



**Name:** Assoc.Prof.Dr. Suppasil Maneerat

**Education:**

Degree: B.Sc. (Biotechnology), Kasetsart University, Thailand

M.Sc. (Biotechnology), Prince of Songkla University, Thailand

Ph.D. (Agriculture), Okayama University, Japan

**Supportive experience:**

Conducted the collaborative research on “Isolation of biosurfactant-producing marine bacteria” at Research Institute for Bioresources, Okayama University, Japan under the Core university program supported by JSPS-NRCT (August 17-September 30, 1999).

Visited South China Agricultural University, Republic of China, to conducted research on “Isolation and characteristic of probiotic lactic acid bacteria from fermented foods” (November 30-December 21, 1999).

Conducted the collaborative research on “Biosurfactants from marine bacteria” at Research Institute for Bioresources, Okayama University, Japan under the Core university program supported by JSPS-NRCT (November 1-30, 2004).

Conducted the collaborative research on “Biosurfactants production from marine bacterium, *Myroides* sp. SM1” at Research Institute for Bioresources, Okayama University, Japan under the Core university program supported by JSPS-NRCT (September 14-October 29, 2005).

**Award:**

Outstanding thesis in the year 1999 from Faculty of Agro-Industry, Prince of Songkla University, Thailand.

**Present employment:**

Department of Industrial Biotechnology

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**Field of interest :** Environmental Biotechnology/Microbiology Food Biotechnology

**Current researches :**

1. Selection of bioactive compound producing lactic acid bacteria for use as starter culture for Kung-Som production
2. Biosurfactant producing bacteria from oil palm industry: Screening, production, purification and characterization
3. Isolation and screening of probiotic lactic acid bacteria for use as starter culture for fermented stinky bean production (Sa Taw Dong)
4. Monitoring of probiotic bacteria starter culture *Lactobacillus plantarum* during shrimp fermentation (Kung-Som) using Green Fluorescent Protein (gfp) gene
5. Screening of lactic acid bacteria using as starter culture for Halal fermented chicken sausages (Nham Kai)
6. Production, purification and characterization of *Stenotrophomonas acidaminiphila* TW3 isolated from palm oil factory

**Publication:**

**Review article**

- Maneerat, S.** 2000. Exopolysaccharide from Lactic Acid Bacteria. *Songklanakarin J.Sci.Technol.* 22: 397-402. (in Thai).
- Maneerat, S.** 2005. Production of biosurfactants using substrates from renewable-resources. *Songklanakarin J. Sci. Technol.* 27: 675-683.
- Maneerat, S.** 2005. Biosurfactants from marine microorganisms. *Songklanakarin J. Sci. Technol.* 27: 1263-1272.

**Original Article**

- Maneerat, S.,** Nitoda, T., Kanzaki, H. and Kawai, F. 2005. Bile acids are new products of a marine bacterium, *Myroides* sp. strain SM1. *Appl. Microbiol. Biotechnol.* 67(5): 679-683.
- Maneerat, S.,** Bamba, T., Harada, K., Kobayashi, A., Yamada, H. and Kawai, F. 2006. A novel crude oil emulsifier excreted in the culture supernatant of a marine bacterium, *Myroides* sp. strain SM1. *Appl. Microbiol. Biotechnol.* 70(2): 254-259.
- Yoon, J., **Maneerat, S.,** Kawai, F. and Yokota, A. 2006. *Myroides pelagicus* sp. nov., isolated from seawater in Thailand. *Int. J. Syst. Evol. Microbiol.* 56: 1917-1920.
- Maneerat, S.** and Phetrong, K. 2007. Isolation of biosurfactant-producing marine bacteria and characteristics of selected biosurfactant. *Songklanakarin J. Sci. Technol.* 29(3): 781-791.
- Maneerat, S.** and Dikit, P. 2007. Characterization of cell-associated bioemulsifier from *Myroides* sp. SM1, a marine bacterium. *Songklanakarin J. Sci. Technol.* 29(3): 769-779.
- Katamai, W., **Maneerat, S.,** Kawai, F., Kanzaki, H., Nitoda, T. and H-Kittikun, A. 2008. Purification and characterization of a biosurfactant produced by *Issatchenkia orientalis* SR4. *J. Gen. Appl. Microbiol.* 54(1): 79-82.
- Kitcha, S., Cheirsilp, B. and **Maneerat, S.** 2008. Cyclodextrin glycosyltransferase from a newly isolated alkalophilic *Bacillus* sp. C26. *Songklanakarin J. Sci. Technol.* 30(6): 723-728.
- Phetrong, K., H-Kittikun, A. and **Maneerat, S.** 2008. Production and characterization of bioemulsifier from a marine bacterium, *Acinetobacter calcoaceticus* subsp. *anitratus* SM7. *Songklanakarin J. Sci. Technol.* 30(3): 297-305.

