
Name

Punyawatt Pintathong

Lecturer

Cosmetic Science Program

Education

-
- PhD (Biotechnology), Walailuk university, 2009
 - BSc (Biochemistry and Biochemical technology), Chiang Mai University, 2000

Training

-
-

Experience

-
-

Research area

-
- Waste utilization and Bioremediation
 - Natural product

Publication

-
1. **Pintathong, P.**, Richardson, D. J., Spiro, S. and Choorit, W. (2009). Influence of metal ions and organic carbons on denitrification activity of the halotolerant bacterium, *Paracoccus pantotrophus* P16 a strain from shrimp pond. *Electronic Journal of Biotechnology*, 12, 1-12.
 2. Chaiwut, P., **Pintathong, P.** and Rawdkuen, S. (2010). Extraction and Three-phase partitioning behavior of protease from papaya peels. *Process Biochemistry*, 45, 1172-1175..
 3. Rawdkuen, S., **Pintathong, P.**, Chaiwut, P., and Benjakul, S. (2010). The Partitioning of protease from *Calotropis procera* latex by aqueous two-phase systems. *Food and Bioproducts Processing*, 89, 73-80.
 4. Rawdkuen, S., Chaiwut, P., **Pintathong, P.**, and Benjakul, S. (2010). Three-phase partitioning of protease from *Calotropis procera* latex. *Biochemical Engineering Journal*, 50, 145-1489.
 5. Khadpoon, N., **Pintathong, P.**, Chaiwut, P., and Rawdkuen, S. (2010). Aqueous two phase partitioning of protease from *Calotropis procera* latex. *Asian Journal of Food and Agro-Industry*, 3, 82-92.
 6. Rawdkuen, S., **Pintathong, P.**, Chaiwut, P., and Benjakul, S. (2011). The partitioning of protease from *Calotropis procera* latex by aqueous two-phase systems and its hydrolytic pattern on muscle proteins. *Food Bioprod. Process.* 89: 73-80.
 7. **Pintathong, P.**, Chanphithak, P., Sereetaveekul, P., Thitipramote, N., and Chaiwut, P. (2012). Use of response surface methodology

for phenolic antioxidant extraction from Lotus (*Nelumbo nucifera* Gaertn.) pod pericarb. *Adv. Mater. Res.* 506: 591-594.

8. Bandasak, C., Rawdkuen, S., **Pintathong, P.** and Chaiwut, P. 2011. Bioactivities of *Carica papaya* latex extracts. *Thai J. Agric. Sci.*, 44: 106-112.

9. Rawdkuen, S., Chaiwut, P., **Pintathong, P.**, and Benjakul, S. (2010). Three-phase partitioning of protease from *Calotropis procera* latex. *Biochem. Eng. J.*, 50: 145-149.

10. Sroimori, T., Srisuntorn, S., Rawdkuen, S., **Pintathong, P.** and Chaiwut, P. 2011. Extraction of phenolic antioxidant from peels and seeds of the Royal Project's fruits. *Thai J. Agric. Sci.*, 44: 113-117.

11. Sangthong, S., Pintathong, P. and **Chaiwut, P.** (2013). Microwave-assisted solid-liquid extraction of biological compounds from *Areca catechu* L. seed. *Burapha Sci. J.* 18: 195-202.

12. Seawan, N., Vichit, W., Thakam, A., Thitipramote, N., Chaiwut, P., **Pintathong, P.** and Thitilertdecha, N. 2014. Antioxidant capacities, phenolic, anthocyanins and proanthocyanidin contents of pigmented rice extracts obtained by microwave-assisted method. *Suranaree Journal of Science and Technology*, 21: 301-306.

13. งานศิลป์ ภาพทอง ภาพพงษ์ ใจจุติ และปัญญาวัฒน์ ปินดาทอง. 2015. การพัฒนาสีจาก แก้วมังกรแดงร่วมกับแป้งข้าวเจ้าเพื่อพัฒนาเป็น แป้งพุดหน้า. *Veridian E-Journal, Science and Technology Silpakorn University*, 2: 130-142.

