

5th International Course

Care and Use of Laboratory Animals:

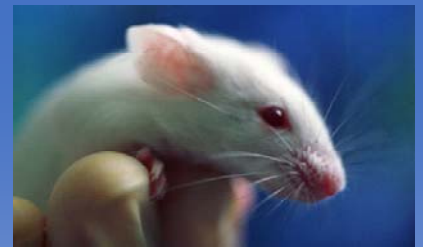
mice, rats and zebrafish

Coordinated by the

University of Crete - Department of Biology

in collaboration with the

Institute of Molecular Biology & Biotechnology- FORTH



June 04, 2018 — June 15, 2018

Heraklion, Crete, Greece



Organizing Committee

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

Course Secretariat

- Mrs. Sofia Kyriakidi, University of Crete



Monday, 04 June 2018



Monday, 04 June 2018
09:30 am – 18:00 pm

09:30 am – 10:00 am Registration (O)

Rotonda 3rd Floor
Department of Biology

10:00 am – 11:00 am Introduction (L)
Prof. Michail Pavlidis
UoC

Rotonda 3rd Floor
Department of Biology

11:00 am – 11:15 am Coffee break

11:15 am – 13:00 pm Introduction to animal ethics (L)
Prof. Stavroula Tsinorema
UoC

Rotonda 3rd Floor
Department of Biology

13:00 pm – 14:00 pm Lunch

14:00 pm – 16:00 pm Stress and welfare revisited (L)
Prof. Michail Pavlidis
UoC

Rotonda 3rd Floor
Department of Biology

16:00 pm – 17:00 pm Health hazards and safe practices in the animal house (L)
Constantinos Kourouniotis, DVM
IMBB

Rotonda 3rd Floor
Department of Biology

17:00 pm – 18:00 pm Subject Selection for PP presentation (O)
Prof. Michail Pavlidis
UoC

Rotonda 3rd Floor
Department of Biology

Info:

L: Lecture
P: Practicals
O: Other

UoC: University of Crete
IMBB: Institute of Molecular Biology & Biotechnology





Tuesday, 05 June 2018

Tuesday, 05 June 2018

09:30 am – 17:00 pm

09:30 am – 11:00 am

Survey of European legislation (L)

Dr. iur. Jorgos Sbokos
UoC external collaborator

Rotonda 3rd Floor
Department of Biology

11:00 am – 11:15 am

Coffee break

11:15 am – 12:00 pm

Model organisms. Definition, legal and ethical aspects (L)

Prof. Michail Pavlidis
UoC

Rotonda 3rd Floor
Department of Biology

12:00 pm – 13:00 pm

Nutrition and dietary regimes in laboratory animals (L)

Georgia Chatzinikolaou
IMBB

Rotonda 3rd Floor
Department of Biology

13:00 pm – 14:00 pm

Lunch

14:00 pm – 16:00 pm

Defining alternatives; the 3R principle of animal use (L)

Assis. Prof. Charalambos Spilianakis
UoC & IMBB

Rotonda 3rd Floor
Department of Biology

16:00 pm – 17:00 pm

G Quality and GLP in Lab Animal Facility (L)

Theodoros Kosteas
IMBB

Rotonda 3rd Floor
Department of Biology

17:00 pm – 18:00 pm

Preparation of PP presentation (O)

Parallel activity (2 h)

Rotonda 3rd Floor
Department of Biology

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Wednesday, 06 June 2018



Wednesday, 06 June 2018
09:30 am – 17:00 pm

09:30 am – 11:00 am	Fish biology, Stress & welfare (L) Prof. Gert Flik UN	Rotonda 3rd Floor Department of Biology
11:00 am – 11:15 am	Coffee break	
11:15 am – 12:00 am	Fish biology, Stress & welfare (L) Prof. Gert Flik UN	Rotonda 3rd Floor Department of Biology
12:00 am – 13:00 pm	Genetic standardization, Inbred strains; co-isogenic, congenic lines (L) Assis. Prof. Charalambos Spilianakis UoC & I.M.B.B.	Rotonda 3rd Floor Department of Biology
13:00 pm – 14:00 pm	Lunch	
14:00 pm – 16:30 pm	Mouse and rat: biology & use (L) Prof. Eirini Athanasaklis UoC	Rotonda 3rd Floor Department of Biology
16:30 pm – 17:00 pm	Group work: License and application procedure (O) Prof. Michail Pavlidis UoC	Rotonda 3rd Floor Department of Biology

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UoC: University of Crete
IMBB: Institute of Molecular Biology & Biotechnology
UN: Radboud University Nijmegen, The Netherlands





Thursday, 7 June 2018

Thursday, 7 June 2018
09:30 am – 18:00 pm

09:30 am – 10:15 am	Anesthesia and analgesia in laboratory animals (L) Kalliopi Stratigi, IMBB	Rotonda 3rd Floor Department of Biology
10:15 am – 11:15 am	Preoperative surgery (L) Dr. Nikolaos Kostomitsopoulos, DVM BRFAA	Rotonda 3rd Floor Department of Biology
11:15 am – 11:45 am	Coffee break	
11:45 am – 13:00 pm	Diseases of laboratory animals, Health monitoring and prevention of disease (L) Dr. Nikolaos Kostomitsopoulos, DVM BRFAA	Rotonda 3rd Floor Department of Biology
13:00 pm – 14:00 pm	Lunch	
14:00 pm – 18:00 pm	Rats hands-on exercise I: handling & stitching (P) Evangelos Balafas, Pavlos Alexakos, Dr. Nikolaos Kostomitsopoulos BRFAA Niki Mastrodimou, UoC	Laboratory Γ Department of Biology

