



รองศาสตราจารย์ ดร.อรุณพร อิฐรัตน์
Assoc.Prof.Arunporn Itharat,Ph.D.

Academic History (ประวัติการศึกษา)

ปีที่จบ	ระดับ ปริญญา	อักษรย่อปริญญาและ ชื่อเต็ม	สาขาวิชา	ชื่อสถาบันการศึกษา	ประเทศ
2524	ตรี	ภ.บ.	-	จุฬาลงกรณ์ มหาวิทยาลัย	ไทย
2529	โท	ภ.ม.	เภสัชเวช	จุฬาลงกรณ์ มหาวิทยาลัย	ไทย
2545	เอก	Ph.D.	Pharmacognosy	King's College, London	อังกฤษ
2539	-	Certificate of British council training course	Cytotoxicity testing on plants extract	King's College, London	อังกฤษ
2546	เภสัชกรรม แผนไทย	บ.ภ.			

Fields of Research

1. Phytochemistry studies and standardization of herbal plant extracted and its active compounds.
2. *In vitro* biological activities of crude extracts from natural products
 - Anti-allergic activity
 - Anti-inflammatory activity
 - Anti-HIV activity
 - Anti-microbial activity
 - Anti-cancer activity
 - Immunomodulatory activity
 - Antioxidant activity
 - Anti-diabetic activity
 - Wound healing effect property
3. Development of herbal medicine preparation as adaptogen, food supplement and health products for cancer patients.
4. Acetylcholineesterase inhibitor in medicinal plant and nootropic.
5. Development of herbal drugs to be dosage forms and test for stability of herbal product
6. Herbal Product Development for
 - Healthy Food and Snack
 - Instant Herbal Drink
 - Cosmetic and spa
 - Herbal medicine

Publications

International Journal Publication (1-27)

1. Hiransai P, Ratanachaiyavong S, **Itharat A**, Graidist P, Ruengrairatanaroj P, Purintrapiban J. Dioscorealide B suppresses LPS-induced nitric oxide production and inflammatory cytokine expression in RAW 264.7 macrophages: The inhibition of NF-kappaB and ERK1/2 activation. J Cell Biochem. 2010 Apr 1;109(5):1057-63.
2. Wiwattanapatapee R, Sae-Yun A, Petcharat J, Ovatlarnporn C, **Itharat A**. Development and evaluation of granule and emulsifiable concentrate formulations containing *Derris elliptica* extract for crop pest control. J Agric Food Chem. 2009 Dec 9;57(23):11234-41.
3. Tappayuthpijarn P, **Itharat A**, Saelim S, Uttama S. Proliferation enhancing effect of rice extracts on neuronal PC12 cells. Planta Med. 2009 Jul;75(9):940-.
4. Sukkarn B, **Itharat A**. Stability under heat accelerated condition of Dioscorealide B from the ethanolic extract of Dioscorea membranacea for Cancer Treatment. Planta Med. 2009 Jul;75(9):985-.
5. Sakpakdeejaroen I, **Itharat A**. Determination of cytotoxic compounds by HPLC and stability studied of Thai Traditional preparation called Benjakul for cancer treatment. Planta Med. 2009 Jul;75(9):985-.
6. Naowaboot J, Pannangpetch P, Kukongviriyapan V, Kukongviriyapan U, Nakmareong S, **Itharat A**. Mulberry leaf extract restores arterial pressure in streptozotocin-induced chronic diabetic rats. Nutr Res. 2009 Aug;29(8):602-8.
7. Makchuchit S, **Itharat A**, Tewtrakul S. Anti-allergic activity of Thai medicinal plants. Planta Med. 2009 Jul;75(9):956-.
8. Mahavorasirikul W, Chaijaroenkul W, **Itharat A**, Na-Bangchang K. Screening of Cytotoxic Activity of Thai Medicinal Plants against Human Cholangiocarcinoma Cells In Vitro. Drug Metab Rev. 2009 Aug;41:85-.

