



**Dr. Benjawan Dunkhunthod**

**Lecturer of Thai Traditional Medicine**



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38 Village No. 8,  
Na Wung Subdistrict,  
Mueang District,  
Phetchaburi Province 76000

## > EDUCATION HISTORY

- 2017-2021** Doctor of Philosophy (Biomedical sciences), Suranaree University of Technology, Nakhon Ratchasima, Thailand
- 2010-2016** Master of Science (Biomedical Sciences), Suranaree University of Technology, Nakhon Ratchasima, Thailand
- 2006-2009** Bachelor of Science (Environmental Health) (First Class Honors with gold medal award), Suranaree University of technology, Nakhon Ratchasima, Thailand

## > EMPLOYMENT HISTORY

Full-time Researcher School of Pharmacology, Institute of Science, Suranaree University of Technology, Nakhon Ratchasima, 30000, Thailand, 2015-2016  
Lecturer Thai Traditional Medicine Program, Faculty of Nursing and Allied Health Sciences, Phetchaburi Rajabhat University, Phetchaburi, 76000, Thailand, 2021-present

## > SCHOLARSHIP

The Royal Golden Jubilee Ph.D Program (RGJ), 2017-2021

## > TEACHING EXPERIENCES

- Teaching assistant (TA) in principles of biology laboratory (104102), 2011-2012
- Teaching assistant (TA) in Man and environment (104107), 2012

## > AREAS OF RESEARCH INTERESTS AND EXPERTISE

- Biology of cancer
- Toxicology of naturally-derived compounds
- Pharmacology and clinical pharmacology
- Biological and pharmacological activities of natural products: Anti-cancer, Anti-angiogenesis,
- Anti-inflammation, Anti-oxidation, and Cytoprotective effects
- Application of Synchrotron Fourier Transform Infrared (SR-FTIR) spectroscopy in Biomedical Sciences

## > NATIONAL PUBLICATION (5 years ago)

- 1.เบญจวรรณ ดุนขุนทด และ พิษวรรณ สิทธิศาสตร์. (2565). การศึกษาอนุโมลีอิสระและความเป็นพิษต่อเซลล์มะเร็งมนุษย์ของสารสกัดด้วยน้ำใบเพ็ญน้อย ใบห้วใจศกัณฐ์ และใบหางไหล. วารสารวิทยาศาสตร์และเทคโนโลยี มหาวิทยาลัยอุบลราชธานี, 24(2), 1-11 (TCI Tier 1).
2. Dunkhunthod, B., Chitsomboon, B., Thumanu, K., and Sittisart, P. (2019). Application of FTIR Microspectroscopy to Monitor Biochemical Changes in Apoptotic Jurkat Cell Death Induced by Extract of *Pseuderanthemum palatiferum* Leaves. *KMUTT Research and Development Journal*. 43(4): 425-439. (Thai Journal Impact Factor = 0.238; TCI Tier 1).



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## INTERNATIONAL PUBLICATIONS (5 years ago)

