



# Care and use of laboratory animals: Science, philosophy and society

**A collaborative partnership programme involving:**

-  University of Crete, Dept. of Biology, Crete, Greece
-  University of Eastern Finland, Lab Animal Centre, Finland
-  Radboud University Nijmegen, Dept. of Animal Physiology, The Netherlands
-  FORTH, Institute of Molecular Biology of Crete, Crete

**Coordinator: Dr. Michalis Pavlidis**  
University of Crete, Dept. of Biology

## ERASMUS INTENSIVE PROGRAMME

Hosted by the University of Crete,  
Dept. of Biology, Heraklion, Crete,  
Greece

Heraklion, Crete, Greece  
5th to 16th May 2014



Registration by application to the coordinator  
<http://cula.biology.uoc.gr>





## Ethical aspects

Monday, 5 May 2014

09:15 am – 18:00 pm

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09:15 am – 10:00 am	<b>Registration (O)</b>	Auditorium Manasakis
10:00 am – 11:00 am	<b>Introduction (L)</b> Michail Pavlidis & George Garinis UoC & I.M.B.B.	Auditorium Manasakis
11:00 am – 11:15 am	Coffee break	
11:15 am – 12:00 pm	<b>Introduction to animal ethics (L)</b> Eirini Athanasakis UoC	Auditorium Manasakis
12:15 pm – 13:00 pm	<b>Intrinsic vs. instrumental value of animals; arguments for and against the use of animals for scientific purposes (L)</b> Michail Pavlidis UoC	Auditorium Manasakis
13:00 pm – 14:00 pm	Lunch	
14:00 pm – 16:00 pm	<b>Defining alternatives; the 3R principle of animal use (L)</b> Charalambos Spilianakis UoC & I.M.B.B.	Auditorium Manasakis
16:15 pm – 18:00 pm	<b>Group work:</b> <b>Ethical aspects of animal use (O)</b> Michail Pavlidis & Eirini Athanasakis UoC	Auditorium Manasakis

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### Info:

L: Lecture

P: Practicals

O: Other

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## Legislation

Tuesday, 6 May 2014

09:15 am – 18:00 pm

09:15 am – 10:00 am	<b>Model organisms. Definition, legal and ethical aspects (L)</b> Michail Pavlidis UoC	Auditorium Manasakis
10:15 am – 11:00 am	<b>Survey of European legislation (L)</b> Kai Ökva UEF	Auditorium Manasakis
11:00 am – 11:15 am	Coffee break	
11:15 am – 12:00 pm	<b>Lab animal database (L)</b> Brian Mphande UEF	Auditorium Manasakis
12:15 pm – 13:00 pm	<b>Choice of the experimental animal (L)</b> Kai Ökva UEF	Auditorium Manasakis
13:00 pm – 14:00 pm	Lunch	
14:00 pm – 15:00 pm	<b>Ethical committees (L)</b> George Garinis UoC & I.M.B.B.	Auditorium Manasakis
15:15 pm – 17:00 pm	<b>Group work: License and application procedure (O)</b> M. Pavlidis, Brian Mphande & Kai Ökva UoC & UEF	Auditorium Manasakis
17:00 pm – 18:00 pm	Independent review preparation (O)	

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Με τη συγχρηματοδότηση της Ελλάδας και της Ευρωπαϊκής Ένωσης





## Biology & husbandry of laboratory animals

Wednesday, 7 May 2014

09:15 am – 18:00 pm

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09:15 am – 11:00 am	<b>Stress Revisited (L)</b> Michail Pavlidis UoC	Auditorium Manasakis
11:00 am – 11:15 am	Coffee break	
11:15 am – 13:00 pm	<b>Mouse and rat: biology &amp; use (L)</b> Kai Ökva UEF	Auditorium Manasakis
13:00 pm – 14:00 pm	Lunch	
14:00 pm – 17:00 pm	<b>Mouse and rat: biology &amp; use continue (L)</b> Kai Ökva UEF	Auditorium Manasakis
17:15 pm – 18:00 pm	<b>Nutrition and feeding of rats and mice (L)</b> Brian Mphande UEF	Auditorium Manasakis

