

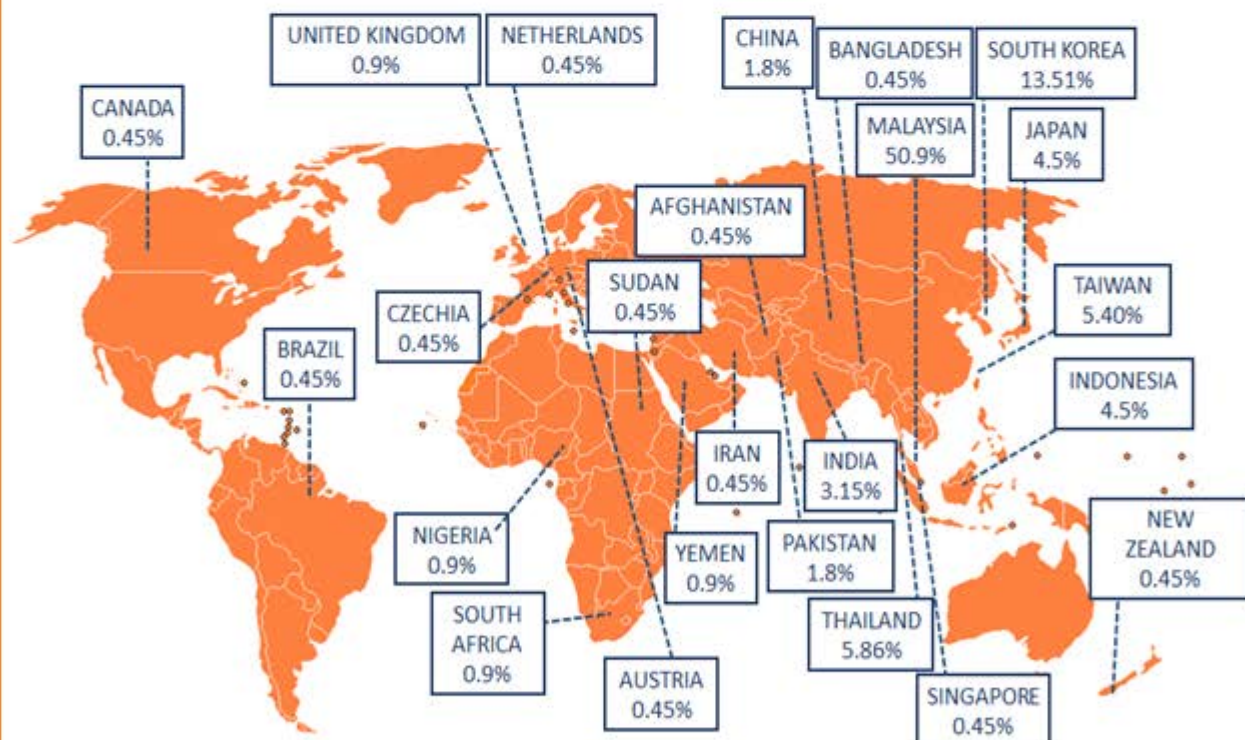
PAST REPORT (2014)

INTERNATIONAL CONFERENCE ON BENEFICIAL MICROBES (ICOBM)

PENANG, MALAYSIA

The inaugural ICOBM-2014 was hosted by Universiti Sains Malaysia, Malaysia on 27-29 May 2014 in Parkroyal Hotel, Penang, Malaysia. The event has attracted 222 reputed scientists, researchers, academicians, industrial professionals and postgraduate students from 24 countries.

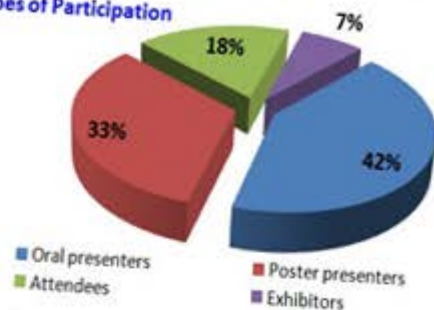
ICOBM-2014 emphasized on six (6) major tracks that covered the most important aspects of beneficial microorganisms, namely Food Science and Technology, Nutrition and Nutraceutical, Omics and Molecular Technologies, Medical and Health Applications, Agri- and Aquaculture, and Industrial Perspectives.



