



## VIII MODULAR TRAINING IN LABORATORY ANIMAL SCIENCE MOUSE AND RAT

11-22<sup>nd</sup> November & 16-19<sup>th</sup> December 2024, Coimbra

The Coimbra Institute for Clinical and Biomedical Research (iCBR) and the Center for Neuroscience and Cell Biology (CNC) are pleased to host the "VIII Modular Training in Laboratory Animal Course" from November 11<sup>th</sup> to 22<sup>nd</sup>, 2024 (Function A and B) and from December 16<sup>th</sup> to 19<sup>th</sup> 2024 (Special Skills).

The course follows the guidelines of the European Commission regarding training in laboratory animal sciences. This approach recognizes that training should be correlated with needs. Participants can select the functions or modules that meet their requirements.

The course is mainly intended for applicants who wish to apply for National Accreditation (Directorate General of Food and Veterinary - DGAV), but also to those who wish to acquire basic theoretical knowledge on the area of Laboratory Animal Sciences.

Theoretical classes, scheduled to occur between November 11<sup>th</sup> to 22<sup>nd</sup>, 2024 (Function A and B) will be held at iCBR auditorium, and from December 16<sup>th</sup> to 19<sup>th</sup> 2024 (Special Skills), will be held at CNC auditorium (FMUC, polo I, 2<sup>nd</sup> floor).

Practical classes will be performed in the animal facilities of the CNC (Mice), iCBR (Rats) and ICNAS according to the schedule presented below. For these classes trainees will be subdivided into groups, according to date of registration and training modality.

## TRAINING MODALITIES

	Training aim	Modules to take	Notes	Price
Function a)	Carrying out minor procedures on animals	Modules 1, 2, 3.1, 3.2, 4, 5, 6, 7, 8 and 6.2	Persons with just this training are not authorized to perform procedures requiring anaesthesia.	400 €
Function b)	Designing procedures and projects	Modules 1, 2, 3.1, 4, 5, 6.1, 7, 9, 10, 11,12	Persons with this training are not authorized to perform procedures	550 €
Function c)	Taking care of animals	Modules 1, 2, 3.1, 3.2, 4, 5, 6.1 and 6.2	Animal Caretakers. Researchers interested only on tissue collection.	300 €
Portuguese Legislation		Module 1	Specific module for persons with foreign training	75 €
Special Skills	Carrying out procedures with anaesthesia or surgery	Module 20-22 + practicals	For researchers already authorized to perform minor procedures	350€
Function a) + b)	Carrying out minor procedures on animals and Designing projects	Modules 1, 2, 3.1, 3.2, 4, 5, 6.1, 7, 8, 9, 10, 11 and 6.2	Persons with this training are not authorized to perform procedures requiring anaesthesia.	700 €
Function a) + Special Skills	Carrying out all types of procedures on animals	Modules 1, 2, 3.1, 3.2, 4, 5, 6.1, 6.2, 7, 8 , 20, 21, 22 and practicals	Equivalent to FELASA B training	600€
Function a) + b) + Special Skills	Carrying out and designing all types of procedures on animals	Modules 1, 2, 3.1, 3.2, 4, 5, 6.1, 6.2, 7, 8, 9, 10, 11, 20, 21, 22 and practicals	Equivalent to FELASA C training	850 €
Function a) theory	To fulfil Master and PhD programs objectives, first contact with LAS	Modules 1, 2, 3.1, 4, 5, 6.1, 7	Theoretical knowledge certificate. May be completed with Function a) practicals at any time	100 €
Function a) + Special Skills (theory)	To fulfil Master programs objectives, first contact with LAS	Modules 1, 2, 3.1, , 4, 5, 6.1, 7, 20, 21 and 22	Theoretical knowledge certificate. May be completed with Function a) + Special skills practicals at any time	150 €
Function a) + b) + Special Skills (theory)	To fulfil the goals of doctoral programs, gain an in-depth understanding of animal research results	Modules 1, 2, 3.1, , 4, 5, 6.1, 7, 9, 10, 11, 12, 20, 21 and 22	Theoretical knowledge certificate. May be completed with Function a) + b) and Special skills practicals at any time	400€
Function a) (practicals)	Carrying out minor procedures on animals	Modules 3.2, 6.2 and 8	These modules can only be taken after theoretical evaluation	300 €
Function a) + Special Skills (practicals)	Carrying out all types of procedures	Modules 3.2, 6.2, 8, 20-22	These modules can only be taken after theoretical evaluation	450 €

## COURSE RULES

### ASSIDUITY

Positive evaluation on the desired function (or specific modules, such as Portuguese Legislation and Special Skills) is dependent on the frequency of 85% and 100% of the time of the theoretical and practical classes of each module, respectively.