- Musikasang, H., Tani, A., H-kittikun, A. and **Maneerat, S.** 2009. Probiotic potential of lactic acid bacteria isolated from chicken gastrointestinal digestive tract. *World J. Microbiol. Biotechnol.* 25(8): 1337-1345.
- Cheirsilp, B., Kitcha, S. and **Maneerat, S.** 2010. Kinetic characteristics of b-cyclodextrin production by cyclodextrin glycosyltransferase from newly isolated *Bacillus* sp. C26. *Electronic J. Biotechnol.* 13(4). <http://www.ejbiotechnology.info/content/vol13/issue4/full/6/>
- Dikit, P., **Maneerat, S.**, Musikasang, H. and H-Kittikun, A. 2010. Emulsifier properties of the mannoprotein extract from yeast isolated from sugar palm wine. *ScienceAsia.* 36(4): 312-318.
- Dikit, P., Methacanon, P., Visessanguan, W., H-kittikun, A. and **Maneerat, S.** 2010. Characterization of an unexpected bioemulsifier from spent yeast obtained from Thai traditional liquor distillation. *Int. J. Biol. Macromol.* 47(4): 465-470.
- Hwanhlem, N., Watthanasakphuban, N., Riebroy, S., Benjakul, S., H-Kittikun, A. and **Maneerat, S.** 2010. Probiotic lactic acid bacteria from *Kung-Som*: isolation, screening, inhibition of pathogenic bacteria. *Int. J. Food Sci. Technol.* 45(3): 594-601.
- Wongsuphachat, W., H-Kittikun, A. and **Maneerat, S.** 2010. Optimization of exopolysaccharides production by *Weissella confusa* NH 02 isolated from Thai fermented sausages. *Songklanakarin J. Sci. Technol.* 32(1): 27-35.
- Hwanhlem, N., Buradaleng, S., Wattanachant, S., Benjakul, S., Tani, A. and **Maneerat, S.** 2011. Isolation and screening of lactic acid bacteria from Thai traditional fermented fish (*Plasom*) and production of *Plasom* from selected strains. *Food Control.* 22(3-4): 401-407.
- Saimmai, A., Sobhon, V. and **Maneerat, S.** 2011. Molasses as a whole medium for biosurfactants production by *Bacillus* strains and their application. *Appl. Biochem. Biotechnol.* 165(1):315-335.
- Saimmai, A., Sobhon, V. and **Maneerat, S.** 2012. Production of biosurfactant from a new and promising strain of *Leucobacter komagatae* 183. *Ann. Microbiol.* 62(1): 391-402.
- Dikit, P., **Maneerat, S.** and H-kittikun, A. 2012. Mannoprotein from spent yeast obtained from Thai traditional liquor distillation: extraction and characterization. *J. Food Process Eng.* 35(1): 166-177.
- Saimmai, A., Kaewrueng, J. and **Maneerat, S.** 2012. Used lubricating oil degradation and biosurfactant production by SC-9 consortia obtained from oil contaminated soil. *Ann. Microbiol.* 62(4): 1757-1767.
- Musikasang, H., Sohsomboon, N., Tani, A. and **Maneerat, S.** 2012. Bacteriocin producing lactic acid bacteria as probiotic potential from Thai indigenous chicken. *Czech J. Anim. Sci.* 57(3): 137-149.
- Saimmai, A., Sobhon, V. and **Maneerat, S.** 2012. Mangrove sediment, a new source of potential biosurfactant producing bacteria. *Ann. Microbiol.* 62(4): 1669-1679.
- Saelim, K., Sohsomboon, N., Kaewsuwan, S. and **Maneerat, S.** 2012. Probiotic properties of *Enterococcus faecium* CE5-1 producing abacteriocin-like substance and antagonistic effect against antibiotic-resistant enterococci in *in vitro*. *Czech J. Anim. Sci.* 57(11): 529-539.
- Saimmai, A., Rukadee, O., Sobhon, V. and **Maneerat, S.** 2012. Biosurfactant production by *Bacillus subtilis* TD4 and *Pseudomonas aeruginosa* SU7 grown on crude glycerol obtained from biodiesel production plant as sole carbon source. *J. Sci. Ind. Res.* 71(6): 396-406.
- Saimmai, A., Rukadee, O., Onlamool, T., Sobhon, V. and **Maneerat, S.** 2012. Isolation and functional characterization of a biosurfactant produced by a new and promising of *Oleomonas sagaranensis* AT18. *World J. Microbiol. Biotechnol.* 28(10): 2973-2986.
- Saimmai, A., Rukadee, O., Onlamool, T., Sobhon, V. and **Maneerat, S.** 2012. Characterization and phylogenetic analysis of microbial surface active compounds-producing bacteria. *Appl. Biochem. Biotechnol.* 168(5): 1003-1018.
- Saimmai, A., Onlamool, T., Sobhon, V. and **Maneerat, S.** 2013. An efficient biosurfactant-producing bacterium *Selenomonas ruminantium* CT2, isolated from mangrove sediment in south of Thailand. *World J. Microbiol. Biotechnol.* 29(1): 87-102.