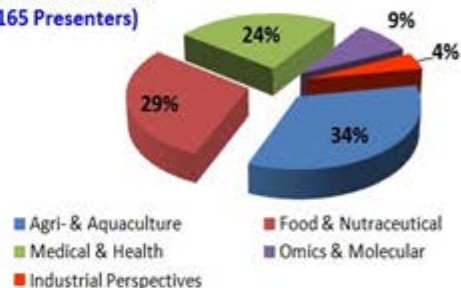
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This event was also greatly supported by both national and international industrial partners, which, without their continuous support, ICOBM 2014 would not have been a success. The national partners of ICOBM 2014 were B-Crobes Laboratory Sdn. Bhd., Bioflow Lifescience Sdn. Bhd., Sartorius Malaysia Sdn. Bhd., Yakult (M) Sdn. Bhd., Fisher Scientific (M) Sdn. Bhd., Team Medical & Scientific (M) Sdn. Bhd., Chemopharm Sdn. Bhd., Nanogene Solutions Sdn. Bhd., and the Young Scientists Network - Academy of Sciences Malaysia. The international partners of ICOBM-2014 were Morinaga Milk Industry Co. Ltd. (Japan), Northeast Pharmaceutical Group Co. Ltd. (China), ProBionic Corp. (Korea), International Committee on Food Microbiology & Hygiene, Asian Probiotics & Prebiotics Corp. (China), and Want Want Group (China).

Types of Participation



Conference Tracks (165 Presenters)



KEYNOTE SPEAKERS

WILHELM HOLZAPFEL

- Professor, Handong Global University, Pohang, South Korea
- President, International Committee on Food Microbiology and Hygiene (ICFMH)



The Keynote and Plenary speakers, all prominent figures with years of experience in the various fields of beneficial microorganisms, have delivered very interesting current perspectives in the conference tracks, in addition to fostering knowledge and exchanging ideas during the event.

KOEN VENEMA

- Founder and owner of Beneficial Microbes Consultancy
- Initiator and co-organizer of the Beneficial Microbes Conference-series
- Editor-In-Chief of Beneficial Microbes



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PLENARY SPEAKERS

SVETOSLAV DIMITROV TODOROV

- Associate Professor, Sao Paulo University, Sao Paulo, Brazil



TONY MUTUKUMIRA

- Associate Professor, Massey University, Palmerston North, New Zealand



SHINJI FUKUDA

- Associate Professor, Keio University, Yamagata, Japan



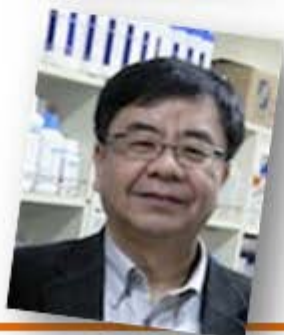
YING-CHIEH TSAI

- Professor, National Yang Ming University, Taipei, Taiwan



SAE-HUN KIM

- Professor, Korea University, Seoul, Korea



BYONG LEE

- Professor, McGill University, Montreal, Canada
- Professor, Jiangnan University, Wuxi, China



TSONG-RONG YAN

- Professor, Tatung University, Taipei, Taiwan
- President, Taiwan Association of Lactic Acid Bacteria (TALAB), Taiwan



HIROSHI OHNO

- Team Leader, Laboratory for Epithelial Immunobiology, RCAI RIKEN, Yokohama, Japan
- Professor, Yokohama City University, Yokohama, Japan
- Professor, Chiba University, Chiba, Japan



INGRID S SURONO

- Food Technology Department, Faculty of Engineering, BINUS University, Jakarta, Indonesia
- President, Indonesia Scientific Society of Probiotics and Prebiotics (ISSPP)



WAN AZLINA AHMAD

- Professor, Universiti Teknologi Malaysia, Malaysia



PAST REPORT (2014)

In addition to various scientific tracks, an industrial-related track was also presented, which was held with much success. Plenary Speakers from various related industries presented their most current insights on industrial advancement and approaches. This track specifically illustrated the roles of the industries, with strong principles that research and industry are interlinked

PLENARY SPEAKERS (INDUSTRIAL PERSPECTIVE)

LIAN-WEI LER

- Business Development Manager, Fisher Scientific (M) Sdn Bhd, Selangor, Malaysia



XUE-LONG LI

- Micro-ecology Institute Director, Northeast Pharm, Shenyang, China



Nur Shamira MOHAMED YASSIN

- Executive, Public Relations & Science Department, Yakult (M) Sdn Bhd, Selangor, Malaysia



HUEY-SHI LYE

- Assistant Professor, Department of Agricultural and Food Science, Faculty of Science, Universiti Tunku Abdul Rahman, Perak, Malaysia



Yong-Ha PARK

- Professor, Personalized Medicine Industry, School of Biotechnology, Yeungnam University, Kyeongbuk, Korea
- Founder, ProBionic Institute and LAB House



