CURRICULUM VITAE

Personal Information:

Full name: Wasu PATHOM-AREE

Title: Assistant Professor Dr. Sex: Male

Date of Birth: 31/1/1973 Nationality: Thai

Tel.: 66- 53- 941948 ext. 111 Fax no.: 66- 53- 892259

E-mail: wasu.p@cmu.ac.th; wasu215793@gmail.com

Current Contact Information:

Microbiology Section, Department of Biology, Faculty of Science, Chiang Mai University

Chiang Mai 50200, Thailand

Education:

Ph.D. (Microbiology), University of Newcastle, Newcastle upon Tyne, UK, 2005

Thesis: Biosystematics of Actinomycetes from Marine Sediments

M.Sc. (Microbiology), Kasetsart University, Bangkok, Thailand, 1999

Thesis: Analysis of Genetic Variations in Thermotolerant Acetic Acid Bacteria by Random Amplified Polymorphic DNA.

B.Sc. (Biology), Chiang Mai University, Chiangmai, Thailand, 1994

Graduate Project: Acidification of Soybean in Tempeh Production.

Scholarships and Awards

2017	Erasmus Mundus Leader Program (University of Crete, Greece)	
2017	Chiang Mai University fellowship (Newcastle University, UK)	
2017	JSPS fellowship (Shizuoka University, Japan)	
2016	The 3 rd TCI-Scopus-TRF International Journal Award as an editor-in-	
	chief of Chiang Mai Journal of Science	
2016/2017	Newton Fund Professional Development Programme for Mid-career	
	Researchers (Declined offer)	
2016	Erasmus Mundus Alfabet Program (Warsaw University of Life Sciences,	
	Poland)	
2016		
2010	Eramus Mundus SmartLink Program (University of Lyon2, France)	
2016	Eramus Mundus SmartLink Program (University of Lyon2, France) JSPS fellowship (Shizuoka University, Japan)	
2016	JSPS fellowship (Shizuoka University, Japan)	

2014	Eramus Mundus Panacea Program (University of Grenada, Spain)
2013	Award from Faculty of Science, Chiang Mai University for Scientific Adviser of Gold medal scientific project of high school student (อาจารย์ที่ปรึกษา
	โครงงานวิทยาศาสตร์ระดับมัธยมศึกษาตอนปลาย สาขากายภาพ รางวัลเหรียญ
	ทอง เรื่อง แบบจำลองทางคณิตศาสตร์สำหรับศึกษาการเจริญเติบโตของโคโลนี
	ของเชื้อรา <i>Penicillium</i> sp., <i>Mucor</i> sp. และ <i>Aspergillu</i> s sp. ในงานสัปดาห์
	วิทยาศาสตร์แห่งชาติส่วนภูมิภาค ประจำปี 2556 ณ คณะวิทยาศาสตร์
2012	มหาวิทยาลัยเชียงใหม่)
2013	Hitachi Fellowship (Kitasato University, Japan)
2013	Award from Chiang Mai University for Outstanding MSc Thesis in Science and
	Technology (Isolation and Screening of Polylactide Degrading Actinomycetes
2012	by Miss Maytiya Konkit
2012	Research visit funding from Thailand International Development Cooperation
2012	Agency (Wuhan University, China)
2012	2 nd Place Poster Presentation Award in the 1 st ISC International Student
	Conference on Innovation for Harmonious Living in a Borderless Society,
2011	January 23-25, 2012, Khon Kaen University
2011	Award from Faculty of Science, Chiang Mai University for 2 nd Highest
	Citations in Scopus during 2006-2010
2011 2011	JSPS-ACP fellowship (Ritsumeikan University, Japan) Research visit funding from Thailand International Development Cooperation
	Agency (Institute of Tropical Bioscience and Biotechnology, Haikou, PR
	China)
2010	UMAP Research Exchange fellowship from Commission on Higher Education
	(Kitasato University, Japan)
2009	President Fund from Society for Applied Microbiology, UK
2009	Research Exchange fellowship from Commission on Higher Education
	(Institute of Tropical Bioscience and Biotechnology, Haikou, PR
	China)
2008	3 PhD scholarships from Thailand Commission on Higher Education
2008	The Association of Thai Professionals in America and Canada (ATPAC)
	for fiscal year 2008 (โครงการให้นักวิชาชีพไทยที่อยู่ต่างประเทศกลับมาร่วม
	พัฒนาการอุดมศึกษาไทย ประจำปีงบประมาณ 2551)
2007	Watanabe Book Fund from Society for General Microbiology, UK
2007	President Fund from Society for Applied Microbiology, UK
2005	IUMS Grant from Society for General Microbiology, UK
2003	President Fund from Society for General Microbiology, UK

2000-2005	Full Scholarship - Thai Department of Promotion in Science and	
	Technology Talents Project (DPST) for PhD study in UK at University of	
	Newcastle	
1999	Workshop Scholarship from Society for General Microbiology, UK	
1998	Teaching Assistant in Microbial Strain Manipulation course	
1996	Awards for Outstanding Performance in Food Microbiology course	
1994 - 1999	Full Scholarship - Thai Department of Promotion in Science and	
	Technology Talents Project (DPST)	
1993 - 1994	Certificates and medals for Outstanding Academic Records, Faculty of Science,	
	Chiang Mai University	

Work Experience

Lecturer in Microbiology Department of Biology, Faculty of Science, Chiang Mai University, Thailand since 1999

Research Fellowships

Research Fenowships			
2017	University of Crete, Greece		
2017	Warsaw University of Life Sciences, Poland		
2016-2	Newcastle University, UK		
2016	University of Lyon2, France		
2016	Shizuoka University, Japan		
2015	Chuang-Ang University, Seoul, Korea		
2015	Shizuoka University, Japan		
2014	Chuang-Ang University, Seoul, Korea		
2014	Institute for Water Research, University of Granada, Spain		
2013	Kitasato Institute for Life Sciences, Kitasato University, Tokyo, Japan		
2012	School of Pharmaceutical Science, Wuhan University, PR China		
2011	Institute of Tropical Biosciences and Biotechnology, Chinese Academy of Tropical		
	Agriculture Sciences, Hainan, P.R. China		
2010	Kitasato Institute for Life Sciences, Kitasato University, Tokyo, Japan		
2009	Institute of Tropical Biosciences and Biotechnology, Chinese Academy of Tropical		
	Agriculture Sciences, Hainan, P.R. China		

Research Interests

Diversity of actinomycetes and their biotechnological applications, Prokaryotic culturability and selective isolation techniques, Microbial diversity in marine and freshwater habitats, Thermotolerant acetic acid bacteria, Microbiology of biogas production

Grants Funded

2015-2018	Plant growth promoting actinomycetes phase II funded by Thailand Research Fund-RTA5880006 (co-PI)
2015-2016	Application of plant growth promoting bacteria to enhance phytoremediation of
	heavy metals from electronics wastes by some cut flower plants
2015-2016	Screening of plant growth promoting microbes for application in microalgal
	cultivation for bio-fuel and bio-active compounds production (co-PI)
2015-2016	Plant growth promoting actinomycetes funded by Thailand Research Fund
	(co-PI)
2014-2015	Potential of bio-plastic production from Spirulina platensis cultivated with
	simple medium CMU1 and degradation funded by NRCT
2013-2014	Actinomycetes from Thai coastal marine and mangrove sediments and their
	bioactive compounds year 2 funded by NRCT-NSFC Cooperative Project
2013	Concrete Quality Improvement Using Urease Producing Bacteria funded by
	Faculty of Science, Chiang Mai University
2012-2013	Actinomycetes from solar saltern and biological activities against
	cancer cell funded by KURDI (co-PI)
2011-2012	The development of science digital textbook prototypes to promote science
	concepts for Thai high school students funded by NRCT (co-PI)
2011-2012	Actinomycetes from Thai coastal marine and mangrove sediments and their
	bioactive compounds funded by NRCT-NSFC Cooperative Project
2011	Isolation and screening of urease producing bacteria for concrete quality
	improvement funded by Faculty of Science, Chiang Mai University
2011	Microbial Air Contamination in Faculty of Science Library funded by Faculty
	of Science, Chiang Mai University
2010-2012	Investigation of actinomycetes resources in tropical marine and terrestrial
	environment by culture dependent and culture independent approach funded by
	SINO-THAI JOINT RESEARCH AND DEVELOPMENT PROJECT
2010-2012	Diversity and siderophore production of actinomycetes from coastal sediments
	of eastern Thailand funded by Thailand Research Fund
2010	Isolation and screening of actinomycetes from cave soil and their anti-MRSA
	activity funded by Faculty of Science, Chiang Mai University
2009-2010	Development of antibacterial floor coating epoxy material funded by ITAP
2009-2010	โครงการพัฒนาผลิตภัณฑ์สีอิพ๊อกซี่เคลือบพื้นคอนกรีตชนิคผสมสารป้องกันเชื้อ
	แบกที่เรีย สนับสนุน โดยสวทช.ภาคเหนือ

2009-2010	Study on effective microorganisms and optimum conditions for cassava and
	corn plant degradation for biogas production funded by Energy Research and
	Development Institute, Chiang Mai University
2009-2010	Microbiological study and development of suitable transportation for sulfur
	oxidizing bacteria funded by Energy Research and Development Institute,
	Chiang Mai University
2009	Isolation and Screening of Sulfur Oxidizing Bacteria for Hydrogen Sulfide
	Removal from Biogas funded by Faculty of Science, Chiang Mai University
2008-2009	Biogas Purification funded by Energy Policy and Planning Office, Ministry of
	Energy
2008-2009	Pretreatment of organic wastes for biogas production by selected
	microorganisms funded by Industrial Projects for Undergraduate Students
	(IRPUS)
2007-2008	Taxonomic characterization of actinomycetes isolated from cave and their
	antimicrobial activity funded by Chiang Mai University
2006-2007	Phylogenetic analysis of rare actinomycetes from caves in northern Thailand
	based on 16S rRNA gene funded by Nanoscience and Nanotechnology Center
	Chiang Mai University

Editorial and Review activities

2014-present	Consultant Editor	Chiang Mai University Journal of Natural
		Sciences
2011-present	Editor-in-Chief	Chiang Mai Journal of Science
2010-present	Associate Editor	Chiang Mai Journal of Science
2006-present	Member, Editorial Board	Chiang Mai Journal of Science
2007-2010	Technical Editor	Research Journal of Microbiology
2007-2010	Technical Editor	Biotechnology
2007-2010	Technical Editor	Current Research in Bacteriology
2007-2010	Technical Editor	Journal of Biological Science
2007-2010	Technical Editor	Pakistan Journal of Biological Science
2008-present	Reviewer	Applied Microbiology and Biotechnology
2009-present	Reviewer	International Journal of Systematic and
		Evolutionary Microbiology
2009-present	Reviewer	Marine Drugs
2009-present	Reviewer	Maejo International Journal of Science and
		Technology
2011-present	Reviewer	Antonie van Leeuwenhoek