1. Chiraatthakit, B., Dunkunthod, B., Suksaweang, S., & Eumkeb, G. (2023). Antiproliferative, Antiangiogenic, and Antimigrastatic Effects of *Oroxylum indicum* (L.) Kurz Extract on Breast Cancer Cell. Evidence-Based Complementary and Alternative Medicine, 2023.
2. Kumrungsee, N., Wiwattanawanichakun, P., Phankaen, P., Saiyaitong, C., Koul, O., Nobsathian, S., ... & Dunkhunthod, B. (2023). Phenolic secondary metabolites from *Acorus calamus* (Acorales: Acoraceae) rhizomes: the feeding deterrents for *Spodoptera litura* (Lepidoptera: Noctuidae). *Journal of Economic Entomology*, toad135.
3. Kumrungsee, N., Dunkhunthod, B., Manoruang, W., Koul, O., Pluempanupat, W., Kainoh, Y., Yooboon, T., Piyasaengthong, N., Bullangpoti, V., and Nobsathian, S. (2022). Synergistic Interaction of Thymol with *Piper ribesoides* (Piperales: Piperaceae) Extracts and Isolated Active Compounds for Enhanced Insecticidal Activity against *Spodoptera exigua* (Lepidoptera: Noctuidae). *Chemical and Biological Technologies in Agriculture*. 9 (1): 1-11. (Impact Factor 2022 = 2.64; SCOPUS SJR 2022 = Q1).
4. Dunkhunthod, B., Chiraatthakit, B., Chitsomboon, B., Kiatsongchai, R., Thumanu, K., Musika, S., and Sittisart, P. (2021). Apoptotic induction of the water fraction of *Pseuderanthemum palatiferum* ethanol extract powder in Jurkat cells monitored by FTIR microspectroscopy. *ScienceAsia*. 47(5): 556-566. (Impact Factor 2020 = 0.61; SCOPUS SJR 2020 = Q3, Web of Sci JCR 2020 = Q4).
5. Sittisart, P., Dunkhunthod, B., Eumkeb, G., and Sittisart, P. (2021). Cytoprotective and Hypoglycemic Activities of Ethanol Extract of *Hoya kerrii* Craib Leaf. *Chiang Mai Journal of Science*. 48(2): 395-404. (Impact Factor 2020 = 0.53; SCOPUS SJR 2020 = Q4, Web of Sci JCR 2020 = Q4).
6. Dunkhunthod, B., Talabnin, C., Murphy, M., Thumanu, K., Sittisart, P., and Eumkeb, G. (2021). *Gymnema inodorum* (Lour.) Decne. Extract Alleviates Oxidative Stress and Inflammatory Mediators Produced by RAW264.7 Macrophages. *Oxidative medicine and cellular longevity*, 2021: 8658314. DOI: 10.1155/2021/8658314. (Impact Factor 2020 = 5.60; SCOPUS SJR 2020 = Q1, Web of Sci JCR 2020 = Q2).
7. Sittisart, P., Dunkhunthod, B., and Chuea-Nongthon, C. (2020). Antioxidant and anti-inflammatory activities of ethanolic extract from *Hoya kerrii* Craib. *Chiang Mai Journal of Science*. 47(5): 912-925. (Impact Factor 2020 = 0.53; SCOPUS SJR 2020 = Q4, Web of Sci JCR 2020 = Q4).
8. Dunkhunthod, B., Talabnin, C., Murphy, M., Thumanu, K., Sittisart, P., Hengpratom, T., and Eumkeb, G. (2020). Intracellular ROS scavenging and anti-inflammatory activities of *Oroxylum indicum* Kurz (L.) extract in LPS plus IFN- $\gamma$ -activated RAW264.7 macrophages. *Evidence-Based Complementary and Alternative Medicine*. 2020:7436920. DOI: 10.1155/2020/7436920. (Impact Factor 2020 = 2.40; SCOPUS SJR 2020 = Q1, Web of Sci JCR 2020 = Q3).
9. Sittisart, P., Piakaew, N., Chuea-Nongthon, C., and Dunkhunthod, B. (2019). Anti-proliferative and apoptosis-inducing activities of *Derris elliptica* (Roxb.) Benth. leaf extract on three human cancer cell lines. *Maejo International Journal of Science and Technology*. 13(1): 62-71. (Impact Factor 2020 = 0.63; SCOPUS SJR 2020 = Q3, Web of Sci JCR 2020 = Q4).



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## > AWARDS

- Best Oral Presentation Awards
  - Dunkhunthod, B., Salangam, B., Kiatsongchai, R., Sittisart P., and Chitsomboon, B. (2019). Mutagenicity and Cytotoxicity Evaluation of the Water Fraction of 95% Ethanol Extracts of *Pseuderanthemum palatiferum* (Nees) Radlk. The 1 st National Conference on Public Health, Science and Technology 2019 (NCPHST). Surasummanakarn Hotel, Nakhon Ratchasima, Thailand.
- Gold medal award for the top of the class (Environmental health program), Suranaree University of Technology, 2009.

## > ORAL PRESENTATION AND PROCEEDING

1. Dunkhunthod, B., Talabnin, C., Murphy, M., Thumanu, K., Sittisart, P., Hengpratom, T., and Eumkeb, G. (2021). Intracellular ROS Scavenging and Anti-inflammatory Activities of *Oroxylum indicum* Kurz (L.) Extract in LPS plus IFN- $\gamma$  Activated RAW264.7 Macrophages. THE 2021 National RGJ and RRI Conferences. 14 th June 2021.
2. Dunkhunthod, B., Salangam, B., Kiatsongchai, R., Sittisart, P., and Chitsomboon, B. (2019). Mutagenicity and Cytotoxicity Evaluation of the Water Fraction of 95% Ethanol Extracts of *Pseuderanthemum palatiferum* (Nees) Radlk. The 1 st National Conference on Public Health, Science and Technology 2019 (NCPHST). Surasummanakarn Hotel, Nakhon Ratchasima, Thailand.
3. Sala-ngam, B., Dunkhunthod, B., and Chitsomboon, B. (2019). Anti-angiogenesis Activity of Hoan-Ngoc (*Pseuderanthemum palatiferum* (Nees) Radlk.) Extract on CAM model. The 1 st National Conference on Public Health, Science and Technology 2019 (NCPHST). Surasummanakarn Hotel, Nakhon Ratchasima, Thailand.
4. Sala-ngam, B., Suksawaeng, S., Dunkhunthod, B., and Chitsomboon, B. (2016). Anti-angiogenesis activity of Hoan-Ngoc (*Pseuderanthemum palatiferum* (Nees) Radlk.) leave extract on CAM model. The 6 th International Conference on Natural Products for Health and Beauty (NATPRO6). 21 st to 23 rd January, 2016. Pullman Khon Kaen Raja Orchid, Khon Kaen, Thailand.
5. Dunkhunthod, B. and Chitsomboon, B. (2014). Antiproliferative effect on cancer cells and mutagenic activity of *Pseuderanthemum palatiferum* (Nees) Radlk. The 5 th International Conference on Natural Products for Health and Beauty (NATPRO5). 6 th to 8 th May 2014. Moevenpick Resort & Spa Karon Beach, Phuket, Thailand.

