



# School of Reproduction and Developmental Sciences

## NEW FRONTIERS IN RESEARCH, DIAGNOSTICS AND THERAPIES

12<sup>th</sup>-13<sup>th</sup> December 2019

Sala Meeting Adriatica, Double Tree by Hilton, Piazza della Repubblica 1, Trieste

12<sup>th</sup> December 2019

### Pharmacogenetics and Pharmacogenomics

Chairs: M. Scarpa, G. Decorti

9:00-9:45: **Pharmacogenetics: the future is now** (D. Fornasari)

9:45-10:30: **Optimizing Targeted Immunotherapy of Acute Myeloid Leukemia** (M. Cheek)

10:30-11:00: *Coffee Break*

### Nanotechnology

Chairs: M. Scarpa, G. Decorti

11:00-11:45: **Carbon Nanotubes as Active Substrates for Nerve Growth** (M. Prato)

11:45-12:30: **Dye Doped Silica Nanoparticles as Luminescent Organized Systems for Nanomedicine** (L. Prodi)

12:30-14:00 *Lunch Break*

### Gene Therapy

Chairs: O. Zuffardi, G. Damante

14:00-15:00: Lecture: **Gene therapy of human inherited diseases with AAV vectors** (A. Auricchio)

### From Diagnosis to Innovative Screening of Genetic Diseases

Chairs: O. Zuffardi, G. Damante

15:00-15:45: **Public health genomics: lessons from rare diseases** (B. Peterlin)

15:45-16:15: *Coffee Break*

16:15-17:00: **Allele-specific silencing as treatment for gene duplication disorders: proof-of-principle in autosomal dominant leukodystrophy** (A. Brusco)

17:00-17:45: **The consequences of embracing NIPT** (B. Bayindir)

Info: [genetica.medica@burlo.trieste.it](mailto:genetica.medica@burlo.trieste.it)

Department of Medicine, Surgery and Health Sciences – Department of Excellence

With the endorsement of:





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### Personalised Medicine

Chairs: G. Stocco, G. Girotto

9:00-10:00: Lecture: **From deep phenotyping to genotyping and clinical translation: the Verona Heart Study experience** (D. Girelli)

### New Frontiers on Big Data Analysis

Chairs: G. Stocco, G. Girotto

10:00-10:45: **Identification of causal mechanisms underlying complex diseases** (S. Sanna)

10:45-11:15: *Coffee Break*

11:15-12:00: **Rare disease phenotype-driven variant prioritization: using Exomiser at scale in the UK 100,000 Genomes Project** (V. Cipriani)

12:00-12:45: **Artificial intelligence and life sciences: challenges and cutting-edge applications in computational biology** (M. Chierici)

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