

3rd International Course

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

May 30, 2016 — June 10, 2016

Heraklion, Crete, Greece



Coordinated by the
University of Crete - Department of Biology
in collaboration with the
Institute of Molecular Biology & Biotechnology- FORTH

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





Monday, 30 May 2016
09:15 am – 17:00 pm

09:15 am – 10:00 am **Registration (O)** Rotonda (3rd Floor)

10:00 am – 11:00 am **Introduction (L)**
Assoc. Prof. Michail Pavlidis
UoC Rotonda (3rd Floor)

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)

13:00 pm – 14:00 pm **Lunch**

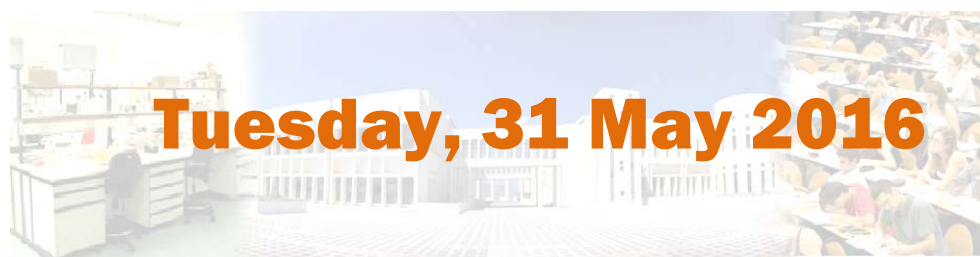
14:00 pm – 16:00 pm **Defining alternatives; the 3R principle of animal use (L)**
Assis. Prof. Charalambos Spilianakis
UoC & IMBB Rotonda (3rd Floor)

16:15 pm – 17:00 pm **Subject Selection for PP presentation (O)**
Assoc. Prof. Michail Pavlidis
UoC Rotonda (3rd Floor)

Info:

L: Lecture
P: Practicals
O: Other





Tuesday, 31 May 2016
09:15 am – 17:00 pm

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|----------------------------|---|---------------------------------|
| 09:15 am – 11:00 am | Survey of European legislation (L) Dr. iur. Jorgos Sbokos 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) |
| 16:00 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

UoC: University of Crete
IMBB: Institute of Molecular Biology & Biotechnology
UEF: University of Eastern Finland





Wednesday, 1 June 2016
09:15 am – 17:00 pm

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| 09:15 pm – 11:00 pm | Mouse and rat: biology & use (L) Prof. Eirini Athanasaklis UoC | 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 | |
| 14:00 am – 16:00 pm | Methods and tests to assess anxiety-related behaviour (L) Assis. Prof. Kyriaki Sidiropoulou UoC | 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





Thursday, 2 June 2016
09:15 am – 18:00 pm

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|----------------------------|--|---------------------------------|
| 09:15 am – 10:00 am | Anesthesia and euthanasia of laboratory animals (L) Brian Mphande, DVM UEF | Rotonda (3 rd Floor) |
| 10:15 am – 11:15 am | Pain and analgesia (L) Brian Mphande, DVM UEF | 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: handling & stitching (P) Evangelos Balafas, Ioannis – Zacharias Kakazanis, 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



BRFAA: Biomedical Research Foundation of the Academy of Athens
UEF: University of Eastern Finland



Friday, 3 June 2016
09:15 am – 18:00 pm

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| 09:15 am – 13:00 pm | Rats hands-on exercise II: Drug administration; Anaesthesia & analgesia (P) Evangelos Balafas, Ioannis – Zacharias Kakazanis & Dr. Nikolaos Kostomitsopoulos BRFAA | Laboratory Γ |
| 10:00 pm – 13:00 pm | Preparation of PP presentation (O) Parallel activity (2 h) | Rotonda (3 rd Floor) |
| 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 – 15:45 pm | Transgenic animals; recombinant inbred strains (L) Theodoros Kosteas IMBB | Rotonda (3 rd Floor) |
| 16:00 pm – 16:45 pm | Genetic standardization, Inbred strains; co-isogenic, congenic lines (L) Assis. Prof. Charalambos Spilianakis UoC & I.M.B.B. | Rotonda (3 rd Floor) |
| 17:00 pm – 18:00 pm | Reading course & preparation for the exams (O) | Rotonda (3 rd Floor) |

Info:

