Programme

MONDAY, 25th March

08.30  
Bus departure from city centre

09.00  
Course registration
ICGEB Foyer, 'W' Building

09.45  
Welcome Address

10.00  
Course introduction and participants presentation
Glauco Tocchini-Valentini, Rome, Italy
Andrés Muro and Emanuele Buratti, ICGEB
Trieste, Italy

10.45  
Introduction to mouse models – Part 1
Andrés Muro

11.30  
Coffee break

12.00  
Mouse mutant models of cerebellar astrocyte development
Daniela Marazziti, Cell Biology and Neurobiology Institute – CNR, Rome, Italy

12.45  
Mouse models of cardiac aging and disease
Francesco Loffredo, ICGEB Trieste, Italy

13.30  
Working lunch
ICGEB Foyer, 'W' Building

15.00  
Mouse models in immunology studies
Federica Benvenuti, ICGEB Trieste, Italy

15.45  
Cardiac pathophysiology studied in large animals
Fabio Recchia, Scuola Superiore Sant'Anna, Pisa, Italy

16.30  
Coffee break

17.00  
Introduction to mouse models – Part 2
Andrés Muro

17.15  
The mouse rodent model (root vole, Microtus oeconomus Pall.) in the ecotoxicity bioindication
Maria Drahulian, National University of Life and Environmental Sciences of Ukraine

17.30  
Summary and discussion

18.00  
Bus to Hotel
TUESDAY, 26th March

08.30  Bus departure from city centre

09.00  Gene transfer methodologies  Serena Zacchigna, ICGEB Trieste, Italy

09.45  The necessity to test cardiac regenerative therapy in large animal models  Fabio Recchia

10.30  Coffee break - GROUP PHOTO

11.00  Understanding the mechanisms of blood vessel formation and therapeutic implications  Serena Zacchigna

11.45  Humanized Mouse with Human Islet Graft as a Model for Studying Non-coding Mediated regulation of Human Pancreatic β-Cell function and survival  Md Munir Hossain, Bangladesh Agricultural University

12.00  A modified U1snRNA corrects SMN2 exon 7 splicing and improves the neuromuscular phenotype in a Spinal Muscular Atrophy mouse model  Federico Riccardi, ICGEB Trieste, Italy

12.15  Renal expression of aquaporin 1 and 2 in 2-year old male and female rats after treatment with melatonin and resveratrol antioxidants  Dean Karaica, Institute for Medical Research and Occupational Health, Zagreb, Croatia

12.30  Gene targeting strategy to treat liver metabolic diseases using the CRISPR/Cas9 platform  Michela Lisjak, ICGEB Trieste, Italy

12.45  Summary and discussion

13.30  Lunch  Cafeteria, Ground Floor, ’C’ Building

15.00  New targeting approaches in the mouse: zinc fingers, TALENs and CRISPR/Cas9 engineered nucleases  Wolfgang Wurst

15.45  Targeted mutagenesis approaches in the mouse: EUCOMM and KOMP  Wolfgang Wurst, Institute of Developmental Genetics, Munich, Germany

16.30  Coffee break

17.00  Understanding gene functions and disease mechanisms: Phenotyping in the German Mouse Clinic  Helmut Fuchs, Institute of Experimental Genetics, Munich, Germany

17.45  Summary and discussion

18.30  Bus to Hotel

WEDNESDAY, 27th March

08.30  Bus departure from city centre

09.00  AAV-mediated promoterless gene-targeting approaches to efficiently correct liver metabolic diseases  Andrés Muro

09.45  Disease Models and Translation 4: Neuropsychiatric Disease  Wolfgang Wurst
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<th>Time</th>
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<th>Speaker/Institution</th>
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<tr>
<td>10.30</td>
<td>Coffee break</td>
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<tr>
<td>11.00</td>
<td>Mouse phenotyping methods and tools</td>
<td>Helmut Fuchs</td>
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<td>11.45</td>
<td>Spatial navigation, planning and the rat hippocampus</td>
<td>Giovanni Pezzulo, ISTC-CNR, Rome, Italy</td>
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<td>12.30</td>
<td>Potential Role of Brown Algae in Alleviation of Dyslipidaemia in Hyperlipidemia Rat Model</td>
<td>Marwa M. Hosny, Suez Canal University, Ismailia, Egypt</td>
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<td>12.45</td>
<td>Exploring alternative bilirubin clearance pathways as a therapeutic strategy for neonatal hyperbilirubinemia</td>
<td>Olayemi Joseph Olajide, ICGEB Trieste, Italy</td>
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<td>13.00</td>
<td>Summary and discussion</td>
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<td>Lunch</td>
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<td>15.00</td>
<td>Active inference: understanding living organisms and their brains from first principles</td>
<td>Giovanni Pezzulo</td>
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<td>15.45</td>
<td>Development of a mouse model for testing functional products based on duck eggs</td>
<td>Svitlana Kostenko, National University of Life and Environmental Sciences of Ukraine</td>
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<td>16.00</td>
<td>Inclusion body myositis: understanding the molecular mechanisms of its pathology</td>
<td>Urša Šušnjar, ICGEB Trieste, Italy</td>
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<td>16.15</td>
<td>Evaluation of the quality and functionality of the oocyte in a subchronic exposure to di (2-ethylhexyl) phthalate (DEHP) in a murine model</td>
<td>Lyda Yuliana Parra Forero, Center for Research and Advanced Studies of the National Polytechnic Institute, Ciudad de México</td>
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<td>16.30</td>
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<td>17.30</td>
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THURSDAY, 28th March

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<td>09.00</td>
<td>Genetic lineage tracing reveals different mechanisms of vessel formation in response to pro-angiogenic stimuli in the skeletal and cardiac muscle</td>
<td>Nina Volf, ICGEB Trieste, Italy</td>
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<td>09.15</td>
<td>Resveratrol, but not melatonin, upregulates renal expression of sodium-glucose cotransporter 2 (SGLT2) in old male rats</td>
<td>Ivana Vrhovac Madunić, Institute for Medical Research and Occupational Health, Zagreb, Croatia</td>
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<td>09.30</td>
<td>Gene therapy for Crigler-Najjar Syndrome type I: from the bench to the bedside.</td>
<td>Giulia Bortolussi / Muro</td>
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<td>11.15</td>
<td>Summary and discussion Concluding remarks and attendance certificate</td>
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<td>12.00</td>
<td>VISIT to the ICGEB Laboratories</td>
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<tr>
<td>13.30</td>
<td>Lunch</td>
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