

CURRICULUM VITAE

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Institutional Affiliation : Department of Biochemistry,
Faculty of Medicine,
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Education : M.Ed. (Biology) 2001
Srinakharinwirot University, Bangkok

Position Held :

1991-2008	Scientist, Professional Level
2008-present	Scientist, Senior Professional Level

Awards:

1	2009	The outstanding non-academic personnel award of Faculty of Medicine, Srinakharinwirot University (16 June 2009)
2	2010	The outstanding non-academic personnel award of Faculty Senate and Official Of SWU (22 July 2010)
3	2010	The outstanding award of Thai Civil Servant in the year of 2009 (1 April 2010)
4	2013	Innovation and Invention Award (Gold Medal) for “PRRSV DNAsensor kit” from 2013 INST: The 9th Taipei International Invention Show & Technomart, Sept 26-29, 2013 Taipei, Taiwan
5	2013	Special Prize for “PRRSV DNAsensor test kit” World Invention Intellectual Property Associations (WIIPA), 2013 INST: The 9th Taipei International Invention Show & Technomart, Sept 26-29, 2013, Taipei, Taiwan

6	2013	Innovation and Invention Award (Bronze Medal) for “Trypanosome Gold-nano DNAsensor Kit” Seoul International Invention Fair (SIIF) 2013, Nov 29-Dec 2, Seoul Korea
7	2014	Innovation and Invention Award (Silver medal) “PRRSV Gold-nano DNAsensor Kit” 42 nd International Exhibition of Inventions of Geneva, Geneva, Swiss Confederation, Apr 2-6, 2014,
8	2014	Innovation and Invention Award (Silver medal) for “Trypanosome-DNAsensor kit I” 4th Islamic Azad university inventions festival (4IFI)” Shiraz city, I.R.IRAN. Apr 22-24, 2014
9	2014	Innovation and Invention Award (Gold medal) for “DHF DNAsensor kit for detection of Dengue fever virus” The 8th International Exhibition of Inventions, Kunshan" (IEIK 2014), PR.China Nov 19-22, 2014
10	2014	Leading Innovation Award for “DHF DNAsensor kit for detection of Dengue fever virus” International Intellectual Property Network Forum (IIPNF), The 8th International Exhibition of Inventions, Kunshan" (IEIK 2014), PR.China Nov 19-22, 2014
11	2015	Innovation and Invention Award (AFJ Gold medal) for “Colorimetric DENV DNAsensor kit” 43 rd International Exhibition of Inventions of Geneva” Geneva, Swiss Confederation, April 15-19, 2015
12	2015	Innovation and Invention Award (Bronze medal) for “ Touchable 3D-DNA model” 43 rd International Exhibition of Inventions of Geneva” Geneva, Swiss Confederation, April 15-19, 2015

Presentations:

1. **Arda Pakpitcharoen**, Punsin Ketudat, Pisarn Khawsak and Kosum Chansiri. Molecular phylogenetic studies of lung flukes using internal transcribed spacer 2 sequences. 26th Congress on Science and Technology of Thailand, Queen Sirikit National Convention Center, Bangkok, Thailand, 18-20 October 2000, p.446.
2. **Arda Pakpitcharoen**, Paisarn Khawsak, Achariya Rangsiruji, Punsin Ketudat and Kosum Chansiri. Molecular study of *Paragonimus heterotremus* based on 18S small

subunit of nuclear rDNA. 27th Congress on Science and Technology of Thailand, Lee Gardens Plaza Hotel, Hatyai, Songkhla, Thailand, 16-18 October 2001, p. 435.

3. **Arda Pakpitcharoen**, Achariya Rangsiruji, Punsin Ketudat, Paisarn Khawsak, Pornpimon Kanjanavas, Sintawee Khuchareontaworn and Kosum Chansiri. Molecular phylogenetic studies of *Paragonimus heterotremus* using the internal transcribed spacer region of nuclear rDNA. 13th Congress on Genetics and sustainable Development, Genetics Association of Thailand, Naresuan University Pitsanulok, Thailand, 5-7 June 2003, p. 308-12.

4. Paisarn Khawsak, **Arda Pakpitcharoen**, Pornpimon Kanjanavas, Sintawee Khuchareontaworn, Sirichai Phantana and Kosum Chansiri. RT-PCR and a single tube multiplex nested PCR for differentiation of dengue virus serotypes. 13th Congress on Genetics and sustainable Development, Genetics Association of Thailand, Naresuan University Pitsanulok, Thailand, 5-7 June 2003, p. 342-45.

