



**"ALEXANDER FLEMING"**  
Biomedical Sciences Research Center

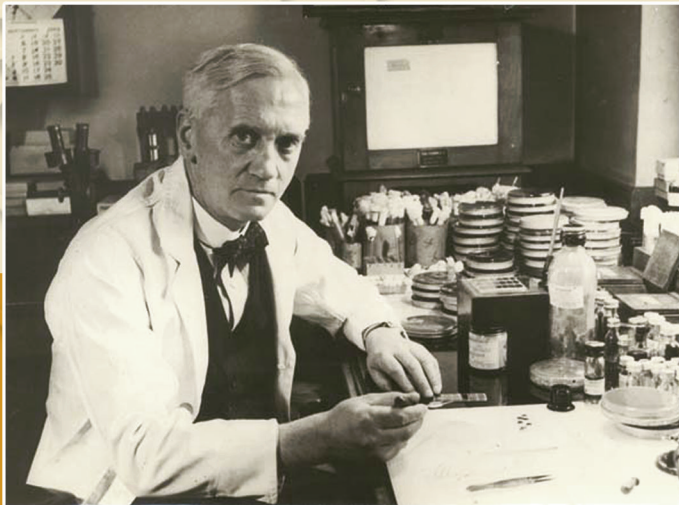
# **COURSE ON LABORATORY ANIMAL SCIENCE**

**B.S.R.C. Alexander Fleming**

**22 September**

**3 October 2008**

**Vari, Greece**





**"ALEXANDER FLEMING"**  
Biomedical Sciences Research Center

## **International Course on Laboratory Animal Science Vari, Greece**

**22 September - 3 October 2008**

A two-week intensive course on laboratory animal science will be organized at the B.S.R.C. Alexander Fleming - Vari, Greece in September 2008.

The objective of this course is to present basic facts and principles that are essential for the humane use and care of animals and for the quality of research.

The contents of the course are in line with recommendations of the Federation of European Laboratory Animal Science Associations (FELASA) regarding the training of the young scientists whose research involves the use of vertebrate animals.

For information and application forms, please contact:

Marie Kamber, DVM  
Head of animal facility  
B.S.R.C. Alexander Fleming  
34 Alexander Fleming str.  
16672, Vari, Greece  
Tel. +30 210 9656310  
Fax: +30 210 9656563  
E-mail: [kamber@fleming.gr](mailto:kamber@fleming.gr)  
Web: <http://www.fleming.gr>

# LAS COURSE 2008

## Hotels Info

### ■ Vouliagmeni Suites:

Panos & Chloes str.

Vouliagmeni, Greece, P.C. 16671

Prices

Single : **130,00 €**

Double : **140,00 €**

Tel.: +30 210 8964901

Fax: +30 210 9674100

E-mail : [gman\\_vs@classicalhotels.com](mailto:gman_vs@classicalhotels.com)

Web site: [www.classicalhotels.com](http://www.classicalhotels.com)

### ■ Hotel Emmantina:

33, Poseidonos Avenue, Glyfada,

Greece, P.C. 16675

Prices

Single: **79,00 €**

Double: **90,00 €**

Tel.: +30 210 8980683

Fax: +30 210 8948110

E-mail: [manager@palmyra.gr](mailto:manager@palmyra.gr)

Web site: [www.emmantina.gr](http://www.emmantina.gr)

### ■ Hotel London:

38, Poseidonos Avenue, Glyfada,

Greece, P.C. 16674

Prices

Single: **60,00 €**

Double: **70,00 €**

Tel.: +30 210 8942106

Fax: +30 210 8943995

E-mail: [info@londonhotel.gr](mailto:info@londonhotel.gr)

Web site: [www.londonhotel.gr](http://www.londonhotel.gr)

### ■ Hotel Palmyra:

70, Poseidonos Avenue, Glyfada,

Greece, P.C. 16675

Prices

Single: **79,00 €**

Double: **90,00 €**

Tel.: +30 210 8981183

Fax: +30 210 8981186

E-mail: [manager@palmyra.gr](mailto:manager@palmyra.gr)

Web site: [www.palmyra.gr](http://www.palmyra.gr)

