

Kantaporn Kheawfu, Ph.D.

Curriculum Vitae



Department of
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Education

- 2011-2017 Doctor of Philosophy (Nanoscience and Nanotechnology)
The Graduate School, Chiang Mai University
- 2006-2010 Bachelor of Pharmacy
Faculty of Pharmacy, Chiang Mai University

Academic employment

- 2020-Present Lecturer, Department of Pharmaceutical Sciences, Faculty of Pharmacy, Chiang Mai University
- 2017-2019 Lecturer, Department of Pharmaceutical Chemistry and Natural Medicine, Faculty of Pharmacy, Payap University

Areas of expertise

- Lipid-based drug delivery systems (microemulsions, nanoemulsions, self-nano emulsifying drug delivery systems (SNEDDS))
- Drug discovery and development
- Phytomedicine

Publications

1. Naksuriya, O., Nitthikan, N., Supadej, K., **Kheawfu, K.**, Khonkarn, R., Ampasavate, C., Intasai, N., Monton, C., Kiattisin, K. (2023) Approach for Development of Topical Ketoconazole-Loaded Microemulsions and Its Antifungal Activity. *Trends in Sciences*. 20 (12):7046-7046.
2. Chaiwaree, S., Srilai, K., **Kheawfu, K.**, Thammasit, P. (2023) Antibacterial activities of oral care products containing natural plant extracts from the Thai Highlands against *Staphylococcus aureus*: evaluation and satisfaction studies. *Processes*. 11(9):2768.
3. Chittasupho, C., Chaobankrang, K., Sarawungkad, A., Samee, W., Singh, S., Hemsuwimon, K., Okonogi, S., **Kheawfu, K.**, Kiattisin, K., Chaiyana, W. (2023). Antioxidant, anti-inflammatory and

- attenuating intracellular reactive oxygen species activities of *Nicotiana tabacum* var. *virginia* leaf extract phytosomes and shape memory gel formulation. *Gels*. 9: 78.
4. Prommaban, A., **Kheawfu, K.**, Chittasupho, C., Sirilun, S., Hemsuwimon, K., Chaiyana, W. (2023). Phytochemical, antioxidant, antihyaluronidase, antityrosinase, and antimicrobial properties of *Nicotiana tabacum* L. leaf extracts. *Evid.-based Complement. Altern. Med.* 2022: 5761764.
 5. **Kheawfu, K.**, Panraksa, P, Jantrawut, P. (2022). Formulation and characterization of nicotine microemulsion-loaded fast-dissolving films for smoking cessation. *Molecules*. 27(10): 1366.
 6. Pugazhendhi, A., Mathimani, T., Alharbi, SA., Chinnathambi, A., Karuppusamy, I., Brindhadevi, K., **Kheawfu, K.**, Pikulkaew, S. (2022). In vitro efficacy of green synthesized ZnO nanoparticles against biofilm and virulence of *Serratia marcescens*. *Prog. Org. Coat.* 166: 106781.
 7. **Kheawfu, K.**, Kaewpinta, A., Chanmahasathien, W., Rachtanapun, P., Jantrawut, P. (2021). Extraction of nicotine from tobacco leaves and development of fast dissolving nicotine extract film. *Membranes*. 11(6): 403.
 8. **Kheawfu, K.**, Pikulkaew, S., Rades, T., Müllertz, A., Jørgensen, LvG., Okonogi, S. (2020). Design and optimization of self-nanoemulsifying drug delivery systems of clove oil for efficacy enhancement in fish anesthesia. *J. Drug. Deliv. Sci. Technol.* 61: 102241.
 9. **Kheawfu, K.**, Pikulkaew, S., Rades, T., Müllertz, A., Okonogi, S. (2018). Development and characterization of clove oil nanoemulsions and self-microemulsifying drug delivery systems. *J. Drug. Deliv. Sci. Technol.* 46: 330-338.
 10. **Kheawfu, K.**, Pikulkaew, S., Chaisri, W., Okonogi, S. (2017). Nanoemulsion: A suitable nanodelivery system of clove oil for anesthetizing Nile tilapia. *Drug. Discov. Ther.* 11(4):181-185.
 11. **Kheawfu, K.**, Pikulkaew, S., Hamamoto, H., Sekimizu, K., Okonogi, S. (2017). Influence of clove oil and eugenol on muscle contraction of silkworm (*Bombyx mori*). *Drug. Discov. Ther.* 11(2):64-69.
 12. Okonogi, S., **Kheawfu, K.**, Holzer, W., Unger, F.M., Viernstein, H., Mueller, M. (2016). Anti-inflammatory effects of compounds from *Polygonum odoratum*. *Nat. Prod. Commun.* 11 (11): 1651-1654.
 13. Mueller, M., **Janngon***, K., Puttipan, R., Unger, F.M., Viernstein, H., Okonogi, S. (2015). Anti-inflammatory, antibacterial, and antioxidant activities of Thai medicinal plants. *Int. J. Pharm. Pharm. Sci.*, 7(11): 123-128.
 14. Mueller, M., Puttipan, R., **Janngon***, K., Unger, F.M., Viernstein, H., Okonogi, S. (2015). Bioactivities of the Thai medicinal and edible plants *C. cajan*, *M. citrifolia*, and *O. americanum*. *Int. J. Pharm. Pharm. Sci.*, 7(10): 237-240.

* **Janngon** is previous surname.

Patents

- Clove oil loaded nanoemulsions for fish anesthesia (no. 87699)
- Clove oil loaded microemulsions for fish anesthesia (pending patent, no. 1501001410)