



FONDAZIONE GUIDO BERNARDINI
BETTER EDUCATION FOR BETTER SCIENCE



CONSELHO NACIONAL DE DESENVOLVIMENTO CIENTÍFICO E TECNOLÓGICO
CNPQ

SHORT COURSE

Health Monitoring of Rodents: Traditional and Innovative Approach

3rd of May 2016

OBJECTIVES

The most advanced concepts of animal health and environmental monitoring will be provided by the expert faculty of this course.

The programme includes the description of different laboratory techniques, the most common health monitoring schemes and several other important aspects in the microbiological definition of rodent colonies.

A session on Microbiota will explore host-microbiota interactions on animal models.

CONTENTS

Traditional and emerging pathogenic agents; Relevant international guidelines; Selection of laboratory techniques for health monitoring of mice and rats; Practical applications in rodent units; Influence of microbiota on animal models and monitoring techniques; Control of the macro- and micro-environment.



RECIPIENTS

Facility managers and supervisors, veterinarians, senior technologists, animal care and welfare officers and quality assurance managers.

Why should be worried about health monitoring?	Traditional agents Emerging agents Impact on research
FELASA guidelines	
Beyond pathogens: the microbiota	Influence of the microbiota on animal models
Laboratory techniques for health monitoring investigation	Reliability Alternative methods New laboratory techniques Screening of biological specimens to be used for scientific research inside the animal facility Monitoring of the microbiota
Health monitoring programmes in different caging systems	Impact of different caging systems on the spread of infections Proposed approaches to health monitoring programs in: <ul style="list-style-type: none"> • Open cages • Microisolators (static filter top cages) • Isolators • IVCs
Innovative approaches for health monitoring	Environmental PCR (EAP PCR)
Microbiological monitoring of the environment	Surface microbiological tests Air microbiological assessment Water microbiological assessment

Scientific Committee

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Faculty

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