

## CURRICULUM VITAE



### Professor Dr. Kornkanok INGKANINAN

Department of Pharmaceutical Chemistry and Pharmacognosy  
Faculty of Pharmaceutical Sciences, Naresuan University,  
Phitsanulok 65000, Thailand

#### Position

- Vice president for Research and Innovation Development, Naresuan University
- Professor of Pharmacognosy, Faculty of Pharmaceutical Sciences, Naresuan University
- Vice president of the College of Herbal Pharmacy of Thailand (C.H.P.T.).

#### Education

- 2000: PhD from Division of Pharmacognosy, Leiden University, The Netherlands
- 1994: MPharm (Pharmacognosy) from Chulalongkorn University, Thailand
- 1990: BPharm. from Chulalongkorn University, Thailand

#### Area of Research

- Research and development of Natural Health Products
- Lead finding from natural sources such as AChE inhibitors, PDE-5 inhibitors, antioxidant and antiandrogen
- Phytochemical analysis and quality control of herbal medicines
- Cannabis research for medical purposes

#### Awards

- Naresuan University Research Award 2005, 2009, 2011
- NRCT research award 2014. "The research and development of Brahmi for memory improvement"
- Pharmacist Outstanding Award for the Works on Natural Products 2019 from The Pharmaceutical Association of Thailand Under Royal Patronage.
- Outstanding Research and Innovation Award 2019 The research and development of Brahmi for memory improvement" from The National Research Council of Thailand.

#### Technology transfer experience:

- "Brahmi Food Supplement" to Governmental Pharmaceutical organization (GPO) in 2011.
- "Hair Growth Promotion Products containing Curcuma aeruginosa extract" to SiamNawatra Co Ltd. in 2016.
- "Anti-cellulite Herbal Compress" to Chaopraya Apaiphubet Hospital Foundation in 2019.

#### Publications

**Publications in International journals 174; Scopus citations 4779; Scopus h-index 36**

Some recent publications are listed as follows

1. Saesong T, Allard PM, Queiroz EF, Marcourt L, Nuengchamnon N, Temkitthawon P, Khorana N, Wolfender JL, Ingkaninan K. (2019) Discovery of Lipid Peroxidation Inhibitors from Bacopa Species Prioritized through Multivariate Data Analysis and Multi-Informative Molecular Networking. *Molecules*. 2019 Aug 17;24(16). pii: E2989. doi: 10.3390/molecules24162989.
2. Rabgay K, Waranuch N, Chaiyakunapruk N, Sawangjit R, Ingkaninan K, Dilokthornsakul P. (2019) The effects of cannabis, cannabinoids, and their administration routes on pain control efficacy and safety: A systematic review and network meta-analysis. *J Am Pharm Assoc*. Sep 5. pii: S1544-3191(19)30353-X. doi: 10.1016/j.japh.2019.07.015.
3. Wongwad E, Ingkaninan K, Wisuitiprot W, Sritularak B, Waranuch N. Thermal degradation kinetics and pH-rate profiles of iriflophenone 3,5-C- $\beta$ -d-diglycoside, iriflophenone 3-C- $\beta$ -d-glucoside and mangiferin in *Aquilaria crassna* leaf extract. (2020) *Molecules*. Oct 23;25(21):4898. doi: 10.3390/molecules25214898.
4. Ngamdokmai N, Paracha TU, Waranuch N, Chootip K, Wisuitiprot, W, Suphrom N, Insumrong K, Jampachaisri K, Scholfield CN and Ingkaninan K (2021) Effects of essential oils and some constituents from ingredients of anti-cellulite herbal compress on 3T3-L1 adipocytes and rat aortae. *Pharmaceuticals*. 14(3), 253; <https://doi.org/10.3390/ph14030253>

