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.

RECIPIENTS
Facility managers and supervisors, animal welfare officers, veterinarians, laboratory biologists, senior technicians, GM colony breeding coordinators and managers.
| Maintenance of GA strains and breeding strategies | Reproduction biology  
Breeding schemes (appropriate for nucleus, expansion and production colonies)  
Breeding performance  
Practical examples from speakers and audience |
|-----------------------------------------------|
| Genetic quality of GA rodent colonies          | Strains and substrains  
Genetic background  
Nomenclature  
Genetic monitoring  
Congenic strains |
| Colony management, housing, husbandry and care | Housing and care of GA animals  
Microbiological quality  
Introduction on animal welfare and ethical considerations  
Impact of technological advances |
| Cryopreservation and assisted breeding techniques | Embryo  
Sperm  
Ovary  
IVF and other assisted breeding techniques  
Internal Vs external services  
Repositories and consortia |
| Husbandry solutions for genetically modified rodents | Different techniques: Pros and Cons available guidelines |
| Animal identification and tissue sampling | Different techniques: Pros and Cons available guidelines |
| Management of colonies of genetically modified mice: the experience of a research Institute | Characteristics of the facility  
Organization of husbandry  
The application of Lean management in the facility  
Health monitoring programme |
| Problems to be discussed with the speakers/other participants | Participants willing to discuss specific problems should communicate the topics two weeks before the course |

To register please visit: www.fondazioneguidobernardini.org

**DO NOT FORGET TO APPLY ALSO TO THE UPCOMING FGB COURSES**

**NEVER STOP LEARNING.**

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<td>March 4-6, 2015</td>
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<td>FACILITY PLANNING, LOGISTICS AND TECHNOLOGICAL SOLUTIONS</td>
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