FONDAZIONE GUIDO BERNARDINI

BETTER EDUCATION FOR BETTER SCIENCE

THREE DAY COURSE

iat cpd credits: **16** points - Royal Society of Biology: **44** credits

2,5 day continuing education for person carrying out procedures on animals and person designing procedures and projects by Swiss Veterinarian Associations

Organizing and Operating Activities in a Laboratory Rodent Facility

16th to 18th of March 2016, Milan - Italy

OBJECTIVES

The theme of this three-day course is the organization and management of laboratory animal facilities.

The continuous progress of technical tools in this field and the increasingly complex demand by the scientific community require appropriate and frequent updates of information. The expert faculty of this course will pay particular attention to the new technological developments and scientific needs of research and will accompany the participants through theoretical and practical activities that will improve their ability to face and solve everyday problems.

CONTENTS

Layouts, functional areas, equipment, and workflows; Bio-containment and bio-exclusion: definitions and technical solutions; Main procedures in "clean" and "dirty" areas; Washing and decontamination; Health monitoring programmes; Colony management; Staff training and management: duty assignment and working scheduling, per diem calculation and attribution.

RECIPIENTS

Facility and unit managers and supervisors, manager assistants, persons responsible for overseeing the welfare and care of animals, designated and assistant veterinarians, senior animal technologists, quality assurance managers.

Day 1	**Essential principles in the care and use of laboratory animals**	Ethics; Animal welfare; The 3Rs
	The animal facility: functional areas and workflows	Key components in an animal facility Workflows of animals, personnel and equipment: risks and possible solutions Pros and Cons of different choices when layouting Different functional areas
	Bio-containment & Bio-exclusion	Bio-containment & Bio-exclusion: definition and meaning Bioprotection of staff; Allergen control Pathogens, protection of animals, staff and environment (BSL2 & BSL3) Technical solutions/barriers, primary containment - Filter Top - Isolators - Cubicles - Individually Ventilated Cages (IVC) Impact on the organization and workload
	Cage change procedures	Pros and Cons of different procedures Integral cage change Vs partial cage changes: impact on biosecurity, workload, layout, and budget
Day 2	**Cleansing**	Cleaning routine procedures in the animal facility
	Washing	Washing: why, when and how Washing equipment Visually Vs. microbiologically clean Standard loads, special loads, cycles Use Vs non use of detergents
	Autoclaving	Why autoclaving? Equipment and workload Standard cycles, preparation of loads Cycle monitoring Possible problems and drawbacks
	Decontamination	Definitions and meaning Preparation of loads Validation and monitoring of decontamination cycles Pros and cons of chemical disinfection
	Overview of the mouse facility of the research centre	Research activity and technological services Different activities in the animal units Layouts of the animal facilities; Ancillary areas; Equipment Work flows for people, animals and materials
	Visit to "clean" area	Area entrance procedures Different functional areas Equipment Main procedures and workflows Overview of the experimental activities Breeding and maintenance of transgenic colonies Cage change procedures Sentinel animals: cage distribution, time table, sentinel replacement, rotation. Dirty bedding system in use
	Visit to "dirty" area	Different functional areas and equipment Main procedures and workflows
Day 3	**Health monitoring programmes**	Why should we worry about health monitoring? Microbiological agents and real risks FELASA recommendations IVCs and their impact on health monitoring Proposed approach to peculiar needs in IVCs health monitoring programmes Positive findings: what to do Quarantine procedures
	Example of health monitoring programme in an IVC equipped facility	Health monitoring programme: organization and costs Interpretation of results
	Management of routine activities in the facility	Animal care procedures – Technicians' weekly schedule Non-animal care procedures - Theory and practice
	Budgeting and *Per Diem* calculation	Theory and practical examples

Via Camperio, 10 - 2013 Milano
Tel. +390245076787 - Fax. +390245070212
secretary@fondazioneguidobernardini.org - www.fondazioneguidobernardini.org