Ho Jeong Kwon

CMI-P-20

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Research Keywords

Chemical biology, Chemical genomics, Chemical proteomics, Organelle interaction, Autophagy

Academic Career

[Education and Training]
1980-1984: BS, Seoul National University
1990-1992: MS, The University of Tokyo, Dept. of Biotechnology
1992-1995: PhD, The University of Tokyo, Dept. of Biotechnology
1995-1998: Post Doc, Harvard University, Dept. of Chemistry and Chemical Biology

[Academic Appointments]
2005-present: Yonsei University, Dept. of Biotechnology, Korea, Professor/Director
2018-present: Lund University, Dept. of Clinical Sciences, Faculty of Medicine, Sweden, Guest Professor
2014-present: Yonsei University, College of Medicine, Dept. of Internal Medicine, Professor (Adjunct)
2011-2019: Institute of Pasteur, Korea (IPK), Science Board Member
2011-2012: Stanford University, Dept. of Chemical & Systems Biology, USA, Visiting Professor
1999-2005: Sejong University, Dept. of Biotechnology, Korea, Chair of the Department, Assistant/Associate Professor

Selected Publications

Y. Jang, M. Ko, JY Lee, JY Kim, E-W Lee, HJ Kwon*, Autophagy (doi: 10.1080/15548627.2025.2519054), (2025)

M. Ko, J. Kim, R. Lazim, JY Lee, JY Kim, V. Gosu, Y. Lee, S Choi, HJ Kwon*, Exp. Mol. Med., 56(12):2714-2725, (2024)

Choi SH, Hwang H, Han S, Eom H, Choi JS, Han S, Lee D, Lee SY, Koo H, Kwon HJ*, Lim YB*, Journal of Controlled Release 366, 104-113 (2024)

Jung Y, Lee SE, Kang I, Cho SM, Kang KS*, Kwon HJ*, Clin Transl Med. 12(4), (2022)

Kwak C., et al, Kwon HJ,* Hong E*, Seo JG,* and Rhee HW*, Cell Chemical Biology 29, 1–15, (2022)

Cho SM, Kim Y, Jung Y, Ko M, Marko-Varga G, Kwon HJ*, J. Med. Chem. (2021)

Kim D, Yang KE, Kim DW, Hwang HY, Kim J, Choi JS, Kwon HJ*, Clin Transl Med. (2021)

Hwang HY, Shim JS, Kim D, Kwon HJ*, Autophagy (2020), doi:10.1080/15548627.2020.1841953

Why My Lab?

My lab can offer...

At our lab in Yonsie Univ, we explore the molecular logic of cellular signaling that governs life and disease using small molecules as tools By integrating proteomics, chemical biology, and translational research, we uncover how post-translational modifications and protein networks control cancer progression, metabolic disorders, and stress adaptation. Our interdisciplinary environment bridges fundamental discovery with therapeutic innovation, empowering young scientists to think critically, collaborate globally, and translate molecular insights into medical impact.