



# III Monalisa Quidproquo Midsummer Festival

PROGRAM AND BOOK OF ABSTRACTS



8<sup>th</sup> - 11<sup>th</sup> July 2014

## **FINAL PROGRAMME**

### **CTCs Tuesday July 8, 2014 @CRO Aviano**

14.00 ALFONSO COLOMBATTI: **“CTCs @CRO”**

14.30 WILHELM HUCK (Nijmegen): **“Microfluidics for the study of single cells”**

15:10 FABIO DEL BEN/ MATTEO TURETTA: **“A metabolism-based approach to detect circulating tumor cells”**

15.40 LEONARDO VENTURELLI: **“Using magnetic nano-particles for mesenchymal cells recognition and isolation”**

16.00 coffee break

16.30 ELISABETTA ROSSI: **“Measuring CTCs using the Veridex CellSearch apparatus”**

### **STEM CELLS Wednesday July 9, 2014 - Aula Interdipartimentale, Piazzale Kolbe 4**

12:10 WILHELM HUCK: **“Cells and gels: mechanical forces influence cell behavior”**

13.00 lunch break

14:00 DANIELA CESSALI: **“My take on personalized medicine”**

14:30 GIUSEPPE GIANFRANCESCHI: **“Human Cardiac Stem Cells obtained from failing hearts are characterized by a pharmacologically reversible dysfunction in the Autophagy-Lysosome Pathway”**

14:50 DAMIANO MANGONI: **“Stem cells isolated from the human glioblastoma microenvironment enhance the aggressiveness of glioma-initiating stem cells through the release of exosomes”**

15:10 ELISA MAZZEGA: **“Mechanosensing and human cardiac stem cells”**

15:30 ROSSANA DOMENIS: **“Different outcome on T cell effector function between glioma-associated stem cells- and glioma-stem cells-derived exosomes”**

16:00 CLAUDIO BRANCOLINI: **“I, Claudius, and cancer”**

**BIOSENSORS Thursday July 10, 2014 - Aula Interdipartimentale, Piazzale Kolbe 4**

14.00 MATTEO CASTRONOVO: "Functional properties of DNA-RNA nanostructures on surfaces"

14.40 ALEX STOPAR: "Functional properties of DNA nanostructures in solution"

15.00 LUCIA CORAL: "Implementing a high throughput sensor with DNA origami"

15.20 LUIGI XODO: "Role of guanine repeats in transcription regulation"

15:50-16:10 coffee break

16.20 MARYSE NKOVA "Novel approach for detection of miRNAs target based in AFM Nanografting arrays"

17:00 DANIELE BORIN: "Superhydrophobic micromechanical pillars as a tool for highly parallel detection and direct measurements in liquid"

17.30 MARTINA TARDIVO: "Microelectromechanical Sensor for Circulating Biomarkers detection: Pillars functionalization with Ab anti-PSMA"

**THEORY Friday July 11, 2014 – Aula Interdipartimentale, Piazzale Kolbe 4**

14:00 ALEX RODRIGUEZ: "Clustering by fast search-and-find of density peaks"

14:40 PILAR COSSIO: "Atomic Force Spectroscopy from brittle to ductile"

15:20 FEDERICO FOGOLARI: "Distance-based conformational and configurational entropy of proteins from molecular dynamics simulations"

16:00-16:30 coffee break

16:30 ALESSANDRA CORAZZA: "Nuclear Magnetic Resonance as a tool for the assessment of protein-ligand interaction."

17:00 SARA FORTUNA: "Coupled binders for the development of novel nanodevices for protein recognition"

17:30 MIGUEL SOLER: **“Computational design of peptides as novel binders for beta-2-microglobulin recognition”**

18:00 CEDRIX DONGMO: **“Comparison of Structural Stability and Identification of possible Binding Sites of Tranthyretin-based biomarker systems”**

19:30 DINNER AT RAMANDOLO