## EVALUATION METHOD

Training certification of the desired function (or specific modules, such as Portuguese Legislation and Special Skills) is dependent on assiduity and positive evaluation.

- 1) The theoretical evaluation of modules 1, 2, 3.1, 4, 5, 6.1 and 7, 9, 10, 11 and 12 and 20, 21 and 22 is done through written test. In case of fail, the student is required to complete a new test in the second call. Students will have 5 working days after evaluation to request, by email, the viewing of the written test corrections.
- 2) The frequency of the practical classes of modules 3.2, 6.2, 8 and 20, will only be allowed, after positive evaluation on the written test of modules 1, 2, 3.1, 4, 5, 6.1, 7 and 20. The practical evaluation is done during the practical classes. Positive evaluation is achieved if the student reaches all previously established and communicated objectives.
- 3) The frequency of the practical classes of modules 21-22 will only be allowed, after positive evaluation on the written test of modules 21-22. The practical evaluation is done during the practical classes. Positive evaluation is achieved if the student reaches all previously established and communicated objectives.
- 4) Modules 9-12 practical evaluation is done through a written group project to be delivered until 6<sup>th</sup> January 2025. Students will have 5 working days after evaluation to request, by email, the viewing of the written corrections.
- 5) The final evaluation will be communicated to the students within 21 working days after the end of the course (theoretical and practical classes). The students will then have 5 working days to contest the evaluation. The request must be made to the organization's email.

## REGISTRATIONS

- 1) The VIII MLAS is limited to 60 participants in total. Registrations will start on October 1<sup>st</sup> and close on October 27<sup>th</sup> 2024.
- 2) Practical training is limited to 30 participants in the time frame of the course. Due to the reduced number of vacancies for the practical training only applicants that demonstrate necessity of training – will develop animal research in the next 6 months - will be regarded as candidates. For that purpose, a declaration of proof of necessity, to be filled by the trainee supervisor/PI, is included in the application form. The remainder candidates may pursue practical certification at latter time points.
- 3) Please fill the registration form bellow and sent it to: [pccrmota@cnc.uc.pt](mailto:pccrmota@cnc.uc.pt). Applications will only be considered accepted after approval by the course coordinators.

## TRAINERS

Carmen Semião – CNC, Coimbra  
Daniela Talhada – CNC, Coimbra  
Francisco Caramelo – FMUC, Coimbra  
Joana Bom – Fundação Gulbenkian, Lisboa  
José Sereno – ICNAS, Coimbra  
Nuno Franco – i3S, Porto  
Paul Flecknell – Flaire Consultants, Newcastle, England  
Paula Mota – CNC, Coimbra

## COURSE COORDINATION

Paula Mota  
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Tel: +351 969387005

Susana Barroso  
[susana.barroso@uc.pt](mailto:susana.barroso@uc.pt)  
tel: +351 969195046

# VII Modular Structure training in Laboratory Animal Science

## Course Application Form

REGISTRATION and PAYMENT DEADLINE – October 23<sup>rd</sup> 2023

### GENERAL INFORMATION

Name \_\_\_\_\_

Address \_\_\_\_\_

NIF \_\_\_\_\_

Email \_\_\_\_\_

Cell Phone \_\_\_\_\_

Degree \_\_\_\_\_ Current Position \_\_\_\_\_

Group \_\_\_\_\_

Previous training/experience in Laboratory Animal Science \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### PAYMENT DETAILS

Payment will be through institutional/company resources? If Yes state the name of the institution/company

