

# FONDAZIONE GUIDO BERNARDINI

BETTER EDUCATION FOR BETTER SCIENCE

## TWO DAY COURSE



credits: 10 points - Royal Society of Biology: 25.5 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 Management

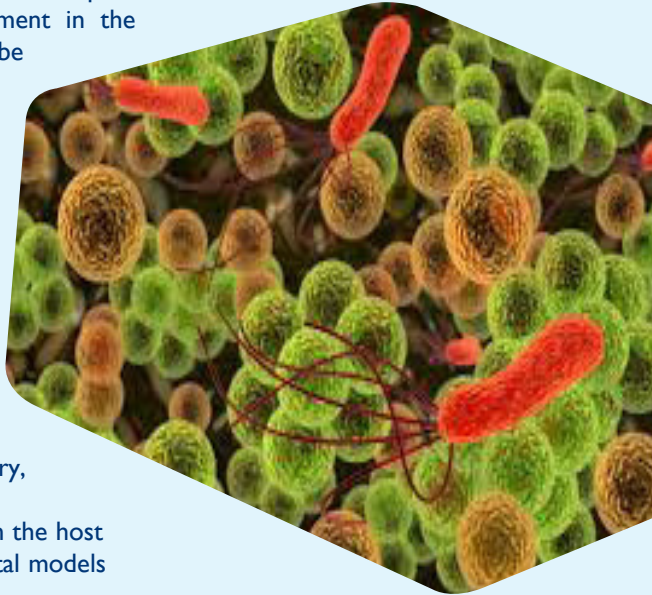
4<sup>th</sup> to 5<sup>th</sup> of May 2017

## 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

## TARGET AUDIENCE

Heads of animal facilities, veterinarians, those responsible for health monitoring and testing of laboratory animals, senior technologists.

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>Quality assurance</b>	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](http://www.fondazioneguidobernardini.org)**

