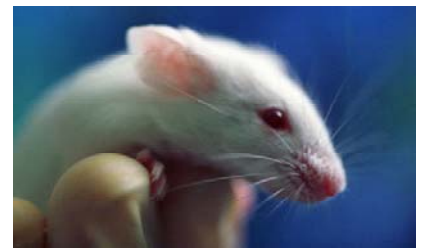


Second International Course

Care and Use of Laboratory Animals

1st to 12th June 2015

Heraklion, Crete, Greece



Coordinated by the
University of Crete - Department of Biology

Organized by UoC and Institute of Molecular Biology & Biotechnology

Organizing Committee

- Assoc. Prof. M. Pavlidis, University of Crete, Dept. of Biology
- Dr. N. Kostomitsopoulos, DVM, Senior Research Scientist, Biomedical Research Foundation of the Academy of Athens
- Prof. G. Garinis, University of Crete, Dept. of Biology and Institute of Molecular Biology & Biotechnology, FORTH

Course Secretariat

- Mrs. Sofia Kyriakidi





Ethical aspects

Monday, 1 June 2015

09:15 am – 17:00 pm

09:15 am – 10:00 am	Registration (O)	Rotonda (3 rd Floor)
10:00 am – 11:00 am	Introduction (L) Assoc. Prof. Michail Pavlidis UoC	Rotonda (3 rd Floor)
11:00 am – 11:15 am	Coffee break	
11:15 am – 12:00 pm	Introduction to animal ethics (L) Prof. Eirini Athanasakis UoC	Rotonda (3 rd Floor)
12:15 pm – 13:00 pm	Intrinsic vs. instrumental value of animals; arguments for and against the use of animals for scientific purposes (L) Assoc. Prof. Michail Pavlidis UoC	Rotonda (3 rd Floor)
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 (3 rd Floor)
16:15 pm – 17:00 pm	Subject Selection for PP presentation (O) Assoc. Prof. Michail Pavlidis UoC	Rotonda (3 rd Floor)

Info:

L: Lecture

P: Practicals

O: Other

UoC: University of Crete

IMBB: Institute of Molecular Biology & Biotechnology





Tuesday, 2 June 2015

Legislation & Management

Tuesday, 2 June 2015

09:15 am – 17:00 pm

09:15 am – 10:00 am	Health hazards and safe practices in the animal house (L) Constantinos Kourouniotis, DVM IMBB	Rotonda (3 rd Floor)
10:15 am – 11:00 am	Survey of European legislation (L) Dr. Jorgos Sbokos, Dr. iuris UoC external collaborator	Rotonda (3 rd Floor)
11:00 am – 11:15 am	Coffee break	
11:15 am – 12:00 pm	Lab animal database (L) Brian Mphande, DVM UEF	Rotonda (3 rd Floor)
12:15 pm – 13:00 pm	Model organisms. Definition, legal and ethical aspects (L) Assoc. Prof. Michail Pavlidis UoC	Rotonda (3 rd Floor)
13:00 pm – 14:00 pm	Lunch	
14:00 pm – 16:00 pm	Preoperative surgery (L) Brian Mphande, DVM UEF	Rotonda (3 rd Floor)
16:15 pm – 17:00 pm	Group work: License and application procedure (O) Assoc. Prof. Michail Pavlidis UoC	Rotonda (3 rd Floor)

Info:

L: Lecture

P: Practicals

O: Other





Wednesday, 3 June 2015

Biology, Stress & welfare of laboratory animals

Wednesday, 3 June 2015

09:15 am – 17:00 pm

09:15 am – 11:00 am	Scientific approaches in Animal Welfare (L) Assoc. Prof. Michail Pavlidis UoC	Rotonda (3 rd Floor)
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 (3 rd Floor)
13:00 pm – 14:00 pm	Lunch	
14:00 pm – 16:00 pm	Mouse and rat: biology & use (L) Prof. Eirini Athanasaklis UoC	Rotonda (3 rd Floor)
16:15 pm – 17:00 pm	Nutrition and feeding of rats and mice (L) Brian Mphande, DVM UEF	Rotonda (3 rd Floor)

