

## CURRICULUM VITAE

**Name:** Hyun Seok Kim

**Present Position:** Assistant Professor  
Severance Biomedical Science Institute  
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### Education/Training:

11/2008 – 02/2014 Postdoc, Lab of Dr. Michael White  
Department of Cell Biology  
UT Southwestern Medical Center

08/2003 – 10/2008 Ph. D. in Computational Biology (Advisor: Dr. Justin Fay)  
Division of Biology and Biomedical Sciences  
Washington University in St. Louis

03/1995 – 02/1997 M. S. in Microbiology (Advisor: Dr. Kye Joon Lee)  
Department of Microbiology  
Seoul National University, Korea

03/1991 – 02/1995 B. S. in Microbiology, February 1995  
Department of Microbiology  
Seoul National University, Korea

### Professional Experience:

03/2014 – present Assistant Professor  
Yonsei University College of Medicine

01/1997 – 07/2003 Research Scientist  
R & D Center of Pharmaceuticals  
CJ institute of Science & Technology  
(Alternative to compulsory military service in Korea)

### Honors and Awards:

2016 Award for research excellence, Yonsei University College of  
Medicine

09/2010 – 06/2013 Cancer Prevention Research Institute of Texas (CPRIT)  
postdoctoral fellowship

01/2007 – 12/2007 Kauffman Life Science Entrepreneurship

### Selected Publications:

1. Lee, J.<sup>#</sup>, Kim, H.<sup>#</sup>, Lee, J. E.<sup>#</sup>, Shin, S.-J., Oh, S., Kwon, S., Kim, H., Choi, Y. Y., White, M. A., Paik, S., Cheong, J.-H.\* , **Kim, H. S.\*** (2018) Selective Cytotoxicity of the NAMPT inhibitor FK866 Toward Gastric Cancer Cells with Markers of the Epithