



Curriculum Vitae

Institute of Nutrition, Mahidol University (INMU)

999 Phutthamonthon 4 Rd., Salaya, Phutthamonthon

Name: กัณฐมนี ทุไพเราะ
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Current position: Researcher (นักปฏิบัติการวิจัย)

Education

2012-2015 Master of Science (Food Science for Nutrition)
Institute of Nutrition, Mahidol University, Thailand
2008-2012 Bachelor of Science (Biotechnology)
Faculty of Science, Mahidol University, Thailand

Research Interest and Expertise

1. Determination of phytochemicals and sugar by high performance liquid chromatograph (HPLC).
2. Determination of body composition, energy expenditure and breast milk intake by isotope ratio mass spectrometer (IRMS).
3. Determination of fructans (Inulin, fructo-oligosaccharide) by gas chromatograph (GC).
4. Determination of amino acids by amino acid analyzer.
5. Technical assessor and internal auditor (ISO/IEC 17025:2017).

Research Experiences

2025-present Determination of amino acids by amino acid analyzer.
Technical assessor and internal auditor (ISO/IEC 17025:2017).

2023-present Determination of sugar and carotenoids by high performance liquid chromatography (HPLC).

2023-present Determination of fructans (Inulin, fructo-oligosaccharide) by gas chromatograph (GC).

2023-present Determination of stable isotope (deuterium and oxygen-18) by isotope ratio mass spectrometer (IRMS).

2022-2023 Determine qualities of oil samples such as peroxide value, iodine value, saponification value and acid value.

2022-2023 Develop and validate analytical methods for cannabidiol (CBD) tetrahydrocannabinol (THC) in hemp and hemp products by high performance liquid chromatograph (HPLC).



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2020-2022	Develop and validate analytical methods for bioactive compounds in herbal medicine and products by ultra performance liquid chromatograph (UPLC).
2013-2015	Antioxidant activity and inhibition of key enzymes relevant to Alzheimer's disease from sweet pepper (<i>Capsicum annuum</i>) extracts.
2011-2012	Process optimization for recombinant therapeutic protein in <i>Escherichia coli</i> .

Training

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| 2025 | <ul style="list-style-type: none">- Proximate analysis- Principles and operation of isolator for handling carcinogens and chemotherapeutic agents- New assessor training for accreditation under ISO/IEC 17025:2017- Laboratory safety management system- Human research ethics for biomedical research- Guidelines for risk management in quality systems according to ISO/IEC 17025:2017- Introduction to LC-ICPMS-MS- Principle of amino acid analyzer and microwave digestion |
| 2024 | <ul style="list-style-type: none">- Documentation of the quality management system (ISO/IEC 17025:2017)- Metrological traceability of measurements- Estimation of measurement uncertainty in chemical analysis- ISO/IEC 17025:2017 requirements- Verification of calibration results- Basic requirements and application of GHPs in food manufacturing facilities |
| 2023 | <ul style="list-style-type: none">- Quality assurance of analytical test results- Control chart- Statistical analysis for analytical testing- Method validation of chemical analysis- Internal audit according to ISO/IEC 17025:2017 |



Publications

National

1. Nantakornsuttanan N, **Thuphairo K** and Suttisansanee U. Chili peppers and potential Alzheimer's disease prevention. *Food Focus*. 2016, 11(125): 24-25.
2. **Thuphairo K**, Kruawan K, Srichamnong W, Charoenkiatkul S and Suttisansanee U. Antiacetylcholinesterase properties of sweet pepper (*Capsicum annuum*) extracts in different solvents. *Agricultural Sci J*. 2014; 45(2)(Suppl.): 121-124.
3. Nantakornsuttanan N, Phanyotha T, **Thuphairo K**, Charoenkiatkul S and Suttisansanee U. Antioxidant activities and total phenolic contents from different varieties of chili peppers extracts. *Agricultural Sci J*. 2014; 45(2)(Suppl.): 365-368.
4. **Thuphairo K** and Suttisansanee U. Sweet pepper and health promoting compounds. *Journal of Nutrition Association of Thailand*. 2014; 48(2): 1-11.
5. **Thuphairo K**, Kruawan K, Srichamnong W, Charoenkiatkul S and Suttisansanee U. The investigation of total phenolic compounds and antioxidant activities of sweet pepper (*Capsicum annuum*) extracted by solvents with different polarities. *Agricultural Sci J*. 2013; 44(2)(Suppl): 293-296.

International

1. Yapan P, Thongkloung P, Phaophan A, Yaiyiam C, Kamkang P, **Thuphairo K**, Wataganara T. Preeclampsia prediction and prophylaxis in routine first-trimester screening services. *Donald School J Ultrasound Obstet Gynecol*. 2020; 14 (3): 237-244.
2. **Thuphairo K**, Phanyotha T, and Suttisansanee U. Bioactive compounds, antioxidant activity and inhibition of key enzymes relevant to Alzheimer's disease from sweet pepper (*Capsicum annuum*) extracts. *Preventive nutrition and food science*. 2019; 24(3): 327-337.
3. Nantakornsuttanan N, **Thuphairo K**, Kukreja RK, Charoenkiatkul S and Suttisansanee U. Antiacetylcholinesterase inhibitory activities of different varieties of chili peppers extracts. *International Food Research Journal*. 2016; 23(5): 1953-1959.