

Curriculum Vitae

Patiwat Kongdang, Ph.D.

Position	Lecturer
Affiliation	Department of Biochemistry, Faculty of Medicine, Srinakharinwirot University, Bangkok 10110, Thailand patiwat@g.swu.ac.th
Education	
2013–2020	Doctor of Philosophy (Biochemistry), Faculty of Medicine, Chiang Mai University, Thailand; GPA 4.00
2009–2012	Bachelor of Science (Medical Technology), Faculty of Associated Medical Sciences, Chiang Mai University, Thailand; GPA 3.71 (First honor)
Area of expertise	1. Inflammatory joint diseases 2. Natural products

Publications

1. **Kongdang P**, Ongchai S, Chiranthanut N, Pruksakorn D. Anti-arthritis Effects of Zingiberaceae Extracts on Models of Inflammatory Joint Disease. *Planta Med.* 2023; 89(9): 890-902.
2. Tangyuenyong S, **Kongdang P**, Sirikaew N, Ongchai S. First study on the effect of transforming growth factor beta 1 and insulin-like growth factor 1 on the chondrogenesis of elephant articular chondrocytes in a scaffold-based 3D culture model. *Veterinary World.* 2022; 15 (7): 1869-79.
3. **Kongdang P**, Pruksakorn D, Koonrungsesomboon N. Preclinical experimental models for assessing laxative activities of substances/products under investigation: a scoping review of the literature. *Am J Transl Res.* 2022; 14 (2): 698-717.
4. Klangjorhor J, Pongnikorn D, Sittiju P, Phanphaisarn A, Chaiyawat P, Teeyakasem P, **Kongdang P**, Moonmuang S, Waisri N, Daoprasert K, Wisanuyotin T, Santong C, Sithikong S, Tuntarattanapong P, Prechawittayakul P, Pruksakorn D. Descriptive epidemiology of soft tissue sarcomas and gastrointestinal stromal tumors in Thailand. *Sci Rep.* 2022; 12 (1): 12824.
5. 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).
6. **Kongdang P**, Dukaew N, Pruksakorn D, Koonrungsesomboon N. Biochemistry of *Amaranthus*

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- polyphenols and their potential benefits on gut ecosystem: A comprehensive review of the literature. *J Ethnopharmacol.* 2021; 281: 114547.
7. Ongchai S, Chokchaitaweek C, **Kongdang P**, Chomdej S, Buddhachat K. *In vitro* chondroprotective potential of *Senna alata* and *Senna tora* in porcine cartilage explants and their species differentiation by DNA barcoding-high resolution melting (Bar-HRM) analysis. *PLoS One.* 2019; 14 (4): e0215664.
 8. Kuensaen C, Chomdej S, **Kongdang P**, Sirikaew N, Jaitham R, Thonghoi S, Ongchai S. LL-37 alone and in combination with IL17A enhances proinflammatory cytokine expression in parallel with hyaluronan metabolism in human synovial sarcoma cell line SW982-A step toward understanding the development of inflammatory arthritis. *PLoS One.* 2019; 14 (7): e0218736.
 9. **Kongdang P**, Jaitham R, Thonghoi S, Kuensaen C, Pradit W, Ongchai S. Ethanolic extract of *Kaempferia parviflora* interrupts the mechanisms-associated rheumatoid arthritis in SW982 culture model via p38/STAT1 and STAT3 pathways. *Phytomedicine.* 2019; 59: 152755.
 10. **Kongdang P**, Chokchaitaweek C, Tangyuenyong S, Ongchai S. Proinflammatory effects of IL-1beta combined with IL-17A promoted cartilage degradation and suppressed genes associated with cartilage matrix synthesis *in vitro*. *Molecules.* 2019; 24 (20).
 11. Ongchai S, Somnoo O, **Kongdang P**, Peansukmanee S, Tangyuenyong S. TGF-beta1 upregulates the expression of hyaluronan synthase 2 and hyaluronan synthesis in culture models of equine articular chondrocytes. *J Vet Sci.* 2018; 19 (6): 735-43.
 12. Ruangsuriya J, Budprom P, Viriyakhasem N, **Kongdang P**, Chokchaitaweek C, Sirikaew N, Chomdej S, Nganvongpanit K, Ongchai S. Suppression of cartilage degradation by zingerone involving the p38 and JNK MAPK signaling pathway. *Planta Med.* 2017; 83 (3-04): 268-76.

Scholarships

2022	CMU Presidential Scholarship, Post-doctoral Fellowship 2022
2021	CMU Presidential Scholarship, Post-doctoral Fellowship 2021
2015–2019	Thailand Research Fund - Research and Researchers for Industries (TRF-RRI)
2013–2014	Faculty of Medicine Research Fund, Chiang Mai University, Thailand

Certification

1. **Medical Technologist license**, The Medical Technology Council, Thailand, renewal in 2023
2. **Human Research - Data or Specimens Only Research**, Massachusetts Institute of Technology Affiliates, Collaborative Institutional Training Initiative (CITI), 2023, Record ID:

53135387

3. **Animal Use License for scientific purposes**, Institute of Animals for Scientific Purposes Development (IAD), National Research Council of Thailand (NRCT), Thailand, 2022, Cert ID: U1-10154-2565
4. **The practice workshop of Biosafety Management**, National Research Council of Thailand (NRCT), Thailand, 2018
5. **The workshop of Laboratory Safety Management**, National Research Council of Thailand (NRCT), Thailand, 2017
6. **The training of Ethics in Research Conducting and Dissemination of Academic Work**, Information Technology Service Center (ITSC), Chiang Mai University, Thailand, 2016

Presentation and Awards

1. **Outstanding award of presentation:** The 17th Annual Biochemical Research Meeting, 2019; Department of Biochemistry, Faculty of Medicine, Chiang Mai University, Thailand
2. Participation in the 17th Annual Biochemical Research Meeting, July 2019; Department of Biochemistry, Chiang Mai University, Chiang Mai, Thailand
3. Participation in the 16th Annual Biochemical Research Meeting, July 2018; Department of Biochemistry, Chiang Mai University, Chiang Mai, Thailand
4. **Oral presentation:** The 4th International conference on Agricultural and Biological Sciences (ABS2018), June 2018; Hangzhou, Zhejiang Province, China
5. **Outstanding award of presentation:** The 15th Annual Biochemical Research Meeting, July 2017; Department of Biochemistry, Faculty of Medicine, Chiang Mai University, Thailand
6. **Popular vote of presentation:** The 15th Annual Biochemical Research Meeting, July 2017; Department of Biochemistry, Faculty of Medicine, Chiang Mai University, Thailand
7. Participation in the 15th Annual Biochemical Research Meeting, July 2017; Department of Biochemistry, Chiang Mai University, Chiang Mai, Thailand
8. **Popular vote of presentation:** The 14th Annual Biochemical Research Meeting, July 2016; Department of Biochemistry, Faculty of Medicine, Chiang Mai University, Thailand
9. Participation in the 14th Annual Biochemical Research Meeting, July 2016; Department of Biochemistry, Chiang Mai University, Chiang Mai, Thailand
10. Participation in the 13th Annual Biochemical Research Meeting, July 2015; Department of Biochemistry, Chiang Mai University, Chiang Mai, Thailand