



**Karolinska
Institutet**

Course Certificate

We hereby confirm that **Abbas Salihi** born **19771229** (YYYYMMDD)

has completed the web-based course in Laboratory Animal Science Function A - Rodents and lagomorphs. The course is compulsory for access to continued education in laboratory animal science, or for working in Sweden with animals in research regardless of previous education or competence in laboratory animal science. The course fulfills the learning outcomes of the working document on the development of a common education and training framework to fulfill the requirements under the Directive (2010/63/EU), corresponding to Module 1, 2, 3.1, 3.2, 4, 5, 6.1, 6.2, 7 and 8.

Course Contents

Theory

Authorities and legal purposes	Species specific biology, anatomy and physiology	Physiological effects of handling and restraint
Permits and projects	Housing and transport	Physiological effects of procedures
Procedures and records	Breeding and tagging	Effects of procedures on research results
Ethics and legality	Health and infections	Needles, temperatures and volumes
Ethical arguments	Health assessment and scoring	Performing basic procedures without anaesthesia
Animal welfare	Signs of stress and pain	
3R - Replace, Refine, Reduce	Pain relief and anaesthesia	
	Humane endpoints	
	Species specific euthanasia	

Practicals - Species: Mouse.....

Handling and restraint
Subcutaneous injection
Intraperitoneal injection
Tissue sampling (biopsy)
Blood sampling (superficial vein)
Euthanasia (standard method; gas sedation and/or carbondioxide -confirmation of death with cut circulation)

Approved skills by eligible assessor

Signature: Katarina Eriksson

Name: Katarina Eriksson

Date (yy-mm-dd): 22-02-09

Signature authorized person

NTCO: DAGMAR GALTEA



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