

## **REPORT**

### **The 4<sup>th</sup> Asian Consortium for the Conservation and Sustainable Use of Microbial Resources Meeting**

#### **Participant Country:**

1. Nine Country Member (China (3 persons), Indonesia (10 persons), Japan (8 persons), Korea (6 persons), Laos (1 person), Mongolia (1 person), Thailand (2 persons), The Philippines (1 person), Vietnam (1 person)) were participated
  2. Two Countries (Bhutan (1 person) and UK (1 person)) were observer
  3. About 50 Indonesian Scientists
  4. Three Country Members (Cambodia, Malaysia, Myanmar) were absent
- Totally 75 persons were participated

#### **Date:**

Tuesday, 22 November 2007

#### **Venue:**

1. Mercure Convention Center, Jl. Taman Impian Jaya Ancol, North Jakarta, Indonesia
2. Cibinong Science Center (CSC), Jl. Raya Bogor Km. 46, Cibinong 16911, Indonesia

#### **Program:**

1. Joining the Indonesian National Congress of Sciences
  - a. Tan Sri Dato' Dr. Mohd. Salleh Yasin: Impacts of Climate Change on Global Health: Role of UNU-IIGH
  - b. Special Lecture for ACM Members and Indonesian Microbiologist by Prof. Dr. Michael Goodfellow entitle “*Actinobacteria Biodiversity as a Source of New Antibiotics for Healthcare*”**
  - c. Prof. Dr. Sofyan Effendi (Department of National Education, Indonesia)
  - d. Ir. Siswono Yudohusodo (Department of National Education, Indonesia)
2. Welcome and opening remarks of ACM-4 Meeting by Prof. Dr. Umar Anggara Jenie, Chair of Indonesian Institute of Sciences (LIPI)
3. Adoption of Minute of Meeting ACM-3 in China by Dr. Juncai Ma
4. Passing of the Stone Seal gift from China to Indonesia
5. Election of New Chairman of ACM
  - Chair: Dr. Hee-mock Oh from Korea
  - Vice Chair: Prof. Dr. Nguyen Lan Dung from Vietnam
6. Country Report
  - a. China by Dr. Juncai Ma
  - b. Indonesia by Dr. Wellyzar Sjamsuridzal
  - c. Japan by Dr. Ken-ichiro Suzuki

*Move to Cibinong Science Center (CSC)*

7. Visiting Cibinong Science Center
  - a. Plantation of special tree in EcoPark
  - b. Presentation about CSC by Dr. Dedy Darnaedi, Director of RC Biology-LIPI
  - c. Promotion of Indonesia Culture Collection (InaCC)
  - d. Lab Tour in RC Biology-LIPI

**Date:**

Friday, 23 November 2007

**Venue:**

Conservation Building in Bogor Botanical Garden

**Program:**

1. Keynote Lectures
  - a. Prof. Dr. Goodfellow: “*Streptomyces Phylogeny and Functionality as a Taxonomic Roadmap to Biosynthetic Genes*”
  - b. Dr. Misa Otoguro: “*Joint Research Project on Taxonomic and Ecological Study of Fungi and Actinomycetes in Indonesia and Japan*”
2. Country Report
  - a. Korea by Dr. Hee Mock Oh
  - b. Laos by Mr. Khampheng Phothichitto
  - c. Mongolia by Dr. Tsetseg Baljinova
  - d. Thailand Dr. Tanit Changthavorn
  - e. The Philippines Dr. Rosario G. Monsalud
  - f. Vietnam by Prof. Dr. Nguyen Lan Dung
  - g. Bhutan by Medon Yaganagi, M. Sc
3. Report on ACM Task Forces
  - a. Task Force on Human Resource Development (HRD)
    - (i) Prof. Dr. Indrawati Ganjar
      - Describe the HRD of microbiology in the Southeast Asia region from 1970-2007 and there is an enormous progress in the capacity and quality of the microbiologists from the Asian countries
      - The respective governments must pay more attention to meet the needs of the microbiologists by supporting them with the necessary research facilities and allocating a special research budget
      - Microbial ecology becomes more and more important because of the global climate change which might change the habitat of microorganisms
      - Continuing collaborating research to train young microbiologists in genetic engineering, taxonomy based on molecular biology, chemical taxonomy, medical biotechnology, and techniques to cultivate “recalcitrant” isolates, because not all ACM member countries have the facilities for those research activities.

