

Jae-Ho Cho, Ph.D.

T Cell Homeostasis Lab.
Academy of Immunology & Microbiology (AIM)
Institute for Basic Science (IBS)
POSTECH Biotech Center, R326,
77 Cheongamro, Namgu, Pohang, Gyeongbuk,
Republic of Korea 790-784
Tel) +82-54-279-8769
Fax) +82-54-279-0639
Email) jhcho90@ibs.re.kr

Education

Pohang University of Science and Technology, Pohang, Korea (1998-2002)
Ph.D. in Life Science

Pohang University of Science and Technology, Pohang, Korea (1996-1998)
M.S. in Life Science

Chonnam National University, Gwangju, Korea (1990-1996)
B.S. in Microbiology

Research & Professional Experience

Principal Investigator, Academy of Immunology & Microbiology, Institute for Basic Science, Pohang, Korea (2014 - present)

Adjunct Professor, Division of Integrative Biosciences and Biotechnology, Pohang University of Science and Technology, Pohang, Korea (2014 - present)

Group Leader, Garvan Institute of Medical Research, Australia (2013-2014)

Senior RO, Garvan Institute of Medical Research, Australia (2010-2013)

Adjunct Assistant Professor, WCU/IBB, POSTECH, Korea (2010-2013)

Research Officer, Garvan Institute of Medical Research, Australia (2006-2010)

Post-doctoral Fellow, The Scripps Research Institute, USA (2003-2006)

Post-doctoral Fellow, POSTECH, Korea (2002-2003)

Publications

Cho, J. H.*, H. O. Kim, Y. J. Ju, Y. C. Kye, G. W. Lee, S. W. Lee, C. H. Yun, N. Bottini, K. Webster, C. C. Goodnow, C. D. Surh, C. King, and J. Sprent (2016) CD45-mediated control of TCR tuning in naïve and memory CD8⁺ T cells. *Nat. Commun.* **7**, 13373. *co-corresponding author.

Nguyen, H. H., T. Kim, S. Y. Song, S. Park, H. H. Cho, S. H. Jung, J. S. Ahn, H. J. Kim, J. J. Lee, H. O. Kim, J. H. Cho, and D. H. Yang (2016) Naïve CD8⁺ T cell derived tumor-specific cytotoxic effectors as a potential remedy for overcoming TGF-beta immunosuppression in the tumor microenvironment. *Scientific Rep.* **6**, 1-10.

Corpuz, T. M., J. Stolp, H. O. Kim, G. V. Pinget, D. H. Gray, J. H. Cho, J. Sprent, and K. E. Webster (2016) Differential Responsiveness of Innate-like IL-17- and IFN-gamma-Producing gammadelta T Cells to Homeostatic Cytokines. *J Immunol.* **196**, 645-654.

Webster, K. E., H. O. Kim, K. Kyparissoudis, T. M. Corpuz, G. V. Pinget, A. P. Uldrich, R. Brink, G. T. Belz, J. H. Cho, D. I. Godfrey, and J. Sprent (2014) IL-17-producing NKT cells depend exclusively on IL-7 for homeostasis and survival. *Mucosal Immunol.* **7**, 1058-1067.

Cho, J. H., H. O. Kim, K. S. Kim, D. H. Yang, C. D. Surh, and J. Sprent (2013) Unique Features of Naïve CD8 T Cell Activation by IL-2. *J Immunol.* **191**, 5559-5573.

Chang, P. P., S. K. Lee, X. Hu, D. Gayle, G. Duan, Cho, J. H., G. Karupiah, J. Sprent, W. R. Heath, E. M. Bertram, and C. G. Vinuesa (2012) Breakdown in Repression of Interferon- Gamma mRNA Leads to Accumulation of Self-Reactive Effector CD8⁺ T cells. *J Immunol.* **189**, 701-710.

Choi, D. H., K. S. Kim, S. H. Yang, D. H. Chung, B. Song, J. Sprent, J. H. Cho*, and Y. C. Sung (2011) Dendritic Cell Internalization of α -Galactosylceramide from CD8 T Cells Induces Potent Antitumor CD8 T Cell Responses. *Cancer Research.* **71**, 7442-7451. *co-corresponding author.

Cho, J. H., H. O. Kim, K. Webster, M. Palendira, B. Hahm, K. S. Kim, C. King, S. Tangye, and J. Sprent (2011) Calcineurin-Dependent Negative Regulation of CD94/NKG2A Expression on Naïve CD8⁺ T Cells. *Blood.* **118**, 116-128.

Cho, J. H., H. O. Kim, C. D. Surh, and J. Sprent (2010) T Cell Receptor-Dependent Regulation of Lipid Rafts Controls Naïve CD8⁺ T Cell Homeostasis. *Immunity.* **32**, 214-226.

Choi, S. Y., Y. S. Suh, J. H. Cho, H. T. Jin, J. Chang, and Y. C. Sung (2009) Enhancement of DNA Vaccine-Induced Immune Responses by Influenza Virus NP Gene. *Immune Network.* **9**, 169-178.

Boyman, O., J. H. Cho, and J. Sprent (2009) The role of IL-2 in memory CD8 differentiation. In "Memory T cells". Edited by Zanetti M and Schoenberger S. Published by Landes Bioscience.

Sprent, J., J. H. Cho, O. Boyman, and C. D. Surh (2008) T Cell Homeostasis. *Immunol. Cell Biol.* **86**, 312-319.

Ramsey, C., M. P. Rubinstein, D. M. Kim, J. H. Cho, J. Sprent, and C. D. Surh (2008) The Lymphopenic Environment of CD132 (γ_c)-Deficient Hosts Elicits Rapid Homeostatic Proliferation of Naïve T Cells via IL-15. *J. Immunol.* **180**, 5320-5326.

Sprent, J., and J. H. Cho (2008) Self/Non-Self Discrimination and The Problem of Keeping T Cells Alive. *Immunol. Cell Biol.* **86**, 54-56.

Cho, J. H., O. Boyman, H. O. Kim, B. Hahm, M. P. Rubinstein, C. Ramsey, D. M. Kim, C. D. Surh, and J. Sprent (2007) An Intense Form of Homeostatic Proliferation of Naïve CD8⁺ Cells Driven by IL-2. *J. Exp. Med.* **204**, 1787-1801.

Hahm, B., J. H. Cho, and M. B. A. Oldstone (2007) Measles Virus-Dendritic Cell Interaction via SLAM Inhibits Innate Immunity: Selective Signaling Through TLR4 But Not Other TLRs Mediates Suppression of IL-12 Synthesis. *Virology.* **358**, 251-257.

Boyman, O., J. H. Cho, J. T. Tan, C. D. Surh, and J. Sprent (2006) A Major Histocompatibility Complex Class I-Dependent Subset of Memory-Phenotype CD8⁺ Cells. *J. Exp. Med.* **203**, 1817-

1825.

Rubinstein, M. P., M. Kovar, J. F. Purton, J. H. Cho, O. Boyman, C. D. Surh, and J. Sprent (2006) Converting IL-15 to A Superagonist by Binding to Soluble IL-15R α . PNAS **103**, 9166-9171.