14. Thitipramote, N., Pradmeeteekul, P., Nimkamnerd, J., Chaiwut, P., Pintathong, P., and Thitilertdecha, N. Bioactive compounds and antioxidant activities of red (Brown red jasmine) and black (Kam Leum Pua) native pigmented rice. 2016. *International Food Research Journal*. 23: 410-414.

15. Seawan, N., Vichit, W., Thakam, A., Thitipramote, N., **Chaiwut, P.**, Pintathong, P. and Thitilertdecha, N. (2014). Antioxidant capacities, phenolic, anthocyanins and proanthocyanidin contents of pigmented rice extracts obtained by microwave-assisted method. *Suranaree Journal of Science and Technology*, 21: 301-306.

16. Sangthong, S., Pintathong, P. and **Chaiwut, P.*** (2013). Microwave-assisted solid-liquid extraction of biological compounds from *Areca catechu* L. seed. *Burapha Sci. J.* 18: 195-202.

17. **Pintathong, P.**, Chaiwut, P., Thitipramote, N., Thitilertdecha, N., Nantitanont, W., Sangthong, S. and Tiensri, N. 2018. The journal of Applied Science, 17: 73-84.

18. Pintathong, P., Chomnunti, P., Sangthong, S., Jirarat, A. and Chaiwut, P. (2021). The Feasibility of Utilizing Cultured *Cordyceps militaris* Residues in Cosmetics: Biological Activity Assessment of Their Crude Extracts. *Journal of Fungi*, 7(11), 973.

19. Sangthong, S., Pintathong, P., Pongsua, P., Jirarat, A., & Chaiwut, P. (2022). Polysaccharides from *Volvariella volvacea* Mushroom:

Extraction, Biological Activities and Cosmetic Efficacy. *Journal of Fungi*. 8(6), 572. <https://doi.org/10.3390/jof8060572>

20. Sangthong, S., Promputtha, I., Pintathong, P., & Chaiwut, P. (2022). Chemical Constituents, Antioxidant, Anti-Tyrosinase, Cytotoxicity, and Anti-Melanogenesis Activities of *Etlintera elatior* (Jack) Leaf Essential Oils. *Molecules*, 27, 3469. <https://doi.org/10.3390/molecules27113469>

8. ประวัติการนำเสนอผลงานวิจัยทั้งภายในและภายนอกประเทศ โปรดระบุชื่อเรื่องของผลงาน ชื่อการประชุม สถานที่ วัน เวลา ตามระบบสากล

1. **Pintathong, P.**, Chaiwut P., Thitipramote, N. and Rawdkuen, S. (2010). Comparison of different methods for bioactive compounds extraction from *Bombax ceiba* L. flowers. The 22nd Annual Meeting of the Thai Society for Biotechnology. Prince of Songkla University, Trang Campus, Thailand, October 20-22, 2010.

2. Chaiwut, P., Arunwatcharapan, K., Chantana, A., **Pintathong, P.** and Rawdkuen, S. (2010.) Phenolic contents, DPPH radical scavenging activity and tyrosinase inhibitory activity of Thai's mango seed kernels. The 3rd Technology and Innovation for Sustainable Development International Conference (TISD2010), Royal Mekhong NongKhai Hotel, Nong Khai, Thailand. March 4-6, 2010.

3. Chaiwut, P., Dumrongphuttidecha, T., Maneewong, C., **Pintathong, P.** and Rawdkuen, S. (2010). Antioxidant and tryrosinase inhibitory activities of RD6 and black glutinous rice soaking water. Food Innovation Asia Conference, Bitec, Bangkok, Thailand. June 17-18, 2010.

4. **Pintathong, P.**, Chaiwut, P., Pratumpho, N., Duangchit, P. and Rawdkuen, S. 2010. Comparative study on extraction of phenolic compounds from some edible Thai fruit seeds. Food Innovation Asia Conference, Bitec, Bangkok, Thailand. June 17-18, 2010.