JIN-ZHONG XIAO

- Team Leader, Food Science and Technology Institute, Morinaga Milk Industry Co. Ltd., Zama, Japan



WILLIAM WEI-LIAN HUNG

- Research & Development, Want Want China Holdings Limited, Shanghai, China



Program: 27th May 2014

Time	Event/Speaker		
0830 - 0900	Opening Ceremony (Grand Ballroom)		
0900 - 1000	Opening Keynote (Grand Ballroom): Min-Tze LIONG Associate Professor, Universiti Sains Malaysia, Penang, Malaysia Chairman, International Conference on Beneficial Microbes (ICOBM) 2014		
1000 - 1030	Morning Break & Press Conference		
	Keynote Session (Grand Ballroom)		
1030 - 1130	Keynote: Wilhelm HOLZAPFEL Professor, Handong Global University, Pohang, South Korea President, International Committee on Food Microbiology and Hygiene (ICFMH) Title: Beneficial microbes in human culture and tradition		
1130 - 1230	Keynote: Koen VENEMA Founder and owner of Beneficial Microbes Consultancy Initiator and co-organizer of the Beneficial Microbes Conference-series Editor-In-Chief of the journal Beneficial Microbes Title: Health effects of pro- & prebiotics - preclinical studies using sophisticated <i>in vitro</i> tools		
1230 - 1400	Lunch at "Tamarind Brasserie @ Parkroyal Hotel"		
	Concurrent Session 1: (Ballroom 1)	Concurrent Session 2: (Ballroom 2)	Concurrent Session 3: (Serai Room, Level 1)
	Food Sciences & Technology	Omics & Molecular Technologies	Nutrition & Nutraceutical
1400 - 1430	Plenary: Svetoslav Dimitrov TODOROV Associate Professor, Sao Paulo University, Sao Paulo, Brazil Title: Biopreservation by bacteriocinogenic lactic acid bacteria in the control of <i>Listeria monocytogenes</i> in fresh cheese	Plenary: Shinii FUKUDA Associate Professor, Keio University, Yamagata, Japan Title: Elucidation of the beneficial effect of probiotics and prebiotics on host physiology via integrated omics approach	Plenary: Sae-Hun KIM Professor, Korea University, Seoul, Korea Title: Synergic potential of probiotic strains with activities of immunomodulation and reduction of serum cholesterol
1430 - 1500	Plenary: Tony MUTUKUMIRA Associate Professor, Massey University, Palmerston North, New Zealand Title: Viability and properties of spray-dried <i>Lactobacillus casei</i> -01	Plenary: Ying-Chieh TSAI Professor, National Yang Ming University, Taiwan Title: Microbiota-gut-brain axis and psychobiotics	Plenary: Byong LEE Professor, McGill University, Montreal, Canada Professor, Jiangnan University, Wuxi, China Title: Conventional and metagenomic mining of probiotic enzymes for bioactive molecules

Program: 27th May 2014

Time	Event/Speaker		
	Concurrent Session 1: (Ballroom 1)	Concurrent Session 2: (Ballroom 2)	Concurrent Session 3: (Serai Room, Level 1)
	Food Sciences & Technology	Omics & Molecular Technologies	Nutrition & Nutraceutical
1500 - 1520	Marlia SINGGIH Bandung Institute of Technology, Bandung, Indonesia	Olubukola Oluranti BABALOLA Associate Professor, North- West University, Mmabatho, South Africa	Invited: Aran H-KITTIKUN Associate Professor, Prince of Songkla University, Hatyai, Thailand Title: Isolation of bacteriocin producing lactic acid bacteria from mangrove forests and application
1520 - 1540	Mohd Nizam LANI Senior lecturer, Universiti Malaysia Terengganu, Terengganu, Malaysia	Irma Isnafia ARIEF Head of Animal Product Technology Division, Bogor Agricultural University, West Java, Indonesia	Nam Soo HAN Professor, Chungbuk National University, Chungbuk, Korea
1540 - 1600	Afternoon Break		
1600 - 1620	CHUNG See Hui Constance Ann Universiti Sains Malaysia, Penang, Malaysia	Invited: Alexander HASLBERGER Professor, University of Vienna, Vienna, Austria Title: Epigenetic regulation of inflammatory molecules in metabolic syndrome	Na Rae SHIN Chungbuk National University, Chungcheongbukdo, Korea
1620 - 1640	Ghada Ahmed ELHAG Mohamed Associate Professor, University of Alneelain, Khartoum, Sudan	Invited: Wen-Siang TAN Professor, Universiti Putra Malaysia, Selangor, Malaysia Title: Nano-glue: A method to display ligands on the surface of nanoparticles for specific cell-targeting delivery	Joo-Ann EWE Taylor's University, Selangor, Malaysia
1640 - 1700	OLORUNNISOLA Kola Saheed International Islamic University Malaysia, Kuala Lumpur, Malaysia	Naureen AKHTAR Associate Professor, University of Punjab, Punjab, Pakistan	Chyn-Boon WONG Universiti Sains Malaysia, Penang, Malaysia
1700 - 1800	Judging of posters		
1800	Depart for dinner at the "Three Sixty° Revolving Restaurant and Sky Bar @ Bayview Hotel"		