2011-present	Reviewer	International Journal of Food Sciences and
--------------	----------	--

Nutrition

2011-present	Reviewer	Biosciences, Biotechnology, Biochemistry
2013-present	Reviewer	Preparative Biochemistry and Biotechnology

2013-present Reviewer International Journal of Speleology

2015-present Reviewer FEMS Microbiology Letters

2015-present Reviewer International Journal of Biological Sciences
2015-present Reviewer Bergey's Manual of Systematics of Archaea

and Bacteria

Invited Lecturer

2000 Maejo University, Chiang Mai2006-2009 Rajabhat Chiang Mai University

2015 Phayao University

External Examiner

2016-present Mae Fah Luang University

2015- present Khon Kaen University

2013-present Prince of Songkla University

2012-present Mahidol University2010-present Maejo University

2009-present University of Malaya, Malaysia

Academic activities

International Foundation for Science, Sweden Scientific Advisor since 2012
Thai Society for Biotechnology Life membership since 1999
The Science Society of Thailand Life membership since 2006

Society for General Microbiology, UK

Society for Applied Microbiology, UK

American Society for Microbiology, USA

Member 2001-present

Member 2003-present

Member 2001, 2004-2005

International Collaborations

- 1. Microbial Resources Laboratory, Newcastle University, UK
- 2. Institute of Tropical Biosciences and Biotechnology, Hainan, PR China
- 3. Kitasato Institute for Life Sciences, Kitasato University, Tokyo, Japan
- 4. Ritsumeikan University, Shiga, Japan

- 5. School of Pharmaceutical Science, Wuhan University, PR China
- 6. Research Faculty of Agriculture, Hokkaido University, Japan
- 7. Department of Applied Biological Chemistry, Faculty of Agriculture, Shizuoka University, Japan
- 8. Institute for Water Research, University of Granada, Spain
- 9. College of Medicine, Chung Ang University, South Korea

Intellectual Properties

- 1. Patent "Lactic acid production medium and direct lactic acid production from starch" (Thai Patent Application no. 1301000234)
- 2. Petty patent "Cultivation process of *Streptomyces* using starchy wastewater" (Thai Patent Application no. 12030011376)
- 3. Patent "System and cultivation technique for co-culture of actinomycetes and algae" (Thai Patent Application no. 1601000706)
- 4. Petty patent "Actinomycete powder for bioplastic degradation" (filing)
- 5. Petty patent "Production process of powdered probiotic streptomycete for aquaculture" (filing)

Book

ปทานุกรมจุลชีววิทยา (2558) สำนักพิมพ์แห่งจุฬาลงกรณ์มหาวิทยาลัย

Publications [h-index = 10 (Web of Science); 10 (Scopus)] Research articles in peer reviewed journals (impact factor):

- 1. Jaiinphon, J., K. Thonglem and **W. Pathom-aree**. 2002. Selective isolation of sorbitol utilizing acetic acid bacteria. Chiang Mai Journal of Science. 29(3): 189-192.
- 2. Maldonado, L.A., J.E.M. Stach, **W. Pathom-aree**, A.C. Ward, A.T. Bull and M. Goodfellow. 2005. Diversity of cultivable actinobacteria in geographically widespread marine sediments. Antonie van Leeuwenhoek 87: 11-18. (2.915)
- 3. Bruntner, C., Binder, T., **Pathom-aree, W**., Goodfellow, M., Bull, A.T., Potterat, O., Puder, C., Hörer, S., Schmid, A., Bolek, W., Wagner, K., Mihm, G. and Fiedler, H.P. 2005. Frigocyclinone, a novel angucyclinone antibiotic produced by a *Streptomyces griseus* strain from Antarctica. Journal of Antibiotics (Tokyo)58: 346-349. (1.394)
- 4. **Pathom-aree W.**, A.C. Ward, K. Horikoshi, A.T. Bull and M. Goodfellow. 2006. Diversity of actinomycetes isolated from the Challenger Deep sediment (10898 m) from the Mariana Trench. Extremophiles 10:181-189. (2.125)
- 5. **Pathom-aree, W**., Y. Nogi, I.C. Sutcliffe, A.C. Ward, K. Horikoshi, A.T. Bull and M. Goodfellow. 2006. *Williamsia marianaensis* sp. nov., a novel actinomycete isolated from the

- Mariana Trench. International Journal of Systematic and Evolutionary Microbiology 56:1123-1126. (2.744)
- 6. **Pathom-aree, W.**, Y. Nogi, I.C. Sutcliffe, A.C. Ward, K. Horikoshi, A.T. Bull and M. Goodfellow. 2006. *Dermacoccus abyssi* sp. nov., a novel piezotolerant actinomycete isolated from the Mariana Trench. International Journal of Systematic and Evolutionary Microbiology 56:1233-1237. (2.744)
- 7. **Pathom-aree, W.**, Y. Nogi, I.C. Sutcliffe, A.C. Ward, K. Horikoshi, A.T. Bull and M. Goodfellow. 2006. *Dermacoccus barathri* sp. nov. and *Dermacoccus profundi* sp. nov., novel actinomycetes isolated from the deepest sea mud of Mariana Trench. International Journal of Systematic and Evolutionary Microbiology 56: 2303-2307. (2.744)
- 8. Hanmoungjai, W., E. Chukeatirote, **W. Pathom-aree**, Y. Yamada and S. Lumyong. 2007. Identification of acidotolerant acetic acid bacteria isolated from Thailand sources. Research Journal of Microbiology 2(2): 194-197.
- 9. Sudsakda, S., W. Srichareon, and **W. Pathom-aree.** 2007. Comparison of three enrichment broths for the isolation of thermotolerant acetic acid bacteria from flowers and fruits. Research Journal of Microbiology 2(10): 792-795.
- 10. Duthatai, F. and **W. Pathom-aree.** 2007. Application of chemical dyes as colour indicator for selective isolation of acetic acid bacteria. Research Journal of Microbiology 2(11): 885-888.
- 11. Thonglem, K., A. Plikomol and **W. Pathom-aree.** 2007. Growth inhibition of *Penicillium digitatum* by antagonistic microorganisms isolated from various parts of orange tree. Maejo International Journal of Science and Technology 1(2): 208-215.
- 12. Moryadee, A. and **W. Pathom-aree.** 2008. Isolation of thermotolerant acetic acid bacteria from fruits for vinegar production. Research Journal of Microbiology 3(3): 209-212.
- 13. Fiedler, H.P., C. Bruntner, J. Riedlinger, A.T. Bull, G. Knutsen, M. Goodfellow, A. Jones, L. Maldonado, **W. Pathom-aree**, W. Biel, K. Schneider, S. Keller and R.D. Sussmuth. 2008. Proximicin A, B and C, novel aminofuran antibiotic and anticancer compounds isolated from marine strains of the actinomycete *Verrucosispora*. Journal of Antibiotics (Tokyo) 61: 158-163. (1.262)
- 14. Thampayak, I., N. Cheeptham, **W. Pathom-aree**, P. Leelapornpisid and S. Lumyong. 2008. Isolation and identification of biosurfactant producing actinomycetes from soil. Research Journal of Microbiology 3(7): 499-507.
- 15. Kappeng, K. and **W. Pathom-aree.** 2009. Isolation of acetic acid bacteria from honey. Maejo International Journal of Science and Technology 3(1): 71-76. (0.222)
- 16. Nakaew, N., **W. Pathom-aree** and S. Lumyong. 2009. First record of the isolation, identification and biological activity of a new strain of *Spirillospora albida* from Thai cave soil. Actinomycetologica 23: 1-7.

- 17. Wangsiricharoen, S. and **W. Pathom-aree**. 2009. Hydrogen sulfide removal from biogas by microorganisms. KKU Science Journal 37(2): 130-136. (in Thai)
- 18. **Pathom-aree, W**. 2009. Characterisation of actinomycetes from Helmcken Falls volcanic cave and their antimicrobial activity against the honey bee pathogen *Paenibacillus larvae*. Microbiologist 10(3): 48-49.
- 19. Nakaew, N., **W. Pathom-aree** and S. Lumyong. 2009. Generic diversity of rare actinomycetes from Thai cave soils and their possible use as new bioactive compounds. Actinomycetologica 23(2): 21-26.
- 20. Duangmal, K. and **W. Pathom-aree**. 2010. Marine actinomycetes: source of novel natural products. KKU Science Journal 38(1): 36-49. (in Thai)
- 21. Srivibool, R., K. Jaidee, M. Sukchotiratana, S. Tokuyama and **W. Pathom-aree**. 2010. Taxonomic characterization of *Streptomyces* strain CH54-4 isolated from mangrove sediment. Annals of Microbiology 60: 299-305. (0.35)
- 22. Abdel-Mageed, W.M., B.F. Milne, M. Wagner, M. Schumacher, P. Sandor, **W. Pathomaree**, M. Goodfellow, A.T. Bull, K. Horikoshi, R. Ebel, M. Diederich, H.-P. Fiedler and M. Jaspars. 2010. Dermacozines, a new phenazine family from deep-sea dermacocci isolated from a Mariana Trench sediment. Organic and Biomolecular Chemistry 8: 2352-2362. (3.762)
- 23. Wangsiricharoen, S. and **W. Pathom-aree.** 2010. Microorganisms associated with biogas production. Science 64: 70-74 (in Thai)
- 24. Ratanaroutai, T. and **W. Pathom-aree.** 2010. A case study on teaching and learning DNA. US-China Education Review 7(8): 37-42.
- 25. Chomchoei, A., **W. Pathom-aree**, A. Yokota, C. Kanongnuch and S. Lumyong. 2011. *Amycolatopsis thailandensis* sp. nov., a poly(L-lactic acid)-degrading actinomycete, isolated from soil. International Journal of Systematic and Evolutionary Microbiology 61: 839-843. (1.93)
- 26. Duangmal, K., R. Mingma, **W. Pathom-aree**, A. Thamchaipenet, Y. Inahashi, A. Matsumoto and Y. Takahashi. 2011. *Amycolatopsis samaneae* sp. nov., isolated from roots of *Samanea saman* (Jacq.) Merr. International Journal of Systematic and Evolutionary Microbiology 61: 951-955. (1.93)
- 27. Duangmal, K., R. Mingma, **W. Pathom-aree**, Y. Inahashi, A. Matsumoto, A. Thamchaipenet, and Y. Takahashi. 2011. *Sphaerisporangium siamense* sp. nov., an actinomycete isolated from rubber tree rhizospheric soil. Journal of Antibiotics 64(4): 293-296. (1.628)
- 28. Praparattanapan, J., Tragoolpoor, Y., **W. Pathom-aree**, Kotarathitithum, W., Chaiwarith, R., Nuntachit, N., Sirisanthana, T. and Supparatpinyo, K. 2011. Current molecular epidemiology and recombination of HIV-1 subtypes in northern Thailand. AIDS Research and Human Retroviruses 27(11): 1201-1206. (2.082)

