

# FONDAZIONE GUIDO BERNARDINI

BETTER EDUCATION FOR BETTER SCIENCE

## TWO DAY COURSE



credits: 11 points - Royal Society of Biology: 30 credits

1.5 day continuing education for person carrying out procedures on animals and person designing procedures and projects by Swiss Veterinarian Associations

# The Management of Genetically Altered Rodent Colonies

15<sup>th</sup> to 16<sup>th</sup> of June 2017

## OBJECTIVES

The course covers the management of GM rodents from the breeding, husbandry and care and methods to securing genetic material according to the latest views.

The generation of transgenics is not a prime subject of this course.

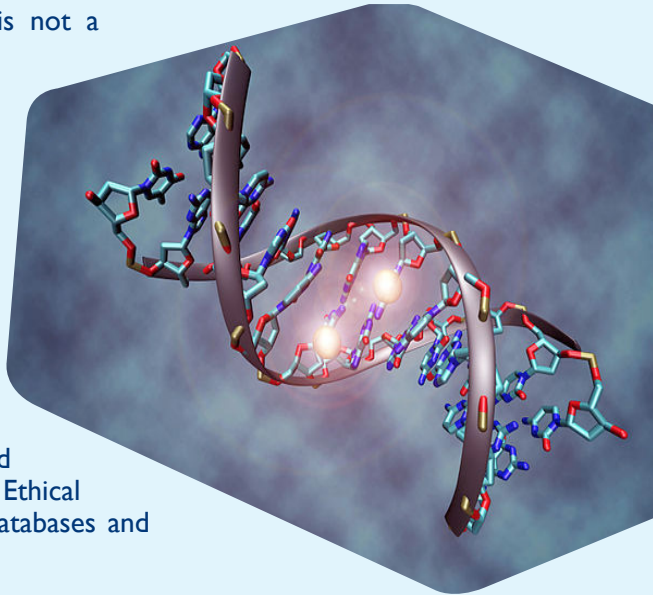
Theoretical and practical views are presented. The programme includes a session where participants are given the opportunity to present one or more cases from their daily practice for discussion with the faculty and the other participants.

## CONTENTS

Colony organisation; Breeding; Animal characterisation and identification; Animal welfare; Ethical considerations; Cryo-banking; Databases and networks.

## TARGET AUDIENCE

Facility managers and supervisors, persons responsible for overseeing the welfare and care of animals, veterinarians, laboratory biologists, senior technicians, GM colony breeding coordinators and managers.



Day 1	<b>Maintenance of GA strains and breeding strategies</b>	Reproduction biology Breeding schemes (appropriate for nucleus, expansion and production colonies) Breeding performance Practical examples from speakers and audience
	<b>Genetic quality of GA rodent colonies</b>	Strains and substrains Genetic background Nomenclature Genetic monitoring Congenic strains
	<b>Colony management, housing, husbandry and care</b>	Housing and care of GA animals Microbiological quality Introduction on animal welfare and ethical considerations Impact of technological advances
	<b>Cryopreservation and assisted breeding techniques</b>	Embryo Sperm Ovary IVF and other assisted breeding techniques Internal vs external services
Day 2	<b>Husbandry solutions for genetically modified rodents</b>	Housing systems Animal care
	<b>Animal identification and tissue sampling</b>	Different techniques: Pros and Cons Available guidelines
	<b>Management of colonies of genetically modified mice: the experience of a research Institute</b>	Characteristics of the facility Organization of husbandry The application of Lean management in the facility Health monitoring programme
	<b>Problems to be discussed with the speakers/other participants</b>	Participants willing to discuss specific problems should communicate the topics two weeks before the course

**To register please visit: [www.fondazioneguidobernardini.org](http://www.fondazioneguidobernardini.org)**

