

PhDays 2017

PhD Program in Biomolecular Sciences **CNR Conference Room**

Tuesday, 3 October 2017 Day1

9.30 Andrea Riccio - Opening of the PhDays 2017

10:00 - 12:50 Session 1

Molecular Cell Biology

Chairs: Gabriella Chieffi, Alessandro Usiello, Antonia Lanni, Antonino Colanzi, Pieter De lange, Aurora Daniele, Maria M. Di Fiore, Aniello Russo,

Manpreet Patheja 10:00 – 10:10

Mechanism of Interaction of Glycerophosphoinositol and Shp-1

Tutor: Alessia Varone

Federica Liccardo 10:10 - 10:20

Novel fluorescent probes for precision labeling in super-resolution microscopy

Tutor: Alberto Luini

Jaipreet Singh Loomba 10:20 - 10:30

Unravelling the molecular details of AUTS2 regulation by Gb3

Tutor: Giovanni D'Angelo

Giuseppe delli Paoli 10:30 – 10:40

Effects of T3 and 3,5 T2 on insulin sensitivity and related metabolic changes in

muscle cells treated with fatty acids

Tutor: Pieter de Lange

Narender Kumar 10:40 - 10:50

The IL8-CXCR1/CXCR2 circuit in Thyroid Cancer

Tutor: Rosa Marina Melillo

Stefania Serpico 10:50 – 11:00

The Lysophosphatidic Acid Acyltransferase (LPAATs) Enzymes

and their Role in Membrane Transport Alterations in Cancer

Tutor: Carmen Valente

Alba Clara Fernández-Rilo 11:00 – 11:10

Obesity-Driven Neurodegenerative diseases: New insights for new molecular

interplayers and therapeutic targets

Tutor: Luigia Cristino

Concetta Iovine 11:10 – 11:20

Synergic effect of curcumin and ellagic acid on genomic stability of

human amniotic cells Tutor: Lucia Rocco

Maria Mangini 11:20 – 11:35

Secretory phospholipase A₂ role in osteoclastogenesis

Tutor: Stefania Mariggiò

Francesco Paolo Iavarone 11:35 – 11:50

Unraveling the inflammatory cells contribution of Cripto to skeletal muscle

regeneration

Tutor: Gabriella Minchiotti

Emilia Pascale 11:50-12:05

The Ultraconserved Long Noncoding RNA, T- UCstem1, is required to preserve

transcriptional identity and maintain Embryonic Stem Cell self-renewal

Tutor: Annalisa Fico

Marta Panella 12:05-12:20

Isolation and functional characterization of human miR-125a promoter

Tutor: Aniello Russo

Rita Polito 12:20-12:35

Adiponectin expression is specifically related to Common variable

immunodeficiency Tutor: Aurora Daniele

Simona Cataldi 12:35-12:50

Regulation of PPARy signaling through alternative splicing

and dominant negative isoforms

Tutor: Alfredo Ciccodicola

12:50-14:00 Lunch Break

Liliana Felicia Iannucci 14:00-14:20

3,5-diiodothyronine (T2) targets different pathways to induce white adipose tissue

browning

Tutor: Antonia Lanni

Sara Mancinelli 14:20-14:40

Insight from Cripto gene into neuroectoderm and mesoderm cell lineage segregation

Tutor: Giovanna L.Liguori

Prathyush Roy 14:40 - 15:00

Functional organization of matrix proteins of the Golgi - their contribution to the regulation of glycosylation

LII e soenis

Tutor:Seetharaman Parashuraman

15:00 – 17:30 **Session 2**

Gene Regulation and Computational Biology

Chairs: Vincenza Colonna, Aniello Russo, Nicoletta Potenza, Andrea Riccio, Luca Colucci

Amarinder Singh Thind 15:00 – 15:10

Research and development of novel algorithms, methods and software tools for the integration and analysis of data produced by high throughput biological experiments Tutor: Mario Rosario Guarracino

Basilia Acurzio 15:10 – 15:20

Molecular mechanisms for maintenance of genomic imprinting in mouse embryonic stem cells

Tutor: Andrea Riccio

Monika Krzak 15:20-15:30

Statistical analysis of high dimensional omic data

Tutor: Claudia Angelini

Salvatore Fioriniello 15:30-15:40

Transcriptional and epigenetic deregulation of glycosphingolipid metabolism in Rett syndrome models

Tutor: Floriana Della Ragione

Kumar Parijat Tripathi 15:40 – 15:55

Development of novel approaches and pipelines for the integration and analysis of

high throughput transcriptomics data

Tutor: Mario Rosario Guarracino

Daniela Punzo 15:55-16:10

Changes in the methylation state of DDO, DAO, DAOA and SR genes as a putative

mechanism associated to their expression levels in mammalian brains

Tutor: Alessandro Usiello

Alessandra Varavallo 16:10-16:30

SecreTool: SECREtory Signaling Across Secretory Pathway TOOL

Tutor: Alberto Luini

Roberto Sirica 16:30-16:50

Optimization of variant calling in problematic cases and its application to solve

biological questions

Tutor: Vincenza Colonna

Anna Sorrentino 16:50-17:10

PRDM molecular variants PR-plus and PR-minus: role in physiological differentiation and neoplasia

Tutor:Alfredo Ciccodicola

Marina Piccirillo 17:10-17:30

Inferring cross-talk among genes within the signaling pathways in intra-cellular protein transport: an integrated approach

Tutor: Mario Rosario Guarracino



PhD Days 2017

PhD Programme in Molecular Life Science

CNR Conference Room

14:30 – 15:30 Session 4

Wednesday, 4 October 2017 Day2

10:00 - 13:00 Session 3

Structure and Functions of Biomolecules

Chairs: Carla Isernia, Roberto Fattorusso, Anna Messere, Rita Berisio, Menotti Ruvo, Angela Chambery, Antimo Di Maro, Gaetano Malgieri, Luigi Vitagliano

