





**Day2** **Tuesday, 22 September 2020**

**10:00 – 12:05 Session 2**

**Gene Regulation and Computational Biology**

**Chairs:** Andrea Riccio, Flavia Cerrato, Nicoletta Potenza, Aniello Russo

**Varsha Poondi Krishnan 11:25 – 11:45**

Integrated analysis of epigenomic and transcriptomic signature in patient derived iPSCs carrying DNMT3B mutations and their isogenic lines with restored DNMT3B following CRISPR/Cas9  
 Tutor: Dr. Maria R Matarazzo

**Valeria Policastro 10:20 – 10:30**

New statistical methodologies for Omic Network Integration  
 Tutor: Dott.ssa Annamaria Carissimo

**Ichcha Manipur 10:30 – 10:50**

Network similarity measures for tumor metabolic networks  
 Tutor: Dr. Mario Rosario Guarracino

**Francesco Cecere 10:50 – 11:00**

Bioinformatic analysis of RNA-seq data to identify molecular pathways involved in two imprinting disorders: Beckwith-Wiedemann and Silver-Russell syndromes  
 Tutor: Prof. Andrea Riccio – Prof. Flavia Cerrato

**Carlo Giaccari 11:00 – 11:15**

The role of Padi6 in genomic imprinting. A new mutant mouse model  
 Tutor: Prof. Andrea Riccio

**Karla Ruiz 11:15 – 11:25**

Identification of the gene networks that modulate ABCA4 expression  
 Tutor: Prof. Sandro Banfi

**Ankit Verma 10:00 – 10:20**

Investigation on regulatory components and differentially methylated regions associated with genomic imprinting and imprinting disorders  
 Tutor: Prof. Andrea Riccio

**Yi-Shin Lee 11:45 – 12:05**

Reactivation of the dormant wild-type allele of MECP2 as a therapy for Rett syndrome: screening of epigenetic compounds  
 Tutor: Dr. Marcella Vacca; Dr. Laura Casalino

**12:05 – 17:45 Session 3**

**Structure and Functions of Biomolecules**

**Chairs:** Carla Isernia, Roberto Fattorusso, Menotti Ruvo, Angela Chambery, Gaetano Malgieri, Luigi Vitagliano, Antonio Fiorentino, Paolo Vincenzo Pedone, Antimo Di Maro, Rita Berisio, Brigida D'Abrosca

**Nicola Landi 12:05 – 12:25**

Determination of primary structure, gene organization and antifungal activity of Ageritin, the first ribotoxin-like protein from edible mushrooms  
 Tutor: Prof. Antimo Di Maro

**Mariangela Valletta 12:25 – 12:40**

Secretome analysis reveals a role of pentraxin-3 in modulating the angiogenic activity of high mobility group box 1 in breast cancer  
 Tutor: Prof. Angela Chambery

**Andrea Corvino 12:40 – 13:00**

Structural characterization of multi-domain proteins involved in neuronal diseases  
 Tutor: Prof. Roberto Fattorusso

**13:00 – 14:00 Lunch Break**

**Rinaldo Grazioso 14:00 – 14:15**

Zinc finger and the metal: xenobiotic ion as structural and folding cofactor in the prokaryotic zinc finger Ros87  
 Tutor: Prof. Carla Isernia

**Maria Della Valle 14:15 – 14:25**

Characterization of micro- and nano-plastic interactions with biological systems through NMR methodologies  
 Tutor: Prof. Roberto Fattorusso

**Marica Sassano 14:25 – 14:40**

PTFE nanoplastics impact on Bifidobacterium growth and biofilm formation  
 Tutor: Prof. Gaetano Malgieri

**Manoj Madheswaran 14:40 – 14:50**

Structural Analysis of Metal ion binding Human Prion Proteins using NMR Methodologies  
 Tutor: Prof. Roberto Fattorusso

**Giovanna Valentino 14:50 – 15:00**

Specialized metabolites as potential lead compounds for anticancer drug discovery  
 Tutor: Prof. Antonio Fiorentino

**Odeta Celaj 15:00 – 15:20**

Secondary metabolites from Mediterranean plants for nutraceutical and pharmaceutical applications  
 Tutor: Prof. Antonio Fiorentino

**Haritha Asha 15:20 – 15:35**

Exciton and Charge Separation : Computational Models  
 Tutor: Dr. Roberto Improta

**Francesca Della Sala 15:35 – 15:55**

New strategy based on polymeric biomaterials combined to stem cells to promote pulmonary tissue regeneration  
 Tutor: Prof. Assunta Borzacchiello

**Alessandra Monti 15:55 – 16:15**

Molecular characterization of the interaction of PREP1 and MEIS1 with PBX1  
 Tutor: Dr. Nunzianna Doti

**Mario Di Gennaro 16:15 – 16:25**

Preparation of devices from natural substances for controlled release  
 Tutor: Prof. Assunta Borzacchiello

**Diana Santos 16:25 - 35**

Biochemical and biophysical studies of the DNA helicases DDX11 and FANCF involved in G-quadruplex nucleic acid metabolism  
 Tutor: Dr. Francesca M. Pisani

**Jwala Priyadarsini Sivaccumar 16:35 – 16:55**

Targeting Nodal and Cripto-1 onco-fetal proteins using recombinant antibody fragments decorated Nanoparticles  
 Tutor: Prof. Menotti Ruvo and Prof. Luigi Vitagliano

**Veronica Russo 16:55 – 17:05**

Different Impacts of MucR Binding to the babR and virB Promoters on Gene Expression in Brucella abortus 2308  
 Tutor: Prof. Paolo Vincenzo Pedone

**Lucia Verrillo 17:05 – 17:25**

Towards the identification of new therapeutical compounds for a malignant epileptic caused by mutations in Aristaless-related homeobox gene  
 Tutor: Dr. Maria Giuseppina Miano

**Miguel Cardoso de Azevedo Moreira 17:25 – 17:45**

Structure and function of key macromolecules involved in severe humane pathogeneses  
 Tutors: Dr. Rita Berisio – Prof. Menotti Ruvo