9. **Itharat A**, Makchuchit S, Tewtrakul S. Anti-inflammatory activity of Thai traditional medicine preparation called Prasaprophyai. *Planta Med.* 2009 Jul;75(9):1043-4.
10. Hiranyachattada S, **Itharat A**, Kunworarath N, Muangnil P. Effects of *Hibiscus Sabdariffa* Linn. Calyx Extract as an Antioxidant in Cisplatin-Induced Acute Renal Failure Rat. *J Physiol Sci.* 2009;59:485-.
11. Hansakul P, **Itharat A**, Pananto W. Dioscoreanone-induced growth arrest and apoptosis in lung carcinoma cells. *Planta Med.* 2009 Jul;75(9):977-.
12. Sukkarn B, **Itharat A**. Comparative study development of extraction processes and stability of *Dioscorea membranacea* for cancer treatment. *Planta Med.* 2008 Jul;74(9):1115-6.
13. Pureesatien O, Ovatlamporn C, **Itharat A**, Wiwattanapataptee R. Quantitative HPLC determination and stability studies of pyridostemin in extracts and water dispersible granule formulations of *Stemona curtisii*. *Chromatographia.* 2008 Apr;67(7-8):551-7.
14. **Itharat A**, Saekoo J, Dechsukum C. Molecular cytotoxic mechanism of Dioscorealide B on human breast cancer cells. *Planta Med.* 2008 Jul;74(9):944-5.
15. **Itharat A**. Cytotoxic and antioxidant activities of Thai medicinal plants for cancer treatment. *Planta Med.* 2008 Jul;74(9):998-.
16. Tewtrakul S, **Itharat A**. Nitric oxide inhibitory substances from the rhizomes of *Dioscorea membranacea*. *J Ethnopharmacol.* 2007 Feb 12;109(3):412-6.
17. Tappayuthpiijarn P, **Itharat A**, Sakpakdeejaroen I, Kumarpawa K. Cytotoxic activity of the traditional Thai medicinal plant preparation Benjakul and 4 isolated compounds. *Planta Med.* 2007 Aug;73(9):1005-6.
18. **Itharat A**, Plubrukan A, Kaewpradub N, Chuchom T, Ratanasuwan P, Houghton PJ. Selective cytotoxicity and antioxidant effects of compounds from *Dioscorea membranacea* rhizomes. *Nat Prod Commun.* 2007;2(6):643-8.

19. **Itharat A**, Kejik R, Tewtrakul S, Watanaperomskul C. Antioxidant and anti-HIV-1 integrase compounds from *Smilax corbularia* Kunth. *Planta Med.* 2007 Aug;73(9):996-7.
20. Tewtrakul S, **Itharat A**, Rattanasuwan P. Anti-HIV-1 protease- and HIV-1 integrase activities of Thai medicinal plants known as Hua-Khao-Yen. *J Ethnopharmacol.* 2006 Apr 21;105(1-2):312-5.
21. Tewtrakul S, **Itharat A**. Anti-allergic substances from the rhizomes of *Dioscorea membranacea*. *Bioorg Med Chem.* 2006 Dec 15;14(24):8707-11.
22. Sae-Yun A, Ovatlarnporn C, **Itharat A**, Wiwattanapatapee R. Extraction of rotenone from *Derris elliptica* and *Derris malaccensis* by pressurized liquid extraction compared with maceration. *J Chromatogr A.* 2006 Sep 1;1125(2):172-6.
23. Ingkatawornwong S, Pinsuwan S, **Itharat A**, Sukying S, Puripattanavong J. Antioxidant evaluation and stability of guava (*Psidium guajava* linn.) dried extract. *Planta Med.* 2006 Sep;72(11):1045-.
24. **Itharat A**, Houghton PJ, Eno-Amooquaye E, Burke PJ, Sampson JH, Raman A. In vitro cytotoxic activity of Thai medicinal plants used traditionally to treat cancer. *J Ethnopharmacol.* 2004 Jan;90(1):33-8.
25. Laupattarakasem P, Houghton PJ, Hoult JR, **Itharat A**. An evaluation of the activity related to inflammation of four plants used in Thailand to treat arthritis. *J Ethnopharmacol.* 2003 Apr;85(2-3):207-15.
26. **Itharat A**, Plubrukarn A, Kongsaree P, Bui T, Keawpradub N, Houghton PJ. Dioscorealides and dioscoreanone, novel cytotoxic naphthofuranoxepins, and 1,4-phenanthraquinone from *Dioscorea membranacea* Pierre. *Org Lett.* 2003 Aug 7;5(16):2879-82.
27. Reanmongkol W, Matsumoto K, **Itharat A**, Watanabe H. Antinociceptive effects of *Randia siamensis* extract and its constituent, pseudoginsenoside-RP1 in experimental animals. *Biol Pharm Bull.* 1994 Sep;17(9):1206-9.