5. Pornpimon Kanjanavas, **Arda Pakpitcharoen**, Paisarn Khawsak, Peerapan Tan-ariya and Kosum Chansiri. Detection of *Wuchereria bancrofti* in patients' blood samples using semi-nested PCR. 29th Congress on Science and Technology of Thailand, Khon Kean University, 20-22 October 2003, SG-46P, p 243.

6. **Arda Pakpitcharoen**, Paisarn Khawsak, Pornpimon Kanjanavas, Sintawee Khuchareontaworn, Somchai Santiwatanakul, Kosum Chansiri and Wasana Sukhumsirichart. Differentiation of Mycobacterium strains using RAPD-PCR techniques. 29th Congress on Science and Technology of Thailand, Khon Kean University, 20-22 October 2003, SG-47P, p 243.

7. Paisarn Khawsak, **Arda Pakpitcharoen**, Pornpimon Kanjanavas, Sintawee Khuchareontaworn, Sirichai Phantana, and Kosum Chansiri. RT-PCR and single-tube multiplex nested PCR for differentiation of Dengue virus serotypes. 29th Congress on Science and Technology of Thailand, Khon Kean University, 20-22 October 2003, SG-48P, p 243.

8. Kosum Chansiri, Kanokrat Namsrinuan, Karuna Manoban, Pornpimon Kanjanavas, **Arda Pakpitcharoen**, Somchai Santiwatanakul, Kenji Mutsui, Tadahiko Kajiwara, and Khajeenat Photiwetkul. Cloning, Sequencing, Expression and Characterization of a Noval Extracellular Lipase from Thermotolerant *Bacillus* sp. RN2. The 4th JSPS-NRCT

- Joint Seminar on Delopment of thermotolerant Microbial Resources and their Application. 7-10 November 2004. Kyushu University, Fukuoka, Japan. P68a, p103.
9. Pornpimon Kanjanavas, Karuna Manoban, **Arda Pakpitcharoen**, Khajeenat Photiwetkul, Kenji Mutsui, Tadahiko Kajiwara and Kosum Chansiri. Cloning and Sequencing of a Novel Extracellular β -mannanase from thermotolerant *Bacillus* sp. Isolate THCM3.1. The 4th JSPS-NRCT Joint Seminar on Delopment of thermotolerant Microbial Resources and their Application. 7-10 November 2004. Kyushu University, Fukuoka, Japan. P76a, p109.
10. Montri Yasawong, **Arda Pakpitcharoen**, Somchai Santiwatanakul, Pornpimon Kanjanavas and Kosum Chansiri. Genetic diversity of Multidrug-resistance *Mycobacterium tuberculosis* based on nucleotide sequences of hypervariable region of 16S rDNA. The 17th FAOBMB Symposium / 2nd IUmbb Special Meeting / 7th A-IMBN Conference on "Genomics and Health in the 21st Century" 22-26 November 2004, Bangkok, Thailand, p.120.
11. Pornpimon Kanjanavas, Karuna Manoban, **Arda Pakpitcharoen**, Khajeenat Photiwetkul, Kenji Mutsui, Tadahiko Kajiwara, and Kosum Chansiri. Cloning and sequencing of a novel extracellular β -mannanase from thermotolerant *Bacillus* sp. THCM3. The 17th FAOBMB Symposium / 2nd IUmbb Special Meeting / 7th A-IMBN Conference on "Genomics and Health in the 21st Century" 22-26 November 2004, Bangkok, Thailand, p.220.
12. **Arda Pakpitcharoen**, Karuna Manoban, Montri Yasawong, Pisarn Khawsak, Pornpimon Kanjanavas and Kosum Chansiri. Studies of a bacterial diversity in the hot spring of Thailand based on hypervariable region of 16S rDNA gene. The 17th FAOBMB Symposium / 2nd IUmbb Special Meeting / 7th A-IMBN Conference on "Genomics and Health in the 21st Century" 22-26 November 2004, Bangkok, Thailand, p.233.
13. Pornpimon Kanjanavas, Karuna Manoban, **Arda Pakpitcharoen**, Khajeenat Photiwetkul, Kenji Mutsui, Tadahiko Kajiwara, and Kosum Chansiri. Cloning and expression of the gene encoding for bata-mannanase from thermotolerant *Bacillus* sp. THCM3.1. 6th RGJ-Ph.D. Congress VI. April 23-30, 2005. Chomtien Palm Beach Resort, Pattaya, Chonburi. S3-P52, page 275.