Program: 28th May 2014

Time	Event/Speaker
Session 4: Industrial Perspectives (Grand Ballroom)	
0900 - 0930	Plenary: Lian-Wee LER Business Development Manager, Fisher Scientific (M) Sdn Bhd, Selangor, Malaysia Title: The application of MALDI-TOF mass spectrometry and bioinformatics for rapid and high-throughput identification of microorganisms
0930 - 1000	Plenary: Nur Shamira MOHAMED YASSIN Executive, Public Relations & Science Department, Yakult (M) Sdn Bhd, Selangor, Malaysia Title: Probiotic relevance to primary care
1000-1030	Morning Break
1030-1100	Plenary: Yong-Ha PARK Professor, Personalized Medicine Industry, School of Biotechnology, Yeungnam University, Kyeongbuk, Korea Founder, ProBionic Institute and LAB House Title: <i>Lactobacillus sakei</i> Probio65 from Kimchi: An ideal probiotic candidate for the treatment of atopic dermatitis and skin disorder
1100 - 1130	Plenary: Jin-Zhong XIAO Team Leader, Food Science and Technology Institute, Morinaga Milk Industry Co. Ltd., Zama, Japan Title: <i>Bifidobacterium</i> for infants: Essence and efficacy
1130 - 1200	Plenary: Xue-Long LI Micro-ecology Institute Director, Northeast Pharm. Trading Company Ltd, Shenyang, China Title: The clinical application of live <i>Bacillus licheniformis</i> preparation
1200 - 1230	Plenary: Huey-Shi LYE Assistant Professor, Department of Agricultural and Food Science, Faculty of Science, Universiti Tunku Abdul Rahman, Perak, Malaysia Title: Hypocholesterolemic effect of lactobacilli and its cholesterol removal mechanisms
1230 - 1300	Plenary: William Wei-Lian HUNG Research & Development, Want Want China Holdings Limited, Shanghai, China Title: Probiotics market in China
1300 - 1400	Lunch at "Tamarind Brasserie @ Parkroyal Hotel"

Program: 28th May 2014

	Session 5 : Young Scientist Awards		
	Concurrent Session : (Ballroom 1)	Concurrent Session : (Ballroom 2)	Concurrent Session : (Serai Room, Level 1)
	Agri & Aqua-culture	Medical & Health Applications/ Omics & Molecular Technologies	Food Sciences & Technology / Nutrition & Nutraceutical
1400 - 1415	Jeremiah David BALA Universiti Sains Malaysia, Penang, Malaysia	Mobolaji Felicia ADEGBOYE North-West University, Mmabatho, South Africa	Muhammad JUNAID University of Veterinary and Animal Science, Punjab, Pakistan
1415 - 1430	Muhammad ASRIL Bogor Agricultural University, West Java, Indonesia	Deepak VENKATARAMAN Kalasalingam University, Tamilnadu, India	Ming-Zhan TOH National University of Singapore, Singapore
1430 - 1445	Syed Zaghum ABBAS Universiti Sains Malaysia, Penang, Malaysia	Hiroshi MAKINO Yakult Central Institute for Microbiological Research, Tokyo, Japan	S. Anto Jeva DAYALAN Taylor's University, Selangor, Malaysia
1445 - 1500	Shachi SINGH Birla Institute of Technology and Science, Rajasthan, India	Pei-Lei TAN Universiti Sains Malaysia, Penang, Malaysia	Yosep JI Handong Global University, Gyeongbuk, South Korea
1500 - 1515	Nor Hidayah binti BOHARI Universiti Malaysia Kelantan, Jeli, Malaysia	Hermanto ALEX Monash University Sunway Campus, Selangor, Malaysia	Shahidah MD. NOR Universiti Sains Islam Malaysia, Negeri Sembilan, Malaysia
1515 - 1530	Abdullah A. A-FAKIH Ibb University, Ibb, Yemen	Ibrahim M. ELSHAAFI Universiti Sains Islam Malaysia, Kuala Lumpur, Malaysia	Li-Oon CHUAH Universiti Sains Malaysia, Penang, Malaysia
1530-1500	Afternoon Break		

