

Natthakarn Chiranthanut

PROFILE

Name : Natthakarn Chiranthanut

Academic Position : Associate Professor

Degree : Ph.D. (Pharmacology) from Chiang Mai University, Thailand

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EDUCATION

1990	B.Sc. (Nursing)	Payap University, Chiang Mai, Thailand
2001	M.Sc. (Pharmacology)	Chiang Mai University, Chiang Mai, Thailand
2006	Ph.D. (Pharmacology)	Chiang Mai University, Chiang Mai, Thailand

WORK EXPERIENCES

2001	Lecturer	Department of Pharmacology, Faculty of Medicine, Chiang Mai University
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FUNDING

2009	Subchronic toxicity study of spores and the water extract of <i>Ganoderma lucidum</i> (Fr.) Karst.	สำนักงานบริหารกองทุนภูมิปัญญา การแพทย์แผนไทย กรมพัฒนาการแพทย์ แผนไทยและการแพทย์ทางเลือก
2013	Anti-inflammatory, analgesic, antipyretic activities and toxicity studies of Thai herbal recipe "Chantaharutai	สำนักงานบริหารกองทุนภูมิปัญญา การแพทย์แผนไทย กรมพัฒนาการแพทย์ แผนไทยและการแพทย์ทางเลือก
2017	Anti-inflammatory Screening of the Plant Extract From PERCH-CIC members and students	PERCH-CIC
2019	Chronic Oral Toxicity Studies of the Extract of <i>Cordyceps militaris</i> in rats	กรมหม่อนไหม
2019	Anti-inflammatory Screening of the Plant Extract From PERCH-CIC members and students	PERCH-CIC
2019	Anti-inflammatory and Antiulcer Effects of Pikad Tri-phol-sa-mut-than herbal remedy	Faculty of Medicine, CMU
2021	Anti inflammatory effect and acute toxicity of the extract from <i>Basella alba</i>	Faculty of Medicine, CMU
2023	Evaluation of Antiulcerogenic Effect and Acute Oral Toxicity of the Herbal Formulation Extracts	Twinlotus Company Limited
2023	Anti inflammatory and Antiulcerogenic Effects of <i>Terminalia catappa</i> L. Leaf Extract	Faculty of Medicine, CMU

2024	Acute and Subacute Toxicity	กรมหม่อนไหม
	Study of Silk Powder in Rats	
2024	Anti-inflammatory Screening	PERCH-CIC
	of the Plant Extract From	
	PERCH-CIC members and	
	students (Year 2024)	
2025	Protective potential of	Fundamental Fund; FF
	apigenin against cisplatin	
	toxicities in rats	

PUBLICATION

1. Yubolphan R, Kobroob A, Kongkaew A, **Chiranthanut N**, Jinadang N, Wongmekiat O. Berberine Mitigates Sepsis-Associated Acute Kidney Injury in Aged Rats by Preserving Mitochondrial Integrity and Inhibiting TLR4/NF-**KB** and NLRP3 Inflammasome Activations. *Antioxidants (Basel)*. 2024 Nov 15;13(11):1398. doi: 10.3390/antiox13111398.
2. Risangud N, Jangpromma N, Kunnaja P, **Chiranthanut N**, Daduang S, Chansaenpak K, Yubolphan R. Enhancing the therapeutic efficacy of piperine in colorectal cancer: development and evaluation of piperine-loaded PLGA-b-PEG copolymer nanoparticles. *Eur J Pharm Biopharm*. 2025 Sep;214:114796. doi: 10.1016/j.ejpb.2025.114796.
3. Tan B, **Chiranthanut N**, Chansakaow S, Sireeratawong S, Khonsung P, Nimlamool W, Takuathung MN, Lertprasertsuke N. Gastroprotective effects of Pikad Tri-phol-sa-mut-than herbal remedy on multiple gastric ulcer models in rats. *Heliyon*. 2023;9(8):e19297. doi: 10.1016/j.heliyon.2023.e19297.
4. Poonasri M, Mankhong S, **Chiranthanut N**, Srisook K. 4-methoxycinnamyl p-coumarate reduces neuroinflammation by blocking NF-**KB**, MAPK, and Akt/GSK-

