

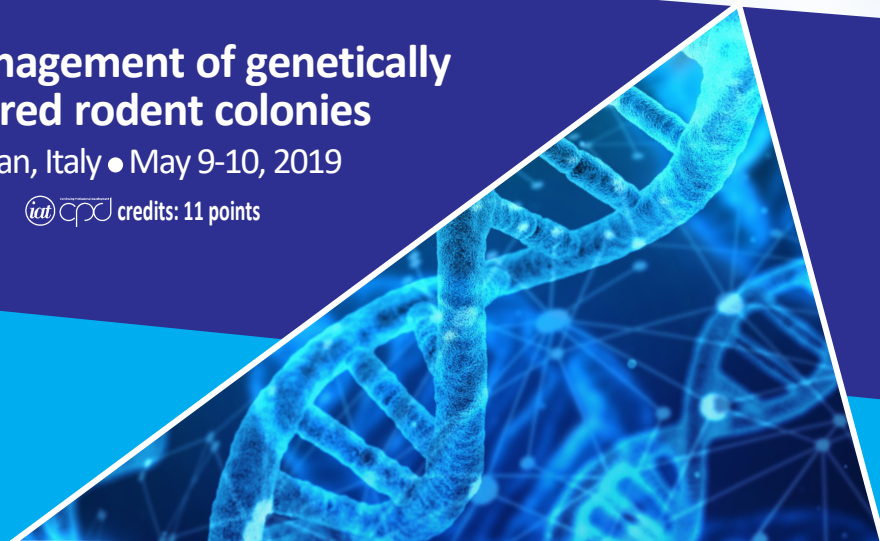


FONDAZIONE GUIDO BERNARDINI  
BETTER EDUCATION FOR BETTER SCIENCE

## Course The management of genetically altered rodent colonies

Milan, Italy • May 9-10, 2019

  credits: 11 points



The course introduces important aspects of managing genetically altered (GA) strains of rodents for breeding and experimental usage. The distinguished speakers will provide the participants with theoretical and practical information on the maintenance of GA strains, breeding strategies, colony management, husbandry best practices and methods to securing genetic material according to the latest views. Animal welfare and ethical aspects will also be considered. The generation of GA rodents is not a prime subject of this course.

A session of the scientific program offers the participants the opportunity to present one or more cases from their practice; the interaction between speakers and attendees encourages the sharing of information and practical experiences from which the attendees can benefit to improve their competence in the daily work.

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

information and registration at: [www.fondazioneguidobernardini.org](http://www.fondazioneguidobernardini.org)