



JSPS Asian CORE Program (2009-2013)
Hanoi Meeting
on
**“Next-Generation Bioproduction Platform
Leveraging Subtropical Microbial Bioresources”**

14-15 October (Thu.~ Fri.) 2010

Center For Women & Development
Conference room 4-5, 3rd Floor

20 Thuy Khue-Tay Ho- Hanoi, Vietnam

Young Scientists Seminar 2010

14 Oct. 2010

From	To			
8:00	8:30		Registration	
8:30	8:40	1	Welcome address	Dr. Doung Van Hop (Director of IMBT, Viet Nam)
		2	Welcome address	Prof. Takuya Nihira (Osaka U, Japan)

Morning Session (Chaired by Dr. Nguyen Huynh Minh Quyen and Prof. Kazuo Sakka)

From	To			
08:40	09:10		Keynote Lecture 1: Bio-based phosphorus recycling for forestalling the looming crisis of phosphorus	Prof. Hisao Ohtake (Osaka U, Japan)
09:10	09:25	1	Lipid accumulation of <i>Chlorella sorokiniana</i> 1019 under mixotrophic culture condition	Ms. Siriwat Kucharoenphaibul (Kasetsart U, Thailand)
9:25	9:40	2	Bioconversion of xylan to xylooligosaccharide by xylanolytic enzyme from <i>Anoxybacillus</i> sp. strain JT-12	Ms. Jitladda Thitikorn-amorn (King Mongkut's U of Technology Thonburi, Thailand)



09:40	09:55	3	Characterization of predominant uncultured bacteria affiliated with the candidate phylum TM7 in an acidophilic nitrifying reactor	Mr. Nguyen Minh Giang (IMBT, Vietnam)
09:55	10:10	4	Study antimicrobial activity of actinomycetes isolated from Catba island-Vietnam	Mr. Le Phuong Chung (Nha Trang University, Vietnam)
10:00	10:30		Coffee Break	
10:30	11:00		Key note Lecture 2: Recombinant enzymes-A tool for agricultural, industrial and medical applications	Assoc. Prof. Dr. Quyen Dinh Thi (Institute of Biotechnology, Vietnam Academy of Science and Technology, Vietnam)
11:00	11:15	5	Cloning of gene responsible for growth at high temperature in yeast	Ms. Vorrapan Buajamrat (Mahidol U, Thailand)
11:15	11:30	6	Isolation and functional analysis of <i>afsA</i> homologue from <i>Streptomyces</i> SBI034, a soil isolate with antifungal activity	Ms. Bungonsiri Intra (Mahidol U, Thailand)
11:30	11:45	7	Sensitive detection and quantification of <i>Burkholderia pseudomallei</i> in soil samples using culture-dependent and -independent approaches	Mr. Trinh Thanh Trung (IMBT-VNUH, Vietnam)
11:45	12:00	8	Construction of a phosphatase double knockout <i>E. coli</i> for improving efficiency of phytase screening	Ms. Jitsupang Rodbumrer (Mahidol U, Thailand)
12:00-14:00			Lunch & Poster Session	



Afternoon Session		(Chaired by Dr. Duong Van Hop and Prof. Hisao Ohtake)		
14:00	14:30	Key note Lecture 3: Structure and function of "cellulosome," highly active cellulolytic multi-enzyme complex	Prof. Kazuo Sakka (Mie University, Japan)	
14:30	14:45	9	Development of a whole-cell biocatalyst for valuable chemicals production	Mr. Akasit Siriphongphaew (Mahidol U, Thailand)
14:45	15:00	10	Enzymatic saccharification and fermentation technologies for ethanol production from lignocellulosic biomass	Mr. Houmpheng Theuambounmy (National Authority for Science and Technology, Laos)
15:00	15:05	11	Bacteriocins produced by newly isolated lactic acid bacteria from Thai fermented foods	Mr. Naoki Ishibashi (Kyushu U, Japan)
15:05	15:30		Coffee Break	
15:30	15:45	12	Optimizing Co-Treatment process of septic Sludge and organic waste by thermophylic anaerobic digestion for the energy recovery	Mr. Thai Manh Hung (IMBT-VNUH, Vietnam)
15:45	16:00	13	Whole cell detection of pediocin PA-1/AcH producing lactic acid bacteria by MALDI-TOF/TOF mass spectrometry to be used as starter culture in Nham, a traditional fermented pork sausage	Mr. Yutthana Kingcha (National Center for Genetic Engineering and Biotechnology, Thailand)
16:00	16:15	14	Screening CoQ10 producing strains among yeast collection at the VTCC and study phylogeny of group with the highest CoQ10 content	Ms. Tran Thi Le Quyen (IMBT-VNUH, Vietnam)
16:15	16:30	15	Molecular diversity and construction of a lignocellulose degrading microbial consortium for biotechnological conversion of local agricultural biomass	Ms. Thanaporn Laothanachareon (National Center for Genetic Engineering and Biotechnology, Thailand)
16:30	17:00		Closing Ceremony Presentation Award Ceremony Closing Remark by	Prof.Dr. Takuya Nihira (Osaka U, Japan)
19:00			Welcome Dinner	



