

11th International Course

Care & Use of Laboratory Animals

Mice, Rats, Zebrafish

Coordinated by the University of Crete - Department of Biology

in collaboration with the

Institute of Molecular Biology & Biotechnology- FORTH



April – June 2025

Theoretical part of the Course – Online Lectures – 7 of April to 20 of May 2025

Practical part of the Course – On Campus Laboratory Hands - On Training 26 to 30 of May 2025

Heraklion, Crete, Greece

<https://cula-uoc.eu/>



Scientific Committee

- Prof. M. Pavlidis, University of Crete, Dept. of Biology
- Prof. G. Garinis, University of Crete, Dept. of Biology and IMBB FORTH
- Dr. N. Kostomitsopoulos, Senior Research Scientist, BRFAA

Course Secretariat

- Mrs. Sofia Kyriakidi, University of Crete



Care and Use of Laboratory Animals: mice, rats and zebrafish

Week 1

Monday, 7 April 2025

Time 16:00 – 16:45 **Introduction - orientation session (L)**
Prof. George Garinis
University of Crete & Institute of Molecular Biology and
Biotechnology of the Foundation for Research and
Technology Hellas Teleconference

Time 17:00 – 17:45 **Discussion/
Preparation for PP presentation (O)**
Prof. George Garinis
University of Crete & Institute of Molecular Biology and
Biotechnology of the Foundation for Research and
Technology Hellas Teleconference

Tuesday, 8 April 2025

Time 16:00 – 18:00 **Introduction to animal ethics (L)**
Prof. Stavroula Tsinorema
University of Crete Teleconference

Wednesday, 9 April 2025

Time 17:30 – 18:30 **Defining alternatives; the 3Rs principles of
animal use (L)**
Argyro Zacharioudaki, DVM MLAS DipI-ECLAM
BIOEMTECH Laboratories Teleconference

Thursday, 10 April 2025

Time 15:00 – 16:30 **Stress, anxiety and welfare of laboratory
animals (L)**
Dr. Athanasios Samaras
University of Crete Teleconference

Friday, 11 April 2025

Time 15:00 – 16:00 **Anesthesia and analgesia in laboratory
animals (L)**
Dr. Kalliopi Stratigi,
Institute of Molecular Biology and Biotechnology of the
Foundation for Research and Technology Hellas Teleconference

Info:

L: Lecture
P: Practicals
O: Other





Care and Use of Laboratory Animals: mice, rats and zebrafish

Week 2

Monday, 14 April 2025

Time 15:00 – 16:30

National and EU Legislation (L)

Dr. Katerina Marinou
General Directorate of Veterinary Services
Ministry of Rural Development and Food

Teleconference

Tuesday, 15 April 2025

Time 15:00 – 16:00

Quality management systems and GLP in Laboratory Animal Facility and Research (L)

Dr. Georgia Chatzinikolaou
Institute of Molecular Biology and Biotechnology of the
Foundation for Research and Technology Hellas

Teleconference

16 – 27 of April 2025

Happy Easter Holidays

Care & Use of
Laboratory Animals
Mice, Rats, Zebrafish

Info:

L: Lecture

P: Practicals





Care and Use of Laboratory Animals: mice, rats and zebrafish

Week 3

Monday, 28 April 2025

Time 15:00 – 16:30

Project authorization, Animal Welfare Bodies (L)

Dr. Katerina Marinou
General Directorate of Veterinary Services
Ministry of Rural Development and Food

Teleconference

Tuesday, 29 April 2025

Time 17:30 – 19:30

Humane endpoints & Euthanasia (L)

Argyro Zacharioudaki, DVM MLAS DipLECLAM
BIOEMTECH Laboratories

Teleconference

Wednesday, 30 April 2025

Time 15:30 – 17:30

Diseases of laboratory animals, Health monitoring and prevention of disease (L)