Info:

L: Lecture

P: Practicals

O: Other





Thursday, 4 June 2015



Health and hands-on exercise (rats session)

Thursday, 4 June 2015

09:15 am – 18:00 pm

09:15 am – 10:15 am	Anesthesia and euthanasia of laboratory animals (L) Ioannis – Zacharias Kokazanis, DVM BRFAA	Rotonda (3 rd Floor)
10:15 am – 11:10 am	Pain and analgesia (L) Ioannis – Zacharias Kokazanis, DVM BRFAA	Rotonda (3 rd Floor)
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 (3 rd Floor)
13:00 pm – 14:00 pm	Lunch	
14:00 pm – 18:00 pm	Rats hands-on exercise I: stitching & handling (P) Evangelos Balafas, Ioannis - Zacharias Kokazanis Dr. Nikolaos Kostomitsopoulos BRFAA	Laboratory Γ
15:00 pm – 18:00 pm	Preparation of PP presentation (O) Parallel activity (2 h)	Computer Room

Info:

L: Lecture
P: Practicals
O: Other





Transportation and Hands-on exercise (rats session)

Friday, 5 June 2015

09:15 am – 17:00 pm

09:00 am – 13:00 pm	Rats hands-on exercise II: Drug administration; Anaesthesia & analgesia (P) Evangelos Balafas, Ioannis – Zacharias Kokazanis & Dr. Nikolaos Kostomitsopoulos BRFAA	Laboratory Γ
10:00 pm – 13:00 pm	Preparation of PP presentation (O) Parallel activity (2 h)	Computer Room
13:00 pm – 13:50 pm	Lunch	
14:00 pm – 14:45 pm	Transportation and procedures (L) Dr. Nikolaos Kostomitsopoulos, DVM BRFAA	Rotonda (3 rd Floor)
15:00 pm – 17:00 pm	Reading course & preparation for the exams (O)	Computer Room

Info:

L: Lecture

P: Practicals

O: Other





Monday, 8 June 2015



Zebrafish session

Monday, 8 June 2015
09:15 am – 18:00 pm

09:15 am – 11:00 am	Zebrafish diseases, prophylaxis and treatment (L) Dr. Pantelis Katharios HCMR	Rotonda (3 rd Floor)
11:00 am – 11:15 am	Coffee break	
11:15 am – 13:00 pm	Stress biology & welfare Prof. Gert Flik UN	Rotonda (3 rd Floor)
13:00 pm – 14:00 pm	Lunch	
14:15 pm – 16:00 pm	Zebrafish as laboratory animal (L) Dr. Dimitrios Sfakianakis UoC	Rotonda (3 rd Floor)
16:15 pm – 18:00 pm	Individual preparation for the exams (O)	Computer Room

Info:

L: Lecture
P: Practicals
O: Other

HCMR: Hellenic Centre Marine Research
UN: Radboud University Nijmegen
UoC: University of Crete





Tuesday, 9 June 2015

Genetics & Hands-on exercise (mice session)

Tuesday, 9 June 2015

09:15 am – 18:00 pm

09:15 am – 13:00 pm	Mice hands-on exercise I: stitching and handling (P) Theodoros Kosteas & Constantinos Kourouniotis IMBB	Laboratory Γ
13:00 pm – 14:00 pm	Lunch	
14:15 pm – 15:00 pm	Transgenic animals; recombinant inbred strains (L) Theodoros Kosteas IMBB	Rotonda (3 rd Floor)
15:15 pm – 16:00 pm	Genetic standardization, Inbred strains; co-isogenic, congenic lines (L) Assis. Prof. Charalambos Spilianakis UoC & I.M.B.B.	Rotonda (3 rd Floor)
16:15 pm – 18:00 pm	Sperm cryopreservation (mouse) (P) Prof. Eirini Athanasakis & Christiana Kyvelidou UoC	Laboratory A

Info:

L: Lecture

P: Practicals

O: Other





Wednesday, 10 June 2015

Hands-on exercise (mice session)