Joint Symposium 2010

15 Oct. 2010

Chaired by Dr. Duong Van Hop (IMBT) and Prof. Takuya Nihira (Osaka U)

8:00 8:10 Short Summary about activities of the Asian CORE Program in 2009-2010 Prof. Takuya Nihira (Osaka U, Japan)

Reports by the working teams (20 min for each report)

08:10 08:50 Team 1 Bioactive compounds:
Drug lead discovery from microorganisms in Thailand Prof. Yasuhiro Igarashi (Toyama Pref. U, Japan)

08:50 09:30 Team 2 Lactic acid bacteria:
High throughput detection and validation of bacteriocin screening system by whole cell MALDI-TOF mass spectrometry Dr. Wonnop Visesanguan (National Center for Genetic Engineering and Biotechnology, Thailand)
Isolating bacteriocin –producing lactic acid bacteria from Vietnamese sources Dr. Nguyen Quynh Uyen (IMBT, Vietnam)

09:30 09:50 Team 3 Phytase:
Polysaccharide hydrolases from chicken gut metagenomes Dr. Suthep Wiyakrutta (Mahidol U, Thailand)
Establishment of screening system for novel phytase producing bacteria Prof. Kozo Asano (Hokkaido U, Japan)

9:50 10:20 Coffee Break

10:20 10:40 Team 4 Cellulase:
High potential plant cell wall degrading enzymes from *Paenibacillus curdlanolyticus* B-6 Assoc. Prof. Dr. Khanok Ratanakhanokchai (King Mongkut's U of Technology Thonburi, Thailand)



10:40	11:00	Team 5	Yeast 1: Selection of oleaginous yeast and its lipid production	Prof. Dr. Savitree Limtong (Kasetsart U, Thailand)
11:00	11:20	Team 6	Yeast 2: Expression pattern of selected stress-related genes in thermotolerant <i>Saccharomyces cerevisiae</i> strains in response to long-time exposure to heat	Dr. Thipa Asvarak (Mahidol U, Thailand)
11:20	11:40	Team 7	Biocatalyst for hydrophobic process: Bioconversion of Water-immiscible chemicals	Dr. Thunyarat Pongtharangkul (Mahidol U, Thailand) Dr. Kohsuke Honda (Osaka U, Japan)
12:20	12:40	Team 8	Bacterial consortium: Application of biomass-specific thermophilic microbial consortia for saccharification and production of biorefinery products from local agricultural biomass	Dr. Niran Roongsawang (National Center for Genetic Engineering and Biotechnology, Thailand)
12:40	12:50		General discussion and closing remarks (Chaired by Prof. Takuya Nihira)	
12:50	14:00		Lunch	
14:00	16:30	Excursion	Institute of Biotechnology Vietnam Academy of Science and Technology, 18 Hoang Quoc Viet Road-Hanoi	
17:00	18:00		Summit meeting of representatives of country member of the JSPS Asian CORE Program 2009-2013 (Meeting room 603, Institute of Microbiology and Biotechnology, E2-144 Xuanthuy, Cau Giay – Hanoi, Viet Nam)	



Poster Presentation

- P-1 Bioactive compound of endophytic actinomycetes from Laos medicinal plants and their anti-microbial activities
Ms. Phetsamone Phommaxay
(National Authority for Science and Technology, Laos)
- P-2 Screening for *Streptomyces spp.* with activities against plant pathogens
Mr. Sor Ratha
(Royal University of Phnom Penh, Cambodia)
- P-3 News about aquatic hyphomycetes isolated from fallen leaves in Vietnam
Mrs. Le Thi Hoang yen
(IMBT-VNUH, Vietnam)
- P-4 Isolation of cDNA encoding for ARNT of aquatic animals collected in Ma Da and Cat Tien
Mr. Dinh Ba Tuan
(University of Natural Sciences, VNUH, Vietnam)
- P-5 Investigation of inhibition capacity of *Amphiprora sp.*, on human epidermic carcinoma cells
Ms. Pham Thi Bich Dao
(IMBT-VNUH, Vietnam)
- P-6 Controlling invasive knotweeds (*Polygonum spp.*) by stem injection of glyphosate-herbicide: case study in king county, WA USA
Mr. Sophany Phauk
(Royal University of Phnom Penh, Cambodia)