Info:

L: Lecture
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O: Other

UoC: University of Crete
IMBB: Institute of Molecular Biology & Biotechnolog
BRFAA: Biomedical Research Foundation of the Academy of Athens





Friday, 8 June 2018
09:30 am – 16:00 pm

09:30 am – 13:00 pm	Rats hands-on exercise II: Drug administration; Anaesthesia & analgesia (P) Evangelos Balafas, Pavlos Alexakos & Dr. Nikolaos Kostomitsopoulos BRFAA Niki Mastrodimou, UoC	Laboratory Γ Department of Biology
13:00 pm – 14:00 pm	Lunch	
14:00 pm – 15:00 pm	Transportation and procedures (L) Dr. Nikolaos Kostomitsopoulos, DVM BRFAA	Rotonda 3rd Floor Department of Biology
15:15 pm – 16:00 pm	Transgenic animals; recombinant inbred strains (L) Theodoros Kosteas IMBB	Rotonda 3rd Floor Department of Biology

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BRFAA: Biomedical Research Foundation of the Academy of Athens





Monday, 11 June 2018



Monday, 11 June 2018
09:30 am – 16:00 pm

09:30 am – 11:00 am	Zebrafish diseases, prophylaxis and treatment (L) Dr. Pantelis Katharios HCMR	Rotonda 3rd Floor Department of Biology
11:00 am – 11:15 am	Coffee break	
11:15 am – 13:00 pm	Methods and tests to assess anxiety-related behaviour (L) Assis. Prof. Kyriaki Sidiropoulou UoC	Rotonda 3rd Floor Department of Biology
13:00 pm – 14:00 pm	Lunch	
14:00 pm – 15:00 pm	Current education and training requirements with laboratory animals (L) Prof. Ismene Dontas UoA	Rotonda 3rd Floor Department of Biology
15:00 pm – 16:00 pm	Harm/benefit analysis: cases of research studies using laboratory animals in practice (O) Prof. Ismene Dontas UoA	Rotonda 3rd Floor Department of Biology

Info:

L: Lecture
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UoC: University of Crete
HCMR: Hellenic Centre Marine Research
UoA: University of Athens





Tuesday, 12 June 2018

09:30 am – 16:00 pm

09:30 am – 13:00 pm

Mice hands-on exercise I: stitching and handling (P)

Theodoros Kosteas, Constantinos Kourouniotis &
Hara Roumpaki
IMBB

Laboratory A
Department of Biology

13:00 pm – 14:00 pm

Lunch

14:00 pm – 15:00 pm

Experimental design (L)

Assoc. Prof. Konstantia Lika
UoC

Computer Room
Department of Biology

15:00 pm – 16:00 pm

Statistical analysis and interpretation of results (L)

Assoc. Prof. Konstantia Lika
UoC

Computer Room
Department of Biology

Info:

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O: Other

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IMBB: Institute of Molecular Biology & Biotechnology





Wednesday, 13 June 2018



Wednesday, 13 June 2018
09:30 am – 17:00 pm

09:30 am – 13:00 pm	Mice hands-on exercise II: Drug administration; Anaesthesia & analgesia (P) Theodoros Kosteas & Constantinos Kourouniotis, Hara Roumpaki IMBB	Laboratory A Department of Biology
13:00 pm – 14:00 pm	Lunch	
14:15 pm – 14:45 pm	The Laboratory Rat: A Natural History A video film by Dr. Manuel Berdoy Oxford University Biomedical Services	Rotonda 3rd Floor Department of Biology
14:45 pm – 16:00 pm	Zebrafish as laboratory animal (L) Prof. Michail Pavlidis UoC	Rotonda 3rd Floor Department of Biology
16:00 pm – 17:00 pm	The use of non-human primates in biomedical research (L) Ass. Prof. Georgia Gregoriou UoC	Rotonda 3rd Floor Department of Biology

Info:

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O: Other





Thursday, 14 June 2018

Thursday, 14 June 2018
09:30 am – 18:00 pm

09:30 am – 13:00 pm

Zebrafish hands-on exercise: handling, anaesthesia, behavioural monitoring (P)

Prof. Michail Pavlidis, A. Theodoridi &
Dr. Aleka Tsalafouta
UoC

Laboratory B
Department of Biology

13:00 pm – 14:00 pm

Lunch

14:00 pm – 18:00 pm

Presentations of group works (O)

Open session

Rotonda 3rd Floor
Department of Biology

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Friday, 15 June 2018
09:30 am – 15:00 pm

10:00 am – 11:00 am

Exams (O)
Prof. Michail Pavlidis
UoC

Laboratory B
Department of Biology

11:00 am – 12:00 pm

**Free discussions;
Evaluation assessment (O)**

Laboratory B
Department of Biology

13:00 pm – 15:00 pm

Fairwell party

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