

FONDAZIONE GUIDO BERNARDINI
BETTER EDUCATION FOR BETTER SCIENCE

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TRAINING COURSES 2019

THE FONDAZIONE GUIDO BERNARDINI IN BRIEF

The **Fondazione Guido Bernardini (FGB)** is an international non-profit organization dedicated to the education and training of personnel involved in animal care and use. It is our firm belief that high standards of knowledge and competence in scientific and technical work go hand in hand with good quality research and with animal welfare.

FGB is supported by the **Scientific Committee (SC)** that is composed of international, highly reputable experts in the field of laboratory animal science. The FGB SC enthusiastically oversees and contributes to the excellence of educational and scientific programs.

The **Faculty** of our courses comprises renowned professionals with extensive experience in the laboratory animal sector including: LAS specialists, veterinarians, facility managers, engineers, architects and quality control managers, etc. The training team covers a variety of topics modulating the programs through constant interaction with the participants.

FGB courses strive to maintain high standards in teaching and include a variety of topics from which you can choose what best suits your needs. The subjects and contents of the courses are carefully selected to accomplish specialist training for the maintenance of competence and the continuing professional development of the participants.

International students attending our educational activities benefit from small class sizes and have the opportunity to interact with fellow students and teachers in a productive learning environment. We are conscious that learning involves participation; the purposely limited number of attendees is functional to stimulate interaction, discussion and sharing of experience. We have also gained considerable experience in developing and performing tailored courses to meet specific needs.

FGB workshops, conferences and seminars are held on timely subjects in laboratory animal science and technology, attracting professionals who can find an ideal environment to exchange expertise, ideas and experience on issues of common interest. The speakers are renowned international experts who greatly contribute to the success of the events and enthusiastically support participants in enhancing and updating their knowledge.

Each participant receives a **certificate** that attests the completion of a course or attendance to a scientific event.

FGB training activities award **continuing professional development (CPD)** credits by the Institute of Animal Technology (IAT), the Royal Society of Biology and the Swiss State Veterinary Association.

All professionals working with laboratory animals at various levels and with different roles can benefit from our training proposals. Facility managers and supervisor, veterinarians, technicians, laboratory biologists, animal welfare officers, etc. **are invited to join our classes** and participate into lively and interesting discussions.



never stop learning

TRAINING COURSES AND EVENTS 2019

CALENDAR AT GLANCE

January

January



2nd Italian Zebrafish Meeting

February



NEVER STOP LEARNING.



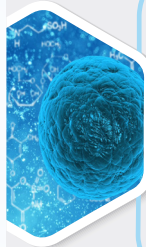
March

March



Course
**Organizing and
operating activities in a
rodent animal facility
&
Intensive course on
experimental design
and biostatistics**

April



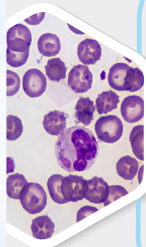
Course
**Microbiota and
gnotobiotic rodents**

May



Course
**The management of
genetically altered
rodent colonies**

June



Workshop
**Pathology of Laboratory
Animals Module 3:
non-human primates,
pigs, ferrets
and tree shrews**

July



NEVER STOP LEARNING.




August



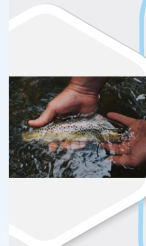
Course
**Refinements in
husbandry of
ferrets and pigs**

September



Course
**Microbiological
monitoring of
rodents: traditional
and innovative
approaches**

October



Course
**Severity and humane
endpoints in
fish research
&
Organizzazione ed
attività in uno
stabulario di roditori
(the course is delivered
in Italian)**

November



Course
**Organizing and
operating activities
in a laboratory
animal facility: II -
Critical points
and bottlenecks**

December



NEVER STOP LEARNING.



2nd Italian Zebrafish Meeting

Pisa, Italy • January 30-February 1



This meeting will highlight and discuss emerging aspects of zebrafish research and promote networking among Italian researchers with the goal to disseminate the experience and philosophy of the European society (Eufishbiomed).

The meeting is also a great opportunity to meet colleagues and students, share knowledges and practical experiences, coordinate national grant opportunities and local databases for fish lines and reagents, and promote new research issues among younger researchers.

Course Organizing and operating activities in a rodent animal facility

Milan, Italy • March 6-8

  credits: 18 points

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



This three-day course benefits of the experience gained in nine years of delivery. The topics and contents are constantly revised and updated to include the most important and timely aspects of functioning of a laboratory animal facility; special attention is paid to new technological developments, scientific needs of research and management concepts.

The course is designed to advance the quality of management and care of laboratory rodents. The experienced and competent teachers enforce an interactive approach of training by identifying problematic matters and proposing technical solutions. The scientific program stimulates exchange of experiences and lively discussion between the attendees and teachers; also the visit to different functional areas of the animal facility of the Campus where the course is held contributes to facilitate the participants' learning and to improve their skills on everyday activities.

Course Intensive course on experimental design and biostatistics

Milan, Italy • March 28-29

NEW



Currently, the scientific literature is critical of the translatability of in vivo research results and of the reproducibility of research conducted with animals. There are certainly solutions on what should be done to improve the translatability and reproducibility of animal experiments.

Among the solutions, statistics and experimental design play a central role to reach better translatability and reproducibility, in addition to contribute to the Reduction arm of the ThreeRs. This workshop addresses the central question of how to design your experiments and which test to perform given your specific research questions.

This course offers lectures, exercises and discussions on these topics. The course is aimed at PhD students, postdocs, researchers, lab animal scientists and technicians, and members of Animal Welfare Bodies.

