



FONDAZIONE GUIDO BERNARDINI

BETTER EDUCATION FOR BETTER SCIENCE

INTERNATIONAL SEMINAR

 **CPD** credits: 9 points - 21 CPD credits by the Society of Biology - 1,5 day continuing education Credits by Swiss Veterinarian Association

Revisiting Refinement in Care and Use of Laboratory Rodents

Refinement is one of the Three Rs that Russell and Burch published in 1959. Since then the sensitivity and consciousness of the need to respect and enhance the welfare of laboratory animals have progressively spread and have been consolidated through the scientific community and public opinion.

The definition itself of refinement has evolved since Russell and Burch's version. Today the commonly accepted definition refers more comprehensively to any approach which avoids or minimises the actual or potential adverse effects experienced at any time during the life of the animals, and which enhances their wellbeing. Refinement encompasses not only the direct harms associated with animal use, but the indirect, or contingent harms associated with breeding, transportation, housing and husbandry. Though Replacement and Reduction are equally crucial for the animals, Refinement affects most directly the life of the majority of animals used in scientific research. It also involves all persons working with animals, from animal care staff to the scientists.

Refinement also requires a creative attitude in that it stimulates to think beyond and, sometimes in contrast to the traditionalist and conservative approach.

This international seminar will address refinement issues in husbandry and in the procedure context providing examples of refinement programmes from different situations and organizations.

Our objective is to offer participants the opportunity to receive useful suggestions for their work and to share and discuss their own experiences and achievements in this field.



Thursday 25th of June

Registration09:00 - 09:30

Welcome and opening addresses.....09:15 - 09:30

Refinement in husbandry practice

Behavioral management and enrichment: core concepts,
and a little on mice.....09:30 - 10:00

Joseph Garner

Don't be afraid of environmental enrichment.....10:00 - 10:30

Hanno Würbel

Nesting material: An environmental enrichment success story10:30 - 11:00

Brianna Gaskill

Coffee Break.....11:00 - 11:30

Impact of running wheels used as environmental enrichment tool.....11:30 - 12:00

Yuri Robbers

Managing breeding problems in mice.....12:00 - 12:30

Joseph Garner

Managing laboratory mouse aggression.....12:30 - 13:00

Brianna Gaskill

Lunch.....13:00 - 14:00

Refinement of procedures

Refinement of invasive procedures.....14:00 - 14:30

René Remie

Assessing pain in laboratory animals using behaviour
and facial expressions.....14:30 - 15:00

Matthew Leach

Implementation of severity classification of procedures.....15:00 - 15:30

Ann-Dominique Degryse

Coffee Break.....15:30 - 16:00

Improvement of pain therapy in laboratory mice.....16:00 - 16:30

Matthew Leach & Paul Flecknell

Impact of identification techniques on welfare.....16:30 - 17:00

Marcello Raspa

Improving rodent welfare during euthanasia.....17:00 - 17:30

Huw Golledge

Refinement by experimental design17:30 - 18:00

Hanno Würbel

Friday 26th of June

Implementation of refinement programmes

Promotion of refinement in industry.....09:30 - 10:00

Violeta Solis Soto

Refinement in models for human disease.....10:00 - 10:30

André Bleich

Refinement in Imaging Techniques of small rodent models.....10:30 - 11:00

Marc Janier

Coffee Break.....11:00 - 11:30

Refining housing, husbandry and care for animals used
in studies involving biotelemetry.....11:30 - 12:00

Penny Hawkins

The relevance of Refinement in relation to Reduction
and Replacement.....12:00 - 12:30

Penny Hawkins

Lunch.....12:30 - 14:00

Scientific Committee

Marcel Gyger - Ecole Polytechnique Fédérale de Lausanne SV CPG, Switzerland

Caroline Johner - University of Basel, Switzerland

Gemma Perretta - Fondazione Guido Bernardini, Italy

Jan-Bas Prins - Leiden University Medical Centre, the Netherlands

Faculty

Ann-Dominique Degryse - Institut de Recherche Pierre Fabre, France

André Bleich - Hannover Medical School, Germany

Paul Flecknell - Newcastle University, UK

Joseph Garner - Stanford University, US

Brianna Gaskill - Purdue University, US

Huw Golledge - Universities Federation for Animal Welfare, UK

Penny Hawkins - Royal Society for the Prevention of Cruelty to Animals, UK

Marc Janier - University of Lyon, France

Matthew Leach - Newcastle University, UK

Marcello Raspa - CNR-EMMA, Italy

René Remie - René Remie Surgical Skills Centre, UK

Yuri Robbers - Leiden University Medical Center, the Netherlands

Violeta Solis Soto - GlaxoSmithKline, Spain

Hanno Würbel - University of Bern, Switzerland

Seminar Venue

Detailed venue information will be provided in your registration confirmation

Hotel Information

Recommended hotels are located near the conference center; information will be available contacting FGB secretary. All requests will be honoured based upon availability at the chosen hotel and upon receipt of registration. There will be a complimentary shuttle bus from/to the hotels and the Conference Centre.

Revisiting Refinement in Care and Use of Laboratory Rodents - REGISTRATION FORM

Last Name

First Name

Title/Position

Organization/Company

Address

City

State

Postcode

Phone

Fax

Mobile

E-mail address

We would like to circulate a list of participants (name and e-mail address) at the course, please tick here if you wish to be included on this list.

Invoice Details; Please provide all the information requested to avoid delays in processing the application

Organization/Company

Administration Manager E-mail

Address

City

State

Postcode

VAT Registration Number (if you are an individual please provide the National Identification Number)

Registration Fee 400,00 euro + 22% VAT

40,00 euro Gala Dinner on Thursday June 25th

The Registration Fee includes participation in the scientific programme, lunch, coffee breaks. and shuttle buses (hotel/venue/hotel)

Policy on Cancellation

Any modification or cancellation has to be notified in writing to the organizing secretariat. No refunds will be given for cancellation received after invoice raising.

Please save or print this form and send me by email: secretary@fondazioneguidobernardini.org or fax: +39 02 45 07 02 12