

The Young Scientist Seminar 2011

Bioresources: Their Potentials & Applications The Asian Core Program (2009 – 2013)



October 26th, 2011

Faculty of Science, Mahidol University 272 Rama VI Road, Ratchathewi, Bangkok 10400, THAILAND

Hosted by: Mahidol University, Faculty of Science (MU·SC)

In Association with: Osaka University (OU) National Science and Technology Development Agency (NSTDA), Thailand National Research Council of Thailand (NRCT) Japan Society for the Promotion of Science (JSPS)

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Bioresources: Their Potentials & Applications

The Asian Core Program (2009 – 2013)

"Next-Generation Bioproduction Platform Leveraging Subtropical Microbial Bioresources"

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October 26th, 2011

Room K102, Chalermprakiet (K) Building Faculty of Science, Mahidol University 272 Rama VI Road, Ratchathewi, Bangkok 10400, THAILAND

List of Committee

Advisory Committee

Prof. Skorn Mongkolsuk, Dean *Faculty of Science, Mahidol University, Thailand*

Prof. Yasuo Igarashi University of Tokyo

Prof. Kenji Sonomoto *Kyushu University*

Dr. Douong Van Hop, Director *Institute of Microbiology and Biotechnology, Vietnam National University Hanoi, Vietnam*

Dr. Sourioudong Sundara, Director Science and Technology Research Institute, National Authority of Science and Technology, Laos PDR

Mr. Thao Sokunthea, Head Department of Biology, Royal University of Phnom Penh, Cambodia

Prof. Vithaya Meevootisom, Head Department of Microbiology, Faculty of Science, Mahidol University, Thailand

Assoc. Prof. Chuenchit Boonchird, Head Department of Biotechnology, Faculty of Science, Mahidol University, Thailand

Scientific committee

Prof. Takuya Nihira Prof. Yasuo Igarashi Prof. Kenji Sonomoto Prof. Kazuhito Fujiyama Prof. Vithaya Meevootisom Prof. Watanalai Panbangred Prof. Savitree Limtong Assoc. Prof. Khanok Ratanakhanokchai

Organizing Committee

Prof. Takuya Nihira (OU) Dr. Suthep Wiyakrutta (MU) Dr. Idsada Mungsantisuk (MU) Dr. Soraya Chaturongakul (MU) Ms Duangnate Isarangkul Na Ayudhaya (MU) Ms Sarucha Sankunha (MU) Prof. Watanalai Panbangred (MU) Dr. Arjaree Nilavongse (MU) Dr. Chartchai Changsen (MU) Dr. Radeekorn Akkarawongsapat (MU) Ms Monludee Phianlertloy (MU)

Secretariat

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General Information

Registration

The registration desk will be open on Wednesday 26th October 2011 from 8:30 – 9:00 a.m. in front of room K102, 1st Floor, Chalermprakiet (K) Building, Faculty of Science (Phyathai Campus), Mahidol University.

Registration Fee:

No registration fee is required.

Lunch & Coffee Breaks

Lunch and coffee break will be provided in front of room K102. Participants can enjoy their meal in the seminar room, and the break both inside and the area outside the seminar room.

Scientific Program

The seminar is held to present the recent achievements in research on utilization of bioresources and their products for applications in the following areas:

- Industrial bioproduction
- Agricultural development
- Environmental protection

The scientific program includes 2 keynote lectures, one leading the morning session and the other one leading the afternoon session. Eight oral presentations will be given by Thai young scientists, and six oral presentations by young scientists from other countries members of the Asian Core Program (2009 - 2013). Poster session will be held during lunch break.

Instructions for Oral and Poster Presentation

The **oral presentation** format is 10 min talk followed by 5 min Q&A, comment, and discussion in which everyone attending the seminar are encouraged to actively participate. Slides for oral presentation should be prepared using the MS PowerPoint 2003 or 2007. Speakers of the morning session are requested to load their files to the computer provided in the presentation room before 8:50 and those of the afternoon session before 13:30.

The **poster** should be no larger than 90 cm width x 120 cm height. Poster presenters are requested to mount their posters no later than 9:00 a.m. and be present at the poster during 13:00 - 14:00.

Abstract

Prospective authors of **oral** and **poster** presentations are required to submit their abstracts to <u>youngscientist2011@gmail.com</u> by **September 26th**, 2011. Please prepare your abstract in the format suggested in the Abstract Template provided.

Tentative Program

Venue:

Room K102, 1st Floor, Chalermprakiet (K) Building, Faculty of Science, Mahidol University, 272 Rama VI Road, Ratchathewi, Bangkok 10400, Thailand.

