



Rungdawan Wongsamart

Date of birth: 30 July 1990 | Birthplace: Tak, Thailand

Nationality: Thai | Gender: Female

CONTACT

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WORK EXPERIENCE AND INTERNSHIP

16 Aug 2024 –
present

Postdoctoral research fellow

Siriraj Center of Research Excellence for Cancer Immunotherapy (SiCORE-CIT) and Department of Immunology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand

1 April 2022 –
31 March 2024

Postdoctoral research fellow

Department of Microbiology, Faculty of Science Chulalongkorn University, Bangkok, Thailand

1 March 2019 –
28 February 2020

Research intern

Institute of Pharmacy and Molecular Biotechnology (IPMB) Heidelberg Universität, Heidelberg, Germany

EDUCATION

21 March 2022

Complete Graduation

31 August 2020

PhD Thesis Defense

13 August 2013 –
31 August 2020

Doctor of Philosophy, Biochemistry

Mahidol University, Bangkok, Thailand

GPA 3.82 out of 4.00

Thesis: Study of *Chlamydomonas reinhardtii* Chaperonin Subunit Assembly

20 April 2009 –
17 April 2013

Bachelor of Science, First-Class Honors, Chemistry

Mahidol University, Bangkok, Thailand

GPA 3.75 out of 4.00

Thesis: Preparations of 2-Substituted Benzothiazole via Metal-Catalyzed Cyclization

8 May 2006 –
16 March 2009

Secondary School II

Mahidol Wittayanusorn School, Nakhon Pathom, Thailand

GPA 3.72 out of 4.00

5 May 2003 –
30 March 2006

Secondary School I

Takphittayakhom School, Tak, Thailand

GPA 3.96 out of 4.00

RESEARCH SKILLS

Chemistry

- NMR
- Column chromatography and HPLC
- Click reaction
- Mass spectrometry
- Air-sensitive synthesis

Molecular biology

- Molecular cloning
- Heterogeneous expression
- Co-immunoprecipitation
- Next generation sequencing
- Isothermal amplification (LAMP, RPA)
- Protein purification
- Western blot & ELISA

Cancer immunotherapy

- Mammalian cell culture
- Flow cytometry
- PBMC isolation
- Immunohistochemistry (IHC)

Bioinformatics

- R Programming
- PyMOL
- Swiss PDB
- Mothur & Microbiome analyses
- GraphPad Prism
- Gromacs (molecular dynamics simulation)

LANGUAGE

Native language: **Thai**

Other languages:

	LISTENING	READING	WRITING	SPEAKING	
English	C1	C1	B2	B2	TOEFL-ITP = 633
German	A2	A2	A2	A2	

Levels: A1/2: Basic user, B1/2: Independent user, C1/2: Proficient user

PUBLICATIONS

Wongsamart, R., Somboonna, N, Cheibchalard, Klankeo, P., Ruampatana, J., Morakot Nuntapaitoon, M. Probiotic *Bacillus licheniformis* DSMZ 28710 improves sow milk microbiota and enhances piglet health outcomes. *Scientific Reports* (2025)
doi: 10.1038/s41598-024-84573-z

Sornwatana, T., Rotchanapreeda, T., **Wongsamart, R.**, Mongkol, N., Somana, J. Cassava Root Cortex Peroxidase (CCP) as a Potential Alternative Source of Peroxidase. *Starch* (2023)
doi: 10.1002/star.202300083

Wongsamart, R., Bhattarakasol, P., Chaiwongkot, A., Wongsawaeng, D., Okada, P. A., T Palaga, T, Leelahavanichkul, A., Khovidhunkit, W., Dean, D., Somboonna, N. Multiplex recombinase polymerase amplification for high-risk and low-risk type HPV detection, as potential local use in single tube. *Scientific Reports* (2023)
doi: 10.1038/s41598-023-28038-9

Wongsamart, R., Yokthongwattana, C., Yokthongwattana, K. *Chlamydomonas* plastid chaperonin subunits expressed in *E. coli* can interact with one another inside the bacterial cell and putatively confer enhanced tolerance toward singlet oxygen. *Science Asia* (2022)
doi:10.2306/scienceasia1513-1874.2022.079

Wongsamart, R., Kiriwan, D., Suwattanasophon, C., Yokthongwattana, K., Choowongkamon, K. Computational analysis of homo-dimerization of chloroplast-localized chaperonin from the alga *Chlamydomonas reinhardtii*. *Agriculture and Natural Resources* (2021)
doi: 10.34044/j.anres.2021.55.5.03

CONFERENCES

- The 13th International Symposium of PST, 2018, Chulabhorn Research Institute, Bangkok, Thailand
- RGJ-PhD Congress 19, 2018, Jomtien Palm Beach Hotel, Pattaya, Thailand
- Consortium of Biological Sciences, 2017, Kobe Port Island, Kobe, Japan
- The 9th International Symposium of PST, 2014, Chulabhorn Research Institute, Bangkok, Thailand

REFEREES

Assoc. Prof. Kittisak Yokthongwattana, PhD supervisor

Department of Biochemistry, Faculty of Science, Mahidol University, Bangkok, Thailand
kittisak.yok@mahidol.ac.th

Prof. Chanitra Thuwajit, present supervisor

Department of Immunology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand
chanitra.thu@mahidol.ac.th

Prof. Pa-thai Yenchitsomanus, present supervisor

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