5. Ngamdokmai N, Waranuch N, Chootip K, Jampachaisri K, Jampachaisri K, Scholfield CN and Ingkaninan K (2021) Efficacy of an anti-cellulite herbal emgel: a randomized clinical trial. *Pharmaceuticals*. 14(3), 683; <https://doi.org/10.3390/ph14070683>
6. Ngamdokmai N, Ingkaninan K, Chaichamnong, N., Chootip K, Neungchamnong N, and Waranuch N (2021) Development, characterization and stability evaluation of the anti-cellulite emgel containing herbal extracts and essential oils. *Pharmaceuticals*. 14, 842; <https://doi.org/10.3390/ph14090842>.
7. Wongwad, E., Ingkaninan, K., Wisuitiprot, W., Waranuch, N. (2021) The fabric facial mask enhanced skin permeation of hydrophilic bioactive compounds in *Aquilaria crassna* leaf extract. *Songklanakarin J. Sci. Technol.* 43 (5),1335–1341
8. Amornopparattanakul, N., Waranuch, N., Lamlerthton, S., Wisuitiprot, W., Ingkaninan, K. (2021) Development of oral cleansing products containing green tea and *Centella asiatica* extracts. *Key Engineering Materials*, 901: 48–54.
9. Wisuitiprot, W., Ingkaninan, K., Jones, S., & Waranuch, N. (2022) Effect of green tea extract loaded chitosan microparticles on facial skin: A split-face, double-blind, randomized placebo-controlled study. *Journal of Cosmetic Dermatology*. doi: 10.1111/jocd.14707.
10. Wisuitiprot, V., Ingkaninan, K., Chakkavittumrong, P., Wisuitiprot, W., Neungchamnong, N., Chantakul, R., Waranuch, N. (2022) Effects of *Acanthus ebracteatus* Vahl. extract and verbascoside on human dermal papilla and murine macrophage. *Scientific Reports*. 12(1):1491. doi: 10.1038/s41598-022-04966-w.
11. Srivilai J, Boonnoun P, Saesong T, Pingyod C, Chaichamnong N, Engsuwan J, Temkitthawon P, Scholfield CN, Nuengchamnong N, Khorana N, Ingkaninan K. (2022) Phenanthrene-enriched extract from *Eulophia macrobulbon* using subcritical dimethyl ether for phosphodiesterase-5A1 inhibition. *Scientific Reports*. 12(1):5992. doi: 10.1038/s41598-022-08553-x
12. Kongkadee, K., Wisuitiprot, W., Ingkaninan, K., & Waranuch, N. (2022). Anti-inflammation and Gingival Wound Healing Activities of *Cannabis sativa* L. subsp. *sativa* (hemp) Extract and Cannabidiol: An in vitro Study. *Archives of Oral Biology*, 105464.
13. Puaratanaarunkon, T., Sittisaksomjai, S., Sivapornpan, N., Pongcharoen, P., Chakkavittumrong, P., Ingkaninan, K., ... & Asawanonda, P. (2022). Topical Cannabidiol-Based Treatment for Psoriasis: A Dual-Center Randomized Placebo-Controlled Study. *Journal of the European Academy of Dermatology and Venereology: JEADV*.
14. Aristyan, A. D., Setyaningtyas, V. F., Wahyuni, T. S., Widyawaruyanti, A., Ingkaninan, K., & Suciati, S. (2022). In vitro acetylcholinesterase inhibitory activities of fractions and iso-agelasine C isolated from the marine sponge *Agelas nakamurai*. *Journal of Research in Pharmacy*, 26(2), 279-286.
15. Insumrong, K., Ingkaninan, K., Waranuch, N., Tanuphol, N., Wisuitiprot, W., Promgool, T., & Suphrom, N. (2022). Isolation and HPLC quantitative determination of 5 $\alpha$ -reductase inhibitors from *Tectona grandis* Lf leaf extract. *Molecules*, 27(9), 2893.
16. Choonong, R., Chaingam, J., Chantakul, R., Mukda, S., Temkitthawon, P., Ingkaninan, K., ... & Putalun, W. (2022). Phosphodiesterase 5 inhibitory activity of the canthin-6-one alkaloids and roots from *Eurycoma longifolia* and *Eurycoma harmandiana*. *Chemistry & Biodiversity*.
17. Wisuitiprot, V., Ingkaninan, K., Chakkavittumrong, P., Wisuitiprot, W., Neungchamnong, N., Chantakul, R., & Waranuch, N. (2022). Effects of *Acanthus ebracteatus* Vahl. extract and verbascoside on human dermal papilla and murine macrophage. *Scientific Reports*, 12(1), 1491.
18. Ngamdokmai, N., Ingkaninan, K., Scholfield, C. N., Insumrong, K., Neungchamnong, N., Minale, G., & Warinhomhoun, S. (2022). A Thai Traditional Triple-Fruit Formulation “Phikud Tri-Phon” May Provide Fat Loss and Nutritional Benefits. *Foods*, 11(19), 3067.

19. Wisuitiprot, V., Ingkaninan, K., Wisuitiprot, W., Srivilai, J., Chakkavittumrong, P., & Waranuch, N. (2022). Effects of some medicinal plant extracts on dermal papilla cells. *Journal of Cosmetic Dermatology*, 21(11), 6109-6117.
20. Nuengchamnong, N., Saesong, T., Ingkaninan, K., & Wittaya-areekul, S. (2023). Antioxidant activity and chemical constituents identification by LC-MS/MS in bio-fermented fruit drink of *Morinda citrifolia* L. *Trends in Sciences*, 20(4), 6498-6498.
21. Jaipea, S., Saehlim, N., Sutcharitruk, W., Athipornchai, A., Ingkaninan, K., & Saeeng, R. (2023). Synthesis of piperine analogues as AChE and BChE inhibitors for the treatment of Alzheimer's disease. *Phytochemistry Letters*, 53, 216-221.
22. Rohman, A., Indrayanto, G., & Ingkaninan, K. (2022). Development, assessment, improvement, and standardization of methods in herbal drug research. *Development, assessment, improvement, and standardization of methods in Herbal Drug Research*, 1, 4.
23. Chatturong, U., Chootip, K., Martin, H., Tournier-Nappey, M., Ingkaninan, K., Temkitthawon, P., ... & Demougeot, C. (2023). The new quinazoline derivative (N2-methyl-N4-[(thiophen-2-yl) methyl] quinazoline-2, 4-diamine) vasodilates isolated mesenteric arteries through endothelium-independent mechanisms and has acute hypotensive effects in Wistar rats. *European Journal of Pharmacology*, 17582.
24. Pho-on, P., Sudsaward, S., Wongwad, E., Ingkaninan, K., & Khunchai, S. (2023). *Aquilaria crassna* leaf extract selectively upregulated calreticulin surface expression, a pro-phagocytotic signal, in triple-negative breast cancer cells. *Naresuan University Journal: Science and Technology (NUJST)*, 31(2), 42-55.
25. Panklai, T., Suphrom, N., Temkitthawon, P., Totoson, P., Chootip, K., Yang, X. L., ... & Girard, C. (2023). Phosphodiesterase 5 and Arginase Inhibitory Activities of the Extracts from Some Members of *Nelumbonaceae* and *Nymphaeaceae* Families. *Molecules*, 28(15), 5821.