

SUPARADA KHANARUKSOMBAT

Translational Cancer Immunologist | Cell & Gene Therapy | Tumor Microenvironment

NAME SUPARADA KHANARUKSOMBAT, PH.D.

CURRENT TITLE Researcher

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1. Executive Research Profile

Translational cancer immunologist with expertise in CAR-T cell engineering, tumor immune microenvironment analysis, and immune resistance mechanisms in solid tumors. Current research focuses on triple-negative breast cancer and non-small cell lung cancer, integrating spatial immune profiling, multiplex immunohistochemistry, NanoString transcriptomics, and adoptive cell therapy. Strong track record of peer-reviewed publications, international presentations, and interdisciplinary collaboration in translational oncology.

2. Current Position

2023 – Present **Postdoctoral Researcher**
Department of Immunology, Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand |

- CAR-T cell engineering for solid tumors
- Tumor immune microenvironment profiling
- Spatial transcriptomics and multiplex immunohistochemistry
- Biomarker discovery in breast cancer and NSCLC
- Formal Education

3. Education

2025 *Doctor of Philosophy program (Ph.D.)* in Medical Science, Chulalongkorn University, Thailand

2014 *Master of Science Degree (M.Sc.)* in Bioproducts Science, Kasetsart University, Thailand

2010 *Bachelor of Science Degree (B.Sc.)* in Biological Science with Second Class Honors (GPAX 3.39)
Kasetsart University, Thailand

4. Research Interests

- Cancer Immunotherapy
- CAR-T Cell Engineering
- Tumor Microenvironment
- Spatial Immune Profiling
- Cell and Gene Therapy
- Translational Oncology

5. Selected Publications

1. Phankeaw, P., **Khanaruksombat, S.**, Numprasit, W., Jamjuntra, P., Augsornworawat, P., Warnnissorn, M., Thuwajit, P., & Thuwajit, C. (2025). Stromal transcriptomics uncover LIF as a key effector in high tumor budding triple-negative breast cancer. *Scientific Reports*, 10.1038/s41598-025-28439-y. Advance online publication. <https://doi.org/10.1038/s41598-025-28439-y>. **Impact Factor: 3.9 (2024)**
2. **Khanaruksombat, S.**, Buranapraditkul, S., Thantiworasit, P., Suthumchai, N., Rerknimitr, P., Reantragoon, R., & Klaewsongkram, J. (2024). Dysregulation of Regulatory T Cells and Autoimmune Sequelae in DRESS: Insights From Flow Cytometry and NanoString Analysis. *Experimental dermatology*, 33(11), e70007. <https://doi.org/10.1111/exd.70007>. **Impact Factor: 3.1 (2024)**
3. Venkatraman, S., Balasubramanian, B., Kongpracha, P., Yangngam, S., Chuangchot, N., **Khanaruksombat, S.**, Thongchot, S., Sunti-parpluacha, M., Myint, K. Z., Soodvilai, S., Janvilisri, T., Jirawatnotai, S., Thuwajit, P., Thuwajit, C., Meller, J., Chutipongtanate, S., & Tohtong, R. (2024). Identification of Transcriptional Regulators of Immune Evasion Across Cancers: An Alternative Immunotherapeutic Strategy for Cholangiocarcinoma. *Cancers*, 16(24), 4197. <https://doi.org/10.3390/cancers16244197>. **Impact Factor: 4.4 (2024)**
4. Suthumchai, N., Buranapraditkun, S., Thantiworasit, P., Rerknimitr, P., Wongpiyabovorn, J., **Khanaruksombat, S.**, Reantragoon, R., and Klaewsongkram. Exosomal microRNAs from PBMCs stimulated with culprit drugs enhanced keratinocyte cell death in Stevens-Johnson syndrome/toxic epidermal necrolysis. *J Eur Acad Dermatol Venereol*. 2023;37(7):1375-1384. doi:10.1111/jdv.19000. **Impact Factor: 8.4 (2022)**
5. **Khanaruksombat S.**, Srisomsap C., Punyarit P., Chokchaichamnankit D. and Phiriyangkul P. Identification of a novel allergen from muscle and various organs in banana shrimp (*Fenneropenaeus merguensis*). *Annals of Allergy, Asthma & Immunology*. 2014; 113 (3), pp301-306. doi:10.1016/j.anai.2014.06.002

6. Selected Conference Presentations

- Thai Immunology Annual Meeting 2026, Bangkok, Thailand, 2026
- AP-SciBio2025: Asia Pacific Spatial and Single-Cell Biology Innovation Conference, Bangkok, Thailand, 2025
- International Conference of the Genetics Society of Korea and 1st Asian Genetics Consortium Conference, Busan, South Korea, 2024
- Siriraj International Conference in Medicine and Public Health, Bangkok, Thailand, 2024
- Thailand Hub of Talent in Cancer Immunotherapy International Conference, Bangkok, Thailand, 2024

7. Technical Expertise

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|---|---|
| ● Flow cytometry and multicolor immunophenotyping | ● ELISA, ELISpot, PCR, RT-PCR, qPCR |
| ● FACS sorting | ● Multiplex immunohistochemistry |
| ● Cell culture and immune functional assays | ● NanoString analysis |
| | ● FlowJo, Kaluza, GraphPad Prism, SPSS, nSolver |

8. Awards and Scholarships

- 90th Anniversary of Chulalongkorn University Scholarship
- 100th Anniversary of Chulalongkorn University Fund for Doctoral Scholarship
- National Research University-Kasetsart University Scholarship

9. Professional Memberships

- Protein Society of Thailand
- Allergy, Asthma, and Immunology Association of Thailand
- European Academy of Allergy and Clinical Immunology

10. Referees

Prof. Pa-thai Yenchitsomanus, Ph.D.

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Immunotherapy (SiCORE-CIT), Faculty of Medicine Siriraj Hospital,
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