\_\_\_\_\_

Address \_\_\_\_\_

NIF \_\_\_\_\_

*The Centre for Neuroscience and Cell biology (CNC) is responsible for the collection and processing of personal data out of respect for the privacy and integrity of the personal data of its employees and partners in compliance with the rules on personal data protection in force, with particular acuity the Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of individuals with regard to the processing of personal data and on the free movement of such data-RGPD-in effect full since 25 may 2018.*

## TRAINING MODALITIES

	Training aim	Modules to take	Notes	Price	Please tick the option required
Function a)	Carrying out minor procedures on animals	Modules 1, 2, 3.1, 3.2, 4, 5, 6, 7, 8 and 6.2	Persons with just this training are not authorized to perform procedures requiring anaesthesia.	400 €	#
Function b)	Designing procedures and projects	Modules 1, 2, 3.1, 4, 5, 6.1, 7, 9, 10, 11	Persons with this training are not authorized to perform procedures	550 €	
Function c)	Taking care of animals	Modules 1, 2, 3.1, 3.2, 4, 5, 6.1 and 6.2	Animal Caretakers. Researchers interested only on tissue collection.	300 €	
Portuguese Legislation	Specific module for persons with foreign FELASA B or C training who which to have DGAV authorization	Module 1	Specific module for persons with foreign training	75 €	
Special Skills	Carrying out procedures with anaesthesia or surgery	Module 20-22 + practicals (needs previous certification on Function A)	For researchers already authorized to perform minor procedures	350€	#
Function a) + b)	Carrying out minor procedures on animals and Designing projects	Modules 1, 2, 3.1, 3.2, 4, 5, 6.1, 7, 8, 9, 10, 11 and 6.2	Persons with this training are not authorized to perform procedures requiring anaesthesia.	700 €	#
Function a) + Special Skills	Equivalent to FELASA B training	Modules 1, 2, 3.1, 3.2, 4, 5, 6.1, 6.2, 7, 8, 20, 21, 22 and practicals	Equivalent to FELASA B training	600€	#
Function a) + b) + Special Skills	Equivalent to FELASA C training	Modules 1, 2, 3.1, 3.2, 4, 5, 6.1, 6.2, 7, 8, 9, 10, 11, 20, 21, 22 and practicals	Equivalent to FELASA C training	850 €	#
Function a) theory	To fulfil Master and PhD programs objectives, first contact with LAS	Modules 1, 2, 3.1, 4, 5, 6.1, 7	Theoretical knowledge certificate. May be completed with Function a) practicals at any time	100 €	
Function a) + Special Skills (theory)	To fulfil Master and PhD programs objectives, first contact with LAS	Modules 1, 2, 3.1, , 4, 5, 6.1, 7, 20, 21 and 22	Theoretical knowledge certificate. May be completed with Function a) + Special skills practicals at any time	150 €	
Function a) + b) + Special Skills (theory)	To fulfill the goals of doctoral programs, gain an in-depth understanding of animal research results	Modules 1, 2, 3.1, , 4, 5, 6.1, 7, 9, 10, 11, 12, 20, 21 and 22	Theoretical knowledge certificate. May be completed with Function a) + b) and Special skills practicals at any time	400€	
Function a) (practicals)	Carrying out minor procedures on animals	Modules 3.2, 6.2 and 8	These modules can only be taken after theoretical evaluation	300 €	#
Function a) + Special Skills (practicals)	Carrying out procedures involving anaesthesia or surgery on animals	Modules 3.2, 6.2, 8, 20-22	These modules can only be taken after theoretical evaluation	450 €	#



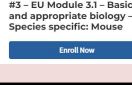
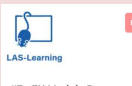
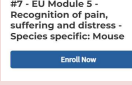
**# Please fill the following section if you registered in these training modalities**




I \_\_\_\_\_(PI/Supervisor), hereby declare  
that \_\_\_\_\_(Trainee) will be working under my practical  
supervision and will need to manipulate alive laboratory animals within the next 6 months.

