ITB UT ABEN PRRI ISAAA

ITB-UT Workshop on Environmental Biosafety

Introduction

In 2000, the Cartagena Protocol on Biosafety (CPB) was adopted with a focus on the transboundary movement of living modified organisms. The main functions of the CPB are:

Procedures for countries that do not yet have regulations

Agreement on risk assessment

Biosafety Clearing House

In September 11, 2003, the CPB came into force and the first Meeting of the Parties (MOP) to discuss the implementation took place in 2004 (MOP1, Malaysia). Since 2004, the MOPs have taken place on average every two years: MOP2 (2005, Canada), MOP3 (2006, Brazil), MOP4 (2008, Germany), MOP5 (2010, Japan) and MOP6 (2012, India).

It is the obligation to Implement the protocol in each contracting party as well as meeting with its national regulatory procedures.

Here, ITB, (Institute of Tropical Biology) and Gene Research Center representing UT (University of Tsukuba) would like to initiate as a part of their bilateral collaboration on S&T, a biosafety workshop will be held as an initiation of the institutional capacity building on planning and managing transgenic research oriented to deliberate release to the environment. This is also represented by Plant Transgenic Design Initiative (http://ptrad.gene.tsukuba.ac.jp/). The workshop will also be cooperated by ABEN (Asian Biosafety Education Network, http://www.gene.tsukuba.ac.jp/Plant/GeneticDiversity/ABEN/aben.html), PRRI(http://www.pubresreg.org/), ISAAA(http://www.isaaa.org/) and SCBD (http://www.cbd.int/).

The workshop contains: 1) Basic ideas on transgenic technology and products, 2) Regulatory Framework on biosafety, 3) implementation of biosafety at national and institutional level and 4) Overall ideas of Risk assessment and risk management. Lab sessions cover giving ideas on transgenic organisms and elements of risk assessment techniques.

The number of lecture participants shall be determined by Vietnamese host but lab work participants shall be maximum of 25 individuals with some biology lab work experience with a MSc level experience.

Venue:

Institute of Tropical Biology, VASI, Ho Chi Min City, Vietnam

Period: May 21, Monday to May 24 Thursday, 2012.

Program

Day 1 (May 21, Mon)		
0900-0945a	45 min	Opening Ceremony
0945-1045a	60 min	What are transgenic organisms? Prof. B. Ghareyazie
1045-1100	15 min	Coffee break
1100-1200 noon	60 min	Overview on biosafety: Prof. Kazuo Watanabe
1200-1300	60 min	Lunch
1300-1500	120 min	GFP experiment using transgenic bacteria Dr. T. Oguchi (Tsukuba)
1500-1530	30 min	Tea Break
1530-1730	120 min	GFP experiment using transgenic bacteria Dr. T. Oguchi (Tsukuba)
Day 2 (May 22, TUE)		
0900-0940a	40 min	Risk ANALYSIS examples I: Salt tolerance in Eucalypts and potatoes Prof. Kazuo Watanabe(SCG Thai speaker)
0940-1020a	40 min	Risk ANALYSIS examples II: Rice Prof. B. Ghareyazie
1020-1040a	20 min	Coffee break
1040-1120a	40 min	Risk ANALYSIS examples III: Food safety (Japanese example) Dr. T. Oguchi (Tsukuba)
1120-1200p	40 min	Risk assessment technical methodology on environmental biosafety Prof. Kazuo Watanabe (Tsukuba)
1200-1300	60 min	Lunch
1300-1330		Discussion on GFP data
1330-1530	120 min	Soil microbial diversity lab work 1. backgrounds and procedure guide

		sampling and plating Dr. T. Oguchi (Tsukuba)
1530-1600	30 min	Tea Break
1600-1700	60 min	Cases on soil microbial diversity assessments Prof. Kazuo Watanabe (Tsukba)
1700-1800		Identification of LMOs: Legal system Prof. Kazuo Watanabe
Day 3 (May 23, Wed)		
0900-0940a	40 min	How to design risk ANALYSIS Prof. B. Ghareyazie
0940-1020a	40 min	Identification technologies I: Molecular basis Dr. T. Oguchi (Tsukuba)
1020-1040a	20 min	Coffee break
1040-1110a	30 min	Identification technologies II: ELISA and others Dr. T. Oguchi (Tsukuba)
1110-1130a	30 min	Lab work on detection of LMOs Procedure introduction Dr. T. Oguchi
1130-1215p	45 min	PCR set up and gel preparation
1215-1315	60 min	Lunch
1315-1415	60 min	How to make sampling on detection on bulk LMOs-FFP. Prof. Kazuo Watanabe (Tsukuba)
1330-1530	60 min	PCR detection (set up)
1515-1545	30 min	Set up gel electrophoresis
1545-1600	15 min	Tea break
1600-1700	60 min	Electrophresis detection and discussion
1700-1730	30 min	Summary of lab works
Day 4 (May 24, Thu)		
0830-0900a	30 min	Practicing risk assessment summary Prof. K. Watanabe (Tsukuba)
0900-0940a	40 min	How to design risk ANALYSIS Summary Prof. B. Ghareyazie
0940-1000a	20 min	Ending ceremony