

ACM12

Dr. Rosario Monsalud, the chairman of HRD-TF reported the annual activities of this year. The 3rd ACM International Training- Workshop on Quality Control of Microbial-Based Fertilizers was held at IMBT-VNUH from March 11 to 13 in 2015 hosted by IMBT and SEARCA in Vietnam. The participants who attended from Cambodia, Laos, Indonesia, Myanmar, Phillipines, Thailand and Vietnam attributed number of 50 in lecture session, and number of 30 in laboratory session. The trainings held by PNCM consisted of; (1) Microbiological Analysis of Coconut Water Concentrate (CWC) Products (June 25-26, 2015), (2) Maintenance and Preservation of Microbial Cultures (July 9, 2015), (3) Microbiological Analysis of Refined Sugar (August 4-7, 2015).

In addition, Dr. Monsalud also reported that approximately 250 participants took part in the 13th symposium of PNCM, and the following training workshop titled "Basic Techniques in Microbiology" joined 14 participants. In the end of the report, Dr. Monsalud made announcement for inviting host organizations for the 4th ACM International Training Workshop and also requested support from ACM members. The organization which is willing to be the host is asked to send E-mail.

ACM11

◆ Report on HRD activities in the Philippines

PNCM conducted short training programs on culture preservation, quality control and microbiological testing laboratory analysis.

◆ Report on HRD activities in Vietnam

VTCC organized a number of seminars on different topics in 2014 and sent two scientists to NBRC in Japan to engage in a one-month training course.

◆ Announcement

The 3rd ACM International Training "Workshop on Quality Control of Microbial Fertilizers"

March 11-13, 2015 @ Institute of Microbiology and Biotechnology (IMBT), Vietnam (organized by ACM, IMBT and SEARCA)

ACM10

◆ Report on the ACM Workshop "International Training Course on Application of Biotechnology Tools for Rapid Identification of Food-borne Pathogens"

The workshop was held in February 2013 at NBRC Japan as a part of the NBRC 10th anniversary event, financially supported by the Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA). 12 researchers from seven ASEAN countries participated in this workshop which included lectures about microbial identification and hands-on training on the rapid identification method using MALDI/TOF MS.

◆ Report on HRD activities

- ACM Microbial Taxonomy Training Course (KCTC Korea, September 2013)
- Domestic Workshops (held occasionally at KCTC Korea)
- HRD activities at Indonesia Culture Collection (InaCC) (supported by NBRC)
- Training workshop on identification of Mitosporic Fungi (IBMAS Mongolia, August 2013, supported by NBRC)
- Workshop on DNA-DNA hybridization (VTCC Vietnam, March 2013, supported by NBRC)
- Training courses at BIOTEC and PNMCC in the Philippines.

ACM9

◆ Report of HRD activities in member countries

- WDCM Asian Training Course on Management and Application of Microbial Data Resources (IMCAS China, May 2011)
- Microbial Taxonomy Training Course (KCTC Korea, Jan & Sept 2012)
- International and domestic projects and workshops (NBRC Japan)
- Short courses on taxonomy and microbial techniques (VNU Vietnam)
- Workshop on the use and maintenance of equipment for DNA amplification and visualization of results (IBMAS, Mongolia)

◆ Announcement

- The International Training “Workshop on Rapid Identification of Foodborne Pathogens for Food Safety” (February 2013, sponsored by NBRC and SEARCA)

ACM8

◆ Report on “Long-Term Preservation and Management of Microbial Cultures with Agricultural Importance” training course (May 2011, BIOTEC Thailand)

The course consisted of 13 lectures which cover management, database design, techniques and information on classification, taxonomy, preservation and DNA sequence data processing. Laboratory activities demonstrating liquid drying and cryopreservation were also conducted.

ACM7

◆ Report of HRD activities in member countries

- Seminars and workshops on the topic of conservation and sustainable use of microbial resources (MARDI Malaysia)
- International Congress of Malaysian Society for Microbiology (Malaysia, Dec 2009)

◆ Announcement

- Training Course “Long-Term Preservation and Management of Microbial Cultures with Agricultural Importance”(BIOTEC Thailand, March or May 2011)

ACM6

◆ Appointment of new chairman

All members agreed to select Dr. Rosario G. Monsalud (Philippines) to replace Prof. Indrawati Ganjar as chairman of the HRD-TF

- ◆ Introduction of training course in Biotechnology, Bio-industry, and BRC management (NITE, Japan)
- ◆ Introduction of OECD Best Practice Guidelines for Biological Resource Centre

ACM5

- ◆ Report and evaluation of ACM-HRD activities
- ◆ Discussion on future activities
 - Cooperation of ACM member countries should be maintained
 - The need to study the diversity of ACM member countries, including indigenous Basidiomycota, Archaea and tropical marine microorganisms. The development of new methods for the isolation of unculturable microorganisms is also important. To carry out these activities, trained taxonomists will be needed.

ACM4

- ◆ Report by Dr. Indrawati Ganjar
 - HRD of microbiology in Southeast Asia from 1970-2007
 - Importance of microbial ecology
 - Importance of collaborative research to train young microbiologists
- ◆ Introduction of the UNESCO Post-Graduate Inter-University Course in Microbiology and the JICA-JBA Research Training Course as actual cases of HRD programs carried out in Japan

ACM3

No minutes

ACM2

- ◆ Objectives of HRD

Dr. Indrawati Gandjar, the Chair in panel discussion of HRDM workshop held on 3 November 2005, concluded and identified several objectives to be considered on HRD as reported from ACM member countries and recommended from participants as following:

 - encourage young microbiologists to study the indigenous microbial diversity in their respective countries
 - improve skill and knowledge of young scientists in molecular biology and bioprocessing engineering
 - organize training courses on standard and updated techniques of isolation, identification, and preservation of cultures
 - support research and special training activities of ACM member countries
 - plan exchange program for scientists (short and long term) with the cooperation of ACM member countries (Japan, China, Korea, Thailand)
 - enhance dissemination of research results to all ACM member countries for evaluation at seminars or workshops
 - coordinate good cooperation and collaboration between the ACM members
- ◆ Discussion on future activities of the Task Force
 - Academic field- China and Korea informed that there are scholarships for international students to undertake M.S. and Ph.D studies under the scheme of their respective academy. Further information on such opportunity will be provided in due course.
 - Specialized field- Japan and Thailand can support ACM members with a short-term training program in specialized fields such as culture collection management, identification & taxonomy of microorganisms and

molecular techniques for structural & functional analysis.

◆ Announcement

Thailand announced the availability of four full scholarships of short-term training at BIOTEC to ACM members. The training will be under the Neighboring Countries Program targeted to Cambodia, Lao PDR, Myanmar and Vietnam. The courses offer three-month training from July to September. The announcement for applications will be made in January 2006. For other member countries, the training will be agreed on a case-by-case basis. The trainees should come at their own budget and BIOTEC will provide training without any charge.

ACM1

Task Force on Human Resource Development (HRD)

The Task Force on Human Resource Development (HRD) was established and ten countries at the first ACM meeting expressed their willingness to join the task force (China, Indonesia, Japan, Korea, Malaysia, Mongolia, Myanmar, the Philippines, Thailand and Vietnam)