



Doctorate in Molecular Medicine

PhD Day

Pisa, February 10, 2025

09:00-18:00

Aula Magna, Polo Fibonacci

University of Pisa

Via Filippo Buonarroti, 3 - Pisa

IMPORTANT NOTES FOR THE DAY

1. **Third-year PhD candidates will present their work through an oral presentation (in English). Second-year PhD candidates will showcase their work via a poster presentation. First-year PhD candidates will introduce themselves to the Board and to their colleagues through a flash talk, outlining the topics they will develop in their projects**
2. **Oral presentations by PhD students of the XXXVIII cycle should not exceed 10 minutes to allow at least 3 minutes for discussion. Speakers are requested to upload their presentation before the start of the first oral session (09:15-09:45)**
3. **Since the posters will be displayed on the windows of the auditorium, each PhD student of the XXXIX is free to choose their preferred dimensions. However, a vertical orientation is recommended, with a size of 90 cm in height and 60-70 cm in width.**
4. **PhD students of the XL cycle, in their dedicated session, will have max 3 minutes each to briefly present their research projects. They may use a maximum of 2 slides.**
5. **PhD students of the XXXIX and XL cycle will evaluate the oral presentations of their peers, assigning three different scores for "clarity of presentation", "aesthetic quality of the presentation," and "answers to questions".**
6. **PhD students of the XXXVIII and XL cycle will evaluate the posters of their peers, assigning two different scores for "clarity of presentation" and "aesthetic quality" of the poster.**
7. **The evaluation form (to be printed and brought on February 10) will be sent to the evaluators by February 8.**
8. **The rankings resulting from the assessments in points 5 and 6 will determine the two best oral presentations and the two best posters of the PhD day. Two additional awards will be granted by the Board for active participation in the discussion. Winners will be announced at the end of the day.**
9. **PhD students assigned the role of Chair, as per the program, are responsible for introducing the speakers in their relevant session and ensuring that the timing of each oral presentation and its discussion is adhered to.**

Schedule of the day

09:00-09:45 Arrival of participants (upload of PPTs for oral presentations)

09:45-09:55 Welcome and introduction to the day

Prof. Vincenzo Sorrentino, Coordinator of PhD program in Molecular Medicine

09:55-10:40 Session 1 - Oral Presentations

Chairs: Orsi Rebecca, Guardascione Valentina

Bernardi Sara (UniPI)

Neuronal Ceroid Lipofuscinosis: Therapeutic Strategies and Epileptogenesis Studies Using Optogenetics

Squillantini Lapo (UniFI)

Molecular characterisation of heritable thoracic aortic diseases

Guidotti Lorenzo (UniPI) (on line from Hungary)

A brief overview on retinal morpho-functional and molecular alterations in 5xFAD murine model

10:45-11:20 Session 2 - Oral Presentations

Chairs: Bernardi Sara, Squillantini Lapo

Puccini Lucrezia (UniSI)

Analysis of gene expression in skeletal muscles of mice carrying a deletion in the muscle-specific promoter in the ANK1 gene: possible effects of a deletion in a stretch/super enhancer region

Carmellini Pietro (UniSI)

Mediterranean Diet, Physical Activity and Insulin Resistance: Exploring the Relationship with Anhedonia in Major Depressive Disorder - Preliminary Findings from a University-Based Cohort

11:20 -11:45 **Coffee break**

11:45-12:30 **Session 3 - Oral Presentations**

Chairs: Puccini Lucrezia, Carmellini Pietro

Orsi Rebecca (UniFI)

Thrombosis and vaccine induced thrombotic thrombocytopenia: evaluation of genetic susceptibility to disease and complications through whole exome sequencing

Guardascione Valentina (UniSI)

Characterization of variants identified in the RYR1 and RYR3 genes

Salviati Sara (UniSI)

Social deficits are associated to developmental impairments in the endocannabinoid and PPAR α systems in a rat model of autism

12:30-13:00 **Session 4 - Oral Presentations**

Chairs: Salviati Sara, Puccini Lucrezia

Renzi Asia (UniSI)

Effects of advanced selection methods on sperm parameters and ART outcome

Pérez Casasùs Silvia (UniSI)

Potential Disruptive Effects of Endocrine Disrupting Chemicals on In Vitro-Derived Human Primordial Germ Cells

13:00 -14:15 **Lunch**

14:15-15:45 **Session 5 - Poster Presentations**

P1 Allegro Giada (UniFI)

The role of miR-182 in congenital heart disease: a key node between heart development and atrial fibrillation

P2 Balzano Mariano (UniFI)

Regulation of contraction in skeletal muscle: the role of titin

P3 Di Marsico Lorenza (UniPI)

β3-adrenoceptor role in hypoxia-driven retinal neovascularization: insights from the mouse model of oxygen-induced retinopathy

P4 Girolamo Francesca (UniSI)

Male infertility: genetic factors and lifestyles

P5 Liguori Laura (UniSI)

Chlorogenic acid supplementation to human semen: effects on sperm motility, oxidative stress and Nrf2 expression

P6 Malerba Chiara (UniSI)

The effects of heat stress and exercise on skeletal muscle tissue

P7 Mori Sara (UniPI)

Exploring Multiple Myeloma evolution through Untargeted Metabolomic analysis of liquid biopsy

P8 Parri Giulia (UniPI)

Exploring key mutated genes and profiling CpG islands landscapes in Multiple Myeloma

P9 Pranzo Carlotta (UniSI)

CCDC78: from basic research to mechanisms of disease

P10 Renna Giorgia Maria (UniSI)

Molecular mechanisms underlying multi minicore diseases

P11 Ricciardi Chiara (UniSI)

Optimization of a AAV based delivery system for Mir-486 overexpression in murine models of congenital myopathies

P12 Trovini Giada (UniSI)

Evaluation of the effectiveness of Methylphenidate treatment on emotional dysregulation in patients with ADHD comorbid with Borderline Personality Disorder

P13 Vitale Claudia (UniFI)

Role of Donepezil, a promising antitussive drug candidate, in the central regulation of the cough reflex in the rabbit

15:45-16:05 **Coffee break**

16:05-16:45 Session 6 - Flash talks

Chairs: Pérez Casasùs Silvia, Renzi Asia

Bardotti Massimo (UniSI), Cantini Pietro (UniFI), Katsigiannis Theodoros (UniSI), Lombardi Martina (UniSI), Magrini Martina (UniPI), Mejia Monroy Mariela (UniFI), Narducci Chiara (UniSI), Paccagnella Melanie (UniPI), Sturlese Verduri Arianna (UniPI), Ullah Saif (UniSI), Verrone Antonella (UniSI).

16:45-17:00 Announcement of Best Oral Presentations and Best Posters

17:00-18:00 General discussion on the progress of the Ph.D. Program and concluding remarks

Moderators:

Chiara Ricciardi, Enrico Pierantozzi, Federica Gemignani, Giulia Parri, Mariano Balzano, Nicoletta Piroddi, Vincenzo Sorrentino