



COURSE IN

Experimental Design and analysis of data for research with animals

4-6 DECEMBER 2019

**i3S, INSTITUTO DE INVESTIGAÇÃO
E INOVAÇÃO EM SAÚDE**

CONTENTS:

- Planning for reproducibility in animal research
- Harm-benefit analysis and ethical considerations
- Formulating objectives and testing hypotheses
- Avoidance of bias (randomization, blind assessment, adequate controls)
- Independent replication and experimental units
- Estimating sample size
- Basic concepts in probability and statistics
- Single and two factor analysis of variance
- Analysis of covariance
- Data transformations and non-parametric methods
- Multivariate analysis of variance

ORGANIZATION: Nuno Franco, i3S

LECTURERS:

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LIMITED NUMBER OF PARTICIPANTS: 20

ADVANCED TRAINING UNIT

REGISTRATION & MORE INFORMATION:

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