



FONDAZIONE GUIDO BERNARDINI  
BETTER EDUCATION FOR BETTER SCIENCE

October 7, 2022

from 09.00 to 17.00 CEST Time Zone

October 14, 2022

from 09.00 to 12.15 CEST Time Zone

## OnLine Course

### Intensive course on experimental design and biostatistics

#### Course aim:

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.

#### Programme:

- Module 1: Statistics for animal experiments:
  - i. Research design
  - ii. Hypothesis Tests
- Module 2: The experimental design: how to generalize the results:
  - i. How to calculate the “right” sample size
  - ii. Experimental design illustrated by practical examples

#### Recipients:

PhD students, postdocs, researchers, lab animal scientists and technicians, and members of Animal Welfare Bodies.

#### Scientific Committee and Faculty:

Marcel Gyger - Fondazione Guido Bernardini

Frédéric Schütz - Swiss Institute of Bioinformatics

#### contact us

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