Date\_\_\_\_\_ Signature\_\_\_\_\_



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**THEORETICAL CLASSES SCHEDULE**

Time	Monday_11th Nov	Tuesday_12th Nov	Wednesday_13th Nov	Thursday_14th Nov	Friday_15th Nov
09:00	Welcome	<b>Module 2:</b> Ethics in animal research 	<b>Module 4:</b> Animal care, health and management	<b>Module 7:</b> Minimally invasive procedures without anaesthesia	<b>Module 3:</b> Basic biology, handling and welfare (e-learning)
09:15					
09:30	<b>Module 1:</b> National and European Legislation	#1 - EU Module 2 - Ethics, Animal Welfare and the Three Rs - Level 1	Coffee break	Coffee break	
09:45					
10:00	Coffee break	Coffee break	Coffee break	Coffee break	#3 - EU Module 3 - Basic and appropriate biology - Species specific: Mouse <a href="#">Enroll Now</a>
10:15					
10:30	<b>Module 1:</b> Procedures and Humane endpoints	<b>Module 3:</b> Basic biology, handling and welfare	<b>Module 4:</b> Animal care, health and management	<b>Module 7:</b> Minimally invasive procedures without anaesthesia	
10:45					
11:00	Lunch	Lunch	Lunch	Lunch	Enroll Now
11:15					
11:30	Lunch	Lunch	Lunch	Lunch	Enroll Now
11:45					
12:00	Lunch	Lunch	Lunch	Lunch	Enroll Now
12:15					
12:30	Lunch	Lunch	Lunch	Lunch	Enroll Now
12:45					
13:00	Lunch	Lunch	Lunch	Lunch	Enroll Now
13:15					
13:30	Lunch	Lunch	Lunch	Lunch	Enroll Now
13:45					
14:00	<b>Module 2:</b> Ethics in animal research	<b>Module 3:</b> Basic biology, handling and welfare	<b>Module 5:</b> Recognising, assessing and preventing pain and distress (part 1)	<b>Module 6.2 and 20:</b> Anaesthesia for minor procedures and humane euthanasia	<b>Module 5:</b> Recognising, assessing and preventing pain and distress (e-learning)
14:15					
14:30	Coffee break	Coffee break	Coffee break	Coffee break	
14:45					
15:00	<b>Module 2:</b> Ethics in animal research	<b>Module 3:</b> Basic biology, handling and welfare	<b>Module 5:</b> Recognising, assessing and preventing pain and distress (part 1)	<b>Module 6.2 and 20:</b> Anaesthesia for minor procedures and humane euthanasia	#7 - EU Module 5 - Recognition of pain, suffering and distress - Species specific: Mouse <a href="#">Enroll Now</a>
15:15					
15:30	Coffee break	Coffee break	Coffee break	Coffee break	
15:45					
16:00	<b>Module 2:</b> Ethics in animal research	<b>Module 3:</b> Basic biology, handling and welfare	<b>Module 5:</b> Recognising, assessing and preventing pain and distress (part 1)	<b>Module 6.2 and 20:</b> Anaesthesia for minor procedures and humane euthanasia	<a href="#">Enroll Now</a>
16:15					
16:30	Coffee break	Coffee break	Coffee break	Coffee break	<a href="#">Enroll Now</a>
16:45					
17:00					
17:15					
17:30					
17:45					