Dr. Konstantinos Kostas, DVM
University of Crete

Teleconference

Thursday, 1 May 2025

National public holiday

Friday, 2 May 2025

Time 15:00 – 15:45

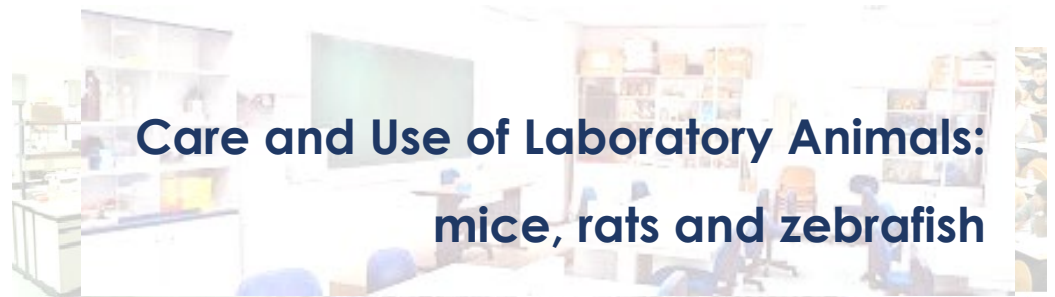
Nutrition & Dietary Regimens in Laboratory Animals (Mice & Rats)

Dr. Georgia Chatzinikolaou
Institute of Molecular Biology and Biotechnology of the
Foundation for Research and Technology Hellas

Teleconference

Info:
L: Lecture
P: Practicals





Care and Use of Laboratory Animals: mice, rats and zebrafish

Week 4

Monday, 5 May 2025

Time 16:00 – 18:00 **Zebrafish diseases and health management(L)** Teleconference
Dr. Pantelis Katharios
Hellenic Centre for Marine Research

Tuesday, 6 May 2025

Time 16:00 – 17:00 **Transportation and procedures (L)** Teleconference
Dr. Eleni Moltsanidou, DVM
Institute of Molecular Biology and Biotechnology of the Foundation
for Research and Technology Hellas

Wednesday, 7 May 2025

Time 16:00 – 17:30 **Generation of transgenic, knockin and knockout
animal models for human diseases (L)** Teleconference
Prof. George Garinis
University of Crete & Institute of Molecular Biology and Biotechnology
of the Foundation for Research and Technology Hellas

Thursday, 8 May 2025

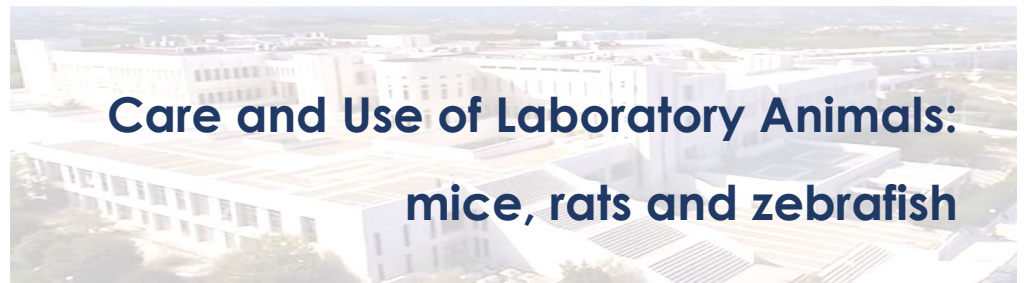
Time 17:30 – 19:00 **Severity classification (L)** Teleconference
Argyro Zacharioudaki, DVM MLAS DipIACLAM
BIOEMTECH Laboratories

Friday, 9 May 2025

Time 16:00 – 17:30 **Current education and training requirements with
laboratory animals (L)** Teleconference
Prof. Ismene Dontas
University of Athens

Info:
L: Lecture
P: Practicals





Week 5

Monday, 12 May 2025

Time 16:00 – 17:30**Harm/benefit analysis: cases of research studies using laboratory animals in practice (PBL)**Prof. Ismene Dontas
University of Athens

Teleconference

Tuesday, 13 May 2025

Time 16:00 – 16:45**Husbandry and Enrichment (L)**Dr. Marianna Tsoutsou
ELPEN Pharmaceuticals

Teleconference

Time 17:00 – 18:00**Communicating animal research to the public or Writing a Non Technical Summary (L)**Dr. Marianna Tsoutsou
ELPEN Pharmaceuticals

