

	Edition/Revision: 1/0	Effective date: March 2013
	BIOSAFETY MANUAL	

1.0 INTRODUCTION

PC2-Certified Greenhouse (RTPC2) is located at the Institute of Systems Biology, Universiti Kebangsaan Malaysia. This establishment provides facility for transgenic research. The complex consists of two greenhouses of 6.5 x 8.0m² and 8.0 x 8.0m² in area and provides 6.5 x 1.4 m² and 6.5 x 1.0 m² of plant growth space. These greenhouses are air-conditioned with cooling system, equipped with motorised thermal screen, monitoring control system (temperature and humidity) and automated irrigation system. The walls and roofs are twin-walled polycarbonate glazed

1.1 RTPC2 Features:

- Greenhouse 1: 4 units of benches with space of 6.5 x 1.4m²
- Greenhouse 2: 5 units of benches with space of 6.5 x 1.0m²
- Environmental Control System: Humidification system, motorized thermal screen, cooling system, monitoring system
- Hydraulic services: irrigation system, sewer, drainage water collection and disinfection
- Security system based on thumbprint readings
- Safety facilities: emergency shower, eye-wash and fire extinguisher

1.2 RTPC2 Manual Purposes

The purposes of this manual are to:

1. Introduce the facility (1.0)
2. State facility policies, rules and regulations (2.0)
3. Establish the standards operating procedure (SOP) for the usage of the facility (4.0)

1.3 Special Practices

1. All persons entering the facility must be advised of the potential hazards and meet specific entry/exit requirements (SOP 5)
2. A biosafety manual must be prepared and adopted as policy and must be available and accessible
3. Potentially infectious materials must be placed in a durable, leak proof container during collection, handling, processing, storage, or transport within a facility. (SOP 6&7)
4. Facility equipment should be routinely decontaminated, as well as, after spills or other potential contamination (SOP 12 & 16)
 - a. Spills involving infectious materials must be contained, decontaminated, and cleaned up by staff properly trained and equipped to work with infectious material
 - b. Equipment must be decontaminated before repair, maintenance, or removal from the laboratory
5. Incidents that may result in exposure to infectious materials must be immediately evaluated and treated according. All such incidents must be reported to the laboratory supervisor (SOP 20)

Emergency Telephone Numbers

Ambulance/Fire/Police **999**