- 3β pathways and enhancing Nrf2/HO-1 signaling cascade in microglial cells. Biomed Pharmacother. 2023;168:115808. doi: 10.1016/j.biopha.2023.115808.
5. Tan B, **Chiranthanut N**, Chansakaow S, Sireeratawong S, Khonsung P, Nimlamool W, Takuathung MN, Lertprasertsuke N. Anti-inflammatory effects of Pikad Tri-phol-sa-mut-than remedy, consisting of dried fruits of *Aegle marmelos* (L.) Corrêa, *Coriandrum sativum* L., and *Morinda citrifolia* L. J Ethnopharmacol. 2022;115639. doi: 10.1016/j.jep.2022.115639.
 6. Kongdang P, Ongchai S, **Chiranthanut N**, Pruksakorn D. Anti-arthritis Effects of Zingiberaceae Extracts on Models of Inflammatory Joint Disease. Planta Med. 2023. doi: 10.1055/a-2044-9129.
 7. **Chiranthanut N**, Lertprasertsuke N, Srisook E, Srisook K. Acute and subchronic oral toxicity assessment of extract from *Etligeria pavieana* rhizomes. Toxicology Reports. 2022;9:1472-1483. doi.org/10.1016/j.toxrep.2022.07.005.
 8. **Chiranthanut N**, Lertprasertsuke N, Srisook E, Srisook K. Anti-inflammatory effect and acute oral toxicity of 4-methoxycinnamyl p-coumarate isolated from *Etligeria pavieana* rhizomes in animal models. J Appl Pharm Sci 2021;11(10): 024-028.
 9. Tonchaiyaphum P, Arpornchayanon W, Khonsung P, **Chiranthanut N**, Pitchakarn P, Kunanusorn P. Gastroprotective Activities of Ethanol Extract of Black Rice Bran (*Oryza sativa* L.) in Rats. Molecules. 2021 Jun 22;26(13):3812. doi: 10.3390/molecules26133812.
 10. Ongchai S, **Chiranthanut N**, Tangyuenyong S, Viriyakhasem N, Kongdang P. *Kaempferia parviflora* Extract Alleviated Rat Arthritis, Exerted Chondroprotective Properties *In Vitro*, and Reduced Expression of Genes Associated with Inflammatory Arthritis. Molecules. 2021;26(6):1527. doi: 10.3390/molecules26061527.
 11. Rachsee A, **Chiranthanut N**, Kunnaja P, Sireeratawong S, Khonsung P, Chansakaow S, Panthong A. *Mucuna pruriens* (L.) DC. seed extract inhibits lipopolysaccharide-induced inflammatory responses in BV2 microglial cells. J Ethnopharmacol. 2021; 267:113518.

12. Koonrungsomboon N, Nopnithipat S, Teekachunhatean S, **Chiranthanut N**, Sangdee C, Chansakaow S, Tipduangta P, Hanprasertpong N. Clinical Efficacy and Safety of Thai Herbal Formulation-6 in the Treatment of Symptomatic Osteoarthritis of the Knee: A Randomized-Controlled Trial. *Evid Based Complement Alternat Med.* 2020;2020:8817374. doi: 10.1155/2020/8817374. eCollection 2020.
13. Khonsung Parirat, **Chiranthanut N**, Panthong A, Chansakaow S, Sintahphuak I, Sireeratawong S. Acute and Ninety-day Oral Toxicity of the Water Extract from the Fresh Leaves of *Pseuderanthemum palatiferum* in Rats. *CMU J. Nat. Sci.* 2020. 19(4): 983-996.
14. **Chiranthanut N**, Teekachunhatean S, Panthong A, Lertprasertsuke N. Acute and chronic oral toxicity assessment of longan sugar extracts derived from whole fruit and from fruit pulp in rats. *J Ethnopharmacol.* 2020;263:113184.
15. Laprasert C, Kuanusorn P, Panthong A, Khonsung P, **Chiranthanut N**, Rujjanawate C. Gastric ulcer healing activity against acidified ethanol-induced gastric ulcer and gastroprotective mechanisms of *Zingiber simaoense* rhizome ethanol extract in rats. *Pharmacognosy Magazine.* 2020. 16(68):152. 10.4103/pm.pm_389_19.
16. Panthong K, Hongthong S, Kuhakarn C, Piyachaturawat P, Suksen K, Panthong A, **Chiranthanut N**, Kongsaree P, Prabpai S, Nuntasaeen N, Reutrakul V. Pyranonaphthoquinone and anthraquinone derivatives from *Ventilago harmandiana* and their potent anti-inflammatory activity. *Phytochemistry.* 2020;169:112182. doi: 10.1016/j.phytochem.2019.112182.
17. Panthong K, Hongthong S, Kuhakarn C, Piyachaturawat P, Suksen K, Panthong A, **Chiranthanut N**, Kongsaree P, Prabpai S, Nuntasaeen N, Reutrakul V. Pyranonaphthoquinone and anthraquinone derivatives from *Ventilago harmandiana* and their potent anti-inflammatory activity. *Phytochemistry.* 2020. 169:112182. doi: 10.1016/j.phytochem.2019.112182.
18. Srisook K, Mankhong S, **Chiranthanut N**, Kongsamak K, Kitwiwat N, Tongjurai P, Aramsangtienchai P. Anti-inflammatory effect of trans-4-

methoxycinnamaldehyde from *Etilingera pavieana* in LPS-stimulated macrophages mediated through inactivation of NF-**KB** and JNK/c-Jun signaling pathways and in rat models of acute inflammation. *Toxicol Appl Pharmacol.* 2019. 371:3-11.

19. Inchab K, Khonsung P, **Chiranthanut N**, Kuananusorn P, Potikanond S, Chansakaow S, Panthong A, Sireeratawong S. Anti-gastric ulcer activity of the water extract from Payawanorn (*Pseuderanthemum palatiferum*). *J Health Sci Med Res.* 2018. 36(2):89-95.
20. Inchab K, Khonsung P, **Chiranthanut N**, Kuananusorn P, Panthong A, Sireeratawong S. Evaluation of anti-inflammatory, analgesic, and antipyretic activities of *Pseuderanthemum palatiferum*. *CMU J Nat Sci.* 2019;18(3):393-407.
21. Na Takuathung M, Wongnoppavich A, Panthong A, Khonsung P, **Chiranthanut N**, Soonthornchareonnon N, Sireeratawong S. Antipsoriatic Effects of Wannachawee Recipe on Imiquimod-Induced Psoriasis-Like Dermatitis in BALB/c Mice. *Evidence-Based Complementary and Alternative Medicine.* 2018;2018:7931031.
22. Na Takuathung M, Wongnoppavich A, Pitchakarn P, Panthong A, Khonsung P, **Chiranthanut N**, Soonthornchareonnon N, Sireeratawong S. Effects of Wannachawee Recipe with antipsoriatic activity on suppressing inflammatory cytokine production in HaCaT human keratinocytes. *Evid Based Complement Alternat Med.* 2017;2017:5906539.
23. Tawasri P, Ampasavate C, Tharatha S, **Chiranthanut N**, Teekachunhatean S. Effect of oral coadministration of ascorbic acid with Ling Zhi preparation on pharmacokinetics of ganoderic acid A in healthy male subjects: A randomized crossover study. *Biomed Res Int.* 2016;2016:2819862.
24. Baiubon P, Kuananusorn P, Khonsung P, **Chiranthanut N**, Panthong A, Rujjanawate C. Gastroprotective activity of the rhizome ethanol extract of *Zingiber simaoense* Y. Y. Qian in rats. *J Ethnopharmacol.* 2016;194:571-576.
25. Wannasiri S, Jaijoy K, **Chiranthanut N**, Soonthornchareonnon N, Sireeratawong S. Effect of Tri-sa-maw recipe on gastrointestinal regulation and motility. *J Med Assoc Thai.* 2015;98 Suppl 2:S1-7.

26. Jearasakulpol V, Tipduangta P, Teekachunhatean S, **Chiranthanut N**, Chansakaow S. Development of a tablet of Liu Wei Di Huang extract. *Int J Pharm Pharm Sci*. 2015;7(7):275-281.
27. Potikanond S, **Chiranthanut N**, Khonsung P, Teekachunhatean S. Cytotoxic Effect of *Coscinium fenestratum* on Human Head and Neck Cancer Cell Line (HN31). *Evid Based Complement Alternat Med*. 2015;2015: 701939.
28. Kunnaja P, **Chiranthanut N**, Kuananusorn P, Khonsung P, Wongnoppavich A, Panthong A. Evaluation of gastroprotective potential of the ethanol extract from *Murdannia loriformis* in rats. *IJARNP*. 2015; 8(1):34-41.
29. Autsavakitipong T, Khonsung P, Panthong A, **Chiranthanut N**, Kuananusorn P, Nuntasaeen N, Jaipetch T, Bunteang S, Reutrakul V. Preliminary evaluation of the analgesic and anti-inflammatory effects of *Tacca integrifolia* in rodents. *IJARNP*. 2015; 8(1):19-25.
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31. **Chiranthanut N**, Hanprasertpong N, Teekachunhatean S. Thai massage, and Thai herbal compress versus oral ibuprofen in symptomatic treatment of osteoarthritis of the knee: a randomized controlled trial. *Biomed Res Int*. 2014;2014:490512.
32. **Chiranthanut N**, Teekachunhatean S, Panthong A, Khonsung P, Kanjanapothi D, Lertprasertsuk N. Toxicity evaluation of standardized extract of *Gynostemma pentaphyllum* Makino. *J Ethnopharmacol*. 2013;149(1):228-34.
33. Seangphakdee P, Pompimon W, Meepowpan P, Panthong A, **Chiranthanut N**, Banjerdpongchai R, Wudtiwai B, Nuntasaeen N, Pitchuanom S. Anti-inflammatory and anticancer activities of (-)-zeylenol from stems of *Uvaria grandiflora*. *Sci Asia*. 2013; 39:610-614.

34. Sireeratawong S, **Chiranthanut N**, Nanna U, Lertprasertsuke N, Srithiwong S, Soonthornchareonnon N, Jaijoy K. Acute and subchronic toxicity of Chantaleela recipe in rats. *Afr J Tradit Complement Altern Med*. 2012;10(1):128-133.
35. Sireeratawong S, Nanna U, Vannasiri S, **Chiranthanut N**, Srithiwong S, Subcharoen P, Termwiset P, Tungsukruthai P, Chuthaputti A, Jaijoy K. Acute and subchronic toxicity study of tud-rak-ka-sai-puu recipe in rats. *Afr J Tradit Complement Altern Med*. 2012;10(1):142-148.
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38. Khonsung P, Panthong A, **Chiranthanut N**, Intahphuak S. Hypotensive effect of the water extract of the leaves of *Pseuderanthemum palatiferum*. *J Nat Med* 2011; 65(3-4): 551-8.
39. Panunto W, Jaijoy K, Lerdvuthisopon N, Lertprasertsuke N, **Chiranthanut N**, Soonthornchareonnon N, Sireeratawong S. Acute and chronic toxicity studies of the water extract from dried fruits of *Terminalia chebula* Rezt. in rats. *International Journal of Applied Research in Natural Products* 2010; 3 (4): 36-43.
40. Panthong A, Thammasri K, **Chiranthanut N**, Khonsung P, Nuntasaeen N, Jaitheerapapkul S, Reutrakul V. Anti-inflammatory, analgesic and antipyretic effects of the methanol extract from *Bauhinia siamensis* K. & S.S. Larsen. *Thai J Pharmacol* 2009; 31(2): 15-24.
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42. Panthong A, Pangaoop R, Khonsung P, **Chiranthanut N**, Nuntasaeen N, Jaitheerapapakul S, Reutrakul V. Anti-inflammatory and analgesic effects of the methanol extract from *Garcinia Wallichii* Choisy in animal models. Chiang Mai Med J 2009; 48(3): 105-15.
43. **Chiranthanut N** (Wongcome T), Panthong A, Jesadanont S, Kanjanapothi D, Taesotikul T, Lertprasertsuke N. Hypotensive effect and toxicology of the extract from *Coscinium fenestratum* (Gaertn.) Colebr. J Ethnopharmacol 2007; 111(3): 468-75.
44. Panthong A, Kanjanapothi D, Taesotikul T, **Chiranthanut N** (Wongcome T), Reutrakul V. Anti-inflammatory and antipyretic properties of *Clerodendrum petasites* S. Moore. J Ethnopharmacol. 2003;85(1):151-6.