

# FONDAZIONE GUIDO BERNARDINI

BETTER EDUCATION FOR BETTER SCIENCE

## TWO DAY COURSE



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

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

# Microbiota and Gnotobiotic Rodents

12<sup>th</sup> to 13<sup>th</sup> of April 2018

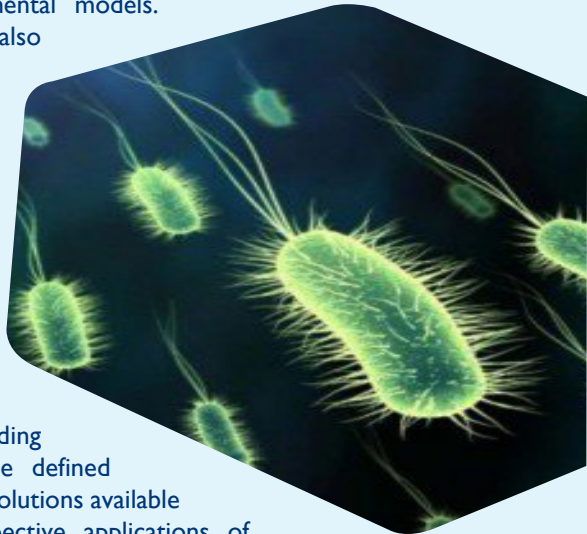
## OBJECTIVES

This two-day course is designed to provide the participants with the most recent information on the microbiota of laboratory rodents and on the use of gnotobiotic animals as experimental models.

The programme of the course includes also topics related to the organization and management of facilities that breed and use such animals for research.

The lectures of the renowned speakers will cover the interactions of microbiota with the host organism and, in particular, the impact on numerous aspects of animal normal physiology and on the development of many diseases.

Cutting-edge information on breeding, maintenance and care of gnotobiotic rodent strains will be provided, including strategies to maintain and monitor the defined microbiota. In addition, the technological solutions available and “the state of the art” and prospective applications of gnotobiotic animals in research will be illustrated.



## TARGET AUDIENCE

Heads of animal facilities, veterinarians, persons responsible for the health monitoring and testing of laboratory animals, senior technologists, researchers, quality assurance specialists.

Day 1	<b>Gnotobiology in research: History, state of the art and prospective</b>	History Classification (axenic and gnotobiotic) Research applications
	<b>Interactions of the microbiota with the host</b>	Categorization of the microbiota Impact on animal pathophysiology
	<b>Gnotobiotic animals as experimental models</b>	Inflammatory bowel diseases Allergies Autoimmunity Cancer Neuropsychiatric diseases
Day 2	<b>Technologies and procedures</b>	Housing technologies <ul style="list-style-type: none"> <li>• Isolators</li> <li>• IVC</li> </ul> Breeding vs experimental groups Experimental procedures with gnotobiotics
	<b>Management of gnotobiotics facility</b>	The experience of Institute Pasteur
	<b>Quality assurance</b>	Maintaining and monitoring the Defined Microbiota Status of Gnotobiotic Rodents Traditional and innovative techniques (Culture Vs sequencing) Welfare aspects

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