# LAS COURSE

**Monday 22 September - Friday 3 October 2008**  
**BSRC Al. Fleming, Vari, Greece**

## TOPICS ADDRESSED

### Theoretical part

- Diseases of laboratory animals
- FELASA health screening-recommendations
- Autopsies, tissue sampling
- Clinical Examination, Clinical + Anatomic Pathology
- Common spontaneous and infectious phenotypes that can impact your research
- Breeding laboratory rodents
- Nutrition
- Microbiology-Gnotobiology
- Anaesthesia
- Analgesia
- Methods of humane euthanasia
- Genetic standardization
- Alternatives to animal procedures
- Demo experimental techniques
- International legislation
- Greek legislation- Ethics: cost/benefits analysis
- Welfare and experimental procedures
- From brainwave to publication
- Introduction Laboratory Animal Science
- Statistics
- Embryonic Stem Cells
- Virtual mouse resources
- Cryopreservation
- Basic principles of transgenesis in mouse
- ENU mutagenesis
- Expression profiling in animal model



## Practicals

- ñ Animal handling
- ñ Oral administration of drugs
- ñ Performance of various injection techniques
- ñ Methods for the collection of body fluids
- ñ Experimental Techniques (cannulation, insertion of catheters etc)

## Visiting Lecturers:

- Vera Baumans (DVM, PhD, DipECLAM, Laboratory Animal Science Specialist, University of Utrecht Carolinska Institute)
- Kathleein Pritchett - Corning (DVM, DACLAM, MRCVS, Director, European Scientific Services Charles River Laboratories)
- Harry Blom (PhD, Laboratory Animal Science Specialist, University of Utrecht, FELASA Vice President for International Liaisons)
- Pim Rooymans (Education Officer - Department Animals, Science & Society)
- Joannes C. Meijer (DVM, PhD)
- James Wallace (Editor ALN Europe Magazine, Sience Associates)
- Nikos Papaioannou (Assoc. Prof., DVM, PhD, Department of Pathology School of Veterinary Medicine Aristotle University of Thessaloniki)
- Spyros Krytas (DVM, PhD, Diplomate ECPHM, Assistant Professor Aristotle University of Thessaloniki, School of Veterinary Medicine, Department of Microbiology and Infectious Diseases, University Campus)
- Ioannis Savvas (DVM, PhD, Assistant Professor in Veterinary Anaesthesia, School of Veterinary Medicine, Aristotle University of Thessaloniki)
- Tilemahos Anagnostou (DVM, PhD, Lecturer in Veterinary Anaesthesia and Intensive Care, School of Veterinary Medicine, Aristotle University of Thessaloniki)
- Evanthia Petridou (DVM, PhD, Lecturer of Microbiology, and Infectious Diseases, School of Veterinary Medicine, Aristotle University of Thessaloniki)
- Marios Georgiadis (Lecturer of Epidemiology, School of Veterinary Medicine, Aristotle University of Thessaloniki)
- Ismini Dontas (DVM, PhD, Associate Professor Laboratory of Experimental Surgery, School of Medicine, University of Athens)
- Katerina Marinou (BVMS, MVM, Greek Ministry of Rural Development and Food, Foot and Mouth Diseases Institute)
- Cory Brayton (D.V.M. Diplomate, ACLAM, ACVP Director, Phenotyping Core Associate Professor, Molecular and Comparative Pathobiology Johns Hopkins University, School of Medicine, Baltimore, USA)

## In - house lecturers:

- Marie Kamber (*DVM, PhD, Head of Animal Facilities, Course coordinator*)
- Eleni Makrinou (*PhD, Geneticist, Institute of Immunology*)
- Eleni Douni (*PhD, Researcher of the Institute of Immunology, Scientific Supervisor of Animal Facilities*)
- Maria Alexiou (*PhD, Transgenics of Gene Targeting Facility Coordinator Institute of Immunology*)
- Eumorphia Remboutsika (*PhD, Researcher Stem Cell Biology Laboratory Institute of Molecular Biology and Genetics*)
- Dimitris L. Kontoyiannis (*PhD, Researcher of the Institute of Immunology, Scientific Supervisor of Transgenesis unit*)
- Vassilis Aidinis (*PhD, Researcher of the Institute of Immunology*)
- Michalis Zouberakis (*MSc, MMdb Development Team*)
- Christina Chandras (*PhD, MMdb Development Team*)

## COURSE ATTENDANCE AND CERTIFICATE

**Course Free:** euro 600 + VAT (course material and lunches included)

The maximum number of participants is 30. Registration is based on a «first come, first serve» basis.