Teleconference

Wednesday, 14 May 2025

Time 15:00 – 17:00**Zebrafish biology & husbandry (L)**Dr. Eleftheria Fanouraki
University of Crete

Teleconference

Thursday, 15 May 2025

Time 15:00 – 15:45**Experimental design (L)**Prof. Konstantia Lika
University of Crete

Teleconference

Time 16:00 – 17:00**Statistical analysis and interpretation of results (L)**Prof. Konstantia Lika
University of Crete

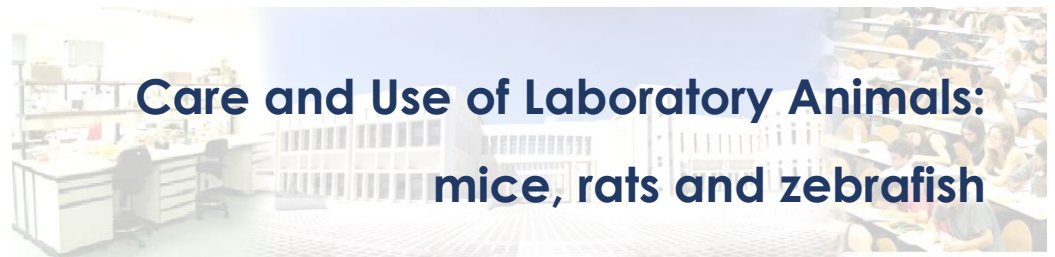
Teleconference

Friday, 16 May 2025

Time 16:00 – 17:00**Methods to assess emotional and cognitive behavior (L)**Assoc. Prof. Kyriaki Sidiropoulou
University of Crete

Teleconference

Info:**L: Lecture****P: Practicals**



Care and Use of Laboratory Animals: mice, rats and zebrafish

Week 6

Monday, 19 May 2025

Time 15:00 – 16:00

Manipulating the mouse embryo (L)

Prof. Eirini Athanasakis
University of Crete

Teleconference

Tuesday, 20 May 2025

Time 16:00 – 17:15

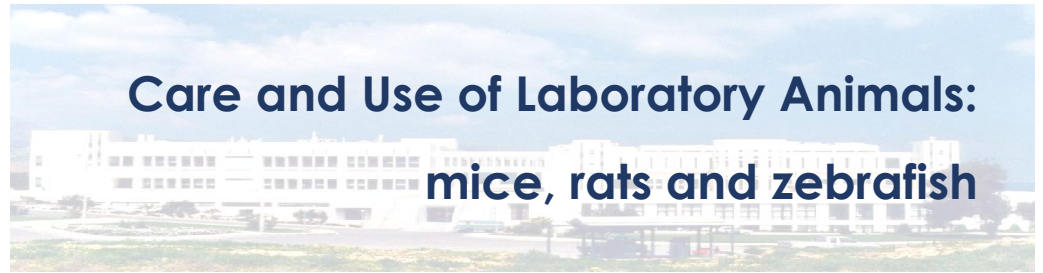
Zebrafish Behavioral Indicators of stress & anxiety (L)

Dr. Antonia Theodoridi
University of Crete

Teleconference

Info:
L: Lecture
P: Practicals





Week 7 – 26 to 30 of May 2025

On Campus -University of Crete, Department of Biology, Heraklion, Crete

Practical part of the Course –Laboratory Hands-On Training

1st day – Monday, 26 May 2025

Time 09:00 – 11:30

Rats hands-on exercise (P)

I: handling & stitching

Dr. Evangelos Balafas, MSc Pavlos Alexakos,
BRFAA

Dr. Niki Mastrodimou, Dr. Konstantinos Kostas
University of Crete

Laboratory Γ
Department of Biology

Time 11:30 – 11:45

Coffee break

Time 11:45 – 14:00

Rats hands-on exercise (P)