L: Lecture
P: Practicals
O: Other



BRFAA: Biomedical Research Foundation of the Academy of Athens



Monday, 6 June 2016
09:15 am – 17:00 pm

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| 09:15 pm – 11:00 pm | Zebrafish as laboratory animal (L) Assoc. Prof. Michail Pavlidis UoC | Rotonda (3 rd Floor) |
| 11:00 am – 11:15 am | Coffee break | |
| 11:15 am – 13:00 am | Zebrafish diseases, prophylaxis and treatment (L) Dr. Pantelis Katharios HCMR | Rotonda (3 rd Floor) |
| 13:00 pm – 14:00 pm | Lunch | |
| 14:00 am – 15:00 am | Experimental design (L) Assoc. Prof. Konstantia Lika UoC | Rotonda (3 rd Floor) |
| 15:00 am – 16:00 am | Statistical analysis and interpretation of results (L) Assoc. Prof. Konstantia Lika UoC | Rotonda (3 rd Floor) |
| 16:15 pm – 17:00 pm | Health hazards and safe practices in the animal house (L) Constantinos Kourouniotis, DVM IMBB | Rotonda (3 rd Floor) |
| 17:00 pm – 18:00 pm | Preparation of PP presentation (O) Parallel activity (2 h) | Computer Room |

Info:

L: Lecture
P: Practicals
O: Other

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





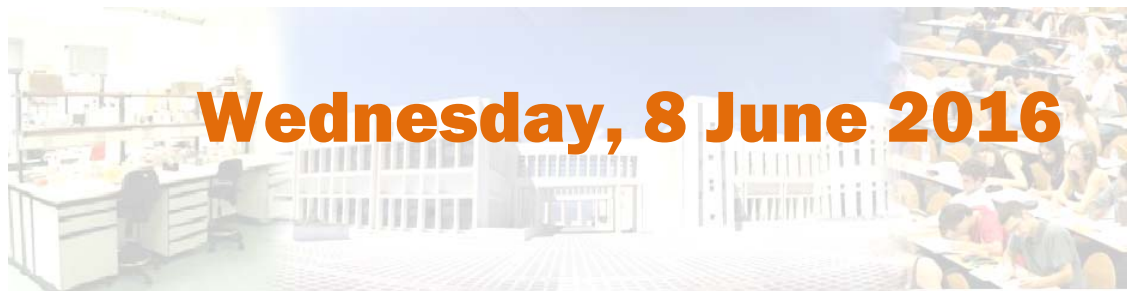
Tuesday, 7 June 2016
09:15 am – 18:00 pm

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|----------------------------|---|---------------------------------|
| 09:15 am – 13:00 pm | Mice hands-on exercise I: stitching and handling (P) Theodoros Kosteas, Constantinos Kourouniotis & Hara Roumpaki IMBB | Laboratory Γ |
| 13:00 pm – 14:00 pm | Lunch | |
| 14:00 pm – 16:00 pm | Stress and coping: the transational theory (L) Assoc. Prof. Evangelos Karadimas UoC | Rotonda (3 rd Floor) |
| 16:15 pm – 18:00 pm | Sperm and oocyte isolation (mouse) (P) Prof. Eirini Athanasakis & Christiana Kyvelidou UoC | Laboratory Γ |
| 17:00 pm – 18:00 pm | Reading course & preparation for the exams (O) | Rotonda (3 rd Floor) |

Info:

L: Lecture
P: Practicals
O: Other





Wednesday, 8 June 2016

Wednesday, 8 June 2016
09:15 am – 17:00 pm

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|---------------------|---|---------------------------------|
| 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) |
| 17:00 pm – 18:00 pm | Reading course & preparation for the exams (O) | Rotonda (3 rd Floor) |

Info:

L: Lecture
P: Practicals
O: Other





Thursday, 9 June 2016

Thursday, 9 June 2016
09:15 am – 18:00 pm

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|----------------------------|--|---------------------------------|
| 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 – 18:00 pm | Presentations of group works (O) Open session | Rotonda (3 rd Floor) |

Info:
L: Lecture
P: Practicals
O: Other





Friday, 10 June 2016
09:15 am – 16:00 pm

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|----------------------------|--|---------------------------------|
| 09:15 am – 11:00 am | Exams (O) Assoc. Prof. Michail Pavlidis UoC | Rotonda (3 rd Floor) |
| 11:15 am – 13:00 pm | Free discussions; Evaluation assessment (O) | Laboratory B |
| 13:00 pm – 14:00 pm | Lunch | |

Fairwell Party

Friday, 10 June 2015
21:00 pm

Info:

L: Lecture
P: Practicals
O: Other





Thursday 2 June 2016

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

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

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|---------------|---|---|
| 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 3 June 2016

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

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

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|---------------|--|---|
| 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 |
| | Anesthesia / 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





We would like to thank our sponsors

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