



"ALEXANDER FLEMING"
Biomedical Sciences Research Center

6th LAS MODULES COURSE

July 06-10, 2026

*BSRC "Alexander Fleming"
Vari, Greece*

In line with the "Common Education and Training Framework of EU, fulfilling the requirements under the Directive 2010/63/EU"

SUPPORTED BY:



InfrafrontierGR/PHENOTYPOS

**FOR MORE
INFORMATION:**

BSRC Animal House
www.animalfacility.eu



Co-financed by Greece and the European Union





COURSE INFORMATION

Course objectives

- A five-day intensive Course on laboratory animal science (LAS) is organized at the BSRC “Alexander Fleming”, in July 2026. The Course content includes the **Core Modules** and the **Functions A, B, C, D Specific Modules**, plus the additional **Task Specific Module 20**, as described in the Commission “Working Document on the development of a common education and training framework to fulfil the requirements under the Directive 2010/63/EU”. The Modules represent the basic training for all personnel performing any of the Functions A-D of Article 23 (Directive 2010/63/EU) and Article 22 (P.D. 56/2013, national legislation). Completion of all Core Modules and Functions A, B, C, D Specific Modules is compulsory for staff performing procedures on animals (function A), designing procedures and projects (function B), taking care of animals (function C) or killing animals (function D). The theoretical component will be delivered live online via **webinar** (06–08 July 2026), followed by practical training conducted **on-site** at BSRC “Alexander Fleming” (09–10 July 2026).

Applications

- Applications are accepted by filling the online registration form but may close earlier if maximum capacity is reached. Registration form can be found following the link: <https://forms.gle/qqWSVYRnfj4uFtda6>
- Registration deadline:
 - 25/05/2026 for BSRC “Alexander Fleming” internal users
 - 25/06/2026 for external users (registration fee: 50-200€)



COURSE INFORMATION

Specific Modules

- Participants may attend specific Modules upon request, via the registration form.
 - **Core Modules**, July 06-07, 2026 (exams: July 08, 2026)
 - Registration fee: 50€
 - **Function B**, July 06-08, 2026 (exams: July 08, 2026)
 - Registration fee: 100€
 - **Functions A, C and D**, July 06-07 and 09-10, 2026 (exams: July 08 and 10, 2026)
 - Registration fee: 150€
 - **Functions A, B, C and D**, July 06-10, 2026 (exams: July 08 and 10, 2026)
 - Registration fee: 200€
- For **Function B**, participants should hold an **academic degree** or equivalent in an appropriate scientific discipline.

Assessment

- Full attendance is mandatory. Participants will be assessed through a multiple-choice exam upon Course (lectures) completion and hands-on assessment upon practical skills sessions completion. A pass-mark of 60% is required as an acceptable standard.

Certification

- Course certificates are issued after full attendance and a pass-mark of 60% minimum.



MODULES

Core Modules – Functions A, B, C & D

Module 1: National legislation

Module 2: Ethics, animal welfare and the Three Rs (level 1)

Module 3.1: Basic and appropriate biology – species specific (theory)

Module 4: Animal care, health and management – species specific

Module 5: Recognition of pain, suffering and distress – species specific

Module 6.1: Humane methods of killing (theory)

Function Specific (Prerequisite) Modules - Function A

Module 3.2: Basic and appropriate biology – species specific (practical)

Module 7: Minimally invasive procedures without anaesthesia – species specific (theory)

Module 8: Minimally invasive procedures without anaesthesia – species specific (skills)



MODULES

Function Specific (Prerequisite) Modules - Function B

Module 7: Minimally invasive procedures without anaesthesia – species specific (theory)

Module 9: Ethics, animal welfare and the Three Rs (level 2)

Module 10: Design of procedures and projects (level 1)

Module 11: Design of procedures and projects (level 2)

Function Specific (Prerequisite) Modules - Function C

Module 3.2: Basic and appropriate biology – species specific (practical)

Function Specific (Prerequisite) Modules - Function D

Module 3.2: Basic and appropriate biology – species specific (practical)

Module 6.2: Humane methods of killing (skills)

