hnmpa2b1 in amyotrophic lateral sclerosis - M. Cozzolino, IFT

10.30 - 10.45 Structural evidences for the role of CD33 SNP rs2455069 in Alzheimer disease progression - E. Vitale, IBBC

10.45 - 11.00 Nuclear Tau modulates gene expression leading to glutamate release alterations during AD progression - G. Siano, IN

11.00 - 11.30 Coffee break

11.30 - 11.45 Microglia-specific overexpression of alpha-Synuclein leads to severe dopaminergic neurodegeneration by phagocytic exhaustion and oxidative toxicity - V. Broccoli, IN

11.45 - 12.00 Targeting the Wnt/ß-catenin pathway by Natriuretic Peptides: an attractive therapeutic approach for Parkinson’s disease - A. Serafino, IFT

12.00 - 12.15 Dissecting olfactory circuits’alterations in mouse models of Parkinson’s disease - C. Lodovichi, IN

12.15 - 12.30 Sigma-1receptor mutation causes dysregulation of cell homeostasis and intracellular CA2+ signaling in dhmn patient cells - G. Pallafacchina, IN

12.30 - 12.45 Drosophila melanogaster models in neurologic and neurodegenerative diseases - F. Cipressa, IBPM

12.45 - 13.00 Deciphering the neuroprotective role of Sigma1 Receptor, an important function to overcome the symptoms of neurodegenerative disorders - V. Morea, IBPM

13.00 - 13.15 ALS-linked cytoplasmic inclusions alter DNA-Damage Response activation - S. Francia, IGM


13.30 - 13.45 Altered insulin pathway induces mitochondrial dysfunction and impairs autophagy in in vitro and in vivo model systems - M. Di Carlo, IRIB

13.45 - 14.00 Bioengineering approaches to investigate CLN8-VAPA interaction in CLN8-diseases - P. Guarneri, IRIB