



Curriculum Vitae

Institute of Nutrition, Mahidol University (INMU)
999 Phutthamonthon 4 Rd., Salaya, Phutthamonthon



ชื่อ - นามสกุล วิมลพรรณ ฉัตรหิรัญย์
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➤ ตำแหน่งปัจจุบัน (Current position) : นักปฏิบัติการวิจัย

➤ การศึกษา (Education)

2016 B.Sc. (Microbiology), Silpakorn University, Thailand

2020 M.Sc. (Food Science for Nutrition), Mahidol University, Thailand

➤ งานวิจัยที่สนใจและมีความเชี่ยวชาญ (Research Interest and Expertise)

	Qualitative and Quantitative Analysis of Bioactive Compound in Plants and Food Samples
	Develop Analytical Method on Chromatographic Techniques (HPLC, LC, GC) with DAD, FID, and Mass Spectrophotometry
	In vitro Glycemic index
	Fat and Oil extraction and analysis
	Microbiological and Molecular Analysis (Bacteria, Lactic Acid Bacteria /Yeast/Mold Culture and Isolation)

➤ ประสบการณ์ในการทำวิจัย (Research Experiences)

2017-2019	Develop Product Prototype and Chemical Analysis -Salad Dressing from Almond Oil - Development of fermented milk contain CLA (Conjugated Linoleic Acid) - โครงการการพัฒนาสูตรน้ำมันสำหรับทอดและน้ำมันสำหรับผัดจากน้ำมันมะพร้าว - การพัฒนาสูตรน้ำมัน High-MCT จากน้ำมันมะพร้าว - Functional Drink and Vinegar from Miang Tea and Kombucha Fermentation
2019-2021	- Analysis of Total Volatile Compound Using HS-GC-MS (Headspace-SPME) - Fat and Oil Extraction Using Soxhlet, Chemicals and Cold Press machine - Analysis of Peroxide Value, TBARS, Acid Value in Oil - Quantitative Analysis of Some of Bioactive Compound in Food Sample Using LC-MS/MS (Phenolics, Flavonoids, Carotenoids) - Analysis of In vitro Glycemic index in Food Samples
2022	- Quantitative Analysis of Cannabinoids in Cannabis Plant Using LC-MS/MS - Qualitative and Quantitative Analysis of Anthocyanidins Using LC-MS/MS and LC-MS-QTOF



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➤ การฝึกอบรม (Training)

- 2015 Laboratory Trainee (Lactic Acid Bacteria Identification, Molecular Characterization, and Functionalization), *Food & Feed innovation Laboratory, National Science and Technology Development Agency (NSTDA), Thailand*
- 2018 Rapid Detection of Adulteration and Fraud in Foods by FTIR and NMR Techniques, *Chulalongkorn University, Thailand*
- 2019 Capacity Building Workshop “Analysis of Gut Microbiota”
Institute of Nutrition, Mahidol University, Thailand
- 2020 The General Requirement of ISO/IEC 17025:2017, *Department of Science -Service, Thailand*
- 2021 Chemical laboratory design for safety, *Department of Science Service, Thailand*
- 2021 Analytical Method Validation for Gas Chromatography – Mass Spectrophotometry,
Department of Science Service, Thailand
- 2021 Sample Preparation by Solid Phase Extraction (SPE), *Department of Science Service, Thailand*
- 2021 Cannabis Series (1-4) Webinar, *Agilent Technologies, Thailand*
- 2021 The suitability of GC Column for selective analysis, *Agilent Technologies, Thailand*
- 2022 Basic Nuclear Magnetic Resonance (NMR) Training Course
Mahidol University Frontier Research Facility (MU-FRF), Thailand
- 2022 Principle of FTIR Microscope for Materials Science (On-site training)
Mahidol University Frontier Research Facility (MU-FRF), Thailand
- 2022 Proteomics Workshop
Central Instrument Facility (CIF), Mahidol University, Thailand
- 2022 Brilliant Lipidomics Solutions: Sample Preparation, Discovery and Targeted Approaches (OMIC webinar), *Agilent Technologies, Thailand*
- 2022 Sparkling Sample Preparation Automation Solutions for OMICS Analysis
Agilent Technologies, Thailand
- 2022 In-Depth Talk in Look Good & Feel Great by Foodomics
World Tech Enterprise, Thailand

➤ การเผยแพร่ผลงาน (Publications)

- ระดับชาติ (National)



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2021 The Effect of Bamboo Charcoal on Acrylamide Reduction and Lipid Degradation in Palm Oil During Frying (Proceeding of Academic Science and Technology Conference 2021)
มหาวิทยาลัยราชภัฏวไลยอลงกรณ์ ในพระบรมราชูปถัมภ์

○ **ระดับนานาชาติ (International)**

2021 Bulgarian Yogurt Relieved Symptoms and Distress and Increased Fecal Short-Chain Fatty Acids in Healthy Constipated Women: A Randomized, Blinded Crossover Controlled Trial