Additional Task Specific Modules

Module 20: Anaesthesia for minor procedures



COURSE PROGRAM

DAY 1 - WEBINAR

Monday 06.07.2026

Title	Speaker	Module	Time
Welcome, Introduction	V. Ntafis		09:30-09:40
EU - National Legislation	K. Marinou	1	09:40-10:20
Project authorization - Application	P. Andriopoulos	1	10:20-10:50
Ethics, animal welfare and the Three Rs	A. Papalois	2	10:50-11:20
<i>Coffee break</i>			
Severity assessment and humane endpoints	A. Zacharioudaki	2, 5	11:45-12:30
Mouse anatomy and physiology	A. Tsingotjidou	3.1	12:30-13:00
Mouse behaviour and enrichment	E. Georganta	3.1, 4, 5	13:00-13:30
<i>Lunch break</i>			
Handling laboratory mice	G. Notaras	3.1, 4	14:30-14:45
Breeding laboratory mice	K. Bavela	3.1, 4	14:45-15:15
Animal identification	A. Klavdianos	3.1, 4	15:15-15:30
Animal transport	O. Graphou	3.1, 4	15:30-15:45
<i>Coffee break</i>			
Genetically altered / modified animals - transgenesis	K. Bozonelos	3.1, 4	16:00-16:30
Genetically altered / modified animals in research	M. Armaka	4	16:30-17:00



COURSE PROGRAM

DAY 2 - WEBINAR

Tuesday 07.07.2026

Title	Speaker	Module	Time
Husbandry of laboratory mice	A. Neri	4	09:30-10:15
Health monitoring	V. Ntafis	4	10:15-11:00
<i>Coffee break</i>			
Welfare assessment and monitoring	P. Lelovas	5	11:30-12:00
Anaesthesia - Analgesia	M. Katsimpoulas	5	12:00-12:30
Humane methods of killing	M. Dragolia	6.1	12:30-13:00
<i>Lunch break</i>			
Animal facilities and human health hazards	V. Ntafis	3.1, 4	14:00-14:20
How may the experimental outcome be affected?	V. Koliaraki	2, 3.1, 4	14:20-14:50
PREPARE - ARRIVE guidelines and 3Rs related sources of information	E. Fragkiadaki	2	14:50-15:20
<i>Coffee break</i>			
Routes of administration - techniques (T)	G. Notaras	7	15:30-16:00
Collection of blood, body fluids and excreta (T)	A. Klavdianos	7	16:00-16:30
Mouse Anaesthesia for minor procedures	V. Ntafis	20	16:30-17:00



COURSE PROGRAM

DAY 3 - WEBINAR

Wednesday 08.07.2026

Title	Speaker	Module	Time
Biostatistics I	P. Moulos	10	09:30-10:15
Biostatistics II	M. Reczko	10	10:15-11:00
Experimental design	C. Nikolaou	11	11:00-11:30
<i>Coffee break</i>			
Animal welfare and stress	K. Ninou	7, 11	11:45-12:15
Ethics and harm/benefit analysis	V. Ntafis	9	12:15-13:00
Legal issues and responsibilities	T. Kosteas	11	13:00-13:30
<i>Lunch break</i>			
Good scientific practice	C. Bekiari	7, 11	14:30-15:00
Implementing the 3Rs	V. Ntafis	9, 11	15:00-15:30
Communicating information to establishments' personnel and the public	M. Tsoutsou	9	15:30-16:00
<i>Coffee break</i>			
Exams			16:15-17:00
Closing remarks	V. Ntafis		17:00-17:10



COURSE PROGRAM

DAY 4

Thursday 09.07.2026

Title	Speaker	Module	Time
Welcome, Introduction	V. Ntafis		09:00-09:10
Mouse techniques (T)	V. Ntafis	7	09:10-09:30
Mouse handling and restraint techniques (S)	Animal House*	3.2, 8	09:30-11:30
Subcutaneous- Intraperitoneal injections (S)	Animal House*	8	11:30-13:30
Lunch break			
Intravenous injections – Oral gavage (S)	Animal House*	8	15:00-16:00
Collection of body fluids and excreta (S)	Animal House*	8	16:00-17:00

(T): Theory

(S): Skills - practical

Animal House*: Trainees are assigned to groups (up to 5 trainees per group). A member of the Animal House (M. Dragolia, A. Klavdianos, G. Notaras, K. Ninou, V. Ntafis) will be in charge of the practical training of each group.



COURSE PROGRAM

DAY 5

Friday 10.07.2026

Title	Speaker	Module	Time
Blood collection (S)	Animal House*	8	09:00-10:30
Mouse anaesthesia (S)	Animal House*	8, 20	10:30-12:00
Humane methods of killing (S)	Animal House*	6.2	12:00-13:00
Lunch break			
Exams - Skills	Animal House*		14:30-16:45
Closing remarks	V. Ntafis		16:45-17:00

(T): Theory

(S): Skills - practical

Animal House*: Trainees are assigned to groups (up to 5 trainees per group). A member of the Animal House (M. Dragolia, A. Klavdianos, G. Notaras, K. Ninou, V. Ntafis) will be in charge of the practical training of each group.



