



Biosafety inspections for BSL2, BSL3, Animal, Plant and Arthropod Containment Facilities

7 – 9 October 2013

**Bilik Mesyuarat 1,
Institute for Medical Research, Kuala Lumpur**

Biosafety inspections for BSL2, BSL3, Animal, Plant and Arthropod Containment Facilities

Objectives of workshop

- Understanding basic biosafety principles and biocontainment design (microbiology lab, animal facility, plant and arthropod)
- Knowledge transfer on skills and best practices on conducting proper biosafety inspections
- Using biosafety assessment /inspection process to ensure compliance of biorisk management systems

**WORKSHOP ON “BIOSAFETY INSPECTIONS”
7th till 9th October 2013, Bilik Mesyuarat 1, IMR**

TIME	DAY 1: 7.10.2013
8:00 – 9:00 am	REGISTRATION
9:00-10:00 am	Introduction to the Inspection – Audit Process. Why do it.
10:00-10.20 am	COFFEE BREAK
10:20-12:40 pm	Introduction to Biocontainment, Biosafety principles and practices. Risk groups of microorganisms and Biosafety levels: BSL1, 2, 3 and 4 Physical containment: Facility / Laboratory Design and engineering controls
12:40-2:00pm	LUNCH
2:00-3:00pm	Animal containment Facilities /Laboratories Animal Facilities: BSL1,2,3 and 4, Biosafety Practices in animal facilities. Physical containment: Facility / Laboratory Design and engineering controls
3:00-3:20pm	TEA BREAK
3:20pm-5:00pm	rDNA technology and working safely with GMOs. Viruses, bacterial & viral vector safety
	DAY 2: 8.10.2013
9:00-10:00 am	Laboratory Inspections: Prescriptive vs Performance Approach Who, Why and How and How often?
10:00-10.20 am	COFFEE BREAK
10:20-12:40 pm	The audit and inspection process, what does it mean and how is it used to ensure biosafety/biosecurity compliance. Difference between audits and inspections. When to use what.
12:40-2:00pm	LUNCH
2:00-3:00pm	Biorisk management assessment – principles and practices. How to assess the biosafety management program
3:00-3:20pm	TEA BREAK
3:20pm-4:00pm	Presentation of checklists to be used for auditing biomedical facilities
4:00-5:30pm	GROUP EXERCISES – What is wrong with this picture? Learning to apply the checklists with common sense and consistency. Safety elements that constitute biosafety compliance Major non conformance issues A checklist inspection, Case scenarios; Q & A

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TIME	DAY 3: 9.10.2013
9:00 –10:00 am	Plant Containment Facilities/ Laboratories Plant Facilities: BSL1,2,3 and 4 Biosafety Practices in plant facilities Physical containment: Facility / Laboratory Design and engineering controls
10:00-10.20 am	COFFEE BREAK
10:20-12:40 pm	Special Plant facilities carrying out R & D with associated arthropod pests
12:40-2:00pm	LUNCH
2:00-3:00pm	Arthropod containment of disease vectors (ACL-1, 2 and 3)
3:00-3:20pm	TEA BREAK
3:20pm-5:00pm	Biocontainment facilities for terrestrial and aquatic invertebrates (reference to fish, prawn & other aquacultures) Biosafety practices Biosafety inspection of above special environment (animal, plant, invertebrate). Issues and concerns
5:00-5:30pm	Q & A

LIST OF PARTICIPANTS

No.	Names	Department
1.	Ms. Adela Ida Jiram	Parasitology Unit, IMR
2.	Mr. Md Subail Harun	Parasitology Unit, IMR
3.	Dr Rohaidah Hashim	Bacteriology Unit, IMR
4.	Dr Rahizan Issa	Bacteriology Unit, IMR
5.	Ms. Jamaayah Mohd Zahidi	Bacteriology Unit, IMR
6.	Ms. Azura Mohd Nor	Bacteriology Unit, IMR
7.	Ms. Tay Bee Yong	Bacteriology Unit, IMR
8.	Ms. T.S.Saraswathy	Virology Unit, IMR
9.	Dr. Ravindran Thayan	Virology Unit, IMR
10.	Dr. Mohd Apandi Yusof	Virology Unit, IMR
11.	Dr. Rozainanee Mohd Zain	Virology Unit, IMR
12.	Dr. Nur Izaati Mustapa	Virology Unit, IMR
13.	Ms. Jeyanthi Suppiah	Virology Unit, IMR
14.	Ms. Nor Azyiah Mat Rahim	Virology Unit, IMR
15.	Dr Nazni Wasi Ahmad	Entomology Unit, IMR
16.	Dr Mohd Khadri Shahar	Entomology Unit, IMR
17.	Dr Nor Asiah Muhamad	Occupational Health & Safety, IMR
18.	Dr Shazana Rifham Abdullah	Occupational Health & Safety, IMR
19.	Mr. Onn bin Mohd Jadi	NRE, Biosafety Dept
20.	Ms. Kayathri Panjavaranam	NRE, Biosafety Dept
21.	Ms. Jaidah binti Kalid	NRE, Biosafety Dept
22.	Dr. Mohamad bin Md Salleh	GMAC

TRAINERS



Dr Robert A. Heckert, BSC, DVM, PhD, CBSP, SM (NRCM)

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Dr. Heckert is a veterinarian with a PhD who is recognized by the American Biological Association as a Certified BioSafety Professional and by the American Society for Microbiology as a Specialist Microbiologist in Biological Safety Microbiology. Robert Heckert Consulting is an international biosafety consulting business that provides advice and guidance on all issues of biosafety and biocontainment



Dr Andrew Berry is an Assistant Director in the Monitoring Section and has worked in the OGTR, Australia since 2004, working as an Evaluator in the Contained Dealings Evaluation Section developing guidelines for physical containment facilities, including high-level containment plans for research proposals involving GM micro-organisms and certifying high-level facilities for use with GMOs. He transferred to the Monitoring Section to become an Inspector in 2009



Dr Lee Han Lim, JSM KMN AMN is Head of the Medical Entomology Unit and the WHO Collaborating Centre for Ecology, Taxonomy and Control of Vectors of Malaria, Filariasis and Dengue at the IMR, Kuala Lumpur. His main interests are in traditional, microbial and genetic control of vectors of these mosquito-borne diseases. Dr Lee has served in a number of WHO committees and as Dean of the SEAMEO-TROPED post-graduate Diploma in Applied Parasitology & Entomology programme. He is also a Past President of the Malaysian Society of Parasitology & Tropical Medicine and a former Editor of the Tropical Biomedicine Journal. He has published extensively and received numerous patents, awards, and government honours such as JSM, KMN and AMN.