14. Piyapa Kiatsomchai, Pornpimon Kanjanavas, Sintawee Khuchareontaworn, **Arda Pakpitcharoen**, Phaisarn Khawsak, Kosum Chansiri. Cloning and Characterization of the Gene encoding for Copper/zinc Superoxide Dismutase from Lymphatic filaria. 20th IUBMB International Congress of Biochemistry and Molecular Biology and 11th FAOBMB Congress, June 18-23, 2006, Kyoto, Japan, p.204.
15. **Arda Pakpitcharoen**, Montri Yasawong, Phirom Singhaphan, Paisarn Khawsak, Pornpimon Kanjanavas, Sunsanee Phasook and Kosum Chansiri. Biodiversity studies of thermotolerant *Bacillus* spp. In the hot spring resources from the south of Thailand based on hypervariable region of 16S rDNA. 32nd Congress on Science and Technology of Thailand (STT.32), Queen Sirikit National Convention Center, 10-12 October 2006, B2-B0078, p 101.
16. Pornpimon Kanjanavas, Sintawee Khuchareontaworn, Phaisarn Khawsak, **Arda Pakpitcharoen**, Khajeenat Photiwetkul, Somchai Santiwatanakul, Kenji Mutsui, Tadahiko Kajiwara, and Kosum Chansiri. Organic solvent and detergent tolerant properties of thermotolerant *Bacillus* sp. RN2 lipase. The 5th JSPS-NRCT Joint Seminar on Development of Thermotolerant Microbial Resources and their Application. 7-10 November 2006. Aisawan Resort & Spa, Pattaya, Thailand. P-2.32, p95.
17. Supatra Areekit, **Arda Pakpitcharoen**, Sunsanee Phasook, Sintawee Khuchareontaworn, Phaisarn Khawsak, and Kosum Chansiri. Identification of genetic diversity within *Brugia* species in feline based on internal transcribed spacer regions. 8th International Meeting on Molecular Epidemiology and Evolutionary Genetics in Infectious Diseases. 30th November-2nd December 2006. Royal River Hotel, Bangkok, Thailand, p77.
18. **Arda Pakpitcharoen**, Supatra Areekit, Paisarn Khawsak, Pornpimon Kanjanavas and Kosum Chansiri. Biodiversity studies of thermotolerant *Bacillus* spp. In the hot spring resources from the central of Thailand based on hypervariable region of 16S rDNA. 33rd Congress on Science and Technology of Thailand (STT.33), Walailak University, Nakhon Si Thammarat, Thailand, 18-20 October 2007, B6_B0022, p 121.
19. Supatra Areekit, **Arda Pakpitcharoen**, Sunsanee Phasook, Phaisarn Khawsak, Sintawee Khuchareontaworn and Kosum Chansiri. Genetic diversity of *Brugia* spp. in cat reservoirs inferred from internal transcribed spacer regions 1. 33rd Congress on

Science and Technology of Thailand (STT.33), Walailak University, Nakhon Si

Thammarat, Thailand, 18-20 October 2007, B6_B0023, p 121.

20. Supatra Areekit, Pornpimon Kanjanavas, **Arda Pakpitcharoen**, Phaisarn Khawsak, Sintawee Khuchareontaworn, Thayat Sriyapai and Kosum Chansiri. Rapid detection of *Brugia malayi* and *Brugia pahangi* in cat reservoirs using high resolution melting. 34th Congress on Science and Technology of Thailand (STT.34), Queen Sirikit National Convention Center, Bangkok, Thailand, 31 October-November 2, 2008, B5_B0144, p110.

21. Pornpimon Kanjanavas, Supatra Areekit, **Arda Pakpitcharoen**, Phaisarn Khawsak, Somchai Santiwatanakul and Kosum Chansiri. Detection of mutation katg *Mycobacterium tuberculosis*. 34th Congress on Science and Technology of Thailand (STT.34), Queen Sirikit National Convention Center, Bangkok, Thailand, 31 October-November 2, 2008, B5_B0038, p104.

22. **Arda Pakpitcharoen**, Khajeenart Pothivejkul, Pornpimon Kanjanavas, Phaisarn Khawsak, Supatra Areekit and Kosum Chansiri. Biodiversity of thermotolerant bacteria producing biosurfactants and biocatalysts in northern Thailand. 34th Congress on Science and Technology of Thailand (STT.34), Queen Sirikit National Convention Center, Bangkok, Thailand, 31 October-November 2, 2008, B2_B0039, p72.