- 29. Yodbunruang, T. and **W. Pathom-aree.** 2011. Isolation and selection of antimicrobial producing actinomycetes from Mae-Mor coal mine soils. Science 65: 84-90 (in Thai)
- 30. Singka, D. and **W. Pathom-aree.** 2011. Denaturing gradient gel electrophoresis: Principle and application in environmental microbiology. KKU Science Journal 39(3): 321-333. (in Thai)
- 31. Singka, D., L. Kumdhitiahutsawakul, P. Rekkriangkrai and **W. Pathom-aree.** 2012. A simple method for DNA extraction from activated sludge. Chiang Mai Journal of Science 39(1): 111-118. (0.473)
- 32. Konkit, M., A. Jarerat, C. Kanongnuch, S. Lumyong and **W. Pathom-aree.** 2012. Poly(lactide) degradation by *Pseudonocardia alni* AS4.1531^T. Chiang Mai Journal of Science 39(1): 128-132. (0.473)
- 33. Niyomvong, N. **W. Pathom-aree**, A. Thamchaipenet and K. Duangmal. 2012. Actinomycetes from tropical limestone caves. Chiang Mai Journal of Science 39(3): 373-388. (0.473)
- 34. Duangmal, K., R. Mingma, **W. Pathom-aree**, N. Niyomvong, Y. Inahashi, A. Matsumoto, A. Thamchaipenet, and Y. Takahashi. 2012. *Microbispora thailandensis* sp. nov., an actinomycete isolated from cave soil. Journal of Antibiotics 65: 491-494. (2.191).
- 35. Suksawat, S. and **W. Pathom-aree**. 2012. The role of bacteria on bioplastic. Srinakharinwirot Science Journal 28(2): 285-304. (in Thai).
- 36. Kay, S., **W. Pathom-aree** and Cheeptham, N. 2013. Screening of volcanic cave actinomycetes for antimicrobial activity against *Paenibacillus larvae*, a honey bee pathogen. Chiang Mai Journal of Science 40(1): 26-33. (0.516)
- 37. Lang, W., W. Buranaboripan, J. Wongchawalit, P. Parakulsuksatid, W. Vanichsriratana, N. Sakairi, **W. Pathom-aree** and S. Sirisansaneeyakul. 2013. Biosorption of lead from acid solution using chitosan as a supporting material for spore forming fungal biomass encapsulation. International Journal of Environmental Science and Technology 10(3): 579-590. (3.051)
- 38. Srisamai, S., P. Srikhampa and **W. Pathom-aree**. 2013. Production of probiotic *Streptomyces* biomass from starchy wastewater. Chiang Mai Journal of Science 40(2): 294-298. (0.516).
- 39. Goodfellow, M., R. Brown, L. Ahmed, **W. Pathom-aree**, A.T. Bull, A.L. Jones, J.E.M. Stach, T.D. Zucchi, L. Zhang and J. Wang. 2013. *Verrucosispora fiedleri* sp. nov., an actinomycete isolated from fjord sediment which synthesizes proximicins. Antonie van Leeuwenhoek 103: 493-502. (2.072).

- 40. Shutsrirung, A., Y. Chromkaew, **W. Pathom-aree**, S. Choonluchanon and N. Boonkerd. 2013. Diversity of endophytic actinomycetes in mandarin grown in northern Thailand, their phytohormone production potential and plant growth promoting activity. Soil Science and Plant Nutrition 59: 322-330. (0.889).
- 41. Mingma, R., **W. Pathom-aree**, S. Trakulnaleamsai, A. Thamchaipenet and K. Duangmal. 2014. Isolation of rhizospheric and roots endophytic actinomycetes from Leguminosae plant and their activities to inhibit soybean pathogen, *Xanthomonas campestris* pv. *glycine*. World Journal of Microbiology and Biotechnology 30: 271-280. (1.262).
- 42. Lang, W., S. Sirisansaneeyakul, L.O. Martins, L. Ngiwsara, N. Sakairi, **W. Pathom-aree**, M. Okuyama, H. Mori and A. Kimura. 2014. Biodecolourisation of food azo dye by the deep sea *Dermacoccus abyssi* MT1.1^T strain from the Mariana Trench. Journal of Environmental Management 132: 155-164. (3.057)
- 43. Kanpiengjai, A., S. Lumyong, **W. Pathom-aree** and C. Khanongnuch. 2014. Starchy effluent from rice noodle manufacturing process as feasible substrate for direct lactic acid production by *Lactobacillus plantarum* S21. Journal of The Korean Society of Applied Biological Chemistry 57(2): 217-220. (0.433)
- 44. Kamjam, M. and **W. Pathom-aree**. 2014. Siderophores from microorganisms. Srinakharinwirot Science Journal 30(1): 229-247. (in Thai).
- 45. Kanpiengjai, A., W. Rieantrakoonchai, R. Pratanaphon, **W. Pathom-aree**, S. Lumyong and C. Khanongnuch. 2014. High efficiency bioconversion of starch to lactic acid using an amylolytic lactic acid bacterium isolated from Thai indigenous fermented rice noodles. Food Science and Biotechnology 23(5): 1541-1550. DOI 10.1007/s10068-014-0 (0.656)
- 46. Duangmal, K., N. Poomthongdee, **W. Pathom-aree**, A. Take, A. Thamchaipenet, A. Matsumoto, and Y. Takahashi. 2014. *Allokutzneria oryzae* sp. nov., isolated from rhizospheric soil of *Oryza sativa* L. International Journal of Systematic and Evolutionary Microbiology 64: 3559-3564. (2.798).
- 47. Prasertsin, T., J. Pekkoh, **W. Pathom-aree** and Y. Peerapornpisal. 2014. Diversity, new and rare taxa of *Pediastrum* spp. in some freshwater resources in Thailand. Chiang Mai Journal of Science 41(5.1): 1065-1076. (0.418)
- 48. Ruan, C.-Y. L. Zhang, W.-W., Ye, X.-C., Xie, R. Srivibool, R., K. Duangmal, **W. Pathomaree**, Z.-X., Deng and K. Hong. 2015. *Streptomyces ferrugineus* sp. nov., isolated from mangrove soil in Thailand. Antonie van Leeuwenhoek 107: 39-45. DOI:10.1007/s10482-014-0301-6 (2.07)
- 49. Ruttanasutja, P. and **W. Pathom-aree.** 2015. Selective isolation of cultivable actinomycetes from Thai coastal marine sediment. Chiang Mai Journal of Science 42(1): 88-103. (0.418)
- 50. Muangham, S., **W. Pathom-aree** and K. Duangmal. 2015. Antagonistic activities to *Xanthomonas oryzae* and screening of plant growth-promoting traits in melanogenic actinomycetes

- from rhizosphere soil. Canadian Journal of Microbiology 61: 164-170. DOI:10.1139/cjm-2014-0645 (1.182).
- 51. Poomthongdee, N., K. Duangmal and **W. Pathom-aree**. 2015. Acidophilic actinomycetes from rhizosphere soil: diversity and properties beneficial to plants. Journal of Antibiotics 68: 106-114. doi:10.1038/ja.2014.117 (2.041).
- 52. Inthasotti, T. and **W. Pathom-aree**. 2015. Diversity of actinobacteria associated with *Nostoc commune* Vaucher ex Bornet & Flahault macrocolonies. Annals of Microbiology 65(4): 2229-2240. DOI 10.1007/s13213-015-1063-8 (1.039).
- 53. Yoosathaporn, S., P. Tiangburanatham and **W. Pathom-aree**. 2015. The influence of biocalcification on soil-cement interlocking block compressive strength. Biotechnology, Agronomy, Society and Environment 19(3): 262-269. (0.509)
- 54. Jiamkitwattana, K. and **W. Pathom-aree**. 2015. Application of plant growth promoting bacteria with phytoextraction technology for remediation of contaminated heavy metals in soil. Srinakharinwirot Science Journal 31(1): 219-234. (in Thai).
- 55. Suksaard, P., K. Duangmal, R. Srivibool, Q. Xie, K. Hong and **W. Pathom-aree**. 2015. *Jiangella mangrove* sp. nov., isolated from mangrove soil. International Journal of Systematic and Evolutionary Microbiology 65: 2569-2573. (2.798)
- 56. Penkhrue, W., C. Khanongnuch, K. Masaki, **W. Pathom-aree**, W. Punyodom and S. Lumyong. 2015. Isolation and screening of biopolymer-degrading microorganisms from northern Thailand. World Journal of Microbiology and Biotechnology 31: 1431-1442. (1.353)
- 57. Suwanpakdee, S., R. Gutierrez, S. Pithakpol, A. Jampeetong, **W. Pathom-aree**, N. Nomura, T. Itayama and N. Whangchai. 2016. Earthy-musty odour and off-flavour taints in Phayao lake, Thailand. Chiang Mai Journal of Science 43(1): 22-31. (0.420)
- 58. Yoosathaporn, S., P. Tiangburanatham, S. Bovonsombat, A. Chaipanich and **W. Pathomaree**. 2016. A cost effective cultivation medium for biocalcification of *Bacillus pasteurii* KCTC3558 and its effect on cement cubes properties. Microbiological Research 186: 132-138. (2.561)
- 59. Duangmal, K., P. Suksaard, **W. Pathom-aree**, R. Mingma, A. Matsumoto and Y. Takahashi. 2016. *Actinopolyspora salinaria* sp. nov., a halophilic actinomycete isolated from solar saltern soil. International Journal of Systematic and Evolutionary Microbiology 66: 1660-1665. (2.511)
- 60. Himaman, W., Thamchaipenet, A., **W. Pathom-aree** and K. Duangmal. 2016. Actinomycetes from Eucalyptus and their biological activities for controlling Eucalyptus leaf and shoot blight. Microbiological Research 188: 42-52. (2.561)
- 61. Sujarit, K., T. Kudo, M. Ohkuma, **W. Pathom-aree** and S. Lumyong. 2016. *Streptomyces palmae* sp. nov., isolated from oil palm (*Elaeis guineensis*) rhizosphere soil. International Journal of Systematic and Evolutionary Microbiology 66(10): 3983-3988.

