PhDays

September 26-27.2016

PhD Program in Biomolecular Sciences

SECONDA UNIVERSITÀ DEGLI STUDI DI NAPOLI
DIPARTIMENTO DI SCIENZE E TECNOLOGIE AMBIENTALI BIOLOGICHE E FARMACEUTICHE

Consiglio Nazionale delle Ricerche

Monday, September 26 – Aula Magna

10:00 – 14:55 Session 1.

Structure and Function of Biomolecules

Chairman: A. Lettieri, D. Barone, F. Russo, M. Cerreta

Sara Ragucci 10:00 – 10:10
Isolation of novel bioactive proteins from the edible mushroom *Agrocybe aegerita*
Tutor: Antimo Di Maro

Valeria Sivo 10:10 – 10:20
Metal ion replacement in prokaryotic zinc-finger domain by the xenobiotic Pb(II)
Tutor: Carla Isernia

Camilla Rega 10:20 – 10:35
Using mass spectrometry for protein structural and functional studies: studying the Gadd45β/MKK7 complex, a new target in Multiple Myeloma.
Tutor: Angela Chambery

Cristina Di Donato 10:35 – 10:50
Alpha- and beta-cyclodextrin inclusion complexes with 5-fluorouracil:structural characterization and cytotoxic activity evolution.
Tutor: Rosa Iacovino

Emanuela Iaccarino 10:50 – 11:05
Novel highly constrained peptide ligands for modulating the activity of Cripto-1 and Activin-like receptors.
Tutor: Menotti Ruvo

Roberto Sirica 11:05 – 11:20
De novo variant calling from RNA-seq in non-model species: a promise land
Tutor: Vincenza Colonna

Tommaso Nuzzo 11:20 – 11:35
Altered free D-aspartate, but not free D-serine, levels in the post-mortem brain of patients with schizophrenia
Tutor: Alessandro Usiello

Vittoria Graziani 11:35 – 11:50
NMR characterization and antiproliferative activity of secondary metabolites from Fabaceae species
Tutor: Antonio Fiorentino

Annamaria Lettieri 11:50 – 12:10
Neuro-nutraceutical potential of Thyme and Sage Phenol-enriched Extracts
Tutor: Pietro Monaco

Daniela Barone 12:10 -12:30
Structural and dynamic properties of the Hepatitis C Virus proteins: E1 and NS5A proteins
Tutor: Luigi Vitagliano

Federica Calì 12:30 – 12:50
Unveiling the cellular role of DDX11, a Fe-S cluster DNA helicase, involved in genome maintenance
Tutor: Francesca Maria Pisani

12 :50 – 14:00 Lunch Break

14:00 – 14:40

Mariangela Cerreta 14:00 –14:20
The human Paraoxonase 2: biochemical and functional characterization
Tutor: Giuseppe Manco

Martina Buonanno 14:20 – 14:40
Insights into the structural and functional features of the tumor associated protein hCA IX
Tutor: Simona Maria Monti

14:40 – 17:05 Session 2.

Human genetics

Chairman: A. Padula, F. Napolitano, M. Germoglio, G. Di Fruscio

Federica Scotto di Carlo 14:40 – 14:50
Disclosing the molecular mechanism underlying Early Onset Paget's Disease of bone.
Tutor: Fernando Gianfrancesco

Gabriella Reggina 14:50 – 15:00
Alzheimer's Disease and allelic variants in late onset forms: focusing on CD33 and TREM2.
Tutor: Emilia Vitale

Sabrina Napoletano 15:00 – 15:10
Molecular mechanisms of pathogenic mutations in Frontotemporal dementia
Tutor: Emilia Vitale

Federica Maria Valente 15:10 – 15:25
Identification and characterization of molecular defects causing the Beckwith-Wiedemann syndrome
Tutor: Flavia Cerrato

Agnese Padula 15:25 – 15:45
Finding new connections in the transcriptional regulation of Lysine-specific demethylase 5C (KDM5C), a disease gene involved in Neurodevelopmental disorders (NDDs)
Tutor: Maria Giuseppina Miano

Filomena Napolitano 15:45 – 16:05
A novel extracellular matrix multisystem syndrome due to a dominant mutation in LAMA5 gene: implication for ECM functioning and remodeling and its interplay with other connective proteins
Tutor: Teresa Esposito

Giuseppina Di Fruscio 16:05 – 16:25
Targeted Next Generation Sequencing strategies for genetic heterogeneous disorders
Tutor: Vincenzo Nigro

Giuseppina Divisato 16:25 – 16:45
Molecular, biochemical and histological characterization of Giant Cell Tumor arising on Paget's disease of Bone
Tutor: Fernando Gianfrancesco

Marcello Germoglio 16:45 – 17:05
Genetic interactions among Fanconi Anaemia repair genes
Tutor : Adele Adamo

Tuesday, September 27 – Aula Magna

9:30 – 12:00 Session 3.

