



Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Degree (please indicate your degree(s)) \_\_\_\_\_ Organization/Company \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

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** 500,00 euro + 22% VAT      40,00 euro Gala Dinner on June 28th

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

**Policy on Cancellation**

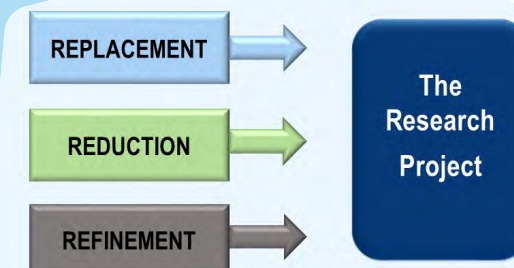
The event confirmation will be accompanied by the Order Acknowledgement with payment details.  
 The invoice will be issued within 10 days after the confirmation and cannot be changed, so please make sure you have provided us with the correct information (to be checked on the Order Acknowledgement).  
 Only digital version of invoices will be sent to participants.  
 Payment of the fee is due before the event commencement.  
 Cancellation policy: All cancellations must be made by writing (email or fax) to the secretary.  
 Payment of the balance of the event is due, in full, for cancellation received after invoice raising.  
 Registrants who fail to attend without advance notice are liable for the entire event fee.

THE THREE RS IN RESEARCH PROJECT DESIGN:  
A PREREQUISITE FOR GOOD SCIENCE

The Three Rs - Replacement, Reduction, and Refinement - are successfully applied in scientific research in a range of scenarios including husbandry, care practices and experimental settings. They provide a framework for considering important ethical issues when planning an animal experiment. The main objectives of the Three Rs are to perform humane research on animals and to impact positively on the quality of research. A crucial role to the success of these achievements is due to proper experimental design.

The opening session of this symposium will focus on the importance of the Three Rs to achieve high quality science; replacement will be covered by presenting updated information and practical examples, systematic review and critical analysis of the scientific literature will be described as key to identify relevant questions and to plan proper experiments. Appropriate approaches to help alleviating severe suffering in animals used in research and testing, a central issue in Refinement, will also be discussed.

The drive to maximise standardization, the motto of animal experimentation, will be challenged in the context of the so-called reproducibility debate. Some of the challenges and strategies being developed to improve the quality of “in vivo” experiments at institutional level will be considered. Finally, the important role of the animal facilities and of the Animal Welfare Bodies in the implementation of the Three Rs will be presented and discussed.



## 28th of June

Registration .....08:30 - 09:00

**Welcome and opening addresses** .....09:00 - 09:15

### **The way forward to implement the Three Rs in research**

Better science through implementation of the Three Rs .....09:15 - 09:45  
Malcolm Macleod

The Danish 3R Center – examples of achievements the first 4 years .....09:45 - 10:15  
Jan Lund Ottesen

New research to improve project planning:  
systematic reviews and meta-analysis .....10:15 - 10:45  
Merel Ritskes-Hoitinga

Coffee Break .....10:45 - 11:15

3R-methods to reduce/replace animal use .....11:15 - 11:45  
Gianni Dal Negro

Refinement of severe suffering .....11:45 - 12:15  
Elliott Lilley

The Dutch policy: a transition towards animal free innovations .....12:15 - 12:45  
Jan-Bas Prins

Lunch .....12:45 - 14:00

### **Hot issues in “in vivo” research**

Never replicate a successful experiment -  
Facing the reproducibility crisis in the life sciences .....14:00 - 14:30  
Helene Richter

Sex bias in pre-clinical research .....14:30 - 15:00  
Natasha Karp

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

Improving the quality of in vivo experiments: an institute level challenge .....15:30 - 16:30  
Natasha Karp

Gala Dinner.....20:00

## 29th of June

### **Outlook of other stakeholders**

How the AWB can help implement the Three Rs at the project design stage ...09:30 - 10:00  
Elliott Lilley

Animal facilities and their changing role .....10:00 - 10:30  
Jan-Bas Prins

Coffee Break .....10:30 - 11:00

Code of conduct for research integrity .....11:00 - 11:30  
Marco Annoni

Closing remarks .....11:30 - 12:00

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

### **Faculty**

Marco Annoni - Institute of Biomedical Technologies, National Research Council, Italy

Gianni Dal Negro - GlaxoSmithKline, UK

Natasha Karp - AstraZeneca, UK

Elliott Lilley - Royal Society for the Prevention of Cruelty to Animals, UK

Malcolm Macleod - University of Edinburgh, UK

Jan Lund Ottesen - Danish 3R-Center, Denmark

Helene Richter - University of Münster, Germany

Merel Ritskes-Hoitinga - Radboud University Medical Center, the Netherlands

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

### **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.

### **Scientific Committee**

Marcel Gyger - Fondazione Guido Bernardini

Gemma Perretta - Fondazione Guido Bernardini

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

### **Secretarial Support**

Laura De Francesco - FGB, secretary@fondazioneguidobernardini.org