Thai Journal Publication (28-43)

28. Sakpakdeejaroen I, **Itharat A**. Cytotoxic compounds against breast adenocarcinoma cells (MCF-7) from Pikutbenjakul. Journal of health research Vol. 23 No. 2 (Apr.-Jun. 2009) p.71-76.
29. Thammarutwasik P, Hongpattarakere T, Chanthachum S, Kijroongrojana K, **Itharat A**, Reanmongkol W, Tewtrakul S, Ooraikul B. Prebiotics - A review. Songklanakarin journal of science and technology Vol. 31 No. 4 (Jul.-Aug. 2009) p. 401-408.
30. Chumsri P, Sirichote A, **Itharat A**, Studies on the optimum conditions for the extraction and concentration of roselle (*Hibiscus sabdariffa* Linn.) extract. Songklanakarin journal of science and technology Vol. 30 Suppl. 1 (Apr. 2008) p.133-139.
40. Tewtrakul S, **Itharat A**, Thammaratwasik P, Ooraikul B. Anti-allergic and anti-microbial activities of some Thai crops. Songklanakarin journal of science and technology Vol. 30 No. 4 (Jul.-Aug. 2008) p.467-473.
41. Jansom C, Bhamarapravati S, **Itharat A**, Major anthocyanin from ripe berries of *Cleistocalyx nervosum* var. paniala. Thammasat Medical Journal, Vol. 8 No. 3, (Jul.-Sep. 2008) p.364-370.
42. **Itharat A**, Supavita T, Jusanit P, Singchangchai P, Subchareon P, Deevisad G, Ubonkaw P, Ratanasuwan P, Kajpunyapong V, Muangsrinun R. Survey of medicinal plants and local folk wisdom in Southern Thailand: case study at Talebun National Parks. Research Report of Prince of Songkla University, Songkla .1999. p. 82-115.
43. **Itharat A**, Singchangchai P, Ratanasuwan P. Wisdom of Southern Thai traditional doctors. Research Report of Prince of Songkla University, Songkla. 1998. pp. 126.

Conference and Presentation (44-45)

44. **Itharat A**, Kaewpradub N, Plubrukan A, Chuchom T, Houghton P.J. A cytotoxic steroid saponin from *Dioscorea membranacea*. In Vincieri (ed.). Abstract book: The 53rd Annual Meeting of the Society of Medicinal Plants Research and Joint Congress with the Italian Society of Phytochemistry, Florence, Italy, (21-23 August 2005). p 312.
45. **Itharat A**, Kaewpradub N, Plubrukan A, Ratanasuwan P, Houghton P.J. A cytotoxic steroid saponin from *Dioscorea burmanica*. In Vincieri (ed.). Abstract book: The 53rd Annual Meeting of the Society of Medicinal Plants Research and Joint Congress with the Italian Society of Phytochemistry, Florence, Italy, (21-23 August 2005). p 356.