As part of the course all participants will be asked to prepare and present an experimental protocol, find the strong and weak points of a given scientific article and finally pass through a written examination in order to obtain the attendance certificate. According to Revised European Directive this certificate is obligatory for every scientist whose research involves laboratory animals (FELASA category C).

For information and application forms, please contact:

**Marie Kamber, DVM**

Head of animal facility

BSRC Alexander Fleming

34 Alexander Fleming str.

16672, Vari

Greece

Tel. +30 210 9656310

Fax: +30 210 9656563

E-mail: [kamber@fleming.gr](mailto:kamber@fleming.gr)

Web: <http://www.fleming.gr>

# WEEK 1

## MONDAY SEPTEMBER 22

09.00-10.30	Introduction Lab. Animal Science	V. Baumans
10.45-12.15	Video & ethical discussion	V. Baumans V. Baumans, H. Blom
12.15-13.15	Lunch break	
13.15-14.45	International legislation	H. Blom
14.45-16.15	From brainwave to publication: adm. constraints or quality assurance	H. Blom
16.30-17.30	Preparation protocol, analysis scientific paper(introduction)	V. Baumans H. Blom

## TUESDAY SEPTEMBER 23

09.00-10.30	Welfare and experimental procedures	V. Baumans
10.45-12.15	Welfare and experimental procedures( continued)	
12.15-13.15	Lunch break	
13.15-14.30	Practical training(handling)intro	P. Rooymans, V. Baumans, H. Blom
14.30-16.30	Practical training(handling)	P. Rooymans, V. Baumans, H. Blom
16.45-	Preparation protocol/selfstudy	

## WEDNESDAY SEPTEMBER 24

09.00-10.30	Statistics+methodology I	M. Georgiadis
10.45-13.00	Statistics+methodology II	M. Georgiadis
13.00-14.00	Lunch break	
14.00-15.30	Statistics	M. Georgiadis
15.30-17.45	Practical training (handling)	P. Rooymans, V. Baumans, H. Blom
17.45-	Preparation protocol/selfstudy	

## THURSDAY SEPTEMBER 25

09.00-10.30	Nutrition	J. Meijer
10.45-12.00	Breeding laboratory rodents	K. Pritchett
12.00-13.00	Lunch break	
13.00-15.00	Demo experimental techniques	P. Rooymans, V. Baumans, H. Blom
15.00-15.45	Preparation protocol/selfstudy Practical handling	P. Rooymans, V. Baumans, H. Blom
15.45-16.30	Preparation protocol/selfstudy Practical handling	P. Rooymans, V. Baumans H. Blom
16.45-	Preparation protocol/selfstudy	

## FRIDAY SEPTEMBER 26

09.00-10.00	Practical training(techniques)intro	P. Rooymans, V. Baumans, H. Blom
10.15-13.00	Practical training(techniques) Preparation protocol/selfstudy	P. Rooymans, V. Baumans, H. Blom
13.00-14.00	Lunch break	
14.00-16.30	Practical training(techniques)	P. Rooymans, V. Baumans, H. Blom
16.45-	Preparation protocol/selfstudy Preparation protocol/selfstudy	





# WEEK 2

## MONDAY SEPTEMBER 29



09.00-10.30	Greek legislation- Ethics: cost/benefits analysis	K. Marinou
10.30-11.30	FELASA health screening-recommendations	E. Petridou
11.30-12.00	Meeting the challenge of LAA	J. Wallace
12.00-13.00	Lunch break	
13.00-14.00	Diseases of laboratory animals	N. Papaioannou
14.00-15.30	Autopsies, tissue sampling	N. Papaioannou
15.30-17.00	Alternatives to animal procedures	I. Dontas
17.00-18.30	Preparation protocol/selfstudy	