Program: 28th May 2014

Session 5 : Young Scientist Awards			
	Concurrent Session : (Ballroom 1)	Concurrent Session : (Ballroom 2)	Concurrent Session : (Serai Room, Level 1)
	Agri & Aqua-culture	Medical & Health Applications/ Omics & Molecular Technologies	Food Sciences & Technology / Nutrition & Nutraceutical
1600 - 1615	Noorashikin binti MD NOOR Universiti Putra Malaysia, Selangor, Malaysia	Nagea K. A. ABDAL SADIQ University Sains Islam Malaysia, Selangor, Malaysia	Ili Farhana binti ABD HAMID Universiti Sains Islam Malaysia, Negeri Sembilan, Malaysia
1615 - 1630	Claira Arul ARULDASSA Universiti Teknologi Malaysia, Johor, Malaysia	Suwapat KITTIBUNCHAKUL Mahidol University, Nakhon- Pathom, Thailand	Yasmi LOUHA SAKUL Prince of Songkla University, Songkhla, Thailand
1630 - 1645	Chuan-Chi CHIEN Industrial Technology Research Institute, Tainan, Taiwan	Hisako NAKAGAWA Hokkaido University, Hokkaido, Japan	Muhammad Faiz Bin ABDUL KUTHOOSE Universiti Sains Islam Malaysia, Penang, Malaysia
1645 - 1700	Nasiru ANBITSI Universiti Sains Malaysia, Penang, Malaysia	Wahab FEMINA Karunya University, Tail Nadu, India	Phanwipa PANGSRI Kasetsart University, Bangkok, Thailand
1700 - 1715	Theerawat ONLAMOOL Prince of Songkla University, Songkhla, Thailand	Asma ANSARI Univeristy of Karachi, Sindh, Pakistan	Kusumawadee THANCHAROEN Mahasarakham University, Mahasarakham, Thailand
1715 - 1730	R. PEMILA EDITH CHITRASELVI Karunya University, Tamil Nadu, India	Soyoung PARK Handong Global University, Gyeongbuk, South Korea	Hassan PYAR Universiti Sains Malaysia, Penang, Malaysia
1730 - 1800	Judging of Posters		
1900	"Cocktail with the Experts" at the Garden of Parkroyal Hotel (upon invitation only). Sponsored by Young Scientists Network - Academy of Sciences Malaysia (YSN-ASM)		

Program: 29th May 2014

Time	Event/Speaker	Time	Event/Speaker
	Concurrent Session 6 : (Ballroom 1)		Concurrent Session 7 : (Ballroom 2)
	Medical & Health Applications		Agri- & Aqua-Culture
0900 - 0930	Plenary: Tsong-Rong YAN Professor, Tatung University, Taipei, Taiwan President, Taiwan Association of Lactic Acid Bacteria (TALAB), Taiwan Title: Function and application of probiotics: Probiotic application to sake- lees fermentation	09:00 - 09:30	Plenary: Ingrid S SURONO SEAMEO RECFON, University of Indonesia, Jakarta, Indonesia President, Indonesia Scientific Society of Probiotics and Prebiotics (ISSPP) Title: Probiotics promote eco friendly, sustainable and intensive aquaculture
0930 - 0950	Invited: Widodo HADISAPUTRO Associate Professor, Universitas Gadjah Mada, Yogyakarta, Indonesia Title: Effect of indigenous lactic acid bacteria probiotic on performance, intestine length and internal organs weight of broiler chicken	09:30 - 10:00	Plenary: Wan Azlina AHMAD Professor, Universiti Teknologi Malaysia Title: Bacterial pigment production using low cost substrate and their application as colorant in soap making
0950 - 1010	Invited: Tadaaki MIYAZAKI Professor, Hokkaido University, Sapporo, Japan Title: Prevention of influenza and extension of lifespan by <i>Lactobacillus gasseri</i> SBT2055		
1010 -1040	Morning Break		
1040 - 1100	Invited: Sungsu PARK Professor, Ewha Womans University, Seoul, Korea Mechanobiology Institute, National University of Singapore, Singapore Title: Microfluidic cell culture device towards tumor on a chip (TOC)	10:30 - 10:50	Invited: Sri HARIMURTI Professor, Universitas Gadjah Mada, Yogyakarta, Indonesia Title: Effect of indigenous lactic acid bacteria probiotic on performance, intestine length and internal organs weight of broiler chicken

