



Curriculum Vitae

Institute of Nutrition, Mahidol University (INMU)

999 Phutthamonthon 4 Rd., Salaya, Phutthamonthon

Name Kanchaporn Chaisungnern
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Current position Instructor
Food Toxicology Unit, Institute of Nutrition, Mahidol University,
Salaya campus, Nakhon Pathom, Thailand

Education

2025 Ph.D. (Health Research and Management (Epidemiology and Biostatistics)), Chulalongkorn University, Thailand
2017 M.Sc. (Food and Nutrition Toxicology), Mahidol University, Thailand
2015 B.Sc. (Medical Technology), Thammasat University, Thailand

Research Interest and Expertise

1. Nutrition toxicology, neurotoxicity, biomarkers and memory, nutritional psychiatry
2. Safety assessment of novel foods and non-novel foods
3. Clinical research in the field of herbal medicine and dietary supplements
4. Systematic review and evidence-based analysis
5. Epidemiology and Biostatistics

Research Experiences

1. The Effect of Astaxanthin on Oxidative Stress and Inflammation in Healthy with Abdominal Obesity Thai Volunteers
2. Comparative Effects of Sappan, Mulberry, and Tagetes Flavonoids on Gut Microbiome, Metabolic Health, and Systemic Biomarkers – A Randomized Controlled Trial (PrebioTrial 3 Flavonoids)
3. Effects of Hibiscus Anthocyanin Supplementation on Gut Microbiome Composition, Metabolic Markers, Liver Health, Body Fat, and Skin Properties: A Randomized Controlled Trial
4. Effects of *Hibiscus sabdariffa* L. extract on metabolic parameters in participants with abdominal obesity and mild metabolic syndrome in Bangkok, Thailand: A double-blind, randomized, placebo-controlled trial.
5. A Systematic Review of Positive and Negative Outcomes Comparison in *Hibiscus sabdariffa* L. Clinical Trials for Metabolic Syndrome.



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Training

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| 2026 | Written Examination in higher education (Mahidol University Academic Development Program, Mahidol University Academic Development Program (MU-ADP#6) |
| 2026 | อบรมสื่อสารไรร้อยต่อ ถอดรหัส Generation Gap สู่การให้ Feedback และคำปรึกษาเชิงบวก, Mahidol University Academic Development Program (MU-ADP#6) |
| 2026 | LC-HRAM Q-Orbitrap MS training, Sci Spec Co., Ltd. |
| 2026 | Generation Gap in higher education, Mahidol University Academic Development Program (MU-ADP#6) |
| 2026 | Research Integrity, National Research Council of Thailand (NRCT) |
| 2025 | Third Training Course for Experts in Novel Food Risk Assessment, Thailand Risk Assessment Center (TRAC) |
| 2024 | Good Clinical Practice (GCP) |

Publications

National

1. Chaisungnern K, Benjapong W, Charernwat P, Panpunuan P, Susirwatananont N, Sritara P, Sirivarasai J. Environmental mercury exposure and the alteration in cognitive function. Thai Journal of Toxicology. 2018; 33(1):51–68.

International

1. **Chaisungnern K**, Rattananupong T, Klinhom R, Nanta S, Banchuen K, Itharat A, Kuropakornpong P, Supasiri T, Nootim P, Jiamjarasrangi W. Efficacy of Hibiscus sabdariffa L. extract on metabolic parameters in participants with abdominal obesity and mild metabolic syndrome in Bangkok, Thailand: A double-blind, randomized, placebo-controlled trial. Complementary Therapies in Medicine. 2025 May 5; 91:103185.
2. Sirivarasai J, **Chaisungnern K**, Panpunuan P, Chanprasertyothin S, Chansirikanjana S, Sritara P. Role of MT1A polymorphism and environmental mercury exposure on the Montreal Cognitive Assessment (MoCA). Neuropsychiatric Disease and Treatment. 2021; 17:2429–2439.



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3. Soe Thu M, Pongpirul K, Chen J, Ondee T, Banchuen K, **Chaisungnern K**, et al. Network pharmacology analysis of caesalpinia sappan flavonoids identifies gut-liver axis signaling pathways relevant to metabolic liver disease. Gut. 2026;75(Suppl 2):A154-A5. (Poster presentation at IDDF 2026)
 4. Soe Thu M, Pongpirul K, Chen J, Ondee T, Banchuen K, **Chaisungnern K**, et al. Multi-target mechanisms of Morus alba leaf bioactives in metabolic dysfunction-associated steatotic liver disease: a network pharmacology study. Gut. 2026;75(Suppl 2):A155-A6. (Poster presentation at IDDF 2026)
 5. Soe Thu M, Pongpirul K, Chen J, Ondee T, Banchuen K, **Chaisungnern K**, et al. Network pharmacology analysis of tagetes reveals multi-target mechanisms across the gut-liver axis in metabolic inflammation and MASLD. Gut. 2026;75(Suppl 2):A155-A. (Poster presentation at IDDF 2026)