

Master Program «Molecular Biology and Biomedicine»

Class of 2025



University of Crete // School of Science and Technology, Department of Biology
School of Medicine
Foundation for Research and Technology – Hellas // Institute of Molecular Biology and Biotechnology

Master thesis presentation program
ForTH Seminar Room, C. Fotakis, 23-24 October 2025

23.10.2025 Thursday		
10:30-10:40	Speakers	INTRODUCTION Delidakis Christos Kalantidis Kriton
10:40-11:50	Chairman	SESSION 1 Cancer <u>Kretsovali Androniki</u> Maroufidou Anastasia Unraveling the role of ROCK/Myosin II in modulating the metastatic capacity of breast cancer cells Supervisor: Keklikoglou Ioanna Members: Bazopoulou Dafne, Chalepakis Georgios 10:40-11:15 Vouzounerakis Nikolaos The role of Bre1, an H2B chromatin modifier, utilizing a <i>Drosophila melanogaster</i> Notch-induced neural tumor model Supervisor: Lavigne Matthieu Members: Delidakis Christos, Charalampopoulos Ioannis 11:15-11:50
11:50-12:20		Coffee BREAK
12:20-15:25	Chairman	SESSION 2 Neurobiology <u>Sidiropoulou Kyriaki</u>

12:20-12:55

Panagiotidou Eleftheria

The role of SEX-1-mediated regulation of energy metabolism in neurodegeneration

Supervisor: Tavernarakis Nektarios

Members: Bazopoulou Daphne, Garinis Georgios

12:55-13:30

Tsotoulidis Panagiotis

Investigation of the importance of glycolytic LDH+ cells in Notch-induced neural cancer progression in *Drosophila melanogaster*

Supervisor: Delidakis Christos

Members: Athanasakis Irini, Pittis Antonios Alexandros

13:30-14:15 Keynote Speaker (via ZOOM)

GEORGE Z. MENTIS, PhD

Professor of Pathology and Cell Biology (in Neurology)

Columbia University, Department of Pathology and Cell Biology

Title: **Sensory – Motor neuronal dysfunction, as an essential pathomechanism in the neurodegenerative disease Spinal Muscular Atrophy (SMA)**



14:15-14:50

Goula Agapi Iliana

The role of the new synaptic adhesion molecule Contactin-2 in plasticity mechanisms

Supervisor: Karagogeos Domna

Members: Sidiropoulou Kyriaki, Vidaki Marina

14:50-15:25

Falalakis Nikolaos

Dendritic properties allow parameter-free scaling and multimodal integration in a recurrent Spiking Neural Network

Supervisor: Poirazi Panayiota

Members: Sidiropoulou Kyriaki, Froudarakis Emmanouil

24.10.2025 Friday

10:00-11:45

SESSION 3

Aging

Chairman

Spilianakis Charalampos

10:00-10:35

Kalykaki Maria

Effects of serine metabolism on longevity and mitochondrial disease

Supervisor: Tavernarakis Nektarios

Members: Bazopoulou Daphne, Chamilos Georgios

10:35-11:10	Mpoupouli Aikaterini Delineating the functional role of dream complex in mammals Supervisor: Garinis Georgios Members: Spilianakis Charalampos, Verginis Panagiotis
11:10-11:45	Nikolarakou Maria Nefeli The role of DNA damage in CD4+ T cells in autoimmunity predisposition Supervisor: Garinis Georgios Members: Keklikoglou Ioanna, Spilianakis Charalampos
11:45-12:15	Coffee BREAK
12:15-14:00	SESSION 4 Immunology Chairman <u>Chamilos Georgios</u> 12:15-12:50 Zormpas Georgios The effects of aging and age-related DNA-damage on macrophage antibacterial immune responses Supervisor: Tsatsanis Christos Members: Spilianakis Charalampos, Garinis Georgios 12:50-13:25 Tagmatarchou Margarita Investigation of microglial autophagy in the regulation of immune responses in Alzheimer's disease Supervisor: Verginis Panagiotis Members: Charalampopoulos Ioannis, Bertsias Georgios 13:25-14:00 Papagrigoraki Evelina Characterization of myofibroblasts in the context of lupus nephritis kidney injury Supervisor: Bertsias Georgios Members: Pavlopoulos Anastasios, Verginis Panagiotis
14:00-14:15	CLOSING REMARKS LUNCH