I: handling & stitching

Dr. Evangelos Balafas, MSc Pavlos Alexakos,
BRFAA

Dr. Niki Mastrodimou, Dr. Konstantinos Kostas
University of Crete

Laboratory Γ
Department of Biology

Time 14:00 – 15:00

Lunch

Time 15:00 – 19:00

**Zebrafish hands-on exercise: Water quality
monitoring, handling, anaesthesia, welfare
indicators (P)**

GROUP A

Prof. Michail Pavlidis,
Dr. Eleftheria Fanouraki, Dr.Thanasis Samaras

University of Crete

Laboratory A
Department of Biology

Info:

L: Lecture

P: Practicals





Care and Use of Laboratory Animals: mice, rats and zebrafish

Week 7 – 26 to 30 of May 2025

On Campus -University of Crete, Department of Biology, Heraklion, Crete

Practical part of the Course –Laboratory Hands-On Training

2nd day – Tuesday, 27 May 2025

Time 09:00 – 11:30

Rats hands-on exercise (P)

II: Drug administration; Anaesthesia & analgesia

Dr. Evangelos Balafas, MSc Pavlos Alexakos,
BRFAA

Dr. Niki Mastrodimou, Dr. Konstantinos Kostas
University of Crete

Laboratory Γ
Department of Biology

Time 11:30 – 11:45

Coffee break

Time 11:45 – 14:00

Rats hands-on exercise (P)

II: Drug administration; Anaesthesia & analgesia

Dr. Evangelos Balafas, MSc Pavlos Alexakos,
BRFAA

Dr. Niki Mastrodimou, Dr. Konstantinos Kostas
University of Crete

Laboratory Γ
Department of Biology

Time 14:00 – 15:00

Lunch

Time 15:00 – 19:00

**Zebrafish hands-on exercise: Water quality
monitoring, handling, anaesthesia, welfare
indicators (P)**

GROUP B

Prof. Michail Pavlidis,
Dr. Eleftheria Fanouraki, Dr. Thanasis Samaras
University of Crete

Laboratory A
Department of Biology

Info:

L: Lecture

P: Practicals





Care and Use of Laboratory Animals: mice, rats and zebrafish

Week 7 – 26 to 30 of May 2025

On Campus -University of Crete, Department of Biology, Heraklion, Crete

Practical part of the Course –Laboratory Hands-On Training

3rd day – Wednesday, 28 May 2025

Time 09:00 – 10:50

Mice hands-on exercise (P)

I: stitching and handling

Prof. Kyriaki Sidiropoulou, Dr. Konstantinos Diskos, UoC

Andromahi Tsimvragou, DVM

Dr. Theodoros Kosteas,

Eleni Moltsanidou, DVM, Dr. Angeliki Velli

Institute of Molecular Biology and Biotechnology of the
Foundation for Research and Technology Hellas

Laboratory B
Department of Biology

Time 10:50 – 11:05

Coffee break

Time 11:05 – 13:00

Mice hands-on exercise (P)

I: stitching and handling

Prof. Kyriaki Sidiropoulou, Dr. Konstantinos Diskos, UoC

Andromahi Tsimvragou, DVM

Dr. Theodoros Kosteas,

Eleni Moltsanidou, DVM, Dr. Angeliki Velli

Institute of Molecular Biology and Biotechnology of the
Foundation for Research and Technology Hellas

Laboratory B
Department of Biology

Time 13:00 – 14:00

Lunch

Info:

L: Lecture

P: Practicals





Care and Use of Laboratory Animals: mice, rats and zebrafish

Week 7 – 26 to 30 of May 2025

On Campus -University of Crete, Department of Biology, Heraklion, Crete
Practical part of the Course –Laboratory Hands-On Training

4th day – Thursday, 29 May 2025

Time 09:00 – 10:50

Mice hands-on exercise (P)

II: Drug administration; Anaesthesia & analgesia

Prof. Kyriaki Sidiropoulou, Dr. Konstantinos Diskos, UoC
Andromahi Tsimvragou, DVM

Dr. Theodoros Kosteas,

Eleni Moltsanidou, DVM, Dr. Angeliki Velli

Institute of Molecular Biology and Biotechnology of the
Foundation for Research and Technology Hellas

