

- **Full Name:** Hae-Ock Lee
  - **Current Position & Affiliation:** Professor, The Catholic university of Korea
  - **Country:** Republic of Korea
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**• Educational Background:**

- 1989.3-1993.2, B.S. Microbiology, Seoul National University, Korea
- 1993.9-1999.12, Ph.D. Immunology and Microbial pathogenesis, The integrated Graduate Program in the Life Sciences, Northwestern University, IL. USA (Thesis: Mechanisms of Oral Tolerance with Dr. Terrence A. Barrett)

**• Professional Experience:**

- Single cell genomics
- Immunology, Cancer

**• Professional Organizations:**

- 2020.03-current Professor, Department of Microbiology, College of Medicine, The Catholic University of Korea
- 2013.10-2020.02 Chief Researcher, Samsung Medical Center

**• Main Scientific Publications:**

1. Kwon, J. *et al.* Single-cell mapping of combinatorial target antigens for CAR switches using logic gates. *Nat Biotechnol*, doi:10.1038/s41587-023-01686-y (2023).
2. Jo, A. *et al.* CTLA-4 inhibition facilitates follicular T and B cell interaction and the production of tumor-specific antibodies. *Int J Cancer* **152**, 1964-1976, doi:10.1002/ijc.34438 (2023).
3. Lee, S. H. *et al.* Single-cell transcriptomics reveal cellular diversity of aortic valve and the immunomodulation by PPAR $\gamma$  during hyperlipidemia. *Nat Commun* **13**, 5461, doi:10.1038/s41467-022-33202-2 (2022).
4. Ryu, D. *et al.* Alterations in the Transcriptional Programs of Myeloma Cells and the Microenvironment during Extramedullary Progression Affect Proliferation and Immune Evasion. *Clin Cancer Res* **26**, 935-944, doi:10.1158/1078-0432.CCR-19-0694 (2020).
5. Lee, H. W. *et al.* Single-cell RNA sequencing reveals the tumor microenvironment and facilitates strategic choices to circumvent treatment failure in a chemorefractory bladder cancer patient. *Genome Med* **12**, 47, doi:10.1186/s13073-020-00741-6 (2020).
6. Lee, H. O. *et al.* Lineage-dependent gene expression programs influence the immune landscape of colorectal cancer. *Nat Genet* **52**, 594-603, doi:10.1038/s41588-020-0636-z (2020).
7. Kim, N. *et al.* Single-cell RNA sequencing demonstrates the molecular and cellular reprogramming of metastatic lung adenocarcinoma. *Nat Commun* **11**, 2285, doi:10.1038/s41467-020-16164-1 (2020).
8. Eum, H. H. *et al.* Tumor-promoting macrophages prevail in malignant ascites of advanced gastric cancer. *Exp Mol Med* **52**, 1976-1988, doi:10.1038/s12276-020-00538-y (2020).