

Biosafety training program

Course	Participants	Content
Introduction to biosafety	Training is mandatory for all people who work or plan to work in laboratories or similar facilities where microorganisms are cultivated, whether genetically modified or not, or where materials are handled that may contain them (e.g. blood, tissues, fluids, etc.), which may cause harm to human health (infection, toxicity, or allergy), animals or plants, or to the environment. Also, those people who are responsible for the supervision or management of a biological lab.	Broad concept of biosafety. Hazard groups and biosafety level (BSL). The basic principles of biocontainment, good microbiological practices, biosafety equipment and response in biological emergencies. The Biosafety Committee and the <i>UAB Biosafety Manual</i> .
Use of the biosafety cabinets	Users or potential users of Class II biosafety cabinets (research or diagnostic laboratories, animal houses, cell culture rooms, etc.). Attendance is compulsory for all those who wish to work in UAB BSL2 or higher.	What is a biological safety cabinet (BSC) and how does it work? What are its limitations and how do you work in it. Disinfection and required maintenance. Programme for the qualification, inspection, maintenance and relocation of the BSCs at the UAB.
Management of biological waste in the laboratory	Persons who carry out or plan to carry out an activity that generates waste of a biological nature, especially genetically modified organisms (GMOs), biological agents in hazard group 2 or higher or materials that contain them.	Legal and internal regulations. Principles of biohazardous waste management (minimisation, classification, labelling, packaging, transport and final treatment) at the UAB. Chemical and physical inactivation with special emphasis on the correct use of the autoclave.
Transport and shipping of biological samples	People involved in the reception or dispatch of infectious agents, biotoxins, genetically modified organisms or samples for diagnosis. Also, those people who have supervisory or management responsibilities in this activity.	Transport regulations. Classification of biohazardous goods. Safe reception. Packaging, labelling, internal transport and shipping. Response in case of emergency. Required documentation. Internal procedure at the UAB.
Biosafety with cell lines and viral vectors	All UAB staff working or planning to work with cell lines or viral vectors. Also, those people who are responsible for supervising or managing cell culture rooms.	Basic principles of the prevention of risks derived from the handling of both cell lines (human, animal, etc.) and viral vectors (adenovirus, adeno-associated virus, lentivirus, baculovirus, etc.) in cell culture rooms.