23. Pornpimon Kanjanavas, Phaisarn Khawsak, **Arda Pakpitcharoen**, Supatra Areekit, Thayat Sriyapai, Khajeenart Pothivejkul, Somchai Santiwatanakul, Kenji Matsui, Tadahiko Kajiwara and Kosum Chansiri. Purification and characterization of the alkalophilic and organic solvent tolerant endo-1,4- β -mannanase from thermotolerant *Bacillus licheniformis* THCM 3.1. The International Enzyme Engineering Symposium, Kusadasi, Turkey, 1-5 October 2008, ESP08, p50.

24. Pornpimon Kanjanavas, Phaisarn Khawsak, Thayat Sriyapai, Supatra Areekit, **Arda Pakpitcharoen**, Khajeenart Pothivejkul, Somchai Santiwatanakul, Kenji Matsui, Tadahiko Kajiwara and Kosum Chansiri. Purification and characterization of organic solvent and detergent tolerant lipase from thermotolerant *Bacillus licheniformis* RN2. The International Enzyme Engineering Symposium, Kusadasi, Turkey, 1-5 October 2008, OP08, p28.

25. **Arda Pakpitcharoen**, Supatra Areekit, Pornpimon Kanjanavas, Phaisarn Khawsak and Kosum Chansiri. Diversity of Archaea in soil specimen from the Mae wong hot spring in Thailand. The 2nd Biochemistry and Molecular Biology for Regional Sustainable Development. Khon Kean University, 7-8 May 2009, p 7.
26. Supatra Areekit, **Arda Pakpitcharoen**, Pornpimon Kanjanavas, Phaisarn Khawsak and Kosum Chansiri. Bacterial diversity in soil specimen from the Tao dam hot spring in Thailand. The 2nd Biochemistry and Molecular Biology for Regional Sustainable Development. Khon Kean University, 7-8 May 2009, p 82.
27. Phaisarn Khawsak, Piyapa Kiatsomchai, Pornpimon Kanjanavas, Supatra Areekit, **Arda Pakpitcharoen**, Gaysorn chansiri and Kosum Chansiri. Expression and characterization of CU/ZN superoxide dismutase from *Wuchereria bancrofti*. The 2nd Biochemistry and Molecular Biology for Regional Sustainable Development. Khon Kean University, 7-8 May 2009, p 49.
28. Supatra Areekit, **Arda Pakpitchareon**, Sintawee Khuchareontaworn, Pornpimon Kanjanavas, Paisarn Khawsak and Kosum Chansiri. Diversity of Bacteria and Archaea in soil specimen from the Tao Dam Hot Spring, Thailand. 21st IUBMB and 12th FAOBMB International Congress of Biochemistry and Molecular Biology August 2-7, 2009, Shanghai, China, p 198.
29. Sintawee Khuchareontaworn, **Arda Pakpitchareon**, Supatra Areekit, Pornpimon Kanjanavas, Paisarn Khawsak, Somchai Santiwatanakul, Kenji Matsui and Kosum Chansiri. Microbial analysis of bacteria and archaea from the Mae Wong hot spring in Thailand. 21st IUBMB and 12th FAOBMB International Congress of Biochemistry and Molecular Biology August 2-7, 2009, Shanghai, China, p 198.
30. Supatra Areekit, **Arda Pakpitchareon**, Pornpimon Kanjanavas, Paisarn Khawsak Sintawee Khuchareontaworn and Kosum Chansiri. Diversity of Bacteria in soil specimen from the Fang Hot Spring in Thailand. 35th Congress on Science and Technology of Thailand (STT.35), Burapha University, Chonburi, Thailand, 15-17 October 2009, B5_B0133, p108.
31. Sintawee Khuchareontaworn, **Arda Pakpitchareon**, Supatra Areekit, Somchai Santiwatanakul, Kenji Matsui, Kosum Chansiri. Novel long-term storage cholesterol esterase isolated from thermotolerant *Pseudomonas aeruginosa* isolate RE24.3. 11th

International Symposium on the Genetics of Industrial Microorganisms (GIM 2010), Melbourne Convention & Exhibition Centre, Melbourne, Australia, June 28 - July 01, 2010, P90.

