

Speaker's Biosketch

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Jun Young Hong (Yonsei University, Republic of Korea)

Dr. Jun Young Hong is an Assistant Professor in the Department of Systems Biology at Yonsei University, specializing in developmental programming in physiology, metabolism, and immunity. He holds a B.S. in Oceanography and an M.S. in Marine Biotechnology from Seoul National University, and a Ph.D. in Physiology from the University of Michigan, Ann Arbor. His doctoral research focused on endocrinology, metabolism, and neonatal immunity. As a postdoctoral fellow at Yale University's Department of Immunobiology, mentored by Dr. Ruslan Medzhitov, Dr. Hong discovered that perinatal glucocorticoid exposure has long-term effects on CD8 T cell immunity through epigenetic and endocrine modulation. This work lays the foundation for his current research, which builds on the interplay between endocrine signals and metabolic processes in immune development. His research has been recognized with several awards, including the Young Medical Scientist Research Grant through the Daewoong Foundation in 2024. Dr. Hong is a member of the Korean Society for Molecular and Cellular Biology, the Korean Association of Immunologists, and the Korean Endocrine Society. His notable publications include studies on the long-term programming of immunity and immunometabolism.