

**Doctorate Program in Molecular Medicine and Medical Biotechnologies- 37° cycle**  
**Final Examination**  
**April 16<sup>th</sup>**  
**Aula Magna (Ed. 21) - Scuola di Medicina**

**Examination Committee:**

|                              |   |
|------------------------------|---|
| Prof. Roberto Bellelli       | Queen Mary University of London                   |
| Prof.ssa Daniela Terracciano | Università degli Studi Federico II di Napoli      |
| Prof. Francesco Trapasso     | Università degli Studi Magna Graecia di Catanzaro |

***Welcome (8:20)***

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| 8:30-8:45   | <b>Margherita Auriemma</b> - The two-faced role of Syndesmos: riboregulation of DNA. Supervisor: D. S. Matassa  |
| 8:45-8:55   | Discussion  |
| 8:55-9:10   | <b>Federica Borriello</b> - Lysophosphatidic acid receptor 4 (LPAR4) -dependent signaling is involved in cell phenotype remodelling during direct cardiac reprogramming. Supervisor: F. Passaro |
| 9:10-9:20   | Discussion  |
| 9:20-9:35   | <b>Michela Buonaiuto</b> - Targeted inhibition of the lysine methyltransferase SETD8 decreases tumor growth and impairs the autophagic flux in Glioblastoma. Supervisor: L. Chiarotti           |
| 9:35-9:45   | Discussion  |
| 9:45-10:00  | <b>Emanuela Cascone</b> - Hepatic organoids: advancing Wilson's disease research. Supervisor: S. Parisi   |
| 10:00-10:10 | Discussion  |
| 10:10-10:25 | <b>Elena Cimmino</b> - Modelling the mechanics underlying cell morphology of moving cultured cells. Supervisor: G. Paoletta   |
| 10:25-10:35 | Discussion  |

***Break (10:35-11:00)***

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| 11:00-11:15 | <b>Ludovica Coluccino</b> – IL-12-expressing oncolytic adenovirus armed with tumor antigens induces a robust antitumor response in melanoma and colorectal cancer preclinical models. Supervisor: L. Pastore |
| 11:15-11:25 | Discussion   |
| 11:25-11:40 | <b>Arianna De Chiara</b> - Uncovering Genetic Adjuvants to Maximize mRNA Vaccines. Supervisor: A. Nicosia  |
| 11:40-11:50 | Discussion   |

11:50-12:05 **Ilaria Leone** - Proteomic and miRNA Profiling of Lung Cancer-Derived EVs: Identifying Novel Biomarkers for Drug Resistance to RTK Inhibitors. Supervisor: G. Condorelli  
 12:05-12:15 Discussion

12:15-12:30 **Lorenzo Manna** - Generation and characterization of novel anti-tumor immunomodulatory bi-specific tribodies and novel human mAbs for other therapeutic approaches. Supervisor: C. De Lorenzo  
 12:30-12:40 Discussion

12:40-12:55 **Rufina Maturi** - Unraveling Khl14 role in the thyroid: linking differentiation, EMT and senescence. Supervisor: G. De Vita  
 12:55-13:05 Discussion

***Break (13:05-14:00)***

14:00-14:15 **Annalaura Montella** - Morphological biomarkers for early diagnosis in cancer. Supervisor: A. Iolascon  
 14:15 -14:25 Discussion

14:25-14:40 **Antonella Nostro** - Dissecting the molecular genetics and pathogenesis of dyserythropoiesis in Hereditary Anemias. Supervisor: R. Russo  
 14:40-14:50 Discussion

14:50-15:05 **Martina Paladino** - Direct neuronal reprogramming: new emerging delivery technologies. Supervisor: M. Caiazzo  
 15:05-15:15 Discussion

15:15-15:30 **Monica Pastorino** - New insights on the hypothalamic orexigenic neuropeptides: the dysfunctional role of the pesticide chlorpyrifos. Supervisor: M. De Felice  
 15:30-15:40 Discussion

15:40-15:55 **Gianluca Petrillo** - Selection of aptamers targeting ALK+ NSCLC exosomes: innovative tools for cancer diagnosis and therapy. Supervisor: G. Condorelli  
 15:55-16:05 Discussion

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| 16:05-16:20 | <b>Francesca Pirozzi</b> - Multi-omics insights into long-range and long-term metabolic alterations in glycogen storage disease type IA reveal significant alterations in lipid metabolism and an increasing risk of developing insulin resistance over time. Supervisor: M. Ruoppolo |
| 16:20-16:30 | Discussion  |
| 16:30-16:45 | <b>Carolina Punziano</b> - Induction of Ferroptosis/Apoptosis by Dimethyl Fumarate in Cervical Cancer cell models through Modulation of Redox-related Pathways. Supervisor: R. Faraonio   |
| 16:45-16:55 | Discussion  |
| 16:55-17:10 | <b>Iolanda Veneruso</b> - RNA-Seq Analysis of Human Atherosclerotic Plaques and Their Adjacent Regions: a Focus on lncRNAs.. Supervisor: G. Fortunato   |
| 17:10-17:20 | Discussion  |

***Evaluation & Announcement of examination results (17:45)***