Course Microbiota and gnotobiotic rodents

Milan, Italy • April 4-5

 credits: 11 points

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



The collective term of the microorganisms that typically inhabit a bodily organ or part is Microbiota. It is involved in numerous aspects of normal animal physiology and has profound effects on laboratory animal health, also contributing to the development of many diseases.

The lectures of the renowned speakers of this course will cover the most recent information on the microbiota of laboratory rodents and on the use of gnotobiotic animals as experimental models. In addition, topics related to the organization and management of facilities that breed and use such animals for research are included. 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.

Course The management of genetically altered rodent colonies

Milan, Italy • May 9-10

iat cpd credits: 11 points

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

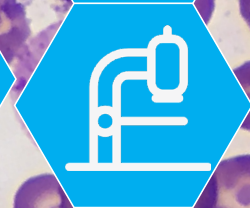
The course introduces important aspects of managing genetically altered (GA) strains of rodents for breeding and experimental usage. The distinguished speakers will provide the participants with theoretical and practical information on the maintenance of GA strains, breeding strategies, colony management, husbandry best practices and methods to securing genetic material according to the latest views. Animal welfare and ethical aspects will also be considered. The generation of GA rodents is not a prime subject of this course.

A session of the scientific program offers the participants the opportunity to present one or more cases from their practice; the interaction between speakers and attendees encourages the sharing of information and practical experiences from which the attendees can benefit to improve their competence in the daily work.

Workshop Yearly workshop series on “Pathology of Laboratory Animals”. Module 3: Pathology of non-human primates, pigs and ferrets and tree shrews

Leiden, NL • June 17-19

NEW



The Fondazione Guido Bernardini (FGB), Leiden University Medical Center (LUMC) and the Biomedical Primate Centre are proud to present the international workshop on laboratory animal pathology.

The workshop is primarily addressed to veterinary and medical pathologists, PhDs and laboratory animal veterinarians. Scientists aiming to obtain a broader and deeper knowledge on the pathology of NHPs, pigs, ferrets and/ or tree shrews will benefit from the workshop.

Focus will be on relevant animal models of these species for human diseases. The program will cover background pathology and health monitoring.

The participants will be able to present and discuss cases with renowned pathologists from leading research institutions.

Gross pathology and histopathology sessions dedicated to veterinarians preparing for the ECLAM and ECVP boards will be included.

Course Refinements in husbandry of ferrets and pigs

Hamburg, Germany • August 22-23

NEW



This is a practical course held in collaboration with the University Medical Center Hamburg-Eppendorf

Besides a vast number of mice the research animal facility at the University Medical Center Hamburg-Eppendorf (Universitätsklinikum Hamburg-Eppendorf, UKE) is keeping smaller numbers of other species, among those ferrets and pigs. Over the years we have developed methods to train the animals in our custody by positive reinforcement. In this course we will introduce the participants into the particular aspects of the species. We will discuss their needs and the specific “language” in which they communicate and show signs of wellbeing as well as of pain and distress. Apart from the theoretical background, the course will mainly include hands-on experience with the animals and our positive reinforcement training.

Course Microbiological monitoring of rodents: traditional and innovative approaches

Milan, Italy • September 26-27

(iat) CPD credits: 10 points

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 ten years of experience. During two days the participants are guided by expert through the routine procedures, laboratory test programs, the interpretation of results and action plans in case of confirmed infection.

Simulation of health monitoring schemes will be delivered through interactive theoretical sessions; 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.

Course

Severity and humane endpoints in fish research

Bergen, Norway • October 4

NEW



How do we assess severity and humane endpoints in fish?

Fish in research are covered by the same regulations as mammals. However, applying the same principles for assessing welfare, endpoints and severity have some challenges.

In this course we focus on examples of relevant studies, define severity level, and discuss what endpoints can be used to reduce severity.

This program has been developed in collaboration with:



Industrilaboratoriet



Corso Organizzazione ed attività in uno stabulario di roditori

Milano, Italy • 23-25 Ottobre

The course is delivered in Italian



È opinione ampiamente condivisa e consolidata di coloro che operano nell'ambito della ricerca biomedica che la sperimentazione animale sia condotta in modo etico, utilizzando metodologie adeguate per ottenere risultati scientificamente validi e riproducibili. La corretta gestione degli stabulari riveste un ruolo determinante nel garantire tali condizioni.

Il corso tratterà gli aspetti più rilevanti e problematici della gestione delle aree di stabulazione, riservando particolare attenzione alle esigenze scientifiche della ricerca ed allo sviluppo di nuove tecnologie.

I relatori del corso tratteranno argomenti quali: layout delle strutture, le aree funzionali, le attrezzature e flussi di lavoro, i protocolli di monitoraggio sanitario, e la pianificazione del lavoro. Inoltre, saranno proposte e descritte soluzioni tecniche innovative per far fronte alle diverse esigenze.

I partecipanti saranno invitati a partecipare attivamente al corso attraverso lo scambio delle loro esperienze e la discussione delle problematiche riscontrate nelle attività quotidiane, in un ambiente informale che stimola l'interattività ed il confronto costruttivo.

Course

Organizing and operating activities in a laboratory animal facility: II - Critical points and bottlenecks

Milan, Italy • November 21-22

NEW

 credits: 11 points

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

This two-day course is completely new and is intended to deepen the subjects that have been covered in the FGB course "Organizing and Operating Activities in a Rodent Animal Facility - Part I". For this reason, it is addressed to those who have already attended in the years the Part I and would like to experience a practical approach to problems that may be encountered in the managing and functioning of an animal facility. Managers with equivalent expertise are also welcome to participate to the course.

The topics of this course are delivered in such a way to face and discuss critical points and bottlenecks from operations to personnel management. In addition, the speakers share their experience in optimizing the flows and identifying source of "waste" in order to be more efficient. A visit to the clean area of an animal facility will allow to get hands on experience of the concepts in an informal training environment.



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