Time	Monday_18th Nov	Tuesday_19th Nov	Wednesday_20th Nov	Thursday_21st Nov	Friday_22nd Nov	Exame de recurso
09:30	<b>Module 10:</b> Design of procedures and projects (level 1 - e-learning)	<b>Practical:</b> Design of procedures and projects (level 1 and 2)	<b>Module 9:</b> Ethics, animal welfare and the Three Rs (level 2)			Exame de recurso
09:45						
10:00		Coffee break	Coffee break			Exame de recurso / Recall examination - December 19th
10:15						
10:30	EU-10: Design of procedures and projects - level 1	<b>Practical:</b> Design of procedures and projects (level 1 and 2)	<b>Module 12:</b> Severity assessment		Evaluation modules 1, 2, 3.1, 4, 5, 6.1, 7 and 20	
10:45						
11:00	EU-10: Design of procedures and projects - level 1	Lunch	Lunch		Lunch	
11:15						
11:30	EU-10: Design of procedures and projects - level 1	Lunch	Lunch		Lunch	
11:45						
12:00	<b>Module 11:</b> Design of procedures and projects (level 2 - e-learning)	<b>Module 10:</b> Design of procedures and projects (level 1)	<b>Practical:</b> Design of procedures and projects (level 1 and 2)		Evaluation modules 9, 10, 11 and 12	
12:15						
12:30		Coffee break	Coffee break			
12:45						
13:00	EU-11: Design of procedures and projects - level 2	Lunch	Lunch		Lunch	
13:15						
13:30	EU-11: Design of procedures and projects - level 2	Lunch	Lunch		Lunch	
13:45						
14:00	<b>Module 12:</b> Severity assessment e.learning					
14:15						
14:30						
14:45						
15:00	EU-12: The severity assessment Framework					
15:15						
15:30	EU-12: The severity assessment Framework					
15:45						
16:00	EU-12: The severity assessment Framework					
16:15						
16:30	EU-12: The severity assessment Framework					
16:45						
17:00	EU-12: The severity assessment Framework					
17:15						
17:30	EU-12: The severity assessment Framework					
17:45						
18:00	EU-12: The severity assessment Framework					

- Function a)** trainees have to attend to theoretical modules 1, 2, 3.1, 4, 5, 6.1, 7 and practicals (modules 3.2 and 8)
- Function b)** trainees have to attend to theoretical modules 1, 2, 3.1, 4, 5, 6.1, 7, 9, 10, 11, 12
- Function a + b)** trainees have to attend to theoretical modules 1, 2, 3.1, 4, 5, 6.1, 7, 9, 10, 11, 12 and practicals (modules 3.2 and 8)
- Function c)** trainees have to attend to theoretical modules 1, 2, 3.1, 4, 5, 6.1 and practicals (module 3.2)
- Special Skills** trainees have to attend to theoretical modules 20-22 and practicals (modules 21 and 22)

 Mandatory e-learning  
 NON-Mandatory e-learning

## THEORETICAL CLASSES SCHEDULE

Time	Monday_16th Dec	Tuesday_17th Dec	Wednesday_18th Dec	Thursday_19th Dec
09:00	<b>Module 21:</b> Advanced anaesthesia for surgical or prolonged procedures	<b>Module 21:</b> Advanced anaesthesia for surgical or prolonged procedures		Evaluation Modules 21&22
09:15				
09:30				
09:45				
10:00				
10:15				
10:30	Coffee break	Coffee break		Coffee break
10:45	<b>Module 21:</b> Advanced anaesthesia for surgical or prolonged procedures	<b>Module 21:</b> Advanced anaesthesia for surgical or prolonged procedures		Recal exam Modules 9,10,11&12
11:00				
11:15				
11:30				
11:45				
12:00				
12:15	Lunch	Lunch		Lunch
12:30				
12:45				
13:00				
13:15				
13:30				
13:45	<b>Module 21:</b> Advanced anaesthesia for surgical or prolonged procedures	<b>Module 22:</b> Principles of surgery		Recal exam Modules 1,2,3,1,4,5,6,1,7&20
14:00				
14:15				
14:30				
14:45				
15:00				
15:15	Lunch	Lunch		Lunch
15:30				
15:45				
16:00				
16:15				
16:30				
16:45	<b>Module 21:</b> Advanced anaesthesia for surgical or prolonged procedures	<b>Module 22:</b> Principles of surgery		





PRACTICAL CLASSES SCHEDULE - MOUSE

	Function A: 13-16th Jan					Function A: 20-23rd Jan					Function A+SS: 27-31st January						Function A+SS: 3-7th Feb				
	Monday	Tuesday	Wednesday	Friday		Monday	Tuesday	Wednesday	Thursday		Monday	Tuesday	Wednesday	Thursday	Friday		Monday	Tuesday	Wednesday	Thursday	Friday
10:00					10:00					10:00					10:00						
10:15					10:15					10:15					10:15						
10:30					10:30					10:30					10:30						
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16:30					16:30					16:30					16:30						
16:45					16:45					16:45					16:45						