5. Danai, N., **Pintathong, P.**, Rawdkuen, S. and Chaiwut, P. (2010). Proteolytic activity of rhizome extracts from Zingiberaceae plants. The 22nd Annual Meeting of the Thai Society for Biotechnology. Prince of Songkla University, Trang Campus, Thailand, October 20-22, 2010.

6. Arunwatcharapan, K., Chantana, A., **Pintathong, P.**, Rawdkuen, S. and Chaiwut, P. (2010). Extraction of phenolic antioxidants from fruit seeds of papaya, sugarapple, watermelon and salacca. The 22nd Annual Meeting of the Thai Society for Biotechnology. Prince of Songkla University, Trang Campus, Thailand, October 20-22, 2010.

7. Sroimori, T., Srisunton, S., Rawdkuen, S., **Pintathong, P.** and Chaiwut, P. (2010). Extraction of phenolic antioxidants from peels and seeds of the Royal Project's fruits. International Conference on Agriculture and Agro-Industry, Mae Fah Luang University, November 19-20, 2010.

8. Bandasak, C., Rawkuen, S., **Pintathong, P.** and Chaiwut, P. (2010). Bioactivities of *Carica papaya* latex extract. International

Conference on Agriculture and Agro-Industry, Mae Fah Luang University, November 19-20, 2010.

9. **Pintathong, P.** and Choorit, W. (2008). Comparative study of carbon sources for denitrification under saline condition by *Paracoccus pantotrophus* P16 isolated from shrimp pond mud. 5th World Fisheries Congress: Fisheries for Global Welfare and Environmental Conservation, Yokohama, Japan: October 20-25, 2008.

10. Khadpoon, N., **Pintathong, P.**, Chaiwut, P. and Rawdkuen, S. (2009). Aqueous two phase partitioning of protease from *Calotropis procera* latex. Food Innovation Asia Conference 2009. BITEC, Bangkok, Thailand. June 18-19, 2009.

11. Rawdkuen, S., Chaiwut, P. and **Pintathong, P.** (2009).

Three-phase partitioning of protease from papaya peel extract. The 21st Annual Meeting and International Conference of Thai Society for Biotechnology TSB 2009, Queen Sirikit National Convention Center, Bangkok, Thailand. September 24-25, 2009.

12. Chaiwut, P., **Pintathong, P.** and Rawdkuen, S. (2009). Extraction of protease from papaya peels. The 21st Annual Meeting and International Conference of Thai Society for Biotechnology TSB 2009, Queen Sirikit National Convention Center, Bangkok, Thailand. September 24-25, 2009.

13. **Pintathong, P.**, Chaiwut, P. and Rawdkuen, S. (2009). The partitioning of protease from *Calotropis procera* latex by aqueous two-phase systems. The 21st Annual Meeting and International Conference of Thai Society for Biotechnology TSB 2009, Queen Sirikit National Convention Center, Bangkok, Thailand. September 24-25, 2009.

14. **Pintathong, P.** and Choorit, W. (2009). Influence of iron and molybdenum on denitrification activity of *Paracoccus pantotrophus* P16. The 35th Congress on Science and Technology of Thailand (STT35), The Tide Resort (Bangsaen Beach), Chonburi, Thailand. October 15-17, 2009.

15. Chaiwut, P., **Pintathong, P.** and Rawdkuen, S. (2009).

Three-phase partitioning of protease from papaya latex. The 35th Congress on Science and Technology of Thailand (STT35), The Tide Resort (Bangsaen Beach), Chonburi, Thailand. October 15-17, 2009.

16. Rawdkuen, S., Chaiwut, P. and **Pintathong, P.** 2009.

Three-phase partitioning of protease from *Calotropis procera* latex. The 35th Congress on Science and Technology of Thailand (STT35), The Tide Resort (Bangsaen Beach), Chonburi, Thailand. October 15-17, 2009.

17. Thitipramote, N., Chaiwut, P., **Pintathong, P.** and Rawdkuen, S. (2010). Characteristics and bioactivities of gelatin hydrolysate from beef skin. The 22nd Annual Meeting of the Thai Society for Biotechnology. Prince of Songkla University, Trang Campus, Thailand, October 20-22, 2010.