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# Thursday, 8 May 2014

## Health and hands-on exercise rats session

Thursday, 8 May 2014

09:15 am – 18:00 pm

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09:15 am – 10:00 am	<b>Anesthesia of laboratory animals (L)</b> Kai Ökva UEF	Auditorium Manasakis
10:15 am – 11:00 am	<b>Pain and analgesia (L)</b> Kai Ökva UEF	Auditorium Manasakis
11:00 am – 11:15 am	Coffee break	
11:15 am – 12:00 pm	<b>Diseases of laboratory animals (L)</b> Nikolaos Kostomitsopoulos BRFAA	Auditorium Manasakis
12:15 pm – 13:00 pm	<b>Health monitoring and prevention of disease (L)</b> Nikolaos Kostomitsopoulos BRFAA	Auditorium Manasakis
13:00 pm – 14:00 pm	Lunch	
14:00 pm – 20:00 pm	<b>Rats hands-on exercise I: stitching, handling, anesthesia, routes of drug administration (P)</b> Evangelos Balafas, Nikolaos Kostomitsopoulos, Kai Ökva & Brian Mphande BRFAA & UEF	Dept. Biology Laboratory Γ

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# Friday, 9 May 2014

## Hands-on exercise rats and zebrafish session

Friday, 9 May 2014

09:15 am – 18:00 pm

08:30 am – 13:30 pm

**Rats hands-on exercise II: euthanasia, anatomy, tissue sampling (P)**

Evangelos Balafas & Nikolaos Kostomitsopoulos  
BRFAA

Dept. Biology  
Laboratory Γ

13:30 pm – 14:00 pm

Lunch

14:00 pm – 16:00 pm

**Zebrafish as laboratory animal (L)**

Dimitrios Sfakianakis & Michail Pavlidis  
UoC

Auditorium Manasakis

16:00 pm – 18:00 pm

Independent review preparation (O)

# Saturday, 10 May 2014

## Spinalonga trip

Saturday, 10 May 2014

09:15 am – 18:00 pm

# Sunday, 11 May 2014

## Free day

Sunday, 11 May 2014

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Monday, 12 May 2014



## Genetics

Monday, 12 May 2014  
09:15 am – 18:00 pm

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09:15 am – 10:00 am	<b>Genetic standardization, Inbred strains; co-isogenic, congenic lines (L)</b> Charalambos Spilianakis UoC & I.M.B.B.	Auditorium Manasakis
10:15 am – 11:00 am	<b>Transgenic animals; recombinant inbred strains (L)</b> George Garinis UoC & I.M.B.B.	Auditorium Manasakis
11:00 am – 11:15 am	Coffee break	
11:15 am – 12:00 pm	<b>Health hazards and safe practices in the animal house (L)</b> Jenni Niiranen UEF	Auditorium Manasakis
12:15 pm – 13:00 pm	<b>Transportation and procedures (L)</b> Jenni Niiranen UEF	Auditorium Manasakis
13:00 pm – 14:00 pm	Lunch	
14:00 pm – 16:00 pm	<b>Sperm cryopreservation (P)</b> Alexandra El Borgini & Christiana Kyvelidou Spermatogenesis Laboratory of Fertility Control Greece & UoC	Dept. Biology Laboratory A
16:00 pm – 18:00 pm	Independent review preparation (O)	

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## Hands-on exercise mice session

Tuesday, 13 May 2014

09:15 am – 18:00 pm

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09:15 am – 13:00 pm	<b>Mice hands-on exercise I: stitching, handling, anesthesia, routes of drug administration (P)</b> Theodoros Kosteas, Constantinos Kourouniotis & Jenni Niiranen I.M.B.B. & UEF	Dept Biology Laboratory A
13:00 pm – 14:00 pm	Lunch	
14:00 pm – 16:00 pm	<b>Scientific approaches in Animal Welfare (L)</b> Gert Flik UN	Auditorium Manasakis
16:00 pm – 18:00 pm	<b>Independent review preparation (O)</b>	