Laboratory B
Department of Biology

Time 10:50 – 11:05

Coffee break

Time 11:05 – 13:00

Mice hands-on exercise (P)

II: Drug administration; Anaesthesia & analgesia

Prof. Kyriaki Sidiropoulou, Dr. Konstantinos Diskos, UoC
Andromahi Tsimvragou, DVM

Dr. Theodoros Kosteas,

Eleni Moltsanidou, DVM, Dr. Angeliki Velli

Institute of Molecular Biology and Biotechnology of the
Foundation for Research and Technology Hellas

Laboratory B
Department of Biology

Time 13:00 – 14:00

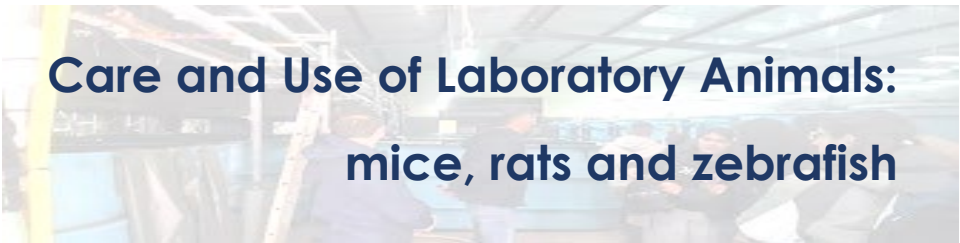
Lunch

Info:

L: Lecture

P: Practicals





Care and Use of Laboratory Animals: mice, rats and zebrafish

Week 7 – 26 to 30 of May 2025, On Campus -UoC, Department of Biology, Heraklion, Crete
EXAMS & PP Presentations of group work

5th day – Friday, 30 May 2025

Time 09:30 – 10:30	Final exams <i>Multiple choice options, covering all topics addressed during the course</i>	Amphitheatre A
Time 10:30 – 11:00	Coffee break	
PP Presentations of group work		Group work (≈15 min/group+ questions, ≈ 5 participants per group)
Time 11:00 – 11:15	Group 1 – title1	
+ questions	Amphitheatre A
Time 11:30 – 11:45	Group 2 – title2	
+ questions	Amphitheatre A
20 min. break		
Time 12:00 – 12:15	Group 3 – title3	
+ questions	Amphitheatre A
Time 12:45 – 13:00	Group 4 – title4	
+ questions	Amphitheatre A
Time 14:00	Farewell Lunch	We will let you know ASAP for the place



11th INTERNATIONAL COURSE

"CARE AND USE OF LABORATORY ANIMALS:

Mice, Rats, Zebrafish"



Hosted by the
University of Crete,
Department of Biology
In Collaboration with
IMBB, FORTH
Heraklion, Crete, Greece

APRIL - MAY, 2025

ORGANIZING COMMITTEE



PROF. MICHALIS PAVLIDIS, COORDINATOR
UNIVERSITY OF CRETE (UoC)

PROF. GEORGE GARINIS,
DEPARTMENT OF BIOLOGY, UoC AND
INSTITUTE OF MOLECULAR BIOLOGY
& BIOTECHNOLOGY, FORTH

DR. ELEFThERIA FANOURAKI,
DEPARTMENT OF BIOLOGY, UoC

DR. THEODOROS KOSTEAS,
CO-HEAD of CORE FACILITIES
INSTITUTE OF MOLECULAR BIOLOGY
& BIOTECHNOLOGY, FORTH

DR. NIKI MASTRODIMOU,
SCHOOL OF MEDICINE, UoC

SCIENTIFIC COMMITTEE

PROF. MICHALIS PAVLIDIS, COORDINATOR
UNIVERSITY OF CRETE

DR. NIKOLAOS KOSTOMITSOPOULOS,
BIOMEDICAL RESEARCH
FOUNDATION OF THE ACADEMY OF ATHENS

PROF. GEORGE GARINIS,
UNIVERSITY OF CRETE AND
INSTITUTE OF MOLECULAR BIOLOGY
& BIOTECHNOLOGY, FORTH



For more information about the course please visit:
<https://cula-uoc.eu/>

FELASA ACCREDITATION
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