Wednesday 26th October 2011

8:30 - 9:00	Registration	
9:00 - 9:10	Opening Ceremony	
	Welcome Address by Prof. Skorn Mongkolsuk, Dean	
	Faculty of Science, Mahidol University, Thailand	
Morning Session	Chair person: Prof. Kenji Sonomoto Co-chair: Assoc. Prof. Khanok Ratanakhanokchai	
09:10 - 09:40	Keynote Lecture 1 (K-1) Prof. Yasuo Igarashi, University of Tokyo	
09:40 - 09:55	Oral Presentation 1 (O-1) Yasin Kitichantaropas (Thailand)	
09:55 - 10:10	Oral Presentation 2 (O-2) Makoto Imura (Japan)	
10:10 - 10:30	Coffee Break	
10:30 - 10:45	Oral Presentation 3 (O-3) Paripok Phitsuwan (Thailand)	
	Chair person: Prof. Kazuhito Fujiyama Co-chair: Dr. Sourioudong Sundara	
10:45 - 11:00	Oral Presentation 4 (O-4) Ryoji Yokohata (Japan)	
11:00 - 11:15	Oral Presentation 5 (O-5) Wuttichai Mhuantong (Thailand)	
11:15 - 11:30	Oral Presentation 6 (O-6) Hirofumi Akiyama (Japan)	
11:30 - 11:45	Oral Presentation 7 (O-7) Notthaporn Phrueksahiran (Thailand)	
11:45 - 12:00	Oral Presentation 8 (O-8) Linkai Yu (Japan)	
12:00 - 14:00	Lunch & Poster Presentation	
Afternoon Session	Chair person: Prof. Yasuo Igarashi Co-chair: Prof. Savitree Limtong	
14:00 - 14:30	Keynote Lecture 2 (K-2) Prof. Kenji Sonomoto, Kyushu University	
14:30 - 14:45	Oral Presentation 9 (O-9) by Thai Young Scientist 5	
14:45 - 15:00	Oral Presentation 10 (O-10) Makoto Sasaki (Japan)	
15:00 - 15:15	Oral Presentation 11 (O-11) by Thai Young Scientist 6	
15:15 - 15:35	Coffee Break	
	Chair person: Dr. Douong Van Hop Co-chair: Mr. Thao Sokunthea	
15:35 - 15:50	Oral Presentation 12 (O-12) by Thai Young Scientist 7	
15:50 - 16:05	Oral Presentation 13 (O-13) by Thai Young Scientist 8	
16:10 - 16:30	Closing Ceremony Award Presentation Closing Remark by Prof. Takuya Nihira	

Keynote Lectures & Oral Presentations

Code	Speaker	Title
K-1	Prof. Yasuo Igarashi University of Tokyo	From Pure Culture to Mixed Culture New Aspects of Biotechnology
K-2	Prof. Kenji Sonomoto Kyushu University	New Era of Lactic Acid Bacteria to Open the Future
O-1	Yasin Kitichantaropas Mahidol University	Oxidative stress caused by environmental stresses in thermotolerant yeast
O-2	Makoto Imura Osaka University	Identification of replicon of a 111-kb circular plasmid from the hydrophobic bacterium <i>Rhodococcus</i> <i>opacus</i> B-4
O-3	Paripok Phitsuwan King Mongkut's University of Technology Thonburi	Improved deconstruction of natural plant biomass by a combination of commercial cellulases and hemicellulases from <i>Tepidimicrobium xylanilyticum</i> BT14
O-4	Ryoji Yokohata Kyushu University	Antagonist design of gelatinase biosynthesis-activating pheromone of <i>Enterococcus faecalis</i> based on reverse alanine scanning
O-5	Wuttichai Mhuantong BIOTEC	Bioinformatic analysis and comparative study of metagenomes of lignocellulosic biomass degrading microbial communities
O-6	Hirofumi Akiyama Toyama Prefectural University	Linfuranones A and B, novel polyketides from an endophytic <i>Microbispora</i> sp. GMKU363
O-7	Notthaporn Phrueksahiran Mahidol University	Screening and identification of antifungal metabolites from <i>Streptomyces</i> spp.
O-8	Linkai Yu Toyama Prefectural University	Jommthonic acid, a novel bioactive compound from <i>Streptomyces</i> in Thailand
O-9	Thai Young Scientist	
O-10	Makoto Sasaki Kyushu University	Purification and characterization of ABC transporter NukT
O-11	Thai Young Scientist	

O-12 Thai Young Scientist

O-13 Thai Young Scientist

Poster Presentations

Code	Presenter	Title
P-1	Rattiya Waeonukul King Mongkut's University of Technology Thonburi	Development of Efficient Biomass Saccharification using Highly Active Multienzyme Complexes
P-2	Mahidol University	Screening of actinomycetes from plant rhizospheric soils with inhibitory activity against <i>Colletotrichum</i> spp.
P-3		
P-4		
P-5		
P-6		
P-7		
P-8		
P-9		
P-10		
P-11		
P-12		
P-13		
P-14		
O-15		
0-16		