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- Chooklin, C.S., Phertmean, S., Cheirsilp, B., **Maneerat, S.** and Saimmai, A. 2013. Utilization of palm oil mill effluent as a novel and promising substrate for biosurfactant production by *Nevskia ramosa* NA3. *Songklanakarin J. Sci. Technol.*
- Saisa-Ard, K., Maneerat, S. and Saimmai, A. 2013. Isolation and characterization of biosurfactants-producing bacteria isolated from palm oil industry and evaluation for biosurfactants production using low-cost substrates. *BioTechnologia* 94(3): 275-284.
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- Saimmai, A., Petmeaun, S., Maneerat, S. and Chooklin, CC. 2014. Isolation and characterization of a biosurfactant from *Deinococcus caeni* PO5 by using jackfruit seed powder as a substrate. *Ann. Microbiol.* doi: 10.1007/s13213-013-0738-2.
- Saisa-ard, K., Saimmai, A. and Maneerat, S. 2014. Characterization and phylogenetic analysis of biosurfactant-producing bacteria isolated from palm oil contaminated soils in palm oil industry. *Songklanakarin J. Sci. Technol.* (Article in press).
- Chooklin, CC., Petmeaun, S., **Maneerat, S.** and Saimmai, A. 2014. Diversity of biosurfactants-producing bacteria isolated from palm oil contaminated soils in palm oil industry. *Indian Journal of Biotechnology.* (Article in press).

## BOOK CHAPTER

- Saimmai, A. and **Maneerat, S.** 2013. Biosurfactant production from agro-industrial by-products and wastes. In: *Industrial Microbiology: Microbes in Process.* (Eds. G. Neelam and A. Abhinav). Nova Science Publishers, INC. NEW YORK, USA. pp. 317-336.
- Saimmai, A. and **Maneerat, S.** 2013. Application of biosurfactants in the medical field. In: *Industrial Microbiology: Microbes in Process.* (Eds. G. Neelam and A. Abhinav). Nova Science Publishers, INC. NEW YORK, USA. (Article in press).

## Presentation:

- Maneerat, S.,** Charernjiratrakul, W. and H-Kittikun, A. 1997. Preparation of powder inoculum for Nham production. The 2<sup>nd</sup> seminar on JSPS-NRCT-DOST-LIPI-VCC Large scale cooperative research program in the field of Biotechnology "Sustainable development of Biotechnology in tropic" Nakonrachasrima, Thailand. 19-21 November.
- Maneerat, S.,** Yuwasatian, C. and Laohaprapanon, T. 1999. Isolation of exopolysaccharide-producing lactic acid bacteria from fermented foods. The 5<sup>th</sup> Asai-Pacific Biochemical Engineering Conference 1999 and the 11<sup>th</sup> Annual Meeting of Thai Society for Biotechnology. Phuket, Thailand. November, 15-18.
- Maneerat, S.,** Phanyosaranya, S. and Rojanawongchai, W. 2000. Probiotic lactic acid bacteria from traditional fermented foods: isolation and inhibition of pathogenic bacteria. The world congress of Biotechnology 2000. Berlin, Germany. 3-8 September.
- Maneerat, S.,** Isaram, J., Ishimoto, R., H-Kittikun. and Kawai, F. 2000. Isolation of biosurfactant-producing marine bacteria. The 2<sup>nd</sup> Joint Seminar on Development of Thermotolerant Microbial Resources and Their Applications. Yamaguchi, Japan. 21-25 November.
- Kijroongrojana, K., **Maneerat, S.** and Bourtoom. T. 2001. Development of high protein tuna soup production from tuna condensate. 11<sup>th</sup>World Congress of Food Science and Technology. Seoul, Korea. 22-27 April.
- Maneerat, S.,** Tani, A., H-Kittikun, A., Nitoda, T., Kanzaki, H. and Kawai, F. 2002. Purification and characterization of a biosurfactant from *Myroides odoratus* SMT1 isolated from marine environments in Thailand. The 3<sup>rd</sup> JSPS-NRCT Joint Seminar on Development of

