



## **2.0<sup>nd</sup> Meeting of the Italian *C. elegans* Research Community (M.I.C.e.R.Co.)**

**Art Relais Palazzo Cappuccini, Naples  
2-3 March 2023**

### **Organizers**

Elia Di Schiavi (IBBR), Simone Martinelli (ISS)

### **Scientific Secretariat**

Pamela Santonicola, Giuseppina Zampi, Luca Pannone

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## 2.0<sup>nd</sup> *M.I.C.e.R.Co* Program

**Thursday 2 March 2023**

12:30 – 14:00	Registration and Light Lunch at Art Relais Palazzo Cappuccini, Corso Vittorio Emanuele 730, Naples
14:00 – 14:20	<b>WELCOMING ADDRESSES</b> ELIA DI SCHIAVI (Naples) AND SIMONE MARTINELLI (Rome), MEETING ORGANIZERS ENNIO DEL GIUDICE (Naples), PRESIDENT OF THE <u>NEAPOLITAN BRAIN GROUP</u> GIULIANO GRIGNASCHI (Milan), GENERAL SECRETARY OF <u>RESEARCH4LIFE</u> ALESSANDRO VERCELLI (Turin), PRESIDENT OF <u>SINS</u>
14:20 – 14:40	<b>INVITED LECTURE</b> <b>A personal account of the beginning and early years of <i>C. elegans</i> research in Italy</b> PAOLO BAZZICALUPO Naples, Italy <b>Chair:</b> Elia Di Schiavi (Naples)
14:40 – 15:20	<b>OPENING LECTURE SPONSORED BY ZEISS</b> <b>A Complex Regulating Translation at the Neuronal Endoplasmic Reticulum</b> MARIO DE BONO Institute of Science and Technology Austria (ISTA), Vienna, Austria <b>Chair:</b> Elia Di Schiavi (Naples)
15:20 – 17:00	<b>SESSION I: ELUCIDATING BASIC BIOLOGICAL PROCESSES</b> <b>Chair:</b> Maria Giuseppina Miano (Naples) and Roman Vozdek (Bolzano)  <i>Towards healthy ageing: Investigating the regulation of extracellular protein aggregation</i> <b>Ivan Gallotta</b> , Babraham Institute, Cambridge, UK  <i>CI6ORF70, A Novel Gene that Regulates Aging in <i>C. elegans</i></i> <b>Valeria Morbidoni</b> , University of Padua and Fondazione Città della Speranza, Padua, Italy  <i>Molecular targets of nematocidal activity of essential oils</i> <b>Francesca De Luca</b> , Institute for Sustainable Plant Protection, CNR, SS-Bari, Italy

	<p><i>Conserved functions of mouse ARX and C. elegans alr-1 in controlling pathways damaged in neurodevelopmental disorders (NDDs)</i>  <b>Denise Drongitis</b>, Institute of Genetics and Biophysics, CNR, Naples, Italy</p> <p><i>Mechanosensory abilities of the AWCon chemosensory neurons</i>  <b>Martina Nicoletti</b>, Italian Institute of Technology and Campus Bio-Medico University of Rome, Rome, Italy</p>
17:00 – 18:00	<b>COFFEE BREAK AND POSTER SESSION</b>
18:00 – 19:40	<p><b>SESSION II: MODELLING HUMAN DISEASES AND PRECLINICAL DRUG DISCOVERY (I)</b>  <b>Chair:</b> Eva Trevisson (Padua) and Luisa Diomedea (Milan)</p> <p><i>Characterization of the transgenic animal models D. rerio and C. elegans to examine pathophysiology associated with SMARCB1 variants</i>  <b>Lisa Buson</b>, University of Padua and Fondazione Città della Speranza, Padua, Italy</p> <p><i>Modeling RASopathies in C. elegans: a long-lasting story</i>  <b>Luca Pannone</b>, Ospedale Pediatrico Bambino Gesù and Istituto Superiore di Sanità, Rome, Italy</p> <p><i>Characterization of a new C. elegans model for Wilson disease studies</i>  <b>Federico Catalano</b>, Telethon Institute of Genetics and Medicine and Institute of Biosciences and Bioresources, CNR, Naples, Italy</p> <p><i>Immunoglobulin light chain amyloidosis modelled in C. elegans</i>  <b>Margherita Romeo</b>, Istituto di Ricerche Farmacologiche Mario Negri IRCCS, Milan, Italy</p> <p><i>G-protein coupled receptors as potential therapeutic targets in movement disorders/epilepsy caused by GNAO1 de novo mutations</i>  <b>Martina Di Rocco</b>, Istituto Superiore di Sanità, Rome, Italy</p>
20:30 – 22:30	<b>DINNER @ Art Relais Palazzo Cappuccini</b>

## Friday 3 March 2023

09:00 – 09:40	<p><b>INVITED LECTURE SPONSORED BY UNION BIOMETRICA</b> <b>Small RNAs in Epigenetic Inheritance</b> GERMANO CECERE Department of Development and Stem Cell Biology, Institut Pasteur, Paris, France <b>Chair:</b> Simone Martinelli (Rome)</p>
09:40 – 11:00	<p><b>SESSION III: MODELLING HUMAN DISEASES AND PRECLINICAL DRUG DISCOVERY (II)</b> <b>Chair:</b> Maria Elena Regonesi (Milan) and Pasquale Scarcia (Bari)</p> <p><i>hrpr-1 rescues SMA-related neurodegeneration by modulating ret-1 splicing</i> <b>Pamela Santonicola</b>, Institute of Biosciences and Bioresources, CNR, Naples, Italy</p> <p><i>Cocoa Polyphenols as Functional Food to counteract the Spinocerebellar Ataxia Type 3 disease</i> <b>Barbara Sciandrone</b>, University of Milano-Bicocca, Milan, Italy</p> <p><i>C. elegans recognizes as toxic tau oligomers</i> <b>Carmina Natale</b>, Istituto di Ricerche Farmacologiche Mario Negri IRCCS, Milan, Italy</p> <p><i>Reverse genetic screen of Parkinson's disease-susceptibility genes identifies novel modulators of alpha-synuclein neurotoxicity in C. elegans</i> <b>Roman Vozdek</b>, Institute for Biomedicine, EURAC Research, Bolzano, Italy</p>
11:00 – 12:00	<p><b>COFFEE BREAK AND POSTER SESSION</b></p>
12:00 – 13:00	<p><b>SESSION IV: NEW MODELS AND TECHNIQUES</b> <b>Chair:</b> Daniela Uccelletti (Rome) and Viola Folli (Rome)</p> <p><i>spaCe: assessing relative biological effectiveness of simulated deep space radiation in altering neural function and survival in C. elegans</i> <b>Giada Onorato</b>, Institute of Biosciences and BioResources, CNR, Naples, and University of Turin, Turin, Italy.</p> <p><i>2-hydroxyisobutyric acid (2-HIBA) modulates ageing and fat deposition in C. elegans</i> <b>Emily Schifano</b>, Sapienza University of Rome, Rome, Italy</p> <p><i>See Elegans: simple-to-use, accurate, and automatic 3D detection of neural activity from densely packed neurons</i> <b>Enrico Lanza</b>, Italian Institute of Technology, Rome, Italy</p>
13:00 – 13:15	<p><b>CLOSING REMARKS</b></p>