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<b>DISPOSAL OF NLMO EXPOSED DURING UNINTENTIONAL RELEASE AND SPILLAGE</b>		


# DISPOSAL OF NON-LIVING MODIFIED ORGANISM (NLMO) EXPOSED DURING UNINTENTIONAL RELEASE AND SPILLAGE

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#### REVISION HISTORY

<b>Revision Number</b>	<b>Revision Date</b>	<b>Description of Amendment / Change</b>

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## 1. OBJECTIVE

The procedure aims to ensure the safe disposal of non-living modified organisms (NLMO) exposed during unintentional release and spillage to protect human beings, animals and the environment.

## 2. SCOPE


This SOP covers all procedures involving the disposal of NLMO / other microorganisms exposed during the unintentional release & spillage at the Kulliyyah of Science laboratories.

## 3. DEFINITION

1. IUM - International Islamic University Malaysia
2. KOS - Kulliyyah of Science
3. IBBC - Institutional Biosafety and Biosecurity Committee
4. SOP - Standard Operating Procedure
5. SO - Science Officer
6. LMO - Living Modified Organism
7. EQSWR - Environmental Quality (Scheduled Wastes)  
Regulation 2005
8. PPE - Personal Protective Equipment

## 4. PREREQUISITES

- 4.1 All laboratory users handling the disposal of NLMO / microorganisms exposed during unintentional release must understand the procedures and adhere to the procedure. They must also wear suitable Personal Protective Equipment such as covered shoes, lab coats, rubber gloves, masks (when required), and goggles (when required).

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Cross-reference with IIUM-KOS-SOP-40: Personal Protective Equipment Management

## **5. RESPONSIBILITIES**

- 5.1 All laboratory users shall be responsible to comply with this standard operating procedure.

## **6. PROCEDURES**

The priority of NLMO/other microorganisms spill clean-up is the affected personnel, then the area.


### **6.1 Affected person:**

- 6.1.1 If you are exposed, immediately remove contaminated clothing and other protective gear, and wash the affected area(s) with soap and water. Spills involving microorganisms require BL-1 treatment.

### **6.2 Affected area:**

- a) Alert lab officers and people in the immediate vicinity.
- b) Put on suitable protective equipment.
- c) Stop the spillage by handling the root cause.
- d) Contain the spillage: cover and surround the affected area twice the spill's size with spill absorbent pillow/towel/tissue.
- e) Disinfect the spill: allow a 20-minute contact period with the disinfectant.
- f) Wipe down any contaminated stationary equipment or furniture with disinfectant.
- g) Clean up the spill: use forceps, tongs, or a broom to clean up, following scheduled waste disposal guidelines.
- h) Decontaminate reusable clean-up items and other reusable equipment via autoclaving or chemical treatment.
- i) Wash hands thoroughly after the clean-up procedures.
- j) Inform the laboratory personnel when the clean-up has been completed.
- k) Treat the debris from the clean-up activities as biohazard waste / clinical wastes and shall be handled as per EQSWR 2005

Cross-reference with IIUM-KOS-SOP-18: Schedule Waste Management

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## 7. REFERENCE

- 7.1 Biosafety, D. O. (2010). *Biosafety Guidelines Contained Use Activity of Living Modified Organism*. Putrajaya, Malaysia: The Ministry of Natural Resources and Environment Malaysia.
- 7.2 IIUM-KOS-SOP-18: Scheduled Waste Management
- 7.3 IIUM-KOS-SOP-40: Personal Protective Equipment Management

## 8. APPENDIX

N/A.