18. Rawdkuen, S., Chaiwut, P., **Pintathong, P.** and Thitipramote, N. (2010). Three phase partitioning of proteases from viscera of farmed giant catfish (*Pangasianodon gigas*). The 22nd Annual

- Meeting of the Thai Society for Biotechnology. Prince of Songkla University, Trang Campus, Thailand, October 20-22, 2010.
19. Sroimori, T., Srisunton, S., Rawdkuen, S., **Pintathong, P.** and Chaiwut, P. 2010. Extraction of phenolic antioxidants from peels and seeds of the Royal Project's fruits. International Conference on Agriculture and Agro-Industry, Mae Fah Luang University, November 19-20, 2010.
20. Bandasak, C., Rawkuen, S., **Pintathong, P.** and Chaiwut, P. 2010. Bioactivities of *Carica papaya* latex extract. International Conference on Agriculture and Agro-Industry, Mae Fah Luang University, November 19-20, 2010.
21. Chaiwut, P., Sangthong, S., Thitilertdecha, N., Rawdkuen, S. and **Pintathong, P.** 2011. Bromelain extraction and stabilization in cosmetic product by polyethylene glycol. Chiang Mai International Conference on Biomaterials and Application, Chiang Mai, August 9-10, 2011.
22. **Pintathong, P.**, Chanphithak, P., Sereetaveekul, P., Thitipromote, N. and Chaiwut, P. 2011. Use of response surface methodology for phenolic antioxidant extraction from lotus (*Nelumbo nucifera* Gaertn.) pod pericarp. Chiang Mai International Conference on Biomaterials and Application, Chiang Mai, August 9-10, 2011.
23. Sangthong, S., **Pintathong, P.**, Rawdkeun, S., and Chaiwut, P. 2011. Pineapple waste as a potential source for bromelain extraction. The 37th Congress o Science and Technology of Thailand. Bangkok. October 10-12, 2011.
24. Keonkeaw, N., Thiwongnoi, P., Chaiwut, P., Thitipramote, N., and **Pintathong, P.** 2011. Evaluation of cosmetic bioactivities from Zingiberaceae rhizome extract. The 37th Congress o Science and Technology of Thailand. Bangkok. October 10-12, 2011.
25. Chaiwut, P., Keonkeaw, N., Thiwongnoi, P., Thitilertdecha, N., and **Pintathong, P.** 2011. Microwave-assisted extraction ad optimization of antioxidant and antityrosinase activities from *Zingiber officinale* rhizome. The 37th Congress o Science and Technology of Thailand. Bangkok. October 10-12, 2011.
26. Lalitanan, N., Akuniwong, P., **Pintathong, P.**, Chaiwut, P., and Thitilertdecha, N. 2011. Phenolic content and antioxidant activity from Thai flower extracts: Effect of extraction conditions. The 37th Congress o Science and Technology of Thailand. Bangkok. October 10-12, 2011.
27. Chuamsuk, S., **Pintathong, P.**, Thitipramote, N., Wuttisin, N., and Chaiwut, P. 2011. Phenolic antioxidative activity of banana (*Musa Sapientum* L.) peel extract. The 37th Congress o Science and Technology of Thailand. Bangkok. October 10-12, 2011.
28. Wijitkul, P., Junhasobhaga, P., **Pintathong, P.**, and Chaiwut, P. 2011. Phenolic content and DPPH radical scavenging capacity in mung bean sprout extracts. The 37th Congress o Science and Technology of Thailand. Bangkok. October 10-12, 2011.
29. Sangthong, S. Sompakdee, Z., **Pintathong, P.** Rawdkeun, S., and Chaiwut, P. 2011. Stabilization of bromelain extract by polyethylene glycol-salt biphasic system. The 37th Congress o

Science and Technology of Thailand. Bangkok. October 10-12, 2011.

30. Sangthong, S., **Pintathong, P.**, and Chaiwut, P. 2011. Phenolic antioxidant activity from betel nut (*Areca catechu* L.) extract. The 37th Congress of Science and Technology of Thailand. Bangkok. October 10-12, 2011.

