

## FONDAZIONE GUIDO BERNARDINI

BETTER EDUCATION FOR BETTER SCIENCE

#### **INTERNATIONAL SEMINAR**

(at) CTC 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.

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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

Registration		
Welcome and opening addresses		
Refinement in husbandry practice		
Behavioral management and enrichment: core concepts, and a little on mice		
Don't be afraid of environmental enrichment Hanno Würbel	10:00 - 10:30	
Nesting material: An environmental enrichme Brianna Gaskill	nt success story10:30 - 11:00	
Coffee Break	11:00 - 11:30	
Impact of running wheels used as environmen Yuri Robbers	tal enrichment tool11:30 - 12:00	
Managing breeding problems in mice  Joseph Garner	12:00 - 12:30	
Managing laboratory mouse aggression Brianna Gaskill	12:30 - 13:00	
Lunch	13:00 - 14:00	
Refinement of procedures		
Refinement of invasive procedures		
Assessing pain in laboratory animals using behaviour		
and facial expressions		
Matthew Leach		
Implementation of severity classification of procedures15:00 - 15:30 Ann-Dominique Degryse		
Coffee Break		
Improvement of pain therapy in laboratory mice16:00 - 16:30 Matthew Leach & Paul Flecknell		
Impact of identification techniques on welfare16:30 - 17:00 Marcello Raspa		
Improving rodent welfare during euthanasia17:00 - 17:30 Huw Golledge		
Refinement by experimental design Hanno Würbel		

### Friday 26th of June

#### Implementation of refinement programmes

Promotion of refinement in industryVioleta Solis Soto	09:30 - 10:00
Refinement in models for human disease	10:00 - 10:30
Refinement in Imaging Techniques of small rodent models  Marc Janier	10:30 - 11:00
Coffee Break	11:00 - 11:30
Refining housing, husbandry and care for animals used in studies involving biotelemetry	11:30 - 12:00
The relevance of Refinement in relation to Reduction and Replacement	12:00 - 12:30
Lunch	12:30 - 14:00

#### 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

#### 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

#### We thank for the support







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