## > POSTER PRESENTATION

1. Dunkhunthod, B., Thumanu, K., and Eumkeb, G. (2019). Application of FTIR microspectroscopy for monitoring and discrimination of the anti-adipogenesis activity of baicalein in 3T3-L1 adipocytes. The 9 th Annual SLRI User Meeting 2019 (AUM2019). 1 st May 2019. The Sukosol Bangkok Hotel, Bangkok, Thailand.
2. Dunkhunthod, B., Chitsomboon, B., Sala-ngam, B., Eumkeb, G., and Thumanu, K. (2019). The effect of the ethanol extract of *Pseuderanthemum palatiferum* (Nees) Radlk. on Jurkat cell lines monitored by FTIR microspectroscopy. The 9 th Annual SLRI User Meeting 2019 (AUM2019). 1 st May 2019. The Sukosol Bangkok Hotel, Bangkok, Thailand.



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## > SUBMITTED AND PREPARING ARTICLES

1. Dunkhunthod, B., Musika, S., and Eumkeb, G. Oroxyllum indicum Kurz (L.) extract attenuated LPS plus IFN- $\gamma$ -induced inflammation via modulation of antioxidant- and anti-inflammatory-related genes in RAW264.7 macrophage cells. PeerJ. (Under review).
2. Chiraatthakit, B., Chitsomboon, B., Suksaweang, S., Dunkhunthod, B., Chiraatthakit, Y., and Eumkeb, G. Pseuderanthemum palatiferum (Nees) Radlk. inhibits cell migration, colony formation, and angiogenesis induced by B16F10 melanoma cells. Asian Pacific Journal of Tropical Biomedicine (In preparation).
3. Cytoprotective effect of Phai-jeut extract (Pogonatherum paniceum (Lamk) Hack) against tert-butyl hydroperoxide (t-BHP)-induced oxidative injury in RAW264.7 cells. (In preparation).
4. Anti-inflammatory effect of Phai-jeut extract (Pogonatherum paniceum (Lamk) Hack) extract in LPS plus IFN- $\gamma$ -activated RAW264.7 macrophages. (In preparation).
5. Protocatechuic acid isolated from Thai black rice inhibits Propionibacterium acnes-induced inflammation in HaCaT keratinocytes (In preparation).
6. Amelioration of UV radiation-induced skin photoaging and oxidative damage in HaCaT keratinocytes by protocatechuic acid isolated from Thai black (In preparation).
7. Musika, S., Woraratphoka, J., Khongla, C., and Dunkhunthod, B. (2021). Antioxidant, anti-proliferative and apoptosis inducing properties of Hyptis suaveolens (L.) seed extracts on Jurkat cells (In preparation).

## > ONGOING RESEARCH PROJECTS

1. Research and innovation on herbal medicine from Oroxyllum indicum (L.) Kurz, Hibiscus sabdariffa L. and Pandanus amaryllifolius Roxb. extracts for anti-hyperlipidemia and its mechanisms of action
2. Antioxidant, anti-inflammatory and beta-cells cytoprotective effect of Phai-jeut extract (Pogonatherum paniceum (Lamk) Hack)

## > ACADEMIC REFEREES

1. Prof. Dr. Griangsak Eumkeb (Ph.D. Thesis supervisor), School of Preclinic, Institute of Science, Suranaree University of Technology, 111 University Avenue, Muang District, Nakhon Ratchasima, 30000, THAILAND. Tel: +66 44-22-4260, Fax: +66 44-22-4206, E-mail: griang@sut.ac.th.
2. Asst. Prof. Dr. Patcharawan Sittisart (Lecturer), Division of Environmental Science, Faculty of Liberal Arts and Science, Sisaket Rajabhat University 319 Taipanta Road, Pho sub-district, Muang district, Sisaket, 33000, THAILAND. Tel: + 66 (0) 94-530-4596, E-mail: patcwan07@gmail.com.
3. Asst. Prof. Dr. Nutchaya Kumrungsee (Lecturer), Biology Department, Faculty of Science and Technology, Rajamangala University of Technology Thanyaburi, Khlong Hok, 12110 THAILAND. Tel: + 66 (0) 61-994-8383, E-mail: Nutchaya\_k@rmutt.ac.th.
4. Dr. Yothin Teethaisong (Lecturer), Department of Biomedical Sciences, Faculty of Allied Health Sciences, Burapha University, Chonburi, 20000, THAILAND. Tel: 084-429-9585, E-mail: teethaisong.y@gmail.com