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Ευρωπαϊκή Ένωση  
Ευρωπαϊκό Κοινωνικό Ταμείο

Με τη συγχρηματοδότηση της Ελλάδας και της Ευρωπαϊκής Ένωσης

ΕΠΙΧΕΙΡΗΣΙΑΚΟ ΠΡΟΓΡΑΜΜΑ  
ΕΚΠΑΙΔΕΥΣΗ ΚΑΙ ΔΙΑ ΒΙΟΥ ΜΑΘΗΣΗ  
ΥΠΟΥΡΓΕΙΟ ΠΑΙΔΕΙΑΣ ΚΑΙ ΘΡΗΣΚΕΥΜΑΤΩΝ  
ΕΙΔΙΚΗ ΥΠΗΡΕΣΙΑ ΔΙΑΧΕΙΡΙΣΗΣ  
ΕΠΙΧΕΙΡΗΣΙΑΚΟ ΠΡΟΓΡΑΜΜΑ  
ΕΥΡΩΠΑΪΚΟ ΚΟΙΝΩΝΙΚΟ ΤΑΜΕΙΟ  
2007-2013  
Πρόσκληση 94/06/0000





# Wednesday, 14 May 2014

## Hands-on exercise mice session

Wednesday, 14 May 2014

09:15 am – 18:00 pm

09:15 am – 13:00 pm	<b>Mice hands-on exercise II: euthanasia, anatomy, tissue sampling (P)</b> Theodoros Kosteas, Constantinos Kourouniotis & Jenni Niiranen I.M.B.B. & UEF	Dept Biology Laboratory A
13:00 pm – 14:00 pm	Lunch	
14:00 pm – 15:00 pm	<b>Current education and training requirements with laboratory animals (L)</b> Ismene Dontas UoA	Auditorium Manasakis
15:15 pm – 16:00 pm	<b>Harm/benefit analysis: cases of research studies using laboratory animals in practice (L)</b> Ismene Dontas UoA	Auditorium Manasakis
16:15 pm – 17:00 pm	<b>Quality and GLP in Lab Animal Facility (L)</b> Jenni Niiranen UEF	Auditorium Manasakis
17:00 pm – 18:00 pm	Independent review preparation (O)	

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## Hands-on exercise zebrafish session

**Thursday, 15 May 2014**  
**09:15 am – 18:00 pm**

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<b>09:15 am – 13:00 pm</b>	<b>Zebrafish hands-on exercise: handling, anesthesia, behavioural monitoring, brain sampling (P)</b> Michail Pavlidis, Antonia Theodoridi & Aleka Tsalafouta UoC	Dept Biology Laboratory A & Laboratory Γ
<b>13:00 pm – 14:00 pm</b>	<b>Lunch</b>	
<b>14:00 pm – 17:00 pm</b>	<b>Presentations of group works (O)</b> Open session	Auditorium Manasakis

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Friday, 16 May 2014

## Design and conduct of animal experiments

Friday, 16 May 2014

09:15 am – 18:00 pm

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09:15 am – 10:00 am	<b>Experimental design (L)</b> Konstantia Lika UoC	Auditorium Manasakis
10:15 am – 11:00 am	<b>Statistical analysis and interpretation of results (L)</b> Konstantia Lika UoC	Auditorium Manasakis
11:00 am – 11:15 am	Coffee break	
11:15 am – 13:00 pm	<b>Exams (O)</b> Michail Pavlidis UoC	Dept. Biology Laboratory Γ
13:00 pm – 14:00 pm	Lunch	
14:00 pm – 16:00 pm	<b>Free discussions; Evaluation assessment (O)</b>	Auditorium Manasakis

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## Fairwell Party

Friday, 16 May 2014

Albatros Hotel 20:00 pm

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