



This document has been developed by The Australian National University (ANU) Recombinant DNA Monitoring Committee (rDNA committee). It is designed to be used to meet the Behavioural requirements for undergraduates (other than Honours students) working in OGTR-certified PC2 facilities at ANU or The Canberra Hospital to meet the Guidelines for Certification of a Physical Containment Facility.

Behavioural requirements for undergraduates working in OGTR-Certified PC2 facilities.

Students (excluding honours students) that have not completed the Biological Safety and Gene Technology Practices courses:

1. Must not carry out work in a PC2 facility except under direct supervision by trained staff, i.e. your supervisor must be present at all times.
2. Must not
 - a. transport or store genetically modified organisms (GMOs) outside of PC2 facilities
 - b. dispose of GMO waste
 - c. clean up spills of GMOs
 - d. remove equipment from a PC2 facility.
3. Must ensure all organisms contained in a PC2 facility must be treated as PC2 GMOs unless labelled otherwise.
4. Must ensure that all GMOs are handled in a way that minimises the possibility of escape. Handling methods will vary according to the kind of organism involved. Specific instructions are to be provided by the local area as required.
5. Must take steps to ensure that non GM work is not contaminated. Material should be kept free of contamination by spatiotemporal separation, i.e.
 - a. working in a different area of the facility or at a different time;
 - b. by decontaminating work areas and equipment (if contamination is suspected)
 - c. after work has been completed, e.g. by wiping down work surfaces and equipment with 80% ethanol.
 - d. Cross-contamination is avoided as a fundamental principle of good science. Decontamination methods will vary according to the kind of organism involved. Specific instructions are to be provided by the local area as required.
6. If a PC2 facility has an anteroom (does not apply to PC2 laboratories), it must be used as the only means to enter or exit the facility. Work must not be conducted in the anteroom.
7. If a PC2 facility has an “Emergency Exit” it must not be used to enter or exit the facility except in an emergency.
8. Lab coats and closed shoes must be worn and long hair tied back at all times when working in PC2 facilities. Food or drink must not be brought into a PC2 facility.

9. Disposable gloves and eye protection must be worn when handling Risk Group 2 microorganisms. Local area WHS representatives are to provide information about Risk Group status as required.
10. Liquids containing Risk Group 2 microorganisms must be handled in a Class II Biosafety Cabinet when there is a risk of aerosol production and release, e.g. when opening sealed tubes after centrifugation or mixing.
11. Class II Biosafety Cabinets must be decontaminated after use. Decontamination methods will vary according to the kind of organism involved. Specific instructions are to be provided by the local area as required.
12. Lab coats, disposable gloves and safety glasses must be removed immediately if contamination is suspected, lab coats and safety glasses given to trained staff working in the PC2 facility for decontamination and gloves discarded in a PC2 waste bin.
13. Lab coats, disposable gloves and safety glasses must be removed, lab coats hung on hooks provided, gloves discarded in a PC2 waste bin and hands disinfected by washing with soap and water or by applying hand disinfectant before exiting a PC2 facility to a non-PC2 area.
14. Visual self-inspection may be required before exiting some PC2 facilities to ensure GMOs are not inadvertently carried out of the facility, e.g. GM invertebrates or GM seed. GMOs detected by visual inspection must be removed and destroyed. Methods for detection and destruction will vary according to the kind of organism involved. Specific instructions are to be provided by the local area as required.
15. All organisms stored in a PC2 facility must be sealed in suitable containers to prevent their dissemination, and containers labelled with the name of the person responsible, the date of storage and the identity of the organism involved, or they must be stored in a way that enables these details to be determined. Storage methods may vary according to the kind of organism involved. Specific instructions are to be provided by the local area as required.

Student declaration

I have read, understood and agree to comply with these requirements when working in ANU associated, OGTR-certified PC2 facilities.

Name:

Signature:

Date:

Supervisor declaration

I have read, understood and agree to implement these requirements during supervision of this student when working in ANU associated, OGTR-certified PC2 facilities.

Name:

Signature:

Date: