



Curriculum Vitae

Institute of Nutrition, Mahidol University (INMU)

999 Phutthamonthon 4 Rd., Salaya, Phutthamonthon

Name Wisuwat Thongphichai

E-mail address wisuwat.tho@mahidol.ac.th

Current position Lecturer

Education

2013 – 2018 Ph.D. (Chemistry), Faculty of Science, Mahidol University, Thailand

2009 – 2012 B.Sc. (Chemistry), Faculty of Science, Mahidol University, Thailand

Research Interest and Expertise

1. Isolation and structure elucidation of bioactive secondary metabolites from medicinal herbs
2. Development and validation of chromatographic analysis for medicinal herbs

Research Experiences

- Postdoctoral Researcher, Department of Pharmacognosy and Pharmaceutical Botany, Faculty of Pharmaceutical Sciences, Chulalongkorn University; Supervisor: Prof. Suchada Sukrong

Training

- Chemical safety for research students and researchers, Center for Safety, Health and Environment, Chulalongkorn University
- Start Innovation-Driven Enterprise & Spin Innovation-Driven Enterprise (STARTIDEs & SPINIDEs) Program #1, supported by Program Management Unit for Human Resources & Institutional Development, Research and Innovation (PMU-B)

Publications

International

1. Nwe SY, Uttarawichien T, Boonsom T, **Thongphichai W**, Wasana PWD, Sritularak B, Payuhakrit W, Sukrong S, Towiwat P. Bioassay-guided isolation of two antiproliferative metabolites from *Pterocarpus indicus* Willd. against TGF- β -induced prostate stromal cells (WPMY-1) proliferation via PI3K/AKT signaling pathway. *Front Pharmacol.* 2024;15:1452887. Published 2024 Oct 3. doi:10.3389/fphar.2024.1452887



Curriculum Vitae

Institute of Nutrition, Mahidol University (INMU)

999 Phutthamonthon 4 Rd., Salaya, Phutthamonthon

2. Hasriadi H, Wasana PWD, **Thongphichai W**, Sukrong S, Towiwat P. Exploring the safety of lycorine in the central nervous system and its impact on pain-like behaviors in mice. *Sci Rep.* 2024;14(1):16856. Published 2024 Jul 22. doi:10.1038/s41598-024-64410-z
3. Jayashan SS, Darai N, Rungrotmongkol T, Dasuni Wasana PW, Nwe SY, **Thongphichai W**, Suriyakala G, Towiwat P, Sukrong S. Exploring the Therapeutic Potential of Spilanthol from *Acmella paniculata* (Wall ex DC.) R. K. Jansen in Attenuating Neurodegenerative Diseases: A Multi-Faceted Approach Integrating In Silico and In Vitro Methodologies. *Applied Sciences.* 2024; 14(9):3755. <https://doi.org/10.3390/app14093755>
4. Hasriadi, Dasuni Wasana PW, Thongphichai W, Samun Y, Sukrong S, Towiwat P. *Curcuma latifolia* Roscoe extract reverses inflammatory pain in mice and offers a favorable CNS safety profile. *J Ethnopharmacol.* 2024;318(Pt A):116877. doi:10.1016/j.jep.2023.116877
5. **Thongphichai W**, Pongkittiphan V, Laorpaksa A, Wiwatcharakornkul W, Sukrong S. Antimicrobial Activity against Foodborne Pathogens and Antioxidant Activity of Plant Leaves Traditionally Used as Food Packaging. *Foods.* 2023; 12(12):2409. <https://doi.org/10.3390/foods12122409>
6. Hasriadi, Jongchanapong A, **Thongphichai W**, et al. Antinociceptive efficacy of *Clerodendrum petasites* S. Moore, a Thai medicinal plant, and its CNS safety profiles. *J Tradit Complement Med.* 2022;13(1):81-92. Published 2022 Nov 12. doi:10.1016/j.jtcme.2022.11.001
7. **Thongphichai W**, Uttarawichien T, Chanvorachote P, et al. Standardization of the ethanolic extract of *Crinum latifolium* leaves by two bioactive markers with antiproliferative activity against TGF- β -promoted prostate stromal cells (WPMY-1). *BMC Complement Med Ther.* 2022;22(1):139. Published 2022 May 18. doi:10.1186/s12906-022-03617-x
8. **Thongphichai W**, Tuchinda P, Pohmakotr M, et al. Anti-HIV-1 activities of constituents from the rhizomes of *Boesenbergia thorelii*. *Fitoterapia.* 2019;139:104388. doi:10.1016/j.fitote.2019.104388