Program: 29th May 2014

Time	Event/Speaker	Time	Event/Speaker
	Concurrent Session 6 : (Ballroom 1)		Concurrent Session 7 : (Ballroom 2)
	Medical & Health Applications		Agri- & Aqua-Culture
1100 - 1120	Invited: Wibool PIYAWATTANAMETHA Group Leader of Cancer Imaging Consortium, National Electronics and Computer Technology Center (NECTEC), Pathumthani, Thailand Director of Advanced Imaging Research (AIR) Center, Faculty of Medicine, Chulalongkorn University, Pathumwan, Thailand Professor, King Mongkut's Institute of Technology, Ladkrabang, Thailand Title: Advance in light microendoscopy	10:50 - 11:10	Chidozie Clifford UGWU Assistant Lecturer, Federal University of Technology, Owerri, Nigeria
1120 - 1140	Invited: Heping ZHANG Director, Key Laboratory of Dairy Biotechnology and Engineering, Ministry of Education, China Director, Dairy Product Processing Laboratory of National Dairy Industry and Technology System, China Vice Dean, College of Food Science and Engineering, Inner Mongolia Agricultural University, Inner Mongolia, China Title: Lactobacillus casei Zhang originated from Mongolian traditional fermented mare milk (Koumiss) - its probiotic functions	11:10 - 11:30	Nurul Fakhiah Binti CHE HASHIM Universiti Malaysia Terengganu, Terengganu, Malaysia
1140 - 1200	Ibrahim.M.S.ELDEEN University Malaysia Terengganu, Terengganu, Malaysia	11:30 - 11:50	Mana KANJANAMAEESATHIAN Silpakorn University, Phetchaburi, Thailand
1200 - 1220	Masdiana C PADAGA Lecturer, Brawijaya University, East Java, Indonesia	11:50 - 12:10	Akaram HUSAIN Universiti Sains Islam Malaysia, Negeri Sembilan, Malaysia
1220 - 1240	Pairat SORNPLANG Associate Professor, Khon Kaen University, Khon Kaen, Thailand	12:10 - 12:30	Renuka R Universiti Sains Malaysia, Penang, Malaysia
1240 - 1300	Mohammad Faseleh JAHROMI Universiti Putra Malaysia, Selangor, Malaysia	12:30 - 12:50	Aziana ABU HASSAN Universiti Putra Malaysia, Selangor, Malaysia
1300 - 1400	Lunch at "Tamarind Brasserie @ Parkroyal Hotel"		

Program: 29th May 2014

Time	Event/Speaker	Time	Event/Speaker
	Concurrent Session 8 : (Ballroom 1)		Concurrent Session 9 : (Ballroom 2)
	Medical & Health Applications		Agri- & Aqua-Culture
1300 - 1400	Lunch at "Tamarind Brasserie @ Parkroyal Hotel"		
1400 - 1430	Plenary: Hiroshi OHNO Team Leader, Laboratory for Epithelial Immunobiology, RCAI RIKEN, Yokohama, Japan Professor, Yokohama City University, Yokohama, Japan Professor, Chiba University, Chiba, Japan Title: Commensal microbe-derived butyrate epigenetically induces colonic regulatory T cell differentiation	14:00 - 14:20	Stella MATTHEW Malaysian Agriculture Research and Development Institute (MARDI), Selangor, Malaysia
1430 - 1450	Invited: Simon M.CUTTING Professor, University of London, Surrey, United Kingdom Title: <i>Bacillus subtilis</i> as a probiotic for human and animal use	14:20 - 14:40	Nor Azman KASAN Senior lecturer, Universiti Malaysia Terengganu (UMT), Terengganu, Malaysia
1450 - 1510	Invited: Sejong OH Professor, Chonnam National University, Gwangju, Korea Title: <i>Lactobacillus acidophilus</i> modulates the virulence of <i>Clostridium difficile</i>	14:40 - 15:00	Ahmad Anas bin NAGOOR GUNNY Universiti Perlis Malaysia, Perlis, Malaysia
1510 - 1530	Kabiru MOHAMMED Universiti Sains Malaysia, Kelantan, Malaysia	15:00 - 15:20	Atia IQBAL University of the Punjab, Punjab, Pakistan
1530-1600	Afternoon Tea		
1600 - 1645	Award Ceremony & Closing Remarks (Grand Ballroom)		

Program: 29th May 2014

0900-1300	Conference Tour
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PAST REPORT (2014)

YOUNG SCIENTIST AWARDS

ICOBM-2014 gave much emphasis on the development of budding and talented young scientists, in hope to create new opportunities for better solutions to both national and international challenges. It is also important to appreciate young scientists for their contributions in science and creativity towards the generation of new ideas. To achieve these, ICOBM-2014 has incorporated four (4) Young Scientist Awards; three (3) for oral presentations and one (1) for poster presentation.