- 62. Lasudee, K., S. Tokuyama, S. Lumyong and **W. Pathom-aree**. 2017. Mycorrhizal spores associated *Lysobacter soli* and its plant growth promoting activity. Chiang Mai Journal of Science 44(1): 94-101. (0.420)
- 63. Thongkantha, S., S. Thongklam, **W. Pathom-aree**, S. Lumyong and B. Bussaban. 2017. First record of *Borofutus dhakanus* (*Boletaceae*, *Leccinoideae*) in Thailand. Archives of Biological Sciences (accepted)

Publications in Scientific Proceeding:

- 1. Onnoom, K., **W. Pathom-aree**, K. Lomthaisong and H. Niamsup. 2009. Salt tolerant ability of bacteria Dermacoccus abyssi isolated from Mariana Trench. Proceeding of The 21st Annual Meeting and International Conference of Thai Society for Biotechnology. pp. 716-719.
- 2. Suriyarungsie, J., **W. Pathom-aree** and A. Plikomol. 2009. Production of antibiotics by soil bacteria cultivated in soybean curd whey. Proceeding of The 21st Annual Meeting and International Conference of Thai Society for Biotechnology, pp. 754-758.
- 3. Lawapakull, P., K. Sirichai, S. Phednin, W. Komejai, U. Anukool and **W. Pathom-aree**. 2009. Isolation and identification of antimicrobial producing actinomycetes from cave soils. Proceeding of The 21st Annual Meeting and International Conference of Thai Society for Biotechnology, pp. 764-770.
- 4 Chaiwong, S., **W. Pathom-aree** and A. Plikomol. 2010. Enhancement of Bioethanol Production from Soybean Curd Whey. Proceeding of International Conference for a Sustainable Greater Mekong Subregion (GMSTEC 2010), pp. 596-601.
- 5. Kanpiengjai, A., **W. Pathom-aree**, S. Lumyong and C. Khanongnuch. 2012. Feasibility on direct lactic acid fermentation from starchy wastewater by *Lactobacillus* sp. S21. Proceeding of International Conference on Food and Applied Bioscience.
- 6. Suksawat, S., A. Jarerat, C. Khanongnuch, S. Lumyong and **W. Pathom-aree.** 2013. Effect of hot water on degradation of polylactide bioplastic by actinomycetes. The 5th Science Research Conference. 4-5 March 2013, University of Phayao, Phayao, Thailand.
- 7. Kamjam, M. and **W. Pathom-aree.** 2013. Isolation and screening of actinomycetes capable of siderophore production from some Thai mangrove sediments. The 5th Science Research Conference. 4-5 March 2013, University of Phayao, Phayao, Thailand.
- 8. Nuantum, W., T. Kongsri and **W. Pathom-aree.** 2013. Degradation of hot water treated polylactide bioplastic by mixed actinomycetes. The 5th Science Research Conference. 4-5 March 2013, University of Phayao, Phayao, Thailand.

Oral Presentation:

1. **Pathom-aree, W.**, G. Theeragool, N. Lotong, H. Toyama, K. Matsushita and O. Adachi. 2000. Nucleotide sequences of random amplified polymorphic DNA fragments from

- thermotolerant acetic acid bacteria. The 2nd JSPS-NRCT Joint Seminar on Development of Thermotolerant Microbial Resources and Their Applications in Thailand and Japan. Yamaguchi University, Japan.
- 2. **Pathom-aree, W**., Alan C. Ward and Michael Goodfellow. 2003. Diversity of actinomycetes from marine sediments. The 2nd Thai Student Academic Conference, 3-4 October 2003, Aachen, Germany.
- 3. Antony Babu, S., **W. Pathom-aree**, S. Nam, L.A. Maldonado, A.C. Ward and M. Goodfellow. 2003. Alkalitolerant streptomycete diversity in littoral and sand dune systems. The 13th International Symposium on the Biology of Actinomycetes (ISBA), 1-5 December 2003, Melbourne, Australia.
- 4. **Pathom-aree, W**. 2007. Diversity of actinomycetes in marine sediments. Workshop and Seminar on Chemistry, Biological Activities and Biodiversity of Marine Organisms, 6-8 November 2007, Institute of Marine Science, Burapha University, Chonburi, Thailand.
- 5. Ratanaroutai and **W. Pathom-aree**. 2008. The effects of chemical components of DNA unit on disadvantaged Thai highschool students. International Conference on Science and Mathematics Education, 27-29 October 2008, Quezon city, Philippines.
- 6. Wangsiricharoen, S., U. Kuntha, P. Thiengburanathum, P. Pholchan and **W. Pathom-aree**. 2009. Isolation and characterization of bacteria capable of H₂S removal from biogas produced from anaerobic wastewater treatment in swine farm. Asian Core Program Joint Seminar on Capacity Building and Development of Microbial Potential and Fermentation Technology Towards New Era. 20-21 March 2009, Kasetsart University, Thailand.
- 7. Yano, S., N. Rattanakit-Chandet, W. Suyotha, Y. Matsumiya, S. Sanpa, **W. Pathom-aree**, A. Plikomol, M. Kubo, T. Tachiki and M. Wakayama. 2010. Role of N-terminal region of chitinase I of *Bacillus circulans* KA-304 in protoplast formation of *Schizophyllum commune*. The 2nd Asian Core Program Joint Seminar on Capacity Building and Development of Microbial Potential and Fermentation Technology Towards New Era. 20-21 November 2010, Khon Kaen, Thailand.
- 8. Sanpa, S., N. Punpuech, A. Plikomol, N. Chandet, **W. Pathom-aree**, S. Yano, Y. Matsumiya, M. Wakayama, T. Tachiki and M. Kubo. 2011. Hydrolysis of cellulosic agricultural waste with cellulose degrading fungi for bioethanol production. The 4th International Conference on Fermentation Technology for Value Added Agricultural Products. 29-31 August 2011, Khon Kaen, Thailand.
- 9. Kubo, M., Y. Matsumiya, S. Sanpa, T. Matsuno, S. Horii, S. Yano, N. Rattanakit-chandet, **W. Pathom-aree**, A. Plikomol, T. Tachiki and M. Wakayama. 2011. A new method for an evaluation of agricultural soil fertility. The 4th International Conference on Fermentation Technology for Value Added Agricultural Products. 29-31 August 2011, Khon Kaen, Thailand.

- 10. Wakayama, M., Y. Onishi, S. Yano, J. Thongsanit, N. Boontim, N. Rattanakit-chandet, S. Sanpa, **W. Pathom-aree**, Y. Matsumiya, T. Tachiki and M. Kubo. 2011. Characterization of the type II L-asparaginase from *Bacillus subtilis* and its application to the process of food production. The 4th International Conference on Fermentation Technology for Value Added Agricultural Products. 29-31 August 2011, Khon Kaen, Thailand.
- 11. **Pathom-aree, W**., N. Jaito, M. Kamjam, R. Srivibool, K. Hong and K. Duangmal. 2012. Actinobacteria from Thai mangrove sediments: novel taxa, bioactive compounds and plant growth promoting potential. International Conference on Microbial Taxonomy Basic and Applied Microbiology, 4-6 October 2012, Khon Kaen, Thailand.
- 12. Matsuno, T., S. Horii, Y. Matsumiya, S. Sanpa, S. Yano, **W. Pathom-aree**, N. Chandet, S. Bavonsombut, A. Plikomol, T. Tachiki, M. Wakayama and M. Kubo. 2012. Utilization of low quality biomass for preserving environment-database of bacterial biomass and nitrogen circulation in soil for improvement of soil fertility. The 3rd Asian Core Program Joint Seminar on Capacity Building and Development of Microbial Potential and Fermentation Technology Towards New Era. 18-21 November 2012, Shimonoseki, Japan.
- 13. Okumura, J.T., N. Boontim, S. Yano, Y. Matsumiya, N. Chandet, **W. Pathom-aree**, A. Plikomol, S. Sanpa, T. Tachiki, M. Kubo and M. Wakayama. 2012. Polylactide degradation by actinomycetes. The 3rd Asian Core Program Joint Seminar on Capacity Building and Development of Microbial Potential and Fermentation Technology Towards New Era. 18-21 November 2012, Shimonoseki, Japan.
- 14. Khanongnuch, C. A. Kanpiengjai, S. Lumyong, **W. Pathom-aree**, K. Uechi and G. Takata. 2014. Amylolytic lactic acid bacteria isolated from Thai indigenous food and the challenges of valuable diversity. The 1st Joint Seminar New Core to Core Program A. Advanced Research Networks on Establishment of an International Research Core for New Bio-Research Fields with Microbes from Tropical Areas (World-Class Research Hub of Tropical Microbial Resources and Their Utilization). 10-11 August 2014, Bangkok, Thailand.
- 15. **Pathom-aree, W.**, K. Lasudee and S. Tokuyama. 2015. Isolation and screening of plant growth promoting actinomycetes from *Glomus mosseae* spores. International Joint Seminar of New Core to Core Program A. Advanced Research Networks on Establishment of an International Research Core for New Bio-Research Fields with Microbes from Tropical Areas (World-Class Research Hub of Tropical Microbial Resources and Their Utilization). 18 August 2015, Bangkok, Thailand.
- 16. **Pathom-aree, W.**, K. Lasudee, S. Lumyong and S. Tokuyama. 2015. Isolation and screening of plant growth promoting actinomycetes from *Glomus mosseae* spores. The 2nd Myanmar-Japan Symposium, 5-6 December 2015, Pathein University, Pathein, Myanmar.

- 17. **Pathom-aree, W.** and K. Lasudee. 2016. Plant growth promoting actinomycetes from mycorrhiza spores. The 6th Joint Symposium between Kagawa University and Chiang Mai University, 27-30 August 2016, Kagawa University, Kagawa, Japan.
- 18. **Pathom-aree, W.**, K. Lasudee and S. Tokuyama. 2016. Actinomycetes from *Funneliformis mosseae* spores and their plant growth promoting activities. The 2nd Joint Seminar Core to Core Program A. Advanced Research Networks on Establishment of an International Research Core for New Bio-Research Fields with Microbes from Tropical Areas (World-Class Research Hub of Tropical Microbial Resources and Their Utilization). 14-15 November 2016, Chonburi Thailand.
- 19. Wakayama M., S. Pondeeprasit, W. Suyotha, S. Yano, M. Kubo, K. Araki, D. Adhikari, S. Bovonsombut, Y. Tragoolpua, **W. Pathom-aree**, N. Chandet, S. Sanpa, Ir. Sukoso, S. Djati, A. Sartimbul, A. Kurniawan and A.A. Prihanto. 2016. Effect of recombinant α-1,3-glucanase on formation and degradation of *Streptococcus* biofilm. The 2nd Joint Seminar Core to Core Program A. Advanced Research Networks on Establishment of an International Research Core for New Bio-Research Fields with Microbes from Tropical Areas (World-Class Research Hub of Tropical Microbial Resources and Their Utilization). 14-15 November 2016, Chonburi Thailand.

