



# **2<sup>nd</sup> Meeting of the Italian *C.elegans* Research Community *M.i.C.e.r.co***

**Institute of Biosciences and BioResources  
IBBR-CNR, Naples  
5-6 March 2020**

## **Organisers**

**Elia Di Schiavi (IBBR) and Simone Martinelli (ISS)**

## **Secretariat**

**Pamela Santonicola, Giuseppina Zampi, Luca Pannone**

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## 2<sup>nd</sup> M.i.C.e.r.co Programme

Thursday 5 March 2020

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| 13:30 – 14:30 | Registration at IBBR, Via P. Castellino 111   |
| 14:30 – 14:45 | <b>WELCOMING ADDRESSES</b><br>PROF. F. LORETO (DIRECTOR OF DISBA, CNR)<br>DR. G.G. VENDRAMIN (DIRECTOR OF IBBR, CNR)<br>PROF. G. LIMONGELLI (DIRECTOR CENTRO COORDINAMENTO MALATTIE RARE, REGIONE CAMPANIA)<br>PROF. G. GRIGNASCHI (SECRETARY GENERAL RESEARCH4LIFE)<br>PROF. V. COLANTUONI (ADVISER SIBBM)<br>PROF. E. DEL GIUDICE (PRESIDENT NBG)   |
| 14:45 – 15:30 | <b>OPENING LECTURE</b><br><i>Defective axon guidance links H3K4 deregulation to neurodevelopmental disorders</i><br>Prof. Anna Elisabetta Salcini, BRIC, University of Copenhagen, Denmark  |
| 15:30 – 17:30 | <b>SESSION I: MODELLING HUMAN DISEASES I</b><br><i>In vivo analysis of FANCD2 recruitment at meiotic DNA breaks in C. elegans</i><br>Marcello Germoglio, IBBR, CNR, Naples, Italy<br><i>Modelling germline mutations affecting CDC42 in C. elegans highlights their differential impact on multiple signaling pathways</i><br>Martina Di Rocco, ISS, Rome, Italy<br><i>C. elegans modelling of a germline missense mutation in CLTC underlying intellectual disability and early-onset parkinsonism</i><br>Luca Pannone, ISS, Rome, Italy<br><i>Investigating the spreading and toxicity of tau using C. elegans</i><br>Carmina Natale, IRCCS Mario Negri, Milan, Italy<br><i>C. elegans avatars of amyloid cardiac toxicity</i><br>Luisa Diomedea, IRCCS Mario Negri, Milan, Italy<br><i>A model for human binge eating in the worm C. elegans</i><br>Mariangela Pucci, University of Teramo, Italy and Karolinska Institute, Stockholm-Huddinge, Sweden |
| 17:30 – 18:30 | <b>COFFEE BREAK AND POSTER SESSION</b>  |
| 18:30 – 20:30 | <b>SESSION II: MODELLING HUMAN DISEASES II</b><br><i>C. elegans expressing D76N <math>\beta_2</math>-microglobulin: a model for in vivo screening of drug candidates targeting amyloidosis</i><br>Giulia Faravelli, University of Pavia, Italy  |

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| 20:30 – 22:00 | <p><i>Characterization of ATP7B/cua-1 mutants to find new targets to attenuate copper toxicity in Wilson disease</i><br/>Federico Catalano, TIGEM, Pozzuoli and IBBR, CNR, Naples, Italy</p> <p><i>Activating intercellular translocation of MANF into neurons as a novel therapeutic strategy for Parkinson's disease</i><br/>Roman Vozdek, EURAC Research, Institute for Biomedicine, Bolzano, Italy</p> <p><i>Protective effects of nutraceuticals in neuronal pathologies</i><br/>Nataschia Ventura, Heinrich Heine University and the IUF- Leibniz Research Institute for Environmental Medicine, Duesseldorf, Germany</p> <p><i>Silencing of the mitochondrial ribosomal protein L-24 gene activates the oxidative stress response in Caenorhabditis elegans</i><br/>Arianna Montanari, Sapienza University of Rome, Italy</p> <p><i>TOGARAM1 is a novel gene associated with primary ciliopathy</i><br/>Eva Trevisson, University of Padova and Istituto di Ricerca Pediatrica, Fondazione Città della Speranza, Padova, Italy</p> <p><b>DINNER @ IBBR</b></p> |
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## Friday 6 March 2020

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| 9:00 – 10:00  | <p><b>SESSION III: ELUCIDATING BASIC BIOLOGICAL PROCESSES</b></p> <p><i>Pathogenic attack stimulates C. elegans extracellular proteostasis to prevent protein aggregation</i><br/>Ivan Gallotta, DZNE, Tübingen, Germany</p> <p><i>Mytho is a newly identified gene that controls lifespan and stress response in C. elegans</i><br/>Valeria Morbidoni, University of Padova and Istituto di Ricerca Pediatrica, Fondazione Città della Speranza, Padova, Italy</p> <p><i>Function of MOG proteins in germline sex determination and splicing in C. elegans</i><br/>Maria Simona Tarca, University of Fribourg, Switzerland</p> |
| 10:00 – 11:00 | <p><b>SESSION IV: TARGETING SPINAL MUSCULAR ATROPHY</b></p> <p><i>Key role of SMN/SYNCRIIP and RNA-Motif 7 in spinal muscular atrophy: RNA-Seq and motif analysis of human motor neurons</i><br/>Monica Nizzardo, University of Milan and IRCCS Ca' Granda Ospedale Maggiore Policlinico, Milan, Italy</p> <p><i>lin-45/B-RAF role in a C. elegans model of Spinal Muscular Atrophy</i><br/>Federica Cieri, IBBR, CNR, Naples, Italy</p> <p><i>Identification of new drugs and genetic targets for Spinal Muscular Atrophy</i><br/>Pamela Santonicola, IBBR, CNR, Naples, Italy</p>   |

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| 11:00 – 12:00 | <b>COFFEE BREAK AND POSTER SESSION</b>   |
| 12:00 – 13:40 | <p><b>SESSION V : ALTERNATIVE ASSAYS/MODELS</b></p> <p><i>Dissecting metabolomic signatures of breast cancer by exploiting the receptor-ligand binding affinity in C. elegans</i><br/>Viola Folli, IIT–Center for Life Nano Science, Rome, Italy</p> <p><i>Biophysical modeling of AWC<sub>ON</sub> and RMD C. elegans neurons</i><br/>Martina Nicoletti, Campus Bio Medico University of Rome and IIT–Center for Life Nano Science, Rome, Italy</p> <p><i>Automation in C. elegans research - a translational approach</i><br/>Michele Perni, Wren Therapeutics &amp; University of Cambridge - Centre for Misfolding Diseases, Cambridge, UK</p> <p><i>Spaceflight and neurodegeneration: C. elegans as a model organism to understand the effect of cosmic rays on nervous system</i><br/>Giada Onorato, IBBR, CNR, Naples and University of Torino, Italy</p> <p><i>Characterization of the hsp90 gene in the entomopathogenic nematode Heterorhabditis bacteriophora and its expression related to temperature</i><br/>Francesca De Luca, IPSP, CNR and University “A. Moro”, Bari, Italy</p> |
| 13:40 – 14:00 | <b>CONCLUDING REMARKS</b>  |

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