31. Thitipramote, N., Krongsuksirichai, K., Chaiwut, P., **Pintathong, P.** and Rawdkeun, S. 2011. Characterization and bioactivities of collagen hydrolysates from striped catfish and farmed giant catfish skins. The 37th Congress of Science and Technology of Thailand. Bangkok. October 10-12, 2011.

32. Sangthong, S., **Pintathong, P.**, and Chaiwut, P. 2011. Extraction of phenolic compound from banana (*Musa sapientum*) peel and its formulation in sunscreen product. IFSCC 2011 Conference. Bangkok. October 31- November 2, 2011

33. Bonpanya, N., Takee, C., Chaiwut, P., and **Pintathong, P.** 2011. Use of response surface methodology for extraction of phenolic antioxidant from betel nut (*areca catechu* L.). IFSCC 2011 Conference. Bangkok. October 31- November 2, 2011

34. Sangthong, S., **Pintathong, P.**, and Chaiwut, P. 2011. Comparison of microwave-assisted and shaking methods on extraction of cosmetic bioactivities from *Areca catechu* L. Pure and applied chemistry international conference 2012. Chiang Mai, January 11-13, 2012.

35. Chaiwut, P., Huttapasu, P., Prommuang, B., and **Pintathong, P.** 2012. Microwave-assisted extraction and comparison of phenolic antioxidants from six aerial parts of *Moringa olifera*. International Conference on Food and Applied Bioscience. Chiang mai. February 6-7, 2012.

36. **Pintathong, P.**, Keawkhao, W., Sirichot, O., and Chaiwut, P. 2012. Recovery of phenolic antioxidants from spent coffee grounds using microwave-assisted extraction. International Conference on Food and Applied Bioscience. Chiang mai. February 6-7, 2012.

37. Tomusor, F., Pasuriyan, K., Sangthong, S., Chaiwut, P., and **Pintathong, P.** 2012. Factors affecting phenolic antioxidants extraction from raw betel nut seed. The 2nd Current Drug Development International Conference. May 2-4, 2012.

38. Pintathong, P., Kaewdusit, K., Thitilertdecha, N., Thitipramote, N., Sangthong, S. and Chaiwut, P. Extraction of Phenolic antioxidants from fermented tea leaves product. Pure and Applied Chemistry International Conference 2014 (PACCON 2014). Khon Kaen University and Chemical Society of Thailand. Jan 8-10, 2014.

39. Pongsua, P., **Pintathong, P.** and Chaiwut, P. 2016. Extraction and cosmetic application of mushroom polysaccharides. The 2016 Pure and Applied Chemistry International Conference (PACCON2016). Feb 9-11, 2016.

40. Krissadarungchai, U., **Pintathong, P.**, Chueamchaitrakul, P. and Chaiwut, P. (2015). Comparative study on phenolic antioxidant extraction from *Camellia sinensis* var. *sinensis* and *assamica*. The 27th Annual Meeting of the Thai Society for Biotechnology and international Conference, 17-20 November 2015

41. **Pintathong, P.**, Pollchanuan, P., Porsri, W., Thitipramote, N., Thitilertdecha, N., Nantitanon, W. and Chaiwut, P. (2017). Comparative study on sericin extraction from Thai cocoon residue. Pure and Applied Chemistry International Conference (PACCON 2017), 2-3 Feb 2017.
44. Tiensri, N., Chaiwut, P. and **Pintathong, P.** (2017). Activity of solvent-rinsed Carica papaya lipase. The 29th Annual Meeting of the Thai Society for Biotechnology and International Conference (TSB2017), November 23-25, 2017.
45. Thitipramote, N., Khankhong, S., Yourod, S., Pradmeeteekul, P., Nimkamnerd, J., Chaiwut, P. and **Pintathong, P.** (2017). Comparison of bioactive compounds and bioactivities activity in Robusta and Arabica coffee extracts and their cosmetic application. The 29th Annual Meeting of the Thai Society for Biotechnology and International Conference (TSB2017), November 23-25, 2017.

Awards

-
-
-