Thermotolerant Microbial Resources and Their Applications. Chaing Mai, Thailand. 17-21 November.

- Maneerat, S.,** Tani, A., H-Kittikun, A., Nitoda, T., Kanzaki, H. and Kawai, F. 2003. Marine biosurfactant : Purification and characterization of a biosurfactant produced by *Myroides odoratus* SMT1 isolated from seawater in Thailand. Annual Meeting of the Japanese Society for Bioscience, Biotechnology, and Agrochemistry. Yokohama, Japan. March, 31- April, 2.
- Maneerat, S.,** Bamba, T., Konayashi, A. and Kawai, F. 2004. Production of the 2<sup>nd</sup> biosurfactant by *Myroides* sp. SM-1. Annual Meeting of the Japan Society for Bioscience, Biotechnology, and Agrochemistry. Hiroshima, Japan. March, 29-31.
- Kawai, F and **Maneerat, S.** 2004. Unusual products and biosurfactants produced by marine bacteria. Annual Meeting of the Japan Society for Bioscience, Biotechnology, and Agrochemistry. Hiroshima, Japan. March, 29-31.
- Kawai, F., **Maneerat, S.,** Nitoda, T. and Kanzaki, H. 2004. Bile Acids are Newly Found as Prokaryotic Products of *Myroides* sp. SM-1 and a Type Strain of Genus *Myroides*. 104<sup>th</sup> General Meeting of The American Society for Microbiology, New Orleans, The United States of America. May, 23-27.
- Maneerat, S.,** Bamba, T., Kobayashi, A., Yamada, H. and Kawai, F. 2004. Lipopeptide biosurfactant produced by a thermotolerant marine bacterium, *Myroides* sp. SM1. The 4<sup>th</sup> JSPS-NRCT Joint Seminar on Development of Thermotolerant Microbial Resources and Their Applications. Fukuoka, Japan. 7-10 November.
- Maneerat, S.,** Karnsamuth, K. and Somkeaw, W. 2006. Isolation of probiotic lactic acid bacteria from seabass viscera. 9<sup>th</sup> ASEAN Food Conference "Emerging Science and Technology in the Development of Food Industry in the ASEAN" Jakarta, Indonesia. 8-10 August.
- Dikit, P., H-kittikun, A. and **Maneerat, S.** 2007. Extraction, characterization and purification of mannoprotein from spent yeast obtained from traditional liquor distillation. 7<sup>th</sup> National Grad-Research Conference. Surattani, Thailand. 4-5 April.
- Hwanhlem, N., H-Kittikun, A and **Maneerat, S.** 2007. Screening of probiotic lactic acid bacteria from *Kung-Som*. The 19<sup>th</sup> Annual Meeting of the Thai Society for Biotechnology "TSB2007: Biotechnology for Gross National Happiness". Thammasart University, Patumthani, Thailand. 9-12 October.
- Kaewrueng, J., Sobhon, V. and **Maneerat, S.** 2007. Isolation and screening of waste lubricating oil degrading microorganism consortia from soil. The 19<sup>th</sup> Annual Meeting of the Thai Society for Biotechnology "TSB2007: Biotechnology for Gross National Happiness". Thammasart University, Patumthani, Thailand. 9-12 October.
- Maneerat, S.** 2007. Characterization of weathered crude oil bioemulsifier produced from a marine bacterium, *Myroides* sp. SM1. 12<sup>th</sup> International Symposium on Marine Natural Products. Queenstown, New Zealand. 4-9 February.
- Phetrong, K., H-kittikun, A. and **Maneerat, S.** 2007. Production of biosurfactant from marine bacterium, *Acinetobacter anitratus* SM7. 7<sup>th</sup> National Grad-Research Conference. Surattani, Thailand. 4-5 April.
- Phetrong, K., H-Kittikun, A and **Maneerat, S.** 2007. *Acinetobacter calcoaceticus* subsp. *anitratus* SM7 a new bioemulsifier-producing marine bacterium. The 2<sup>nd</sup> International Conference on Environmental, Industrial and Applied Microbiology "Fostering Cross-disciplinary Applied Research in Microbiology and Microbial Biotechnology" Seville, Spain. 28 November – 1 December.
- Wongsuphachat, W., H-kittikun, A. and **Maneerat, S.** 2007. Screening of exopolysaccharide producing lactic acid bacteria isolated from Thai traditional fermented foods. The 19<sup>th</sup> Annual Meeting of the Thai Society for Biotechnology "TSB2007: Biotechnology for Gross National Happiness". Thammasart University, Patumthani, Thailand. 9-12 October.
- Jaya, J.D., **Maneerat, S.** and Sobhon, V. 2008. Screening of p,p'-DDT degrading bacterial consortium from agricultural soil in Songkhla Province, Thailand. The 20<sup>th</sup> Annual Meeting