Molecular Cell Biology

hairman: M. Buonanno, L.Schembri, D. La Prathyush, .Filigrana

Emilia Pascale 9:30 – 9:40
The Ultraconserved Long Noncoding RNA, T-UCstem1, is required to preserve transcriptional identity and maintain Embryonic Stem Cell self-renewal
Tutor: Annalisa Fico

Francescopaolo Iavarone 9:40 – 9:50
Unraveling the inflammatory cells contribution of Cripto to skeletal muscle regeneration
Tutor: Gabriella Minchiotti

Maria Mangini 9:50 – 10:00
Secretory phospholipase A_2 role in osteoclastogenesis
Tutor: Stefania Mariggiò

Marta Panella 10:00 – 10:10
Antiproliferative activity of miR-125a toward human hepatocellular carcinoma cells
Tutor: Aniello Russo

Rita Polito 10:10 – 10:20
Evaluation of adiponectin profile in Common Variable Immunodeficiency patients
Tutor: Aurora Daniele

Simona Cataldi 10:20 – 10:30
Regulation of PPARγ signaling through alternative splicing and dominant negative isoforms
Tutor: Alfredo Ciccodicola

Alessandra Varavallo 10:30 -10:45
Control Systems of the secretory pathway
Tutor:Alberto Luini

Sara Mancinelli 10:45 – 11:00
Insights into neuroectoderm and mesoderm cell lineage segregation during early vertebrate development from *Cripto* gene
Tutor: Giovanna Liguori

Angela Filograna 11:00 – 11:20
CtBP1-S/BARS regulates Lipid Droplet biogenesis
Tutor: Daniela Corda

Laura Schembri 11:20 – 11:40
Potential role of the mono-adp-ribosyltransferase parp12 in the regulation of intracellular membrane traffic
Tutor: Daniela Corda

La Prathyush Deepth Roy Pothukuchi 11:40 – 12:00
Organization of Golgi glycosylation reactions by matrix proteins
Tutor: Seetharaman Parashuraman

12:00 – 13:00 **Faculty meeting**

13:00 – 14:00 **Lunch Break**

14:00 – 15:30 Session 4.

Gene regulation

Chairman: A.. Oneglia, M. M. Marino, F. Perrone, F. Calì

Daniela Esposito 14:00 –14:10
Functional studies of a novel long non-coding RNA (MET-AS) in papillary thyroid carcinoma.
Tutor: Valerio Costa

Daniela Punzo 14:10 – 14:20
Age-Related Changes in D-Aspartate Oxidase Promoter Methylation Control Extracellular D-Aspartate Levels and Prevent Precocious Cell Death during Brain Aging
Tutor: Alessandro Usiello

Kumar Parijat Tripathi 14:20 – 14:30
Development of novel approaches and algorithms for the integration and analysis of high throughput transcriptomics data.
Tutor: Mario Rosario Guarracino

Anna Sorrentino 14:30 – 14:45
Dominant Negative Isoforms of PPARγ lacking the LBD: mechanism of action
Tutor: Valerio Costa

Marina Piccirillo 14:45 – 15:00
Reconstructing a Genetic Network from Gene Perturbations in Secretory Pathway of Cancer Cell Lines
Tutor: Mario Rosario Guarracino

Andrea Oneglia 15:00 – 15:20
Molecular mechanisms for maintenance of genomic imprinting in mouse embryonic stem cells
Tutor: Andrea Riccio

Filomena Perrone 15:20 – 15:40
Characterization of a *Mycobacterium smegmatis* TetR-like protein
Tutor: Lidia Muscariello

Maria Michela Marino 15:40 – 16:00
Study of a CTCF mutant able to bind methylated DNA
Tutor: Paolo Vincenzo Pedone

16:00 – 17:40 Session 5.

Cancer biology and immunology

Chairman: F. Mantile, S. Vitale, G. Divisato

Deborah Cipria 16:00 – 16:10
Optimization of adoptive T cell therapy by promoting the correct pairing of T cell receptor chains
Tutor: Piergiuseppe De berardinis

Valeria Gaudieri 16:10 – 16:20
Assessment of Left Ventricular Remodeling by Gated SPECT Myocardial Perfusion Imaging in Diabetic Patients: a Propensity Matched Cohort Analysis
Tutor: Wanda Acampa

Olga Pastorino 16:20 – 16:30
Glioblastoma: The role of REST and molecular compounds targeting tumor cells
Tutor: Luca Colucci D'Amato

Sara Terreri 16:30 – 16:45
Expression and functional characterization of ultraconserved non-coding regions 339+ and 8+ in bladder cancer.
Tutor: Amelia Cimmino

Stefania Belli 16:45 – 17:00
Analysing tumor-stroma crosstalk through the application of a novel 3D Organotypic invasion assay
Tutor: Maria Patrizia Stoppelli

Francesca Mantile 17:00 – 17:20
How different adjuvants and immunization protocols affect the immune response induced by Alzheimer's Disease vaccine (1-11)E2.
Tutor: Antonella Prisco

Serena Vitale 17:20 – 17:40
Differential intestinal cell phenotype and cytokine profiles in overt and potential celiac disease
Tutor: Carmen Gianfrani