

CHAWIN KORSIRIKOON

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RESEARCH INTERESTS

My research focuses on the translational impact of nutrients, foods, and herbal medicines on human health. I specifically investigate their role in the prevention of non-communicable diseases (NCDs), particularly cancer and metabolic disease, while also exploring their effects on cellular senescence and aging, using established animal and cellular models.

EDUCATIONAL EXPERIENCES

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|-----------|--|-----------|
| 2017-2023 | Doctor of Philosophy in Nutrition.
Faculty of Medicine, Ramathibodi Hospital and Institute of Nutrition.
Mahidol University, Thailand.
<u>Dissertation:</u> Anti-carcinogenic effect of Thai perilla seed oil in chemically-induced mouse model of colorectal cancer
<u>Advisor:</u> Aikkarach Kettawan, Ph.D. | GPA: 3.87 |
| 2014-2016 | Master of Science in Anatomy.
Faculty of Medicine, Siriraj Hospital.
Mahidol University, Thailand.
<u>Dissertation:</u> Protective effect of <i>Sauropus androgynus</i> on <i>Plasmodium</i> -induced oxidative stress and hepatotoxicity in mice
<u>Advisor:</u> Thanaporn Rungrueng, Ph.D. | GPA: 4.00 |
| 2010-2014 | Bachelor of Applied Thai Traditional Medicine.
Faculty of Medicine, Siriraj Hospital.
Mahidol University, Thailand. | GPA: 3.38 |

WORK EXPERIENCES

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| Jan 2026-present | Researcher | Department of Immunology, Faculty of Medicine
Siriraj Hospital, Mahidol University. |
| Mar-Dec 2025 | Postdoctoral fellow | Faculty of Medicine Siriraj Hospital, Mahidol
University, under Postdoctoral Fellowship Fund
Mahidol University fiscal year 2025. |

CORE RESEARCH SKILLS

1. Certified animal user for scientific purpose (Cert. No. U1-08779-2563)
2. Development of animal models in biomedical research
3. Gel electrophoresis-based techniques, especially western blotting
4. Immunohistochemistry and immunofluorescence techniques
5. Microtechnique for tissue histopathological analysis
6. ELISA and flow cytometry
7. Cell culture
8. Real-time PCR
9. Analysis of gut microbiome

HONOURS AND AWARDS

2014 Granted a Bachelor of Applied Thai Traditional Medicine with the second-class honours.

GRANTS AND FELLOWSHIPS

2021 The doctoral dissertation was funded by Agricultural Research Development Agency (ARDA) and National Research Council of Thailand (NRCT).

2020 Granted a Research Assistantships (RA) by Faculty of Graduate Studies, Mahidol University.

2018-2019 Granted a scholarship for Ph.D. students with outstanding potential by Faculty of Medicine Ramathibodhi Hospital, Mahidol University.

PUBLICATIONS

2026 Sutiwisesak R, **Korsirikoon C**, Khamrangsee S, Techaniyom P, Chitta P, Pratumvinit B, Dawangpa A, Wongloet W, Kaewboonruang W, Assantachai P, Muangpaisan W, Maneesing T, Supapueng O, Soongsathitanon J, Dharakul T, Boonnak K, Borkowski JJ, Sae-Lee C. Development of a frailty screening tool using components from clinical parameters and frailty criteria for Thai community-dwelling older adults. *BMC Geriatrics*. 2026.

2025 Pratumvinit B, De Biasi J, Boonyasit Y, Sutiwisesak R, Chitta P, **Korsirikoon C**, Dawangpa A, Khamrangsee S, Kaewboonruang W, Sae-Lee C. Roles of folate, vitamin B₁₂ and vitamin D in older individuals with frailty. *Nutrition Research Reviews*. 2025;1–44.

2025 Techaniyom P, **Korsirikoon C**, Chitta P, Sae-Lee C. Regulatory roles of transposable elements on autism molecular neuropathology. *Epigenomics*. 2025 May 6;17(10):691–9.

2024 **Korsirikoon C**, Techaniyom P, Kettawan A, Rungruang T, Metheetrairut C, Prombutara P, Kettawan AK. Cold-pressed extraction of perilla seed oil enriched with alpha-linolenic acid mitigates tumour progression and restores gut microbial homeostasis in the AOM/DSS mice model of colitis-associated colorectal cancer. *PLoS ONE*. 2024 Dec 9;19(12):e0315172–2.

