

Curriculum Vitae

Name: Wiratchanee Kansandee, Ph.D.

Position: Researcher, Practitioner Level

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EDUCATION

2018 Ph.D. (Biotechnology), Mahasarakham University, Thailand

2010 M.Sc. (Biotechnology), Mahasarakham University, Thailand

2007 B.Sc. (Biotechnology), Mahasarakham University, Thailand

TRAINING

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PROFESSIONAL EXPERIENCE

2019-present Scientific Equipment and Research Division, Kasetsart University Research and Development Institute, Kasetsart University, Thailand

2018-2019 Biodiversity Research Centre, Thailand Institute of Scientific and Technological Research, Thailand

2014-2018 Department of Microbiology, Faculty of Science, King Mongkut's University of Technology Thonburi, Thailand

2011-2014 Department of Biology, Faculty of Science and Technology, Rajabhat Mahasarakham University, Thailand

2009-2011 Bioscience Department, Thailand Institute of Scientific and Technological Research,
Thailand

AREA OF EXPERTISE

- Probiotic, Prebiotic, Exopolysaccharide and their applications
- Isolation and molecular identification of microorganisms
- Extraction, purification, and structure characterization of polysaccharides

RESEARCH GRANT

As Head of Project:

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| 2023 | Prebiotic Potential of Freshwater Algae (<i>Spirogyra</i> spp.) Polysaccharides for Synbiotic Beads |
| 2021 | Potential of Polysaccharide from Sea Lettuce (<i>Ulva rigida</i>) for Development of Prebiotic Functional Food Products |
| 2020 | Plant Extracts for Controlling of Rice Diseases |
| 2016 | Prebiotic properties of exopolysaccharide produced by lactic acid bacteria isolated from human breast milk |

As Co-Researcher:

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| 2023 | Innovative biopolymers from <i>Spirogyra</i> spp. and its bioactive compounds for applications in food and environmental industry |
| 2022 | Selection of potential probiotics for use in plant-based functional beverages |
| 2021 | Development of Laboratories Management System to Laboratory Safety based on TIS 2677-2558 for Support Agriculture and Food Standard |

2019-2021	Research and Development on beta- Glucan from Microorganisms for Immunization of Aquatic Animals
2016-2019	Research and Development on Immunomodulatory Dietary Fiber Process from Bacterial Cellulose
2016	Development of Synbiotic Fermented Corn Milk Product
2015	Development and increasing potential of corn milk based yogurt by probiotic lactic acid bacteria
2015	Screening and Characterization of Potential Probiotic Bacteria from Traditional Thai Vegetable Fermented Products for Potential Starter Culture in Fermented Food Product for Food Safety
2014	Potential Prebiotic Substances of Some Local Thai Flesh Fruit Use for Probiotic Bacteria
2014	Screening and Characterization of Potential Probiotic from Traditional Thai Fermented Rice Products for Starter Culture in Fermented Food Product
2014	Isolation of Bacteriocin organic Lactic Acid Bacteria Isolated from Traditional Thai Fermented Fish Products for Potential Starter Culture Applications in Fermented Food Product for Food Safety
2013	Increase in Thai rice with Thai local wisdom: Development of health benefits of functional food products prebiotic by products of the fermentation process of germinated brown rice for the production of enterprise community

PUBLICATIONS

1. Uruchaya Sonchaeng, Phanwipa Wongphan, Wanida Pan-utai, Yupadee Paopun, **Wiratchanee Kansandee**, Prajongwate Satmalee, Montakan Tamtin, Prapat Kosawatpat and Nathdanai Harnkarnsujarit. (2023). Preparation and characterization of novel green seaweed films from *Ulva rigida*. *Polymers*, 15, 3342.

2. **Wiratchanee Kansandee**, Duangtip Moonmangmee, Somporn Moonmangmee, Pariyaporn Itsaranuwat. (2019). Characterization and *Bifidobacterium* sp. growth stimulation of exopolysaccharide produced by *Enterococcus faecalis* EJRM152 isolated from human breast milk. *Carbohydrate Polymers*, 206, 102–109.
3. **Wiratchanee Kansandee**, Somporn Moonmangmee, Arunrussamee Sangsila and Pariyaporn Itsaranuwat. (2015). Health Benefits of Probiotic Microorganisms. *Journal of science and technology Mahasarakham university*, 34(2), 196-201.

CONFERENCE PRESENTATIONS

1. Duangtip Moonmangmee, Aonchuma Alaiphol, **Wiratchanee Kansandee** and Somporn Moonmangmee. 2018. New Promising Acetic Acid Bacterium, *Asaia siamensis* Capable of D-tagatose Production. Poster presentation delivered at The 3rd International Conference on Agriculture and Agro-Industry 2018 (ICAAI2018) under the theme of “Food and Agriculture: Innovation and Sustainability”, 15-17 November 2018 at Mae Fah Luang University, Chiang Rai, Thailand.
2. Jirarat Phuangnu, **Wiratchanee Kansandee**, Achara Chaiongkarn, Duangtip Moonmangmee and Somporn Moonmangmee . 2015. Screening and characterization of exopolysaccharide from EPS producing Lactic acid bacteria isolated from fermented foods. Poster presentation delivered at The 27th Annual Meeting of the Thai Society for Biotechnology and International Conference (TSB2015), 17-20 November 2015 at Mandarin Oriental, Bangkok, Thailand.
3. **Wiratchanee Kansandee**, Pariyaporn Itsaranuwat, Somporn Moonmangmee. 2014. Screening and selection of exopolysaccharide-producing lactic acid bacteria isolated from human milk. Poster presentation delivered at The 26th Annual Meeting of the Thai Society for Biotechnology and International Conference (TSB2014), 26-29 November 2014 at Mae Fah Luang University, Chiang Rai, Thailand.