The Young Scientist Awards for oral presentation was sponsored by Want Want Group, China and Asian Probiotics & Prebiotics Corporation, China, with a top prize of Eur 500 for the categories of 1) Agri- & Aquaculture, 2) Health & Medical Applications, and Omics & Molecular Technologies, and 3) Food Sciences & Technology, and Nutrition & Nutraceuticals

ORAL: AGRI- AND AQUA-CULTURE

Winner

Pemila Edith

- Department of Biotechnology, Karunya University, Tamil Nadu, India
- Title : Biochemical and molecular characterization of Actinomycete isolates expressing plant growth promoting and antifungal phenotypic traits



First runner-up

Noorashikin binti Md Noor

- Department of Aquaculture, Faculty of Aquaculture, Universiti Putra Malaysia, Malaysia
- Title : Potential quorum sensing degrader from live feed Artemia for the protection of tiger grouper larvae against virulence of *Vibrio campbellii*

Second Runner-up

Atia Iqbal

- Department of Microbiology and Molecular Genetics, Faculty of Life Sciences, university of the Punjab, Pakistan
- Title : Beneficial Rhizobacteria : A biological agent to enhance crop productivity



PAST REPORT (2014)

ORAL: HEALTH & MEDICAL APPLICATIONS, AND OMICS & MOLECULAR TECHNOLOGIES

Winner

Hisako Nakagawa

- Department of Probiotics Immunology, Institute of Genetic Medicine, Hokkaido University
- Title : Mechanisms of lifespan extension by *Lactobacillus gasseri* SBT2055 in *Caenorhabditis elegans*



Second Runner-up

Soyoung Park

- Faculty of Life Science, Handong Global University, South Korea
- Title : Studying functional features of *Lactobacillus plantarum* HSC 02 from korean white kimchi using the diet-induced obesity murine model



Second Runner-up

Pei-Lei Tan

- School of Industrial Technology, Universiti Sains Malaysia, Malaysia
- Title : Inhibitory effect of bacteriocin produced by *Lactobacillus gasseri* SF against *Enterococcus faecalis*



PAST REPORT (2014)

ORAL: FOOD SCIENCES & TECHNOLOGY, AND NUTRITION & NUTRACEUTICALS

Winner

Yosep Ji

- Life Sciences Department, Handong Global University, South Korea
- Title : Korean kimchi as a reservoir of potential probiotics associated with anti-obesity effects



First Runner-up

Ming-Zhan Toh

- National University of Singapore, Singapore
- Title : Survival of *Bifidobacterium lactis* in fermented milk is enhanced in the presence of *Williopsis saturnus* var. *saturnus*.



Second Runner-up

Li-Onn Chuah

- School of Industrial Technology, Universiti Sains Malaysia, Malaysia
- Title : PFGE genotyping and antibiotic resistance profile : Isolation and characterization of lactic acid bacteria isolated from fermented durian (tempoyak)



PAST REPORT (2014)

POSTER: FOOD SCIENCES & TECHNOLOGY, AND NUTRITION & NUTRACEUTICALS

The Young Scientist Awards for poster presentation was sponsored by the *International Committee on Food Microbiology and Hygiene (ICFMH)*, with a top prize of EUR 500.

Winner

Na-Rae Shin

- Chungbuk National University, Chungcheongbukdo, Korea
- Title : Metabolic bioconversion of caffeic acid and gallic acid by lactic acid bacteria



First Runner-up

Hyunjoon Park

- Department of Advanced Green Energy & Environment (AGEE), Handong Global University, South Korea
- Title : Differences in autoinducer-2 secretion and inhibition of probiotic *Lactobacillus* spp.



Second Runner-up

Adilah Ismail

- School of Food Science and Technology, Universiti Malaysia Terengganu, Malaysia
- Title : Evaluation of lactic acid bacteria and ozone treated water as disinfectant in reduction of *Vibrio* sp. in big eye tuna (*Thunnus obesus*)



In addition to the various young scientist awards, ICOBM-2014 has also organized the **“Cocktail with the Experts”** event, a session to facilitate networking opportunities among young and senior scientists to exchange knowledge and experiences, and also to promote career advancement in science as the choice for our youths. The event was sponsored by the Young Scientists Network – Academy of Sciences Malaysia (YSN-ASM), set in an informal ambience with the theme of HAWAIIAN, and was held on 28 May 2014, 7.00 pm – 9.00 pm, in the Garden of Parkroyal Hotel.