32. Supatra Areekit, Pornpimon Kanjanavas, Paisarn Khawsak, **Arda Pakpitchareon**, Sintawee Khuchareontaworn, Gaysorn Chansiri, Kosum Chansiri. Cloning, expression and characterization of thermotolerant manganese superoxide dismutase from *Bacillus cereus* isolate 47. 11th International Symposium on the Genetics of Industrial Microorganisms (GIM 2010), Melbourne Convention & Exhibition Centre, Melbourne, Australia, June 28 - July 01, 2010, P80.

33. Supatra Areekit, **Arda Pakpitchareon**, Paisarn Khawsak, Sirirat Wachiralurpan, Hathaitip Suksodsai, Kosum Chansiri. Cloning, and expression of a lipase gene (*LIP12*) from *Staphylococcus pasteurii*. 38th Congress on Science and Technology of Thailand (STT.38), Empress Convention Centre, Chiang Mai, Thailand, 17-19 October 2012, H_H0053, p243.

34. **Arda Pakpitchareon**, Supatra Areekit, Paisarn Khawsak, Hathaitip Suksodsai, Kosum Chansiri. Phylogenetic diversity of metagenomic libraries of novel uncultured archaea from the Mae Wong hot spring in Thailand. 38th Congress on Science and Technology of Thailand (STT.38), Empress Convention Centre, Chiang Mai, Thailand, 17-19 October 2012, I_I0045, p278.

Publications

1. Kanjanavas, P., Tan-ariya, P., Khawsak, P., **Pakpitchareon A.**, Phantana, S., and Chansiri, K. 2005. Detection of lymphatic *Wuchereria bancrofti* in carriers and long-term storage blood samples using semi-nested PCR. Molecular and Cellular Probes. 19:169-172

2. Panor Asvarujanon, Kajeenart Phothivejkul, **Arda Pakpitchareon**, Paisarn Khawsak, Gaysorn Chansiri and Kosum Chansiri. Screening of the biosurfactants from thermotolerant microorganisms. 32nd Congress on Science and Technology of Thailand (STT.32), Queen sirikit national convention center (QSNCC), 10-12 October 2006, Proceedings B2-B0076.

3. Montri Yasawong, Arda Pakpitcharoen, Panor Asvarujanon and Kosum Chansiri. Biodiversity survey of thermotolerant *Bacillus* spp. from the hot spring resources in western Thailand based on hypervariable region of 16S rDNA. The 18th Annual Meeting of the Thai Society for Biotechnology, The Montien Riverside Hotel Bangkok Thailand, 2-3 November 2006, Proceedings II-P-14.
4. Arda Pakpitcharoen, Sunsanee Phasook, Paisarn Khawsak, Sintawee Khuchareontaworn and Kosum Chansiri. 2006. Genetic diversity of filarial in cat reservoirs. Journal of Medicine and Health Sciences. 13(1):146-155
5. Supatra Areekit, Pirom Singhaphan, Pornpimon Kanjanavas, Sintawee Khuchareontaworn, Thayat Sriyapai, Arda Pakpitcharoen and Kosum Chansiri. Genetic diversity of Trypanosoma evansi in beef cattle based on internal transcribed spacer region. Infection, Genetics and Evolution. Volume 8, Issue 4, July 2008, Pages 484-488.
6. พรพิมล กาญจนวาส, ไพศาล ขาวสั๊ก, อาชว์ดาม์ ภาคพิธเจริญ, สมชาย สันติเวชกุล, เคนจิ มัสสุย, ทาดาฮิโกะ คาจิอวาระ และโกสุม จันท์ศิริ การศึกษาคุณสมบัติระดับอนุและชีวเคมีของยีนเอนโด-เบต้า-แมนเนสจากเชื้อบาซิลลัสสายพันธุ์ที่ร้อน บทความวิชาการ “ศรัณครินทร์วิโรฒวิชาการ ครั้งที่ 2 ประจำปี 2551” มหาวิทยาลัยศรัณครินทร์วิโรฒ Vol. 1 หน้า 175 - 183.
7. สุพัตรา อารีกิจ, อาชว์ดาม์ ภาคพิธเจริญ, ไพศาล ขาวสั๊ก, สันทวี คู่เจริญถาวร และโกสุม จันท์ศิริ การจัดจำแนกการติดเชื้อร่วมของพยาธิเท้าช้างชนิดบรูเกียในแมวพาหะโดยใช้บริเวณ internal transcribed spacer 1 บทความวิชาการ “ศรัณครินทร์วิโรฒวิชาการ ครั้งที่ 2 ประจำปี 2551” มหาวิทยาลัยศรัณครินทร์วิโรฒ Vol. 1 หน้า 198 - 205.
8. Arda Pakpitcharoen, Khajeenart Pothivejkul, Pornpimon Kanjanavas, Supatra Areekit, Kosum Chansiri. Biodiversity of thermotolerant *Bacillus* sp. producing biosurfactants biocatalysts and antimicrobial agents. ScienceAsia. Volume 34, Issue 4, December 2008, Pages 424-431.
9. Supatra Areekit, Sintawee Khuchareontaworn, Pornpimon Kanjanavas, Thayat Sriyapai, Arda Pakpitcharoen, Paisarn Khawsak and Kosum Chansiri. Molecular genetics analysis for co-infection of *Brugia malayi* and *Brugia pahangi* in cat reservoirs based on internal transcribed spacer 1. Southeast Asian J Trop Med Public Health. Volume 40, Issue 1, January 2009, Pages 30-34.

