

# Curriculum Vitae

## Chanida Thinyakul

### **Introduction**

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I have extensive experience in cancer biology, with a focus on cell–cell interactions in the tumor microenvironment, single-cell transcriptome analyses, and mouse tumor models. My current research investigates non-small cell lung cancer, particularly the role of extracellular vesicle–associated immune checkpoint molecules in immunotherapy resistance. I am also interested in fibroblast–immune cell interactions, using single-cell and spatial transcriptomic analyses of patient tissues. I enjoy working in collaborative, multidisciplinary research environments.

### **Personal Information**

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Nationality	Thai
Address	Department of Immunology, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok-Noi, Bangkok 10700, Thailand
E-mail	chanida.thi@gmail.com

### **Education**

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2010 – 2014	B.S. Biology Faculty of Science, Mahidol University, Thailand
2014 – 2017	M.S. Biochemistry Faculty of Science, Mahidol University, Thailand Supervisors: Dr. Rutaiwan Tohtong and Dr. Patompon Wongtrakoongate
2019 – 2025	Ph.D. Immunology (Double Degree Program) Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand Supervisor: Dr. Chanitra Thuwajit
2020 – 2025	Ph.D. Medical Sciences (Double Degree Program) Faculty of Life Sciences, Kumamoto University, Japan Supervisor: Dr. Toshiro Moroishi

### **Employment**

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2017 – 2018	Research assistant, Supervisor: Dr. Patompon Wongtrakoongate Department of Biochemistry, Faculty of Science, Mahidol University, Thailand
2019	Research assistant, Supervisor: Dr. Chanitra Thuwajit Department of Immunology, Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand

2025 – present      Researcher, Supervisor: Dr. Chanitra Thuwajit  
 Department of Immunology, Faculty of Medicine Siriraj Hospital, Mahidol University,  
 Thailand

### **Grant and award**

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2019 – 2020      Siriraj Graduate Scholarship (Mahidol University, Thailand)  
 2020 – 2024      Japanese Government (MEXT) Scholarship  
 2023 – 2024      The Center for Metabolic Regulation of Healthy Aging (CMHA) Research Grants  
 (Kumamoto University, Japan)  
 2025              Excellence Poster Presentation Award, The Asia Pacific Spatial and Single-Cell Biology  
 Innovation, Bangkok, Thailand, Poster presentation  
 2025              The Outstanding Thesis Awards Promoting Mahidol University's SDGs Policies,  
 Mahidol University, Thailand, Oral presentation

### **Research skills**

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1. Single-cell RNA sequencing analysis (target cell preparation, library preparation, and basic data analysis)
2. Experience with mouse experiments and mouse tumor models (tumor transplantation, mouse dissection, tissue harvesting, mouse breeding, and genotyping)
3. Tumor dissociation (mouse and patient samples)
4. Flow cytometry analysis
5. Cell isolation using FACS sorting
6. Isolation of primary immune cells (e.g. CD8<sup>+</sup> T cells and CD45<sup>+</sup> cells)
7. Immunohistochemical analysis
8. Immunofluorescence analysis of cells and tissues
9. ELISA
10. Molecular biology techniques (mammalian cell and tissue culture, DNA/RNA extractions, PCR, qPCR, Western blot, cell transfection/infection, and molecular cloning)

### **Specialty**

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Cancer Biology, Immunology, Tumor microenvironment, Cancer-associated fibroblasts, Hippo pathway

### **Publications**

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1. Liu Y, Liu S, Sakamoto Y, Chunthaboon P, **Thinyakul C**, Mori R, Li S, Watanabe-N T, Omata S, Morita Y, and Moroishi T. (2025) LATS1/2–integrin axis confers tumor-generated forces that activate neighboring fibroblasts. *Cancer Sci* 116, 9. doi: 10.1111/cas.70137

2. Niimura M, Sakamoto Y, Shimoda M, Harada N, Maeda A, Wada S, Murata K, **Thin yakul C**, Liu S, Ohara H, Iwamoto A, Kanamori Y, Nita A, Wakao M, Suda Y, Oshiumi H, Hayashi T, Carson DA, Shinchu H, and Moroishi T. (2025) Harnessing an integrated glyco-nanovaccine technology for enhanced cancer immunotherapy. *Commun Med (Lond)* 5, 378. doi: 10.1038/s43856-025-01102-3
3. **Thin yakul C**, Sakamoto Y, Shimoda M, Liu Y, Thongchot S, Reda O, Nita A, Sakamula R, Sampattavanich S, Maeda A, Chunthaboon P, Nduru D, Niimura M, Kanamori Y, Thuwajit P, Nakayama K.I, Guan K-L, Satou Y, Thuwajit C, and Moroishi T. (2024) Hippo pathway in cancer cells induces NCAM1<sup>+</sup>αSMA<sup>+</sup> fibroblasts to modulate tumor microenvironment. *Commun Biol* 7, 1343. doi.org/10.1038/s42003-024-07041-4
4. Amornsapak K, Thongchot S, **Thin yakul C\***, Box C, Hedayat S, Thuwajit P, Eccles S.A, and Thuwajit C. (2022) HMGB1 mediates invasion and PD-L1 expression through RAGE-PI3K/AKT signaling pathway in MDA-MB-231 breast cancer cells. *BMC Cancer* 22, 578. doi.org/10.1186/s12885-022-09675-1  
\*Second author
5. Shimoda M, **Thin yakul C**, Saleh M, Niimura M, Nita A, Maeda A, Ohta Y, Tsutsuki H, Diez D, Motooka D, Takizawa H, Sawa T, Nakayama K.I, Maeda K, and Moroishi T. Disruption of iron homeostasis impairs B-cell development and induces B-cell cytopenia. *Under revision in Commun Biol*.

### **Presentation at academic conferences**

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| 2022 | The 4th Anniversary Symposium for Double Degree Program (DDP), Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand, Oral presentation |
| 2022 | The 45th Annual Meeting of the Molecular Biology Society of Japan, Chiba, Japan, Poster presentation   |
| 2023 | The 46th Annual Meeting of the Molecular Biology Society of Japan, Kobe, Japan, Poster presentation  |
| 2024 | The Center for Metabolic Regulation of Healthy Aging (CMHA) Research Grants (Kumamoto University, Japan), Oral presentation                          |
| 2024 | Graduate Research Forum 2024 (Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand), Oral presentation                                 |
| 2025 | The Asia Pacific Spatial and Single-Cell Biology Innovation, Bangkok, Thailand, Poster presentation  |
| 2025 | The Outstanding Thesis Awards Promoting Mahidol University's SDGs Policies, Mahidol University, Thailand, Oral presentation                          |
| 2026 | Thai Immunology Annual Meeting 2026, Allergy and Immunology Association of Thailand (AAIAT), Bangkok, Thailand, Poster presentation                  |