



The Young Scientist Seminar 2012

Bioresources: Their Potentials & Applications

The Asian Core Program (2009 – 2013)



January 31st, 2012

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

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“Next-Generation Bioproduction Platform
Leveraging Subtropical Microbial Bioresources”

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January 31st, 2012

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

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University of Tokyo

Prof. Kenji Sonomoto

Kyushu University

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Institute of Microbiology and Biotechnology, Vietnam National University Hanoi, Vietnam

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Prof. Watanalai Panbangred

Prof. Savitree Limtong

Assoc. Prof. Khanok Ratanakhanokchai

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General Information

Registration

The registration desk will be open on Tuesday 31st January 2012 from 8:30 – 9:00 a.m. in front of room K102, 1st Floor, Chalermprakiet (K) Building, Faculty of Science (Phayathai 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 15 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 youngscientist2011@gmail.com by **September 26th**, 2011. Please prepare your abstract in the format suggested in the Abstract Template provided.

Program

Venue:

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

Tuesday 31st January 2012

8:30 – 9:00	Registration
9:00 – 9:10	Opening Ceremony <i>Welcome Address</i> 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 – 10:00	Oral Presentation 1 (O-1) Yasin Kitichantaropas (Thailand)
10:00 – 10:20	Oral Presentation 2 (O-2) Makoto Imura (Japan)
10:20 – 10:40	<i>Coffee Break</i>
	Chair person: Prof. Kazuhito Fujiyama Co-chair: Dr. Souriodong Sundara
10:40 – 11:00	Oral Presentation 3 (O-3) Paripok Phitsuwan (Thailand)
11:00 – 11:20	Oral Presentation 4 (O-4) Ryoji Yokohata (Japan)
11:20 – 11:40	Oral Presentation 5 (O-5) Wuttichai Mhuantong (Thailand)
11:40 – 12:00	Oral Presentation 6 (O-6) Hirofumi Akiyama (Japan)
12:00 – 13:30	Lunch & Poster Presentation
Afternoon Session	Chair person: Prof. Yasuo Igarashi Co-chair: Prof. Savitree Limtong
13:30 – 14:00	Keynote Lecture 2 (K-2) Prof. Kenji Sonomoto, Kyushu University
14:00 – 14:20	Oral Presentation 7 (O-7) Notthaporn Phruksahiran (Thailand)
14:20 – 14:40	Oral Presentation 8 (O-8) Linkai Yu (Japan)
14:40 – 15:00	Oral Presentation 9 (O-9) Pirapan Polburee (Thailand)
15:00 – 15:20	<i>Coffee Break</i>
	Chair person: Dr. Douong Van Hop Co-chair: Mr. Thao Sokunthea
15:20 – 15:40	Oral Presentation 10 (O-10) Makoto Sasaki (Japan)
15:40 – 16:00	Oral Presentation 11 (O-11) Weerapong Woraprayote (Thailand)
16:00 – 16:30	Scientific committee award judging Award Presentation Closing Remark by Prof. Takuya Nihira
17:00 – 19:00	After seminar party

Keynote Lectures & Oral Presentations

Code	Speaker	Title
K-1	Prof. Yasuo Igarashi <i>University of Tokyo</i>	From Pure Culture to Mixed Culture ---New Aspects of Biotechnology---
K-2	Prof. Kenji Sonomoto <i>Kyushu University</i>	New Era of Lactic Acid Bacteria to Open the Future
O-1	Yasin Kitichantaropas <i>Mahidol University</i>	Oxidative stress caused by environmental stresses in thermotolerant yeast
O-2	Makoto Imura <i>Osaka University</i>	Identification of replicon of a 111-kb circular plasmid from the hydrophobic bacterium <i>Rhodococcus opacus</i> B-4
O-3	Paripok Phitsuwan <i>King Mongkut's University of Technology Thonburi</i>	Improved deconstruction of natural plant biomass by a combination of commercial cellulases and hemicellulases from <i>Tepidimicrobium xylanilyticum</i> BT14
O-4	Ryoji Yokohata <i>Kyushu University</i>	Antagonist design of gelatinase biosynthesis-activating pheromone of <i>Enterococcus faecalis</i> based on reverse alanine scanning
O-5	Wuttichai Mhuantong <i>BIOTEC</i>	Bioinformatic analysis and comparative study of metagenomes of lignocellulosic biomass degrading microbial communities
O-6	Hirofumi Akiyama <i>Toyama Prefectural University</i>	Linfuranones A and B, novel polyketides from an endophytic <i>Microbispora</i> sp. GMKU363
O-7	Notthaporn Phrueksahiran <i>Mahidol University</i>	Screening and identification of antifungal metabolites from <i>Streptomyces</i> spp.
O-8	Linkai Yu <i>Toyama Prefectural University</i>	Jommthonic acid, a novel bioactive compound from <i>Streptomyces</i> in Thailand
O-9	Pirapan Polbureea <i>Kasetsart University</i>	Screening for oleaginous yeasts showing high lipid accumulation in glycerol
O-10	Makoto Sasaki <i>Kyushu University</i>	Purification and characterization of ABC transporter NukT
O-11	Weerapong Woraprayote <i>Prince of Songkla University</i>	Development of polylactic acid/natural fiber biocomposite film incorporated with pediocin, the antilisterial peptide from <i>Pediococcus pentosaceus</i> BCC3772, for use as antimicrobial food packaging

Poster Presentations

Code	Presenter	Title
P-1	Rattiya Waeonukul <i>King Mongkut's University of Technology Thonburi</i>	Development of efficient biomass saccharification using highly active multienzyme complexes
P-2	Nisarut Udom <i>Mahidol University</i>	The roles of the mitogen-activated protein kinase (MAPK) pathways and cell wall remodelling in response to ethanol stress in <i>Saccharomyces cerevisiae</i>
P-3	Bungonsiri Intra <i>Mahidol University</i>	Screening of actinomycetes from plant rhizospheric soils with inhibitory activity against <i>Colletotrichum</i> spp.
P-4	Malay Min <i>Royal University of Phnom Penh</i>	Rotifer fauna in pond samples from the upper Cambodian Mekong River Basin