- of the Thai Society for Biotechnology. TSB 2008: "Biotechnology for Global Care". Mahasarakham, Thailand. 14-17 October.
- Meeboon, N. and **Maneerat, S.** 2008. Acceleration of waste lubricating oil degradation in soil slurry with the addition of a microbial consortium. The 20<sup>th</sup> Annual Meeting of the Thai Society for Biotechnology. TSB 2008: "Biotechnology for Global Care". Mahasarakham, Thailand. 14-17 October.
- Musikasang, H., H-Kittikun, A. and **Maneerat, S.** 2008. Screening of lactic acid bacteria as probiotic in chicken intestinal tract. The 9<sup>th</sup> National Grad Research Conference. Burapha University, Bangsaen Chonburi, Thailand. 14-15 March.
- Riska, D. and **Maneerat, S.** 2008. Isolation and screening of biosurfactant producing bacteria from mangrove sediment. The 2<sup>nd</sup> International Conference Mathematics and Natural Sciences. Institut Teknologi Bandung, Bandung, Indonesia. 28-30 October.
- Kaewrueng, J. and **Maneerat, S.** 2009. The use of an SC-9 consortium in the biodegradation of soil contaminated by waste lubricating oil. The 21<sup>st</sup> Annual Meeting of the Thai Society for Biotechnology: A Solution to the Economic Crisis?. Queen Sirikit National Convention Center, Bangkok, Thailand, 24-25 September.
- Watthanasakphuban, N., Riebroy, S., Benjakul, S. and **Maneerat, S.** 2010. Screening of bacteriocin producing lactic acid bacteria from *Kung-Som*. The 48<sup>th</sup> Kasetsart University Annual Conference. The Role of Agriculture Science in Fueling Economic Revival, Resolving the Crisis and Battling Global Warming. Kasetsart University, Bangkok, Thailand, 3-5 February.
- Saimmai, A., Sobhon, V. and **Maneerat, S.** 2010. Biosurfactant produced by bacteria isolated from mangrove sediment: isolation and characterizations. The 22<sup>nd</sup> Annual Meeting of the Thai Society for Biotechnology "Biotechnology for Healthy Living". October 20-22, 2010. Prince of Songkla University, Trang Campus, Trang Province, Thailand. pp. 284.
- Saimmai, A., Rukadee, O., Onlamool, T., Sobhon, V. and **Maneerat, S.** 2012. Isolation and screening of surface active compound-producing bacteria using low-cost and renewable substrate. International Conference on Microbial Taxonomy, Basic and Applied Microbiology. October 4-6, 2012. Kosa Hotel, Khonkaen Province, Thailand. pp. 132-140.
- Saimmai, A., Onlamool, T., Sobhon, V. and **Maneerat, S.** 2012. Diversity of biosurfactants/bioemulsifiers-producing bacteria isolated from palm oil contaminated soils in palm oil industry. 38<sup>th</sup> Congress on Science and Technology of Thailand "Science for the Future of Mankind". October 17-19, 2012. The Empress Convention Hall, Chiang Mai Province, Thailand. pp. 1-6.
- Saimmai, A. and **Maneerat, S.** 2012. Phylogenetic analysis of biosurfactant-producing bacteria isolated from palm oil industry and evaluation for biosurfactants production using low-cost substrates. The Excellence in Teacher Education and Research Innovation. December 24-28, 2012. Royal Orchid Sheraton Hotel and Towers, Bangkok, Thailand. pp. 301.
- Saimmai, A., Petmeaun, S., Cheirsilp, B., Sobhon, V., Chooklin, CS. and **Maneerat, S.** 2013. Isolation and screening of biosurfactant-producing bacteria using palm oil mill effluent as a novel substrate. 4<sup>th</sup> Regional AFOB Symposium 2013 "Bioenergy, Biorefinery and Beyond". January 17-19, 2013. Chiang Mai Grandview Hotel and Convention Center, Chiang Mai, Thailand. pp. 63-66.
- Saimmai, A., Petmeaun, S., Cheirsilp, B., Sobhon, V., Chooklin, CS. and **Maneerat, S.** 2013. Isolation and phylogenetic analysis of surface active compound-producing bacteria from palm oil industry. 4<sup>th</sup> Regional AFOB Symposium 2013 "Bioenergy, Biorefinery and Beyond". January 17-19, 2013. Chiang Mai Grandview Hotel and Convention Center, Chiang Mai, Thailand. pp. 55-58.
- Udomsilp, S., Petmeaun, S., Chooklin, CS., Sobhon, V., **Maneerat, S.** and Saimmai, A. 2013. Production and characterization of biosurfactant produced by *Bacillus subtilis* 318 using low cost fermentation medium. 4<sup>th</sup> Regional AFOB Symposium 2013 "Bioenergy, Biorefinery and