Poster Presentation:

- 1. **Pathom-aree, W**., G. Theeragool and N. Lotong. 1998. Comparison of random amplified polymorphic DNA (RAPD) of thermotolerant and thermosensitive acetic acid bacteria. The 1st JSPS-NRCT Joint Seminar on Development of Thermotolerant Microbial Resources and Their Applications in Thailand and Japan. Kasetsart University, Bangkok.
- 2. Srichareon, W. and **W. Pathom-aree**. 2000. Comparison of enrichment media for isolation of thermotolerant acetic acid bacteria from fruits. The 26th Congress on Science and Technology of Thailand.
- 3. Kanchanarach, W., **W. Pathom-aree**, G. Theeragool, N. Lotong, H. Toyama, K. Matsushita and O. Adachi. 2000. Isolation and characterization of thermotolerant acetic acid bacteria isolated in Thailand. The 2nd JSPS-NRCT Joint Seminar on Development of Thermotolerant Microbial Resources and Their Applications in Thailand and Japan. Yamaguchi University, Japan.
- 4. Maldonado, L.A., **W. Pathom-aree**, J. Stach, A.C. Ward, A.T. Bull and M. Goodfellow. 2001. Actinomycete diversity in marine sediments. The 12th International Symposium on the Biology of Actinomycetes (ISBA), 5-9 August 2001, Vancouver, Canada.
- 5. Sudsakda, S., K. Na Chiangmai and **W. Pathom-aree**. 2001. Comparison of enrichment media for isolation of thermotolerant acetic acid bacteria from flowers. The 27th Congress on Science and Technology of Thailand.

- 6. Fiedler, H.P., J. Stach, L. Maldonado, A.C. Ward, **W. Pathom-aree**, M. Goodfellow and A.T. Bull. 2002. In persuit of novel bioactive metabolites from marine actinomycetes. The 2nd NERC M&FMB Meeting, 11-12 September 2002, University of Plymouth, Plymouth, UK.
- 7. **Pathom-aree, W.**, A.C. Ward, A.T. Bull and M. Goodfellow. 2002. Diversity of *Pseudonocardia* in marine sediments. The 2nd NERC M&FMB Meeting, 11-12 September 2002, University of Plymouth, Plymouth, UK.
- 8. **Pathom-aree, W**., A.T. Bull, M. Cross, L.A. Maldonado, D. Manning, M. Goodfellow and A.C. Ward. 2003. Biology of deep-sea *Pseudonocardia*. The 3rd NERC M&FMB Meeting, 12-13 September 2003, University of Lancaster, Lancaster, UK.
- 9. Antony Babu, S., **W. Pathom-aree**, S.W. Nam, L.A. Maldonado, A.C Ward and M. Goodfellow. 2003. Alkalotolerant streptomycete diversity in littoral and sand dune systems. The 3rd NERC M&FMB Meeting, 12-13 September 2003, University of Lancaster, Lancaster, UK.
- 10. Maldonado, L.A., S. Antony-Babu, A.T. Bull, **W. Pathom-aree**, J.E. Stach, A.C. Ward, and M. Goodfellow. 2003. Culturable diversity of actinomycetes in marine sediments. The 3rd NERC M&FMB Meeting, 12-13 September 2003, University of Lancaster, Lancaster, UK.
- 11. Maldonado, L.A., M. Goodfellow, **W. Pathom-aree** and A.C. Ward. 2003. A bioprospecting strategy for marine actinomycetes. The 13th International Symposium on the Biology of Actinomycetes (ISBA), 1-5 December 2003, Melbourne, Australia.
- 12. **Pathom-aree, W**., L.A. Maldonado, A.C. Ward, A.T. Bull and M. Goodfellow. 2003. Isolation and characterisation of Pseudonocardiae from marine sediments. The 13th International Symposium on the Biology of Actinomycetes (ISBA), 1-5 December 2003, Melbourne, Australia.
- 13. **Pathom-aree, W**., S. Antony Babu, K. Duangmal, L.A. Maldonado, A.C. Ward, A.T. Bull and M. Goodfellow. 2003. Streptomycete diversity in deep-sea marine sediments. The 13th International Symposium on the Biology of Actinomycetes (ISBA), 1-5 December 2003, Melbourne, Australia.
- 14. **Pathom-aree, W.**, L.A. Maldonado, A.C. Ward, A.T. Bull and M. Goodfellow. 2003. Representative sampling of cultivable actinomycetes from marine sediments. The 13th International Symposium on the Biology of Actinomycetes (ISBA), 1-5 December 2003, Melbourne, Australia.
- 15. Maldonado, L.A., J.E.M. Stach, **W. Pathom-aree**, A.C. Ward, A.T. Bull and M. Goodfellow. 2003. Micromonosporae diversity in the marine environment. The 13th International Symposium on the Biology of Actinomycetes (ISBA), 1-5 December 2003, Melbourne, Australia.
- 16. **Pathom-aree, W**., S. Antony Babu, E.T Quintana and M. Goodfellow. 2004. Characterization of novel *Nonomuraea* strain from Canary Basin Sediment. The 154th Society

- for General Microbiology (SGM) meeting, 29 March-2 April 2004, Uniersity of Bath, Bath, UK.
- 17. Payne, G., K. Duangmal, **W. Pathom-aree**, A.C. Ward and M. Goodfellow. 2004. Comparative genomics of marine and terrestrial streptomycetes. The 10th International Symposium on Microbial Ecology (ISME-10) Microbial Planet: Subsurface to Space, 22-27 August, Cancun, Mexico.
- 18. **Pathom-aree, W.** and K. Duangmal. 2004. Digital photography in microbiology education: An example from actinomycete research. The 20th Biennial Conference on the Asian Association for Biology Education (AABE-20) 26-30 December, Chiang Mai, Thailand.
- 19. Cheeptham, N., P. Indebitzin, **W. Pathom-aree**, E. Bottos, S. Richards, J. Pearson, N. Wilde and B.Cinel. 2005. Screening for antimicrobial agents produced by actinomycetes isolated from forest and cave soil samples from Wells Gray Provincial Park. The 55th Canadian Society of Microbiology Conference 12-15 June, Dalhousie University, Halifax, Canada.
- 20. **Pathom-aree**, W., A.C. Ward, K. Horikoshi, A.T.Bull and M. Goodfellow. 2005. Cultivable actinomycete diversity in the deepest sea mud of the Mariana Trench. The 11th Congress of Bacteriology and Applied Microbiology 23-28 July, San Francisco, USA.
- 21. Nakaew, N., **W. Pathom-aree** and S. Lumyong. 2006. Actinomycetes isolated from rhizosphere of Thai medicinal plants and their bioactive compounds. The 2nd FEMS Congress of European Microbiologists 4-8 July, Madrid, Spain.
- 22. Fujareon, D. and **W. Pathom-aree**. 2006. Comparison of dye indicators in selective isolation of thermotolerant acetic acid bacteria. The 32nd Congress on Science and Technology of Thailand.
- 23. **Pathom-aree, W**., S. Kay, K. Watson and N. Cheeptham. 2007. Characterisation of actinomycetes from volcanic cave and their antimicrobial activity against *Paenibacillus larvae*, a honey bee pathogen. The 14th International Symposium on the Biology of Actinomycetes (ISBA), 26-30 August 2007, Newcastle, UK.
- 24. **Pathom-aree, W.,** K. Duangmal, A.C. Ward, A.T. Bull and M. Goodfellow. 2007. Biosystematics and comparative genomics of streptomycetes isolated from Norwegian fjord sediments. The 14th International Symposium on the Biology of Actinomycetes (ISBA), 26-30 August 2007, Newcastle, UK.
- 25. **Pathom-aree, W.**, K. Jaidee, M. Sukchotirattana, S. Tokuyama and R. Srivibool. 2007. Isolation and characterisation of anticancer and antimicrobial producing *Streptomyces* from mangrove sediments. The 14th International Symposium on the Biology of Actinomycetes (ISBA), 26-30 August 2007, Newcastle, UK.
- 26. Lumyong, S., N. Nakaew, W. Pathom-aree and P. Lumyong. 2007. Phylogenetic analysis of rare actinomycetes from cave soils in northern Thailand and their antimicrobial activity

- against *Paenibacillus larvae* and MRSA. The 14th International Symposium on the Biology of Actinomycetes (ISBA), 26-30 August 2007, Newcastle, UK.
- 27. Promnuan, Y., **W. Pathomaree** and P. Chantawannakul. 2007. Diversity of actinomycetes associated with honey bee (*Apis mellifera*) hives in Northern Thailand. Apimondia 2007, 9-14 September 2007, Melbourne, Australia.
- 28. Chantawannakul, P., Y. Promnuan, S. Sanpa, S. Saksinchai, **W. Pathom-aree**, Y. Trakoolpua, R.W. Cutler, L. Ward, N. Boonham, M. Brown, A. Sawatthum, S. Lumyong and S. Wongsiri. 2007. Honey bee genome, bee pathogen and microflora in honey bees in Thailand. Thailand Research Fund Annual Meeting 11-13 October 2007, Pattaya, Thailand.
- 29. Manonuke, S. K. Na-Chiangmai and **W. Pathom-aree**. 2007. Microbiology of fermented bamboo shoot. The 33rd Congress on Science and Technology of Thailand. 18-20 October 2007, Nakhon Si Thammarat, Thailand.
- 30. Kaenkumchorn, W., C. Khanongnuch, **W. Pathom-aree** and S. Lumyong. 2008. Selection of polychlorinated biphenyls degrading bacteria from sewage treatment pond sediments. The 7th National Horticultural Congress 26-30 May 2008, Phitsanuloke, Thailand.
- 31. Leawviriyakit, S. and **W. Pathom-aree**. 2008. Microbiological quality of night time sanitary napkins. The 34th Congress on Science and Technology of Thailand. October 31-November 2, 2008, Bangkok, Thailand.
- 32. Punthong, N., **W. Pathom-aree** and A. Plikomol. 2008. Degradation of fat from fermented fish production process by lipid-degrading bacteria and its application for wastewater treatment. The 34th Congress on Science and Technology of Thailand. October 31-November 2, 2008, Bangkok, Thailand.
- 33. Saijai, S., **W. Pathom-aree**, T. Tachiki and A. Plikomol. 2009. Ethanol production from soybean curd whey by *Saccharomyces cerevisiae* V1116. Asian Core Program Joint Semiar on Capacity Building and Development of Microbial Potential and Fermentation Technology Towards New Era. 20-21 March 2009, Kasetsart University, Thailand.
- 34. Chang-ngern, P., U. Sardsud, **W. Pathom-aree**, P. Chantrasri and E. Chukeatirote. 2009. Diversity of moulds in fresh longan. The 7th National Postharvest Technology Conference. 19-20 August 2009, Krabi, Thailand.
- 35. **Pathom-aree, W.,** P. Lawapakull, U. Anukool and K. Duangmal. 2009. Isolation and taxonomic characterization of actinomycetes isolated from Thai cave soils. The 15th International Symposium on the Biology of Actinomycetes (ISBA), 20-25 August 2009, Shanghai, PR China.
- 36. **Pathom-aree, W.,** S. Wangsiricharoen and P. Pholchan. 2009. Taxonomic characterization of novel H₂S removal actinomycetes isolated from biofilter. The 15th International Symposium on the Biology of Actinomycetes (ISBA), 20-25 August 2009, Shanghai, PR China.