- Attention should be given to the indigenous Basidiomycota , edible and not edible (wild) mushrooms which are abundant in the ACM member countries and studies on Asian Flu and tuberculosis
- (ii) Dr. Hiroko Kawasaki
  - Introducing the UNESCO Post-Graduate Inter-University Course in Microbiology in Osaka University and JICA-JBA Research Training Course
  - The microbial BRCs of each Asian countries will become good platforms for transfer of microorganisms for academic research and industrial usages in Asia
- b. Task Force on Biological Information Management (BIM)
  - (i) Dr. Ken-ichiro Suzuki
    - Construction of ACM database (<http://www.abrcn.net/>)
    - Establishment of ACM homepage (“<http://www.acminfo.net/>”)
    - In the discussion point, the following matters were presented: ACM members for the 2nd phase, Relationship to the regional CC networks, Relationship to other international initiatives, International Taxonomy Databases, ISO
  - (ii) Dr. Juncai Ma
    - Describing the ACM databases and inviting other CC to join to the database.
    - The benefit for member is for sharing of scientific data in common platform; catching up with the updated taxonomy; crosscheck of the data such as misnumbering and misidentification; and effective linkage to the related DB, DNA sequence, and scientific names
- c. Task Force on Management of Material Transfer (MMT)
  - (i) Dr. Tanit Changthavorn
    - Describing the developing MMT model and implementation and Conducting survey in Thailand and MMT model of Thailand case
    - Describing the joint discussion between Japan and Thailand about Management of Material Transfer for Deposit and Distribution of Microbes in BRCs on the basis of the Convention on Biological Diversity (CBD)
    - Proposing the program as followed; First Year is information exchange, ACM survey, MMT guideline in next year; and Second Year is MMT training and MMT implementation and monitoring
  - (ii) Mr. Shun Shioya
    - Describing the discrepancies between the principle of the CBD and current BRC activities
    - The discussion points were shall BRCs examine whether the appropriate authority in the country of origin might or might not have the authority to issue PIC and MAT?, shall BRC obtain the permission from the country of origin before deposit and distribution of microbes?, with whom in the country of origin can users negotiate a benefit sharing in case of commercial use of the microbe?

4. Discussion and Conclusion on Task Forces
  - a. TF of HRD
    - (i) Training
    - (ii) Exchange Scientists
    - (iii) Research collaboration addressing specific issues to attract funding
  - b. TF of BRCNet
    - (i) Data base on microbial culture collection of ACM member countries
    - (ii) Data base on publication of ACM member countries
    - (iii) Research Group directory and on-going research and research facilities
    - (iv) Invitation to join the network: data creation, standard platform, standalone database, ACM entry.
  - c. Management of microbial genetic resources in ACM member countries – manual/guidelines for ACM member countries for MTA including packaging, shifting etc.
  - d. Electronic journal of ACM
  - e. Reposition of ACM among many initiatives in Asia lead to the formation of Association/Foundation
  - f. Public awareness on the importance of microbial genetic resources to mankind
    - (i) Each ACM member may act as science education facilities
    - (ii) Each ACM member shall actively influence the syllabus of the education system to introduce the important of microbial resources at early stage
    - (iii) Each ACM member shall develop program on public awareness on the important of microbial resources to the community e.g. biovillage etc.
5. Announcement of ACM-5 and ACM-6
  - a. ACM-5 will be held in Korea
  - b. ACM-6 will be held in Vietnam

\*Content of Country Report:

- (i) Human Resource Development
- (ii) BIM
- (iii) MMT
- (iv) Sustainable use of microorganisms for community development