10. Pornpimon Kanjanavas, Paisarn Khawsak, **Arda Pakpitcharoen**, Supatra Areekit, Thayat Sriyaphai, Khajeenart Pothivejkul, Somchai Santiwatanakul, Kenji Matsui, Tadahiko Kajiwara, Kosum Chansiri. Over-expression and characterization of the alkalophilic, organic solvent-tolerant, and thermotolerant endo-1,4- β -mannanase from *Bacillus licheniformis* isolate THCM 3.1. ScienceAsia Volume 35, 2009, Pages 17-23.
11. Supatra Areekit, Pirom Singhaphan, Sintawee Khuchareontaworn, Pornpimon Kanjanavas, Thayat Sriyapai, **Arda Pakpitcharoen**, Paisarn Khawsak and Kosum Chansiri. Intraspecies variation *Brugia* spp. in cat reservoirs using complete ITS sequences. Parasitol Res. 2009 Jun;104(6):1465-9.
12. Supatra Areekit, Pornpimon Kanjanavas, **Arda Pakpitcharoen**, Sintawee Khuchareontaworn, Thayat Sriyapai, and Kosum Chansiri. High resolution Melting Real-Time PCR for Rapid Discrimination between *Brugia Malayi* and *Brugia Pahangi*. J Med Assoc Thai Vol. 92 Suppl. 3 2009, S24-S27.
13. Sintawee Khuchareontaworn, **Arda Pakpitchareon**, Supatra Areekit, Somchai Santiwatanakul, Kenji Matsui, Kosum Chansiri. Novel long-term storage cholesterol esterase isolated from thermotolerant *Pseudomonas aeruginosa* strain RE24.3. ScienceAsia. 36 (2010): 105-111.
14. Pornpimon Kanjanavas , Sintawee Khuchareontaworn , Paisarn Khawsak , **Arda Pakpitcharoen** , Khajeenart Pothivejkul , Somchai Santiwatanakul , Kenji Matsui , Tadahiko Kajiwara and Kosum Chansiri. 2010. Purification and Characterization of Organic Solvent and Detergent Tolerant Lipase from Thermotolerant *Bacillus* sp. RN2. Int. J. Mol. Sci. 2010, 11(10), 3783-3792.
15. Supatra Areekit , Pornpimon Kanjanavas , Paisarn Khawsak , **Arda Pakpitchareon** , Kajeenart Potivejkul , Gaysorn Chansiri and Kosum Chansiri. 2011. Cloning, Expression, and Characterization of Thermotolerant Manganese Superoxide Dismutase from *Bacillus* sp. MHS47. Int. J. Mol. Sci., 12(1), 844-856.
16. Montri Yasawong, Supatra Areekit, **Arda Pakpitchareon**, Somchai Santiwatanakul and Kosum Chansiri. 2011. Characterization of Thermophilic Halotolerant *Aeribacillus pallidus* TD1 from Tao Dam Hot Spring, Thailand. Int. J. Mol. Sci., 12, 5294-5303.

17. Thayat Sriyapai, Peechapack Somyoonsap, Supatra Areekit, Paisarn Khawsak, **Arda Pakpitcharoen** and Kosum Chansiri. 2013. Isolation, cloning and molecular characterization of a thermotolerant xylanase from *Streptomyces* sp. THW31. African Journal of Biotechnology Vol.12(4), pp.427-437.