- 37. Duangmal, K., R. Mingma, P. Suksa-ard, **W. Pathom-aree** and A. Thamchaipenet. 2009. Screening of actinomycetes antagonists against rice pathogenic microorganisms. The 15th International Symposium on the Biology of Actinomycetes (ISBA), 20-25 August 2009, Shanghai, PR China.
- 38. Niyomvong, N., K. Duangmal, **W. Pathom-aree**, N. Srisuk and A. Thamchaipenet. 2009. Diversity of cultivable actinomycetes from tropical limestone cave soil. The 15th International Symposium on the Biology of Actinomycetes (ISBA), 20-25 August 2009, Shanghai, PR China. 39. Wagner, M., A. Gierth, W. Abdel-Mageed, M. Jaspars, **W. Pathom-aree**, M. Goodfellow, A.T. Bull, K. Horikoshi and H-P. Fiedler. 2009. Dermacozines: Drugs from the abyss. The 15th International Symposium on the Biology of Actinomycetes (ISBA), 20-25 August 2009, Shanghai, PR China.
- 40. Lawapakull, P., K. Sirichai, S. Phednin, W. Komejai, U. Anukool and **W. Pathom-aree**. 2009. Isolation and identification of antimicrobial producing actinomeetes from cave soils. The 21st Annual Meeting and International Conference of Thai Society for Biotechnology, 24-25 September 2009, Bangkok, Thailand.
- 41. Suriyarungsie, J., **W. Pathom-aree** and A. Plikomol. 2009. Production of antibiotics by soil bacteria cultivated in soybean curd whey. The 21st Annual Meeting and International Conference of Thai Society for Biotechnology, 24-25 September 2009, Bangkok, Thailand.
- 42. Onnoom, K., **W. Pathom-aree**, K. Lomthaisong and H. Niamsup. 2009. Salt tolerant ability of bacteria *Dermacoccus abyssi* isolated from Mariana Trench. The 21st Annual Meeting and International Conference of Thai Society for Biotechnology, 24-25 September 2009, Bangkok, Thailand.
- 43. Yoosathaporn, S. and **W. Pathom-aree**. 2009. Isolation and screening of aerobic bacteria for organic waste pre-treatment in biogas production. The 35th Congress on Science and Technology of Thailand. 15-17 October 2009, Chonburi, Thailand.
- 44. Lumyong, S., N. Nakaew and **W. Pathom-aree**. 2009. Bioactive compound from *Spirillospora albida* CMU-PNK470 new isolate from Thai cave soil. The International Congress: Microbial Biotechnology for Development (Microbiod 1), 3-5 November 2009, Marrakech, Morocco.
- 45. Lawapakull, P., K. Sirichai and **W. Pathom-aree**. 2010. Isolation of *Streptomyces* from cave and their antimicrobial activity. The 48th Kasetsart University Annual Conference 3-6 February 2010, Bangkok.
- 46. Chaiwong, S., **W. Pathom-aree** and A. Plikomol. 2010. Enhancement of Bioethanol Production from Soybean Curd Whey. International Conference for a Sustainable Greater Mekong Subregion (GMSTEC 2010). 26-27 August 2010, Bangkok, Thailand.

- 47. Lawapakull, P., K. Sirichai and **W. Pathom-aree**. 2010. Isolation and screening of actinomycetes from cave soil and their anti-MRSA activity The 36th Congress on Science and Technology of Thailand. 26-28 October 2010, Bangkok, Thailand.
- 48. Sanpa, S., S. Tasurin, Y. Matsumiya, M. Kubo, S. Yano, M. Wakayama, T. Tachiki, N. Rattanakit-Chandet, **W. Pathom-aree** and A. Plikomol. 2010. Diversity and abundance of free-living N_2 -fixing bacteria and total bacterial biomass under different soil condition. The 2^{nd} Asian Core Program Joint Seminar on Capacity Building and Development of Microbial Potential and Fermentation Technology Towards New Era. 20-21 November 2010, Khon Kaen, Thailand.
- 49. Chandet, N., S. Yano, A. Plikomol, **W. Pathom-aree**, S. Sanpa, Y. Matsumiya, M. Kubo and T. Tachiki. 2010. Utilization of canned sweet corn industrial wastes for lactic acid production. The 2nd Asian Core Program Joint Seminar on Capacity Building and Development of Microbial Potential and Fermentation Technology Towards New Era. 20-21 November 2010, Khon Kaen, Thailand.
- 50. Suriyarungsie, J., N. Chandet, S. Sanpa, **W. Pathom-aree**, S. Yano, Y. Matsumiya, M. Wakayama, M. Kubo, T. Tachiki and A. Plikomol. 2010. Antibacterial activity by *Enterobacter aerogenes* JTR3 cultivated in soybean curd whey. The 2nd Asian Core Program Joint Seminar on Capacity Building and Development of Microbial Potential and Fermentation Technology Towards New Era. 20-21 November 2010, Khon Kaen, Thailand.
- 51. Konkit, M., A. Jarerat, N. Chandet, S. Sanpa, S. Yano, Y. Matsumiya, M. Wakayama, M. Kubo, T. Tachiki, A. Plikomol and **W. Pathom-aree**. 2010. Screening of polylactide degrading actinomycetes. The 2nd Asian Core Program Joint Seminar on Capacity Building and Development of Microbial Potential and Fermentation Technology Towards New Era. 20-21 November 2010, Khon Kaen, Thailand.
- 52. Matsumiya, Y., S. Sanpa, S. Yano, N. Rattanakit-Chandet, **W. Pathom-aree**, T. Matsuno, H.Tuda, K. Kubota, A. Plikomol, T. Tachiki, M. Wakayama and M. Kubo. 2010. Evaluation of nitrogen circulation activityin soil for an organic agricultural system. The 2nd Asian Core Program Joint Seminar on Capacity Building and Development of Microbial Potential and Fermentation Technology Towards New Era. 20-21 November 2010, Khon Kaen, Thailand.
- 53. Konkit, M., A. Jarerat, C. Khanongnuch, S. Lumyong and W. Pathom-aree. 2011. Biodegradation of polylactide by selected *Pseudonocardia* spp. Inaugural Meeting of Bergey's International Society for Microbial Systematics (BISMiS), 19-23 May, 2011, Beijing, China.
- 54. Khongratanapaisarn, C., N. Rattanakit-chandet, S. Sanpa, **W. Pathom-aree**, S. Yano, Y. Matsumiya, M. Wakayama, M. Kubo, T. Tachiki and A. Plikomol. 2011. Solid-state cultivation of *Monascus purpurescens* NK1 for the pigment production using crispy rice residue as a substrate. The 4th International Conference on Fermentation Technology for Value Added Agricultural Products. 29-31 August 2011, Khon Kaen, Thailand.

- 55. **Pathom-aree, W.**, K. Duangmal, Y. Inahashi, A. Matsumoto, Y. Takahashi, S. Lumyong and M. Goodfellow. 2011. Cultivable actinomycete diversity in coastal marine sediments of Thailand. The 13th Congress of Bacteriology and Applied Microbiology 6-11 September, Hokkaido, Japan.
- 56. Noisuwan, P., G. Takata, C. Khanongnuch, W. Pathom-aree and S. Lumyong. 2011. Production and degradation of nigeran. The 13th Congress of Bacteriology and Applied Microbiology 6-11 September, Hokkaido, Japan.
- 57. Ruttanasutja, P., S. Bovonsombut, K. Hong and W. Pathom-aree. 2011. Actinomycetes diversity from Thai coastal marine sediment by culture independent study. The 13th Congress of Bacteriology and Applied Microbiology 6-11 September, Hokkaido, Japan.
- 58. Inthasotti, T. and W. Pathom-aree. 2011. Diversity of actinomycetes associated with *Nostoc commune* Voucher ex Bornet&Flahault from north-eastern Thailand. The 13th Congress of Bacteriology and Applied Microbiology 6-11 September, Hokkaido, Japan.
- 59. Singka, D., S. Bovonsombut, P. Pholchan and **W. Pathom-aree**. 2011. Archaeal population structure in anaerobic co-digestion system of mixed waste in lab-scale bioreactor. The 13th Congress of Bacteriology and Applied Microbiology 6-11 September, Hokkaido, Japan.
- 60. Suwansath, S. and **W. Pathom-aree.** 2011. Microbial air quality in Faculty of Science's library, Chiang Mai University. The 37th Congress on Science and Technology of Thailand. 10-12 October 2011, Bangkok, Thailand.
- 61. Konkit, M., A. Jarerat, C. Khanongnuch, S. Lumyong and **W. Pathom-aree.** 2012. Isolation and characterization of poly (L-Lactide) degrading actinomycetes. The 1st International Student Conference "Innovations for Harmonious Living in Borderless Society", 23-25 January 2012, Khon Kaen University, Thailand.
- 62. Srisamai, S. and **W. Pathom-aree**. 2012. Isolation and screening of actinomycetes for probiotic bacteria development in fish. The 1st International Student Conference "Innovations for Harmonious Living in Borderless Society", 23-25 January 2012, Khon Kaen University, Thailand. (2nd Prize Poster Presentation Award)
- 63. Kanpiengjai, A., **W. Pathom-aree**, S. Lumyong and C. Khanongnuch. 2012. Feasibility on direct lactic acid fermentation from starchy wastewater by *Lactobacillus* sp. S21. Proceeding of International Conference on Food and Applied Bioscience, 6-7 February 2012, Chiang Mai University, Thailand.
- 64. Srivibool, R., K. Duangmal, K. Hong and **W. Pathom-aree.** 2012. Isolation of actinomycetes from marine and estuary sediments for antimicrobial metabolites. Burapha University International Conference 2012, 9-11 July 2012, Burapha University, Thailand.
- 65. Kamjam, M. and **W. Pathom-aree.** 2012. Isolation and screening of antimicrobial and siderophore producing actinomycetes from Thai mangrove sediments. International Conference

