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Educational Background

1996-2002	Ph.D. University of Texas at Austin
1986-1993	B.S. Hanyang University, Korea

Professional Experience

2002-2008	Post-doc, Research Assistant, Center for Systems Biology, Univ. of Texas at Austin, USA
2008-Present	Assistant, Associate, Full Professor, Yonsei University, Dept of Biotechnology, Korea
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Main Scientific Publications

1. Junyeong Ma*, Nayeon Kim*, Jun Hyung Cha, Wonjong Kim, Chan Yeong Kim, Yong-ho Lee, Han Sang Kim, Yoon Dae Han, Dongeun Yong, Eugene Han, Sunmo Yang, Samuel Beck, Insuk Lee**, A human gut metagenome-assembled genome catalogue spanning 41 countries supports genome-scale metabolic models <i>Nature Microbiology</i> , Nature Microbiology 2026 Jan 08
2. Jun Hyung Cha*, Nayeon Kim, Junyeong Ma, Sungho Lee, Geon Koh, Sunmo Yang, Samuel Beck, Iksu Byeon, Byunguk Lee, Insuk Lee**, A high-quality genomic catalog of the human oral microbiome broadens its phylogeny and clinical insights, Cell Host & Microbes 2025 Oct 29;
3. Junha Cha*, Chang Gon Kim*, Nam Suk Sim*, Gamin Kim, Wonrak Son, Dahee Kim, Yurim Jung, Hyun Jun Hong, Hae Been Lee, Jaehyung Kim, Jinna Kim, Sun Och Yoon, Seokhyeong Go, Jeongah Kim, Euijung Seong, Seungbyn Baek, Kyung Hwan Kim, Min Hee Hong**, Yoon Woo Koh**, Insuk Lee**, Hye Ryun Kim**, 4-1BB+ Tregs and inhibitory progenitor exhausted T cells confer resistance to anti-PD-L1 and anti-CTLA-4 combination therapy, Cell Reports Medicine 2025 Oct 21;6(10):102408
4. Seungbyn Baek*, Kyungwoo Song, and Insuk Lee**, Single-cell Foundation Models: Bringing Artificial Intelligence into Cell Biology, Experimental & Molecular Medicine 2025 Oct 1;57(10):2169-2181
5. Ilseok Choi*, Kyung-A Kim*, Sang Cheol Kim*, Donghwan Park, Ki Taek Nam, Jun Hyung Cha, Seungbyn Baek, Junha Cha, Hye-Yeong Jo, Minsun Jung, Melody Y. Zeng, Irina Matei, Susan Bullman, Joong Bae Ahn, Yoon Dae Han**, Han Sang Kim**, Insuk Lee**, Secretory IgA dysfunction underlies poor prognosis in Fusobacterium-infected colorectal cancer, Gut Microbes 2025 Jul 16;17(1):2528428