

Biosafety and biosecurity

Organization: Universitat Autònoma de Barcelona

Teaching unit coordinator: Natàlia MAJÓ

Position: Associate Professor

Teaching unit outline

In this module, students will be introduced to the concept of biosafety and biosecurity and will know the hazard criteria and the categorisation of most important disease agents. The risk assessment and the management and handling of human people and animals under biocontainment will be discussed. The characteristics and specifications of different biosafety laboratory levels will be presented. Students will be trained to work in the highest levels of biosafety laboratories and animal housing facilities (BSL3 and BSL4).

Topics addressed

Hazard Criteria and Categorisation of Microbes

BSL3 and BSL4 Lab Technical specifications

Risk assessment procedures and Biosecurity

Experimental procedures with animals under biocontainment

Practices: how to move in and out of BSL3 lab, handling of virus, cell cultures and spore forming bacteria in BSL3, handling positive pressure masks.

ECTS	Lectures	Tutorials	Practical work	Digital learning	Personal work
3	20 hours		20 hours		35 hours

Assessment method

50% Lab performance.

50% Risk assessment report.