PRACTICAL CLASSES SCHEDULE - MOUSE

	Function A+SS: 3-7th Feb						Function A+SS: 10-14th Feb						Function A+SS: 17-21th Feb						Function A+SS: 24-28th Feb						
	Monday	Tuesday	Wednesday	Thursday	Friday		Monday	Tuesday	Wednesday	Thursday	Friday		Monday	Tuesday	Wednesday	Thursday	Friday		Monday	Tuesday	Wednesday	Thursday	Friday		
10:00						10:00					10:00					10:00					10:00				
10:15						10:15					10:15					10:15					10:15				
10:30						10:30					10:30					10:30					10:30				
10:45						10:45					10:45					10:45					10:45				
11:00		Module 3.2: Basic biology, handling and welfare - Group D1	Module 3.2: Basic biology, handling and welfare - Group D1	Module 8: Minimally invasive procedures without anaesthesia		11:00		Module 3.2: Basic biology, handling and welfare - Group E1	Module 3.2: Basic biology, handling and welfare - Group E1	Module 8: Minimally invasive procedures without anaesthesia		11:00		Module 3.2: Basic biology, handling and welfare - Group E1	Module 3.2: Basic biology, handling and welfare - Group E1	Module 8: Minimally invasive procedures without anaesthesia					11:00		Module 3.2: Basic biology, handling and welfare - Group E1	Module 3.2: Basic biology, handling and welfare - Group E1	Module 8: Minimally invasive procedures without anaesthesia
11:15						11:15					11:15					11:15					11:15				
11:30		Module 3.2: Basic biology, handling and welfare - Group D2	Module 3.2: Basic biology, handling and welfare - Group D2	And Module 6.2: Humane methods of killing and Necropsy - Group D1		11:30		Module 3.2: Basic biology, handling and welfare - Group E2	Module 3.2: Basic biology, handling and welfare - Group E2	And Module 6.2: Humane methods of killing and Necropsy - Group E1		11:30		Module 3.2: Basic biology, handling and welfare - Group E2	Module 3.2: Basic biology, handling and welfare - Group E2	And Module 6.2: Humane methods of killing and Necropsy - Group E1					11:30		Module 3.2: Basic biology, handling and welfare - Group E2	Module 3.2: Basic biology, handling and welfare - Group E2	And Module 6.2: Humane methods of killing and Necropsy - Group E1
11:45						11:45					11:45					11:45					11:45				
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12:30						12:30					12:30					12:30					12:30				
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				Lunch																					
14:00	Module 3.2: Basic biology, handling and welfare - Group D1					14:00	Module 3.2: Basic biology, handling and welfare - Group E1				14:00	Module 3.2: Basic biology, handling and welfare - Group E1				14:00	Module 3.2: Basic biology, handling and welfare - Group E1			14:00	Module 3.2: Basic biology, handling and welfare - Group E1				
14:15						14:15					14:15					14:15					14:15				
14:30	Module 3.2: Basic biology, handling and welfare - Group D2			Module 8: Minimally invasive procedures without anaesthesia	Module 20-21: Advanced anaesthesia for surgical or prolonged procedures - Groups D1+D2	14:30	Module 3.2: Basic biology, handling and welfare - Group E2		Module 8: Minimally invasive procedures without anaesthesia	Module 20-21: Advanced anaesthesia for surgical or prolonged procedures - Groups E1+E2	14:30	Module 3.2: Basic biology, handling and welfare - Group E2		Module 8: Minimally invasive procedures without anaesthesia	Module 20-21: Advanced anaesthesia for surgical or prolonged procedures - Groups E1+E2	14:30	Module 3.2: Basic biology, handling and welfare - Group E2		Module 8: Minimally invasive procedures without anaesthesia	Module 20-21: Advanced anaesthesia for surgical or prolonged procedures - Groups E1+E2	14:30	Module 3.2: Basic biology, handling and welfare - Group E2		Module 8: Minimally invasive procedures without anaesthesia	Module 20-21: Advanced anaesthesia for surgical or prolonged procedures - Groups E1+E2
14:45						14:45					14:45					14:45					14:45				
15:00						15:00					15:00					15:00					15:00				
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