## TUESDAY SEPTEMBER 30

09.00-10.15	Genetic standarization	E. Makrinou
10.15-10.50	Forward genetics	E. Douni
10.50-11.25	Basic principles of transgenesis in mouse	D. Kontoyiannis
11.25-12.00	Expression profiling in animal model	V. Aidinis
12.00-13.00	Lunch break	
13.00-13.30	Embryonic Stem Cells	E. Remboutsika
13.30-15.30	Common spontaneous and infectious phenotypes that can impact your research	C. Brayton
15.30-17.00	Clinical Examination, Clinical + Anatomic Pathology	C. Brayton
17.00-18.30	Preparation protocol/selfstudy	

## WEDNESDAY OCTOBER 1

09.00-09.30	Cryopreservation	M. Alexiou
09.30-10.00	Virtual mouse resources	V. Aidinis lab
10.15-11.15	Anaesthesia	I. Sabbas
11.15-12.15	Analgesia	T. Anagnostou
12.15-13.15	Lunch break	
13.15-14.30	Microbiology-Gnotobiology	S. Kritas
14.30-15.15	Methods of humane euthanasia	M. Kamber
15.15-17.00	Preparation of protocol/selfstudy	

## THURSDAY OCTOBER 2

9.00-10.30	Excursion Central Animal Facility Preparation of protocol/selfstudy	M. Kamber
10.45-12.15	Excursion Central Animal Facility Preparation of protocol/selfstudy	M. Kamber
12.15-13.15	Lunch break	
13.15-15.00	Preparation examination	
15.00-17.00	Examination	

## FRIDAY OCTOBER 3

09.00-12.00	Preparation protocol/selfstudy	
13.00-16.30	Presentation protocol	E. Douni, M. Kamber, K.Marinou
16.30-17.00	Refreshments and Farewell party	



# Registration form Course on Laboratory Animal Science (Art. 14 Council Directive 86/609/ EEC)



Name (+ title): first name(s): .....

family name: ..... mr/mrs .....

Work address: .....

.....

Telephone No. .... E-mail address .....

Invoice address (state here to which department, and please give exact address):

.....

BTW / VAT number (not for participants from BSRC Alexander Fleming):

.....

Financial manager: .....

Signature financial manager: .....

Special diet request (for instance vegetarian or free of porc): .....

Country of origin: ..... Date of birth: .....

City/town (and country) of birth: .....

Academic training (please indicate): medicine/(medical)biology/veterinary

medicine/dentistry/other: .....

Legal requirements: in case your academic training has not been one of the four  
aforementioned disciplines, please send us a complete list of all relevant courses  
(including BSc studies) that you followed, and the number of hours they took. Based  
upon this list we'll judge whether you can be registered in the course or not.

Experience with lab animals yes/no, if yes which animals: .....

Degree: ..... Profession: .....

Date: ..... Signature: .....

The maximum number of participants is 30.

Registration is based on "first come, first served" basis.

**IMPORTANT:** the course fee is 600 € plus VAT (course material and lunches included). Full refund of the course fee will only be made in case of cancelling more than 2 weeks before commencement of the course. In case of cancelling on a later date or no-show €150 will be invoiced. Participants and their financial managers agree with this arrangement by signing the registration form.

For registration, please complete this form and send to: Marie Kamber, BSRC Alexander Fleming, 34 Alexander Fleming str., Box 16672, Vari, fax no. +30 210 9656563 or +30 210 8979198.

**Please make sure that all sections are completed. Incomplete forms will be returned to sender.**



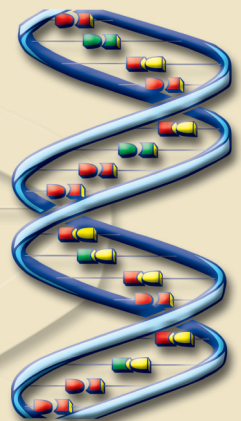
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The Institute is located in Vari,  
about 15 km south of Athens.

In our web site [www.fleming.gr](http://www.fleming.gr),  
click on "Maps & Directions",  
you can find driving directions by car.

Otherwise, you can use [DriveMe.gr](http://DriveMe.gr)  
to get dynamic directions.



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