Joëlle Ayoub 10:00 – 10:10

Structural and biochemical insights into p150 subunit of Chromatin Assembly Factor 1(CAF-1): a new tumor associated protein Tutor: Giuseppina De Simone

Laura Capolupo 10:10 - 10:20

Imaging Mass Spectrometry of Lipids: from tissues to cells Tutor: Giovanni D'Angelo

Daniela Caruso 10:20 - 10:30

Self-assembling proteins: GADD45 forms toxic amyloid-like aggregates under physiological conditions

Tutor: Menotti Ruvo and Luigi Vitagliano

Fanny Defranoux 10:30 - 10:40

Using zebrafish to assess the impact of bioactive metabolites from marine invasive species

Tutor: Ernesto Mollo

Giuseppina Crescente 10:40 – 10:50

LC-MSn-based polyphenol profiling of extracts from food by-products with nutraceutical and cosmeceutical value

Tutor: Severina Pacifico

Giovanni Mastroianni 10:50 - 11:00

Untargeted Metabolomics evaluation of nutraceuticals using NMR as main analytical platform

Tutor: Antonio Fiorentino

Michela Napolitano 11:00-11:10

Mechanisms of BARS-mediated mitotic Golgi fragmentation

Tutor: Carmen Valente and Anna Chiara De Luca

Sara Ragucci 11:10 - 11:25

Biological activities of the ribotoxin Ageritin from Agrocybe aegerita

(V. Brig.) Singer

Tutor: Antimo Di Maro

Valeria Sivo 11:25 - 11:40

Metal ion replacement by Pb(II), Ni(II) and Hg(II) in the prokaryotic zinc-finger

Tutor: Carla Isernia

Vittoria Graziani 11:40 - 12:00

NMR characterization and antiproliferative activity of secondary metabolites from Fabaceae species

Tutor: Antonio Fiorentino

Emanuela Iaccarino 12:00 - 12:20

Novel highly constrained peptide ligands for modulating the activity of Cripto-1

and Activin-like receptors

Tutor: Menotti Ruvo

Tommaso Nuzzo 12:20- 12:40

Brain D-amino acids metabolism in neurological disorders

Tutor: Alessandro Usiello

Camilla Rega 12:40 -13:00

Advanced mass spectrometry-based proteomics strategies for probing protein complexes and interaction networks

Tutor: Angela Chambery

13:00 - 14:30 Lunch Break

Human Genetics

Chairs: Vincenzo Nigro, Giulio Piluso, Sandro Banfi

Antonella Rendina 14:30-14:40

Alzheimer's disease (AD) and Frontotemporal dementia (FTD): investigating the overlap of genetic mutations focusing on CD33 and TREM2 Tutor: Emilia Vitale

LIIE - soens

Federica Scotto di Carlo 14:40-14:55

Dissecting the molecular mechanism underlying Paget's Disease of Bone complicated by Osteosarcoma Tutor:Fernando Gianfrancesco

Sabrina Napoletano 14:55-15:10

CRIPR-Cas9 genome editing to unravel the role of PGRN in neuronal cells Tutor: Emilia Vitale

Federica Maria Valente 15:10-15:30

Identification and characterization of molecular defects in congenital growthrelated imprinting disorders

Tutor: Flavia Cerrato

15:30 - 17:40 Session 5

Cancer biology, Immunology, Microbiology, Drug design

Chairs: Michele Grieco, Paolo V. Pedone, Sandro Cosconati, Fernando Gianfrancesco, Piergiuseppe De Berardinis, Giovanna Del Pozzo, Emilia Vitale, Alfonso Baldi, Diana Boraschi

Michele Minopoli 15:30 -15:40

Retro-inverso Urokinase Receptor Antagonists for the Treatment of tumor metastasis

Tutor: Maria Vincenza Carriero

Ali Mokhtar Mahmoud 15:40 – 15:50

Role of Neuroendocrine Transdifferentiation in Prostate Cancer Development and Drug Resistance

Tutor: Alessia Ligresti

Giorgio Amendola 15:50 – 16:00

Structure-Based Virtual Screening for the search of novel SMO antagonists: a ligand repurposing approach

Tutor: Sandro Cosconati

Ludovica Liguori 16:00 – 16:10

Pharmacological chaperones to cure genetic diseases

Tutor: Giuseppina Andreotti

Billy Samuel Hill 16:10 - 16:20

Inhibition of bone marrow-derived mesenchymal stem cells

homing towards triple-negative breast cancer microenvironment using an anti- $PDGFR\beta\,aptamer$

Tutor: Antonella Zannetti

Barbara De Siena 16:20 – 16:30

Role of a mycobacterial TetR regulator in stress response

Tutor: Lidia Muscariello

Deborah Cipria 16:30 - 16:45

Optimization of adoptive T cell therapy by promoting the correct pairing of T cell receptor chains

Tutor: Piergiuseppe De Berardinis

Daniela Esposito 16:45 – 17:00

MET-AS: a novel long non-coding RNA that regulates MET in papillary thyroid carcinoma

Tutor: Valerio Costa

Stefania Belli 17:00 - 17:20

Modulation of tumor microenvironment: new decapeptides inhibiting human fibroblasts pro-tumoral activity

Tutor: Maria Patrizia Stoppelli

Sara Terreri 17:20 – 17:40

Expression and Functional Characterization of Ultraconserved Non-Coding Region 8+ in Bladder Cancer

Tutor: Amelia Cimmino