



DIPARTIMENTO di BIOLOGIA



CORSO DI DOTTORATO IN BIOLOGIA

Ph.D. COURSES

2023/2024

EXPERIMENTAL AND SAMPLING STUDY DESIGN

Course coordinator: Fabio Bulleri (University of Pisa)

Schedule: September 2024

Duration: 12 hours

Description: The course focuses on the design of studies and experiments in biology, a fundamental skill for young researchers in biological sciences

The course is hands-on based and students will be asked to write up and present their experiments

Prerequisites: None required.

Preliminary program: The hypothetico-deductive approach; Hypothesis testing; Correlative versus experimental studies; Procedures for selecting observational units; Common pitfalls and mistakes underpinning confounded studies; Retrospective and prospective studies; Cohort studies.

During their doctoral programme, doctoral students may take advantage of courses offered within the Master's degree programmes at the University of Pisa, provided that such courses have not already been undertaken during their previous career, and that they are in line with the doctoral project.

Doctoral students may take advantage of courses without the need to obtain authorisation from the Collegio di Dottorato, but are required to discuss it with the Supervisor/s.