Wednesday, 10 June 2015

09:15 am – 17:00 pm

09:15 am – 13:00 pm	Mice hands-on exercise II: Drug administration; Anaesthesia & analgesia (P) Theodoros Kosteas & Constantinos Kourouniotis IMBB	Laboratory Γ
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 (3 rd Floor)
15:15 pm – 16:00 pm	Harm/benefit analysis: cases of research studies using laboratory animals in practice (O) Prof. Ismene Dontas UoA	Rotonda (3 rd Floor)
16:15 pm – 17:00 pm	Quality and GLP in Lab Animal Facility (L) Theodoros Kosteas IMBB	Rotonda (3 rd Floor)

Info:

L: Lecture

P: Practicals

O: Other





Hands-on exercise (zebrafish session)

Thursday, 11 June 2015
09:15 am – 17:00 pm

09:15 am – 13:00 pm	Zebrafish hands-on exercise: handling, anaesthesia, behavioural monitoring (P) Assoc. Prof. Michail Pavlidis, Athanasios Samaras & Dr. Aleka Tsalafouta UoC	Laboratory B
13:00 pm – 14:00 pm	Lunch	
14:00 pm – 17:00 pm	Presentations of group works (O) Open session	Rotonda (3 rd Floor)

Info:
L: Lecture
P: Practicals
O: Other





Friday, 12 June 2015

Design and conduct of animal experiments

Friday, 12 June 2015

09:15 am – 16:00 pm

09:15 am – 10:00 am	Experimental design (L) Assis. Prof. Konstantia Lika UoC	Rotonda (3 rd Floor)
10:15 am – 11:00 am	Statistical analysis and interpretation of results (L) Assis. Prof. Konstantia Lika UoC	Rotonda (3 rd Floor)
11:00 am – 11:15 am	Coffee break	
11:15 am – 13:00 pm	Exams (O) Assoc. Prof. Michail Pavlidis UoC	Laboratory B
13:00 pm – 14:00 pm	Lunch	
14:00 pm – 16:00 pm	Free discussions; Evaluation assessment (O)	Rotonda (3 rd Floor)

Fairwell Party

Friday, 12 June 2015

21:00 pm

Info:

L: Lecture
P: Practicals
O: Other

UoC: University of Crete





Practicals - Rats

Thursday 4 June 2015

Rats hands-on exercise I: stitching & handling (P)

Evangelos Balafas, Ioannis - Zacharias Kokazanis & Dr. Nikolaos Kostomitsopoulos (BRFAA)

14:00 - 15:00	Handling and restraining methods in mice & rats and suturing techniques (L)	
15:00 - 15:15	Coffee break	
15:15 - 16:10	Rats hands-on exercise I: Handling, restraining methods (P)	A
	Suturing techniques (P)	B
	Preparation of PP presentation (O)	C
16:10 - 17:05	Rats hands-on exercise I: Handling, restraining methods (P)	B
	Suturing techniques (P)	C
	Preparation of PP presentation (O)	A
17:05-18:00	Rats hands-on exercise I: Handling, restraining methods (P)	C
	Suturing techniques (P)	A
	Preparation of PP presentation (O)	B

Friday 5 June 2015

Rats hands-on exercise II: Drug administration; Anaesthesia, anaesthesia & euthanasia

Evangelos Balafas, Ioannis - Zacharias Kokazanis & Dr. Nikolaos Kostomitsopoulos (BRFAA)

09:00 - 10:00	Pre lecture and demonstration of experimental techniques. Administration of substances in mice & rats (L)	
10:00 - 10:15	Coffee break	
10:15 - 11:10	Rats hands-on exercise II: Administration of substances (P)	A
	Anaesthesia / Rat intubation	B
	Preparation of PP presentation (O)	C
11:10 - 12:05	Rats hands-on exercise II: Administration of substances (P)	B
	Anaesthesia / Rat intubation	C
	Preparation of PP presentation (O)	A
12:05-13:00	Rats hands-on exercise II: Administration of substances (P)	C
	Anaesthesia / Rat intubation	A
	Preparation of PP presentation (O)	B

Groups A, B & C: 7 participants per group





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