2024 Techaniyom P, **Korsirikoon C**, Rungruang T, Pakaprot N, Prombutara P, Mukda S, Kettawan AK, Kettawan A. Cold-pressed perilla seed oil: Investigating its protective influence on the gut–brain axis in mice with rotenone-induced Parkinson’s disease. *Food Science & Nutrition*. 2024 Jun 14;12(9):6259–83.

TRAININGS

- 2025 Biosafety and Biosecurity (Sep 29-30), Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand.
- 2025 Basic Course in Human Research Ethics (May 29), Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand.
- 2025 Biomed diagnostic Thailand – Exploring NK Cytotoxicity: Bridging Natural Killer Cells in Cancer Immunotherapy and Other Diseases (NK Target cell Visualization Assay TVA) (March 20), Institute of Molecular Biosciences, Mahidol University, Thailand.
- 2024 BIOTEC E-lecture: Biosafety and Biosecurity (September 3), Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand.
- 2024 CITI Program course: Human Subjects Research – IRB Biomedical Panel (July 24), Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand.
- 2023 Targeting journal for publication (March 8), Faculty of Graduate Studies, Mahidol University, Thailand.
- 2020 Training for animal use license (September 10-11), Institute of Animals for Scientific Purposes Development (IAD) and National Research Council of Thailand (NRCT).
- 2020 Transformative learning skills: self-discovery (January 10), Faculty of Graduate Studies, Mahidol University, Thailand.
- 2020 Digital literacy training (January 10), Faculty of Graduate Studies, Mahidol University, Thailand.
- 2019 Effective presentation technique (February 23), Faculty of Graduate Studies, Mahidol University, Thailand.
- 2018 Laboratory Safety, First Aid, and Basic Life Support Training (October 10), the Center for Occupational Safety, health and Environment Management (COSHEM), Institute of Nutrition, Mahidol University, Thailand.
- 2017 Strategies for successfully completing doctoral research (August 14), Faculty of Graduate Studies, Mahidol University, Thailand.
- 2016 Program Plagiarism (Turnitin) Training (September 17), Faculty of Graduate Studies, Mahidol University, Thailand.
- 2015 Laboratory Animal Used Training (October 15-16), Faculty of Medicine Siriraj Hospital and Laboratory Animal Center, Mahidol University, Thailand.
- 2015 Understanding Ethics in Human Research. For staff/researchers of Faculty of Medicine Siriraj Hospital (February 16), Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand.

PROCEEDINGS AND PRESENTATIONS

- 2025 **Korsirikoon C**, Techaniyom P, Dawangpa A, Chitta P, Sae-Lee C. Investigating the impact of vitamin B₉, B₁₂, and D supplementation on frailty in community-dwelling older adults. The 11th Asian Conference for Frailty and Sarcopenia (ACFS), October 17-18, 2025, Kaohsiung Veterans General Hospital, Kaohsiung, Taiwan.
- 2016 **Korsirikoon C**, Rungruang T, Chompoopong S, Kettawan A. Water Extract of *Sauropus androgynus* can Clear *Plasmodium*-Infected Erythrocytes in Animal Model. Graduate Research Forum 2016 International Conference in Medicine and Public Health 2016 (SICMPH2016), June 13-15, 2016, Siriraj Medical Research Center, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand.
- 2016 **Korsirikoon C**, Rungruang T, Chompoopong S, Kettawan A. The Effect of *Sauropus androgynus* Water Extract on Liver Morphology of *Plasmodium* Infected Mice. The 11th

Asia-Pacific Microscopy Conference in conjunction with the 33th Annual Conference of the Microscopy Society of Thailand and the 39th Annual Conference of the Anatomy Association of Thailand, May 23-27, 2016, Phuket Graceland Resort and Spa, Phuket, Thailand.

MEMBERSHIPS

1. Anatomy Association of Thailand

REFEREES

1. Assoc. Prof. Dr. Jintana Sirivarasai
Graduate Program in Nutrition
Faculty of Medicine Ramathibodi Hospital,
Mahidol University, Bangkok 10400, Thailand.
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2. Assoc. Prof. Dr. Aikkarach Kettawan
Institute of Nutrition, Mahidol University,
Nakhon Pathom 73170, Thailand.
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3. Assist. Prof. Dr. Thanaporn Rungrueng
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