



FONDAZIONE GUIDO BERNARDINI
BETTER EDUCATION FOR BETTER SCIENCE

Course Microbiological monitoring in laboratory animal facilities: new approaches and challenges Rodents and Zebrafish

Milan, Italy
September 24-25, 2020

credits: 10 points

33 CPD credits by Royal Society of Biology

1.5 day continuing education for experimenters,
study directors and heads of animal facilities
by Swiss Veterinarian Associations

This two-day course is one of the most successful in the FGB offer and it benefits of more than ten years of experience. The participants will be guided by experts through both the traditional and the new approaches to screen animals and biologicals, the interpretation of results and action plans in case of confirmed infection. Innovative approaches and new challenges of rodent colonies monitoring will also be discussed together with health monitoring programs for Zebrafish.

A workshop will present a hypothetical scenario, with needs and limitations, providing the participants with the opportunity to develop their own program with the support of the trainers. The lively discussions and the informal training environment aim to enhance the participants' knowledge and to improve their skills on everyday activities.

Day 1	Why should be worried about health monitoring?	Traditional and emerging agents FELASA recommendations
	Screening of animal and biologicals: Pros and Cons of traditional and new approaches	Methods available Interpretation of results Experience from the field
	Impact of IVC on health monitoring approach	
	Innovative approaches for health monitoring	Environmental PCR EAD sampling
	Role of pathology in HM programs	Importance of pathology for detection of infectious diseases Different scenarios for the application of pathology in HM Sampling methods
	Case study "the evolution of the HM program of our mouse facility"	Challenges Possible approaches Costs
Day 2	Quarantine procedures	Challenges Possible approaches Time required
	Bacterial species to be considered in quality assurance of rodents	Commensal bacteria essential for the induction of specific models Impact and relevance of the microbiota
	Emerging microbiological monitoring approaches	Challenges Possible approaches
	Husbandry and experimental applications of zebrafish	
	Why should be worried about health monitoring in zebrafish?	Agents Impacts on research
	Health monitoring approaches for zebrafish	FELASA guidelines Technical solutions Health Monitoring programs
	Workshop: the definition of an health monitoring program step by step	An hypothetical scenario will be offered to the participants together with needs and limitations. A program will be developed by the participants with the supports of the trainers



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