- Beyond". January 17-19, 2013. Chiang Mai Grandview Hotel and Convention Center, Chiang Mai, Thailand. pp. 36-39.
- Udomsilp, S., Petmeaun, S., Chooklin, CS., Sobhon, V., **Maneerat, S.** and Saimmai, A. 2013. Isolation and screening of biosurfactant-producing bacteria using palm oil decanter cake as a novel substrate. 4<sup>th</sup> Regional AFOB Symposium 2013 "Bioenergy, Biorefinery and Beyond". January 17-19, 2013. Chiang Mai Grandview Hotel and Convention Center, Chiang Mai, Thailand. pp. 59-62.
- Saimmai, A., Petmeaun, S., Dikit, P. and **Maneerat, S.** 2013. Isolation and screening of exopolysaccharide-producing bacteria from mangrove sediment by using palm oil mill effluent as a substrate. TSB International Forum 2013. August 28-30, 2013. BITEC Bang Na, Bangkok, Thailand. pp. 48-51.
- Saimmai, A., Petmeaun, S., Dikit, P. and **Maneerat, S.** 2013. Diversity of exopolysaccharide producing-bacteria from mangrove sediment in south of Thailand. TSB International Forum 2013. August 28-30, 2013. BITEC Bang Na, Bangkok, Thailand. pp. 40-43.
- Saimmai, A., Petmeaun, S., **Maneerat, S.** and Chooklin, CS. 2013. Oil palm empty fruit bunch fiber pretreatment and enzymatic hydrolysis for cellulosic ethanol production. TSB International Forum 2013. August 28-30, 2013. BITEC Bang Na, Bangkok, Thailand. pp. 52-55.
- Saimmai, A., Petmeaun, S., **Maneerat, S.** and Chooklin, CS. 2013. Isolation and screening of biosurfactant-producing bacteria using crude glycerol from biodiesel production as a substrate. TSB International Forum 2013. August 28-30, 2013. BITEC Bang Na, Bangkok, Thailand. pp. 79-82.
- Noparat, P., Saisa-ard, K., Petmeaun, S., **Maneerat, S.** and Saimmai, A. 2013 Production and characterization of biosurfactant produced by *Haloplanus* sp. AS64 using palm oil decanter cake as a novel substrate. The 39<sup>th</sup> Congress on Science and Technology of Thailand (STT 39) "Innovative Science for a Better Life". October 21-23, 2013. BITEC Bang Na, Bangkok, Thailand. pp. 597-604.
- Saimmai, A., Petmeaun, S. and **Maneerat, S.** 2014. Production and characterization of biosurfactant produced by *Halopenitus persicus* AS97 using cashew apple bagasse as substrate. 2<sup>nd</sup> ASEAN Plus Three Graduate Research Congress: AGRC 2014. February 5-7, 2014. S31 Sukhumvit Hotel, Bangkok, Thailand.
- Saimmai, A., Petmeaun, S. and **Maneerat, S.** 2014. Diversity of biosurfactant-producing thermotolerant bacteria from hot springs in the south of Thailand. 2<sup>nd</sup> ASEAN Plus Three Graduate Research Congress: AGRC 2014. February 5-7, 2014. S31 Sukhumvit Hotel, Bangkok, Thailand.