

Curriculum Vitae

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Lab. of Cancer Stem Cells & Tumor Microenvironments
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EDUCATION & TRAINING

- Aug. 31, 2002 **Post-Doc.** in Institute for Virus Research
Kyoto University (Koich Ikuta Lab, JSPS fellowship), Japan
- Mar. 23, 2001 **Ph.D.** in Medical Science (Tasuku Honjo Lab. Immunology)
Kyoto University, Japan
- Feb. 22, 1996 **M.S.** in Microbiology (Kwang Ho Lee Lab. Molecular Immunology)
Kon-kuk University, Korea
- Feb. 22, 1994 **B.S.** in Molecularbiology
Kon-kuk University, Korea

PROFESSIONAL EXPERIENCE

- 2011.9-present **Professor**
Department of Pharmacology, Seoul National University College of Medicine
- 2006.9-2011.8 **Associate Professor**
Department of Pharmacology, Seoul National University College of Medicine
- 2002.9-2006.8 **Assistant Professor**
Department of Pharmacology, Seoul National University College of Medicine

RESEARCH INTERESTS

Our laboratory has been studying roles of STAT3 in cancer cells, cancer stem cells and immune cells, especially their communications and metastatic activity. Persistent activation of STAT3 is linked to tumor-associated angiogenesis, metastasis and tumor microenvironment, but underlying mechanisms remain unclear. Therefore, we examine whether STAT3 modulates the immune surveillance in tumor microenvironment, and in turn enhances an immune escape and carcinogenesis. First, identification and characterization of novel markers of STAT3 signaling for a better understanding of the molecular mechanisms by which STAT3 pathway is involved in cancer and cancer stem cell development. Second, identification and characterization of novel and potential inhibitors of STAT3 signaling. Consequently, our research will ultimately lead to

the development of better molecular markers for cancer diagnosis and better drugs for treatment of solid tumors and cancer stem cells.

PUBLICATIONS

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2. Kim YJ, Jeong AJ, Kim M, Lee C, **Ye SK**, Kim S. Time-averaged simulated microgravity (taSMG) inhibits proliferation of lymphoma cells, L-540 and HDLM-2, using a 3D clinostat. **Biomed Eng Online**. 2017 Apr 20;16(1):48. doi: 10.1186/s12938-017-0337-8. [IF : 1.382] (correspondence)
3. Yun UJ, Sung JY, Park SY, **Ye SK**, Shim J, Lee JS, Hibi M, Bae YK, Kim YN. Oncogenic role of rab escort protein 1 through EGFR and STAT3 pathway. **Cell Death Dis**. 2017 Feb 23;8(2):e2621. doi: 10.1038/cddis.2017.50. [IF : 5.378]

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5. Shin M, Yi EH, Kim BH, Shin JC, Park JY, Cho CH, Park JW, Choi KY, **Ye SK**. STAT3 Potentiates SIAH-1 Mediated Proteasomal Degradation of β -Catenin in Human Embryonic Kidney Cells. **Mol Cells**. 2016 Nov 30;39(11):821-826. Epub 2016 Nov 18. [IF : 2.090] (correspondence)
6. Choi Y, Oh ST, Won MA, Choi KM, Ko MJ, Seo D, Jeon TW, Baik IH, **Ye SK**, Park KU, Park IC, Jang BC, Seo JY, Lee YH. Targeting ODC1 inhibits tumor growth through reduction of lipid metabolism in human hepatocellular carcinoma. **Biochem Biophys Res Commun**. 2016 Sep 30;478(4):1674-81. doi: 10.1016/j.bbrc.2016.09.002. Epub 2016 Sep 2. [IF : 2.290]
7. Han S, Jeong AJ, Yang H, Bin Kang K, Lee H, Yi EH, Kim BH, Cho CH, Chung JW, Sung SH, **Ye SK**. Ginsenoside 20(S)-Rh2 exerts anti-cancer activity through targeting IL-6-induced JAK2/STAT3 pathway in human colorectal cancer cells. **J Ethnopharmacol**. 2016

- Dec 24;194:83-90. doi: 10.1016/j.jep.2016.08.039. Epub 2016 Aug 23. [IF : 2.998] (correspondence)
8. Kim BH, Yi EH, Ye SK. Signal transducer and activator of transcription 3 as a therapeutic target for cancer and the tumor microenvironment. **Arch Pharm Res.** 2016 Aug;39(8):1085-99. doi: 10.1007/s12272-016-0795-8. Epub 2016 Aug 11. Review.PMID:27515050 [IF : 2.046] (correspondence)

 9. Kim BH, Yoon BR, Kim EK, Noh KH, Kwon SH, Yi EH, Lee HG, Choi JS, Kang SW, Park IC, Lee WW, Ye SK. Alleviation of collagen-induced arthritis by the benzoxathiole derivative BOT-4-one in mice: Implication of the Th1- and Th17-cell-mediated immune responses. **Biochem Pharmacol.** 2016 Jun 15;110-111:47-57. doi: 10.1016/j.bcp.2016.03.018. Epub 2016 Mar 19. [IF : 5.009] (correspondence)

 10. Choi JH, Jang M, Kim EJ, Kim H, Ye SK, Cho IH. Oriental Medicine Woohwangchungsimwon Attenuates Kainic Acid-Induced Seizures and Neuronal Cell Death in the Hippocampus. **Rejuvenation Res.** 2016 Mar 16. [Epub ahead of print] [IF : 3.664]

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- signals of STATs., **Biochem Pharmacol**, 2013 Oct 1;86(7):950-9. [IF : 4.576] (*co-correspondence)
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MERBERSHIP & AWARD

Korean Society for Molecular and Cellular Biology (KSMCB); General Secretary (2015)

Korean Society for Cell Biology (KSCB); General Secretary (2010)

The Korean Association of Immunologists (KAI); Academic Committee (2005), International Exchange and Cooperation Committee (Vice chairman 2012)

The Korean Society of Pharmacology; JW Pharmaceutical CORPORATION Academic Award (2006)

Korean Society for Biochemistry and Molecular Biology (KSBMB); Joint Symposium between KSMCB (Organizer 2014)

Korean Journal of Physiology and Pharmacology ; Editorial Board member

INOWOE Research Award (2004 JAPAN)