- on Microbial Taxonomy Basic and Applied Microbiology, 4-6 October 2012, Khon Kaen, Thailand.
- 66. Suksawat, S., A. Jarerat, C. Khanongnuch, S. Lumyong and **W. Pathom-aree.** 2012. Degradation of microwave heated polylactide bioplastic by actinomycetes. International Conference on Microbial Taxonomy Basic and Applied Microbiology, 4-6 October 2012, Khon Kaen, Thailand.
- 67. Siangwan, W., Srithiowat, N., Deemoon, S. and **W. Pathom-aree.** 2012. Biological examination of holy water from temples in Chiang Mai. The 38th Congress on Science and Technology of Thailand. 17-19 October 2012, Chiang Mai, Thailand.
- 68. **Pathom-aree, W.,** M. Konkit, A. Jarerat, N. Chandet, S. Sanpa, S. Yano, Y. Matsumiya, M. Wakayama, M. Kubo, T. Tachiki and A. Plikomol. 2012. Polylactide degradation by actinomycetes. The 3rd Asian Core Program Joint Seminar on Capacity Building and Development of Microbial Potential and Fermentation Technology Towards New Era. 18-21 November 2012, Shimonoseki, Japan.
- 69. Sanpa, S., T. Sirinart, Y. Matsumiya, M. Kubo, S. Yano, M. Wakayama, T. Tachiki, N. Chandet, **W. Pathom-aree** and A. Plikomol. 2012. Diversity and abundance of free-living nitrogen fixing bacteria isolated from various soil. The 3rd Asian Core Program Joint Seminar on Capacity Building and Development of Microbial Potential and Fermentation Technology Towards New Era. 18-21 November 2012, Shimonoseki, Japan.
- 70. Suksawat, S., M. Konkit, A. Jarerat, C. Khanongnuch, S. Lumyong and **W. Pathom-aree.** 2013. Degradation of used polylactide bioplastic by actinomycetes. InnoBioPlast 2013: Advances in Bioplastics Industry and Opportunities in Asia. 24-26 January 2013, Bangkok, Thailand.
- 71. Penkhrue, W., **W. Pathom-aree**, C. Khanongnuch and S. Lumyong. 2013. Screening of poly(L-lactic acid) degrading microorganisms from soil samples. InnoBioPlast 2013: Advances in Bioplastics Industry and Opportunities in Asia. 24-26 January 2013, Bangkok, Thailand.
- 72. Suksawat, S., A. Jarerat, C. Khanongnuch, S. Lumyong and **W. Pathom-aree.** 2013. Effect of hot water on degradation of polylactide bioplastic by actinomycetes. The 5th Science Research Conference. 4-5 March 2013, University of Phayao, Phayao, Thailand.
- 73. Kamjam, M. and **W. Pathom-aree.** 2013. Isolation and screening of actinomycetes capable of siderophore production from some Thai mangrove sediments. The 5th Science Research Conference. 4-5 March 2013, University of Phayao, Phayao, Thailand.
- 74. Nuantum, W., T. Kongsri and **W. Pathom-aree.** 2013. Degradation of hot water treated polylactide bioplastic by mixed actinomycetes. The 5th Science Research Conference. 4-5 March 2013, University of Phayao, Phayao, Thailand.
- 75. Yoosathaporn, S., P. Tiangburanatham and W. Pathom-aree. 2013. Application of biocalcification on inter-locking block strength improvement. International Conference on

Interdisciplinary Research and Development in ASEAN Universities. 8-10 August 2013, Chiang Mai, Thailand.

76. Sujarit, K. and **W. Pathom-aree.** 2013. Degradation of polylactide bioplastic by *Pseudonocardia alni* AS4.1531^T. The 39th Congress on Science and Technology of Thailand. 21-23 October 2013, Bangkok, Thailand.

77. **Pathom-aree, W.,** S. Keawsa and S. Tokuyama. 2014. Isolation and screening of plant growth promoting actinomycetes for green agriculture. The 1st Joint Seminar New Core to Core Program A. Advanced Research Networks on Establishment of an International Research Core for New Bio-Research Fields with Microbes from Tropical Areas (World-Class Research Hub of Tropical Microbial Resources and Their Utilization). 10-11 August 2014, Bangkok, Thailand. 78. Suyota, W., M. Wakayama, S. Yano, M. Kubo, K. Araki, M. Umekawa, M. Mukai, A. Dinesh, S. Bovonsombat, **W. Pathom-aree**, S. Sanpa, N. Chandet, Ir. Sukoso, S. Djati, A. Sartimbul and A. Kurniawan. 2014. Characterization of α-1,3-glucanase isozyme from *Paenibacillus glycanilyticus* FH11, first characterized enzyme in new subgroup of family 87 α-1,3 glucanase. The 1st Joint Seminar New Core to Core Program A. Advanced Research Networks on Establishment of an International Research Core for New Bio-Research Fields with Microbes from Tropical Areas (World-Class Research Hub of Tropical Microbial Resources and Their Utilization). 10-11 August 2014, Bangkok, Thailand.

79. Adhikari, D., K.S. Araki, A. Umekawa, N. Yano, M. Mukai, W. Suyotha, S. Bovonsombat, W. Pathom-aree, S. Sanpa, N. Chandet, Ir. Sukoso, S. Djati, A. Sartimbul, A. Kurniawan, M. Wakayama and M. Kubo. 2014. Comparison of soil fertility between paddy and upland soils, and the suitable conditions for microbial activities. The 1st Joint Seminar New Core to Core Program A. Advanced Research Networks on Establishment of an International Research Core for New Bio-Research Fields with Microbes from Tropical Areas (World-Class Research Hub of Tropical Microbial Resources and Their Utilization). 10-11 August 2014, Bangkok, Thailand. 80. Wakayama, M., S. Yano, W. Suyotha, M. Kubo, K. Araki, M. Umekawa, M. Mukai, A. Dinesh, S. Bovonsombat, W. Pathom-aree, S. Sanpa, N. Chandet, Ir. Sukoso, S. Djati, A. Sartimbul and A. Kurniawan. 2014. Exploration of microbial resources useful for controlling plant pathogen. The 1st Joint Seminar New Core to Core Program A. Advanced Research Networks on Establishment of an International Research Core for New Bio-Research Fields with Microbes from Tropical Areas (World-Class Research Hub of Tropical Microbial Resources and Their Utilization). 10-11 August 2014, Bangkok, Thailand.

81. Kubo, M., K.S. Araki, A. Umekawa, N. Yano, M. Mukai, D. Adhikari, W. Suyotha, S. Bovonsombat, **W. Pathom-aree**, S. Sanpa, N. Chandet, Ir. Sukoso, S. Djati, A. Sartimbul, A. Kurniawan and M. Wakayama. 2014. A new organic agricultural system based on soil fertile index (SOFIX). The 1st Joint Seminar New Core to Core Program A. Advanced Research Networks on Establishment of an International Research Core for New Bio-Research Fields

- with Microbes from Tropical Areas (World-Class Research Hub of Tropical Microbial Resources and Their Utilization). 10-11 August 2014, Bangkok, Thailand.
- 82. Kreawsa, S. and **W. Pathom- aree**. 2015. Screening of phosphate solubilizing and siderophores producing actinomycetes from rice rhizosphere soil. The 34th National Graduate Research Conference. 27 March 2015, Khon Kaen, Thailand.
- 83. Lasudee, K. and **W. Pathom- aree**. 2015. Cultivable actinomycetes associated with *Glomus mosseae* spores and their plant growth promoting activity. The 6th FEMS Microbiology Congress, 7-11 June 2015, Maastricht, The Netherlands.
- 84. Suksaard, P., R. Srivibool, K. Duangmal and **W. Pathom- aree**. 2015. Taxonomic diversity of actinomycetes from Thai mangrove sediments. The 6th FEMS Microbiology Congress, 7-11 June 2015, Maastricht, The Netherlands.
- 85. Kaweewan, I. and **W. Pathom- aree**. 2015. Screening of siderophore biosynthesis genes from siderophore producing actinomycetes. The 6th FEMS Microbiology Congress, 7-11 June 2015, Maastricht, The Netherlands.
- 86. Himaman, W., K. Duangmal, A. Thamchaipenet, K. Pongpanich and **W. Pathom- aree**. 2015. Actinomycetes from Eucalyptus and their activity to inhibit Eucalyptus leaf and shoot blight disease. The 6th FEMS Microbiology Congress, 7-11 June 2015, Maastricht, The Netherlands.
- 87. Moonsawat K. and **W. Pathom-aree.** 2015. Degradation of polylactic acid bioplastic by actinomycete under soil burial condition. The 36th National Graduate Research Conference. 29-30 October 2015, Chiang Mai Thailand.
- 88. Naotsuka Y., K. Ishigami, **W. Pathom-aree**, V. Kitpreechavanich and S. Tokuyama. 2016. Screening for actinomycetes to control tomato root-knot nematode. The 2nd Joint Seminar Core to Core Program A. Advanced Research Networks on Establishment of an International Research Core for New Bio-Research Fields with Microbes from Tropical Areas (World-Class Research Hub of Tropical Microbial Resources and Their Utilization). 14-15 November 2016, Chonburi Thailand.
- 89. Kubo M., K. Araki, S. Yano, D. Adhikari, W. Suyotha, S. Bovonsombut, Y. Tragoolpua, **W. Pathom-aree**, S. Sanpa, N. Chandet, Ir.Sukoso, S.Djati, A. Sartimbul, A. Kurniawan, A.A. Prihanto and M. Wakayama. 2016. Stimulation of soil microorganisms in agrochemical-contaminated soil using organic materials. The 2nd Joint Seminar Core to Core Program A. Advanced Research Networks on Establishment of an International Research Core for New Bio-Research Fields with Microbes from Tropical Areas (World-Class Research Hub of Tropical Microbial Resources and Their Utilization). 14-15 November 2016, Chonburi Thailand.

Invited Speakers:

I've been invited to give presentations at numbers of Thai universities including Chulalongkorn University, Chiang Mai University, Maejo University, Chiang Mai Rajabhat University, Rajamangala University of Technology Thanyaburi, Nakhon Sawan Rajabhat University and Phayao University on topics relating to journal publication, manuscript preparation and how to run a scientific journal. I was also an invited speaker for seminar organized by Thomson Reuters and Thai Citation Index (TCI).

