



Mahidol University
Wisdom of the Land

International Workshops on “Promoting Biotechnology Education,
Research and Knowledge Transfer in Asia and the Pacific”

Achievement of the UNESCO Biotechnology School in Asia Project: Thailand’s Experiences

Final Dissemination Workshop for UNESCO Biotechnology School in Asia

15-16 October, 2017, Faridabad, India

By Prof. Dr. Watanalai Panbangred



First phase:

A one year non-degree program by International co-operative training course for young researchers in the field of biotechnology

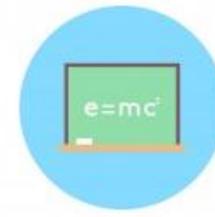
Under UNESCO cooperating Program for Development of Human Resources and Strengthening of Scientific Network in Asia



There are **two types** of teaching arrangement.

- A) Advanced education course
- B) Fundamental education course





Outline of a one year training program

Course work for a one year training program

⊕ Advanced course

Advanced lecture
(one month at MUSC)

Research training in Japanese
University Network for 11 months

⊕ Fundamental course

Basic lecture
(one month at MUSC)

Research training in Thai University
Network (MU, CU, KU KMUTT and
BIOTEC) for 11 months





Number of participants in a one year training course

Batch	Year	Number of trainees	
		 Thailand (Fundamental course)	 Japan (Advanced course)
1	2004-2005	6	9
2	2005-2006	6	8
3	2006-2007	11	8
Total		23	25





Nationality of participants under a training program

Country	Number of participants			
	2004-2005	2005-2006	2006-2007	Total
Bangladesh	1	1		2
Cambodia	1	1	1	3
China		1		1
India	1			1
Indonesia	2	2	3	7
Korea			1	1
Laos	1	1	1	3
Malaysia		1		1
Mongolia	1	1	2	4
Myanmar	1		2	3
Pakistan		1		1
Philippine	1	1	2	4
Thailand	4	2	4	10
Vietnam	2	2	3	7

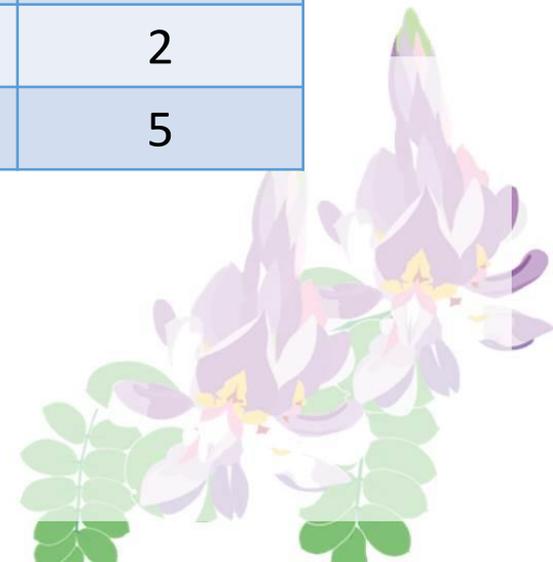




Phase 2: UNESCO Biotechnology School in Asia (Master degree program)

Batch	Year	Number of students		
		Thailand	Japan	Indonesia
1	2012-2014*	6 (MU= 2)	4	1
2	2013-2015	5 (MU= 2)	4	2
3	2014-2016	6 (MU= 1)	3	2
Total		17	11	5

Note: *one student from Cambodia resigned from the program



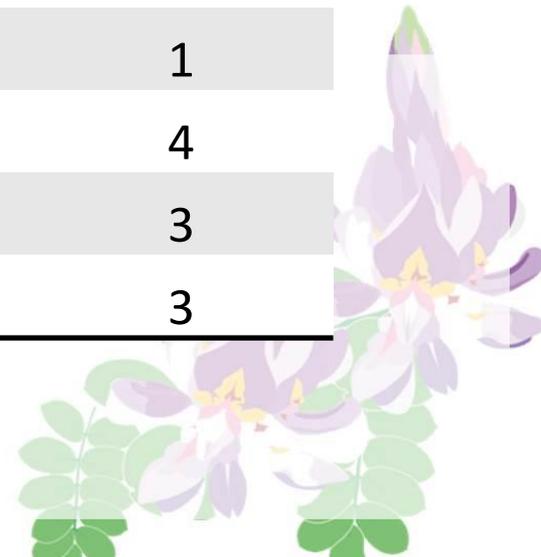


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Nationality of students under UNESCO Biotechnology School in Asia

Country	Number of participants			
	2012-2014	2013-2015	2014-2016	Total
Cambodia 	4	5	2	11
Indonesia 	2	1	1	4
Laos 	2	1	4	7
Mongolia 			1	1
Philippine 	1	2	1	4
Thailand 	1	1	1	3
Vietnam 	1	1	1	3





Problem for the degree program

1. Basic knowledge of participants in Thailand under UNESCO Biotechnology School in Asia are not enough.
2. English proficiency.
3. Time constraint of two years for graduation.
4. Personal adaptation to new environment





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Acknowledgement



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Educational, Scientific and
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- UNESCO
- Japanese university consortium
- Thai university consortium/BIOTEC