All of the invited speakers and advisors served as guest of honours, while a total of 40 young scientists were selected from the pool of oral and poster awards candidates, selected based on their scope of research and potential contribution to science. The event was successful with much positive feedback from both young scientists and renowned experts, and it is likely to be a flagship event for future ICOBM conferences.



Assoc. Prof. Dr Liong Min Tze, the Chairman of ICOBM-2014 and also a YSN Exco member, introduced YSN-ASM's flagship programs and activities, and encouraged the participation of young scientists as members. Prof Wibool Piyawattanametha, a Global Young Academy (GYA) co-founding member was also present, to introduce GYA, and talked on the importance of national science/young academies in the sustainability of science.



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CONFERENCE DINNER

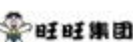
A successful conference will not be completed without a memorable dinner event. For ICOBM-2014, Three Sixty° Revolving Restaurant and Sky Bar @ Bayview Hotel was selected as the official dinner venue. As the one and only revolving restaurant and the first rooftop bar in Penang, this revolving restaurant provided our participants with a panoramic 360°-rotating view of Georgetown and its surrounding coasts, while dining and/or chilling out at terrace.



联亚益生 生物科技



东北制药



YOUNG SCIENTISTS NETWORK



Yakult

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Fermetec Resources Sdn Bhd

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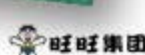
CONFERENCE TOUR

A post-conference tour was also organized; the UNESCO Georgetown Heritage Tour, where participants visited and toured the UNESCO heritage area, a Penang Batik factory, various religious places, chocolate boutique & factory, jetty communities and Universiti Sains Malaysia, before satisfying the taste buds via a visit to the food trail of local street foods.



PAST REPORT (2014)

CONFERENCE TOUR



PAST REPORT (2014)

PRESS RELEASE

The event was also reported by local press and has appeared in local newspapers. It is hoped that this will enhance the public's awareness and interest in science, and the continuous efforts of academicians and industries in harnessing potentials from microorganisms for the benefits of mankind.

Bakteria baik untuk sembuh luka

Pelajar USM hasilkan penemuan penyembuhan luka, 20 peratus lebih cepat dari proses secara normal



Scholars champion good bacteria

WINNERS OF AWARDS: The International Conference on Beneficial Microbes 2014 discussed the positive effects of bacteria to industries



Two do USM proud

> Young scientists win international award for medical research

GEORGE TOWN: Universiti Sains Malaysia achieved a podium finish at the recently concluded International Conference on Beneficial Microbes (ICOBM 2014) when two of its scientists received awards for their work.

School of Industrial Technology (SIT) doctorate student Tan Pei Lei, 28, was the second runner-up in the Young Scientist Award under the Health and Medical Applications category.

Her colleague, Chuah Li Oon, 30, also from the same faculty, was the second runner-up in the Food and Nutrition category.

Tan was given her award for her work on probiotics (good bacteria) in medical applications for skin diseases.

She said good bacteria could help fight skin infections by killing bad bacteria thereby preventing faster healing.

"Research on rats showed the wounds healed 30% faster than normal," she said adding that there were plans for commercialisation of the findings during a press conference here yesterday.

Chuah meanwhile, received recognition for her research on the risk of antibiotic resistance on products from food products.

She said certain probiotics in food were found to be antibiotic resistant and so other strains had to be found to make food safer.

She detailed the objectives of her research in the same press conference with SIT Dean Prof Dr Athar Mat Isa.

研發益生菌快速癒合藥

2博士生獲青年科學家獎



研發2項益生菌醫療用途

獲選為青年科學家獎



USM students win Young Scientist award

Dr Gulam Rusul Rahmat Ali, Tan and Chuah's research outshined 222 candidates from 24 countries.

"Given that the research isn't easy and having to begin from scratch, I am truly thrilled and honoured to receive this award," said Tan.

After researching approximately 200 types of bacteria, Tan has found one that has proven to heal 30 per cent faster than natural healing on a cut wound.

"As Malaysia has already been introduced to probiotics consumption, namely in cultured drinks and yogurt, I thought I should come up with something for external application to speed up the healing process," said Tan when asked where she got her idea from.

Chuah raised concerns with the alarming presence of some probiotics used in food production, which were found to be resistant to antibiotics.

She said the matter sparked the idea of researching for probiotics that were safe for human consumption.

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