Speaker Events:

- 1. เรื่อง "ความสมบูรณ์ของบทความวิจัยทางวิทยาศาสตร์เพื่อการตีพิมพ์" โครงการส่งเสริมการเขียนบทความวิจัย สำหรับเยาวชนด้านวิทยาศาสตร์และเทคโนโลยี โดยชมรมนักเขียนและผู้จัดทำหนังสือวิทยาศาสตร์ (นจวท.) สมาคม วิทยาศาสตร์แห่งประเทศไทยในพระบรมราชูปถัมภ์ ศูนย์ประชุมนานาชาติไบเทค 4 พฤษภาคม 2555
- 2. เรื่อง "เขียนอย่างไรไม่ให้โดนรีเจ็คต์" มหาวิทยาลัยเทคโนโลยีราชมงคลธัญบุรี 5 พฤษภาคม 2555
- 3. เรื่อง "เทคนิคการเขียนงานวิจัยทางวิทยาศาสตร์เพื่อการตีพิมพ์" โครงการพัฒนาคุณภาพนักศึกษา 2556 สาขาวิชา วิทยาศาสตร์สิ่งแวดล้อม คณะวิทยาศาสตร์ มหาวิทยาลัยเชียงใหม่ 24 สิงหาคม 2556
- 4. ผู้บรรยายรับเชิญ Topic "Overcoming Publishing Challenges: Yesterday, Today and Tomorrow" in Seminar on How To Publish Effectively With More Impact organized by Thomson Reuters at Faculty of Commerce and Accountancy, Chulalongkorn University, 30 September 2013
- 5. เรื่อง "เทคนิคการเขียนงานวิจัยทางวิทยาศาสตร์เพื่อการตีพิมพ์" โครงการอบรมเชิงปฏิบัติการ "เทคนิคการเขียน บทความทางวิชาการเพื่อเผยแพร่ในระดับนานาชาติ" สาขาเทคโนโลยีสิ่งแวดล้อม คณะวิทยาศาสตร์ มหาวิทยาลัย แม่โจ้ 16 พฤศจิกายน 2556
- 6. เรื่อง "การเขียนบทความวิจัยเพื่อเผยพร่ในระดับชาติและนานาชาติ" โครงการอบรม "การเขียนรายงานวิจัยและ บทความวิชาการเพื่อเผยแพร่ในระดับชาติและนานาชาติ" มหาวิทยาลัยราชภัฏเชียงใหม่ 6 มิถุนายน 2557
- รื่อง "เหตุผลที่บทความโดนรีเจ็ค" โครงการสัมมนา "เขียนตำราอย่างไร....ให้โดน" มหาวิทยาลัยเชียงใหม่ 8 กรกฎาคม 2557
- 8. เรื่อง "เทคนิคการเขียนบทความวิจัยเพื่อตีพิมพ์ในวารสารระดับนานาชาติ" โครงการ "ที่ปรึกษานักวิจัยในการเขียน บทความวิจัยเพื่อตีพิมพ์ในวารสารระดับนานาชาติ (คลินิกวิจัย)" มหาวิทยาลัยเทคโนโลยีราชมงคลธัญบุรี 4-6 สิงหาคม 2557
- 9. เรื่อง "การเตรียมต้นฉบับบทความวิจัยสำหรับตีพิมพ์ในวารสารวิชาการ" โครงการ "การพัฒนาศักยภาพนักวิจัยสู่ นักวิจัยมืออาชีพ" มหาวิทยาลัยราชภัฎนครสวรรค์ 16 ธันวาคม 2557
- 10. เรื่อง "ความสำคัญและความหมายของบทความวิชาการ" โครงการอบรม "เทคนิคการเขียนบทความทางวิชาการ เพื่อเผยแพร่ในระดับนานาชาติ" หลักสูตรวิทยาศาสตรมหาบัณฑิต สาขาวิชาเทคโนโลยีสิ่งแวดล้อม คณะวิทยาศาสตร์ มหาวิทยาลัยแม่โจ้ 7 กุมภาพันธ์ 2558
- 11. เรื่อง "การเขียนบทความวิจัยเพื่อเผยแพร่ในระดับชาติและนานาชาติ" หลักสูตรวิทยาศาสตรมหาบัณฑิต สาขาวิชาเทคโนโลยีชีวภาพ คณะเกษตรศาสตร์และทรัพยากรธรรมชาติ มหาวิทยาลัยพะเยา 21 เมษายน 2558
- 12. เรื่อง "เทคนิคการเขียนงานวิจัยทางวิทยาศาสตร์เพื่อการตีพิมพ์" หลักสูตรวิทยาศาสตรบัณฑิต สาขาวิชา เทคโนโลยีชีวภาพ คณะเกษตรศาสตร์และทรัพยากรธรรมชาติ มหาวิทยาลัยพะเยา 27 เมษายน 2558

- 13. เรื่อง "Voices from Editors-Way ahead for Thai Journals" การประชุมเพื่อสร้างเครือข่ายการพัฒนา คุณภาพวารสารวิชาการไทย ครั้งที่ 9 โรงแรมวินเซอร์ สวีท กรุงเทพฯ 11 กันยายน 2558
- 14. เรื่อง "การตีพิมพ์และแหล่งเผยแพร่บทความวิจัยทางวิทยาศาสตร์" นักศึกษาปริญญาโทหลักสูตรการสอนชีววิทยา ภาควิชาชีววิทยา คณะวิทยาศาสตร์ มหาวิทยาลัยเชียงใหม่ 20 กันยายน 2558
- 15. เรื่อง "เล่าสู่กันฟังจากมุมมองของบรรณาธิการวารสาร Chiang Mai Journal of Science" คณะวิทยาศาสตร์ มหาวิทยาลัยเชียงใหม่ 9 ธันวาคม 2558
- 16. เรื่อง "ความสำคัญและความหมายของบทความวิชาการและประเภทและโครงสร้างการเขียนบทความวิจัย"
 โครงการฝึกอบรมเทคนิคการเขียนบทความทางวิชาการเพื่อเผยแพร่ในระดับนานาชาติ
 หลักสูตรวิทยาศาสตร
 มหาบัณฑิต สาขาวิชาเทคโนโลยีสิ่งแวดล้อม คณะวิทยาศาสตร์ มหาวิทยาลัยแม่โจ้ 7 เมษายน2559
- 17. เรื่อง "เทคนิคการเขียนบทความวิชาการและวิจัย และข้อเสนอแนะในการเขียนบทความวิชาการและวิจัย"
 โครงการฝึกอบรมเทคนิคการเขียนบทความทางวิชาการเพื่อเผยแพร่ในระดับนานาชาติ หลักสูตรวิทยาศาสตร มหาบัณฑิต สาขาวิชาเทคโนโลยีสิ่งแวดล้อม คณะวิทยาศาสตร์ มหาวิทยาลัยแม่โจ้ 7 เมษายน2559
- 18. คณะสัตวแพทย์ มหาวิทยาลัยเชียงใหม่ 25 พฤษภาคม 2559
- 19. มหาวิทยาลัยราชภัฏเชียงใหม่ 14 กรกฎาคม 2559
- 20. ภาควิชาชีววิทยา คณะวิทยาศาสตร์ มหาวิทยาลัยเชียงใหม่ 23 กรกฎาคม 2559
- 21. มหาวิทยาลัยมหาจุฬาลงกรณราชวิทยาลัย 1 สิงหาคม 2559
- 22. Kantary Hill 9-10 มกราคม 2560

Trainings and Workshops

- June 1999 Cybertools for Research (with certificate) organized by Thailand Graduate
 Institute of Science and Technology (TGIST) and National Science and
 Technology Development Agency (NSTDA)
- September 1999Food Safety: Pathogen Detection and Identification (with certificate) organized by Chulalongkorn University and Institute of Food, Nutrition and Human Health, Massey University
- October 1999 Hypercourse on Bioinformatics (with certificate) organized by Thailand Graduate Institute of Science and Technology (TGIST) and National Science and Technology Development Agency (NSTDA)
- November 1999 The Use of Molecular and Chemical Techniques in Microbial Diversity and Environmental Biotechnology organized by Mahidol University and Society for General Microbiology (UK)
- January 2000 Writing Scientific Research Articles organized by Chiang Mai University and Thailand-Australia Science and Engineering Assistance Project (TASEAP)
- January 2000 Advanced Health Risk Assessment organized by Chiang Mai University
- February 2000 Introductory and Advanced courses in DNA Sequencing organized by
 Silpakorn University Thailand-Australia Science and Engineering Assistance
 Project (TASEAP)

September 2000Biodiversity in Thailand organized by Thailand Graduate Institute of

Science and Technology (TGIST) and National Science and Technology Development Agency (NSTDA)

September 2001 Scientific Writing Workshop organized by University of Newcastle upon Tyne

September 2002 Nucleic Acid Purification

September 2002Introduction to DNA Microarrays Technology

October 2002 Effective Presentations by University organized of Northumbria

March 2003 Effective Presentation of Information Using Excel organized by University of Northumbria

November 2005 Balance Score Card

January 2006 Unculturable Microbes: Molecular Techniques and Biotechnology Application

January 2006 Hazard Analysis and Critical Control Point

February 2006 Knowledge Management

July 2006 GMP

November 2007 Workshop on Chemistry, Biological Activities and Biodiversity of Marine Organisms

December 2007 HACCP

May 2008	Gene Discovery of Uncultured Microbes Using Metagenomic Approach		
May 2008	Biotechnology Business and Regulations		
June 2008	Microbes in caves and alkali ponds and intellectual property right and		
	Management		
July 2008	Writing Scientific Articles for Publication		
June 2009	เทคนิคการเขียนผลงานวิจัยเพื่อตีพิมพ์ในวารสารระคับนานาชาติ		
April 2012	เทคนิคการเรียนรู้แบบผสมผสาน (Blended Learning)		
November 201	Workshop: Effective Science Communication organized by		
	EURAXESS Links ASEAN and NSTDA		

Postgraduate Students

MSc students = 5

- 1. Plant growth promoting actinobacteria for biocontrol of Fusarium moniliforme
- 2. Plant growth promoting actinobacteria for drought tolerance in rice
- 3. Biodegradation of PLA bioplastic by actinomycetes under field trial condition
- 4. Bioremediation of heavy metals by mycorrhiza and mycorrhiza associated actinobacteria
- 5. Application of plant growth promoting actinobacteria for phytoremediation of heavy metals

PhD students = 0