OBJECTIVES
This two day course focuses on the microbiota of laboratory rodents and on the management of facilities that breed and use gnotobiotic animals. The influence of microbiota in numerous aspects of animal normal physiology and its involvement in the development of many diseases will be illustrated. The renowned speakers will provide cutting-edge information on the breeding, maintenance, experimental use, and care of gnotobiotic rodent strains. Strategies to maintain and monitor the defined microbiota will be discussed together with the technological solutions available.

CONTENTS
• Gnotobiology in research: History, state of the art and prospective
• Interactions of the microbiota with the host
• Gnotobiotic animals as experimental models
• Technologies and procedures
• Quality assurance

RECIPIENTS
Heads of animal facilities, veterinarians, those responsible for health monitoring and testing of laboratory animals, senior technologists.
| Gnotobiology in research: History, state of the art and prospective | • History  
• Classification (axenic and gnotobiotic)  
• Research applications |
|---|---|
| Interactions of the microbiota with the host | • Categorization of the microbiota  
• Impact on animal pathophysiology |
| Gnotobiotic animals as experimental models | • Inflammatory bowel diseases  
• Allergies  
• Autoimmunity  
• Cancer  
• Neuropsychiatric diseases |
| Technologies and procedures | • Housing technologies  
  o Isolators  
  o IVC  
• Breeding Vs experimental groups  
• Experimental procedures with gnotobiotics |
| Quality assurance | • Maintaining and monitoring the Defined Microbiota Status of Gnotobiotic Rodents  
• Traditional and innovative techniques (Culture Vs sequencing)  
• Welfare aspects |

To register please visit: www.fondazioneguidobernardini.org

DO NOT FORGET TO APPLY ALSO TO THE UPCOMING FGB COURSES

- ORGANIZING AND OPERATING ACTIVITIES IN A LABORATORY ANIMAL FACILITY  
  March 16-18, 2016
- HEALTH MONITORING OF RODENTS: TRADITIONAL AND INNOVATIVE APPROACHES  
  May 12-13, 2016
- MICROBIOTA AND GNOTOBIOtic MANAGEMENT  
  September 22-23, 2016
- THE MANAGEMENT OF GENETICALLY MODIFIED RODENT COLONIES  
  October 6-7, 2016
- MANAGING RESOURCES IN THE MODERN ANIMAL FACILITY  
  November 16-18, 2016

NEVER STOP LEARNING.