SPEAKERS

INVITED SPEAKERS

- **Panagiotis Andriopoulos**, DVM, MSc, Directorate of Agricultural and Veterinary Policy, Region of Attica.
- **Chryssa Bekiari**, Assistant Professor, Lab. of Anatomy, Histology and Embryology, School of Veterinary Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki.
- **Eirini Fragkiadaki**, DVM, MSc, PhD, Staff Scientist B', Head-Designated Veterinarian, Dep. Animal Models for Biomedical Research, Hellenic Pasteur Institute.
- **Olga Graphou**, MSc, Lab & Lab Animal Resources manager, Biomedcode S.A.
- **Michalis Katsimpoulas**, DVM, PhD, Researcher B' - Associate Professor, Experimental Surgery, Regenerative Medicine and Preclinical Research, Experimental Surgical Unit, Center of Clinical, Experimental Surgery and Translational Research, Biomedical Research Foundation of the Academy of Athens.
- **Pavlos Lelovas**, DVM, MSc, PhD, Designated Veterinarian, Laboratory of Experimental Surgery & Surgical Research "N. S. Christeas" School of Medicine, National and Kapodistrian University of Athens.
- **Katerina Marinou**, DVM, MVM, PhD, Head of Directorate of Animal Welfare, Veterinary Drugs and Veterinary Applications, General Directorate of Veterinary Services, Greek Ministry of Rural Development and Food.
- **Anna Aikaterini Neri**, DVM, PhD, Designated Veterinarian at Laboratory for the Research of Musculoskeletal System "Th. Garofalidis", KAT Hospital, School of Medicine, National and Kapodistrian University of Athens, Laboratory of Pharmaceutical Technology (Research Unit of Dermatopharmacology-Cosmetology), Department of Pharmacy, School of Health Sciences, National and Kapodistrian University of Athens, and Provet SA..
- **Apostolos E. Papalois**, Biologist, PhD, Coordinator for the Course of "Medical Bioethics", Master Program, O.U.Cyprus, Member of Educational Scientific Council, of the National Committee for Research, Technology and Innovation, Member of the National Committee for the use of animals for Scientific Purposes. Director, Translational Research and Education, HEAL Academy, Hellenic Healthcare Group. President Scientific Council, Special Unit for Biomedical Research and Education, School of Medicine, Aristotle University of Thessaloniki.
- **Anastasia Tsingotjidou**, Associate Professor, Lab. of Anatomy, Histology and Embryology, School of Veterinary Medicine, Faculty of Health Sciences, Aristotle University of Thessaloniki.
- **Maria Anna Tsoutsou**, Maria-Anna Tsoutsou, DVM, MLAS, Director, Animal Reseach Facility, Athens LifeTech Park.
- **Argyro Zacharioudaki**, DVM, MLAS, DipIECLAM, Designated Veterinarian & In-vivo Research Consultant, BIOEMTECH Laboratories.



SPEAKERS

BSRC "ALEXANDER FLEMING"

- **Marietta Armaka**, Affiliated Researcher, Institute for Fundamental Biomedical Research, BSRC "Alexander Fleming". Assistant Professor, School of Biology, Faculty of Sciences, Aristotle University of Thessaloniki.
- **Katerina Bavela**, Medical Laboratory Technician, Transgenics Facility/Cryo-unit, BSRC "Alexander Fleming".
- **Konstantinos Bozonelos**, MSc, Operations Manager, Transgenics Facility/Cryo-unit, BSRC "Alexander Fleming".
- **Melina Dragolia**, MSc, Research Assistant, Animal Facilities, BSRC "Alexander Fleming".
- **Eirini Georganta**, PhD, Postdoctoral Researcher, In charge of the Behavioral Phenotyping Unit, BSRC "Alexander Fleming".
- **Anastatios Klavdianos**, Animal Scientist, Technician, Animal Facilities, BSRC "Alexander Fleming".
- **Vasiliki Koliaraki**, Researcher B', Institute for Fundamental Biomedical Research, BSRC "Alexander Fleming".
- **Panagiotis Moulos**, Researcher B', Institute for Fundamental Biomedical Research, BSRC "Alexander Fleming".
- **Christoforos Nikolaou**, Researcher B', Institute for Bioinnovation, BSRC "Alexander Fleming".
- **Konstantina Ninou**, Lab Animal Technician, Animal Facilities, BSRC "Alexander Fleming".
- **Giorgos Notaras**, Medical Laboratory Technician, Lab Animal Technician, Animal Facilities, BSRC "Alexander Fleming".
- **Vasileios Ntafis**, DVM, MSc, PhD, Staff Scientist A', Head-Designated Veterinarian, Animal Facilities, BSRC "Alexander Fleming".
- **Martin Reczko**, Staff Scientist A', Institute for Fundamental Biomedical Research, BSRC "Alexander Fleming".

Course Organizer

Vasileios Ntafis

DVM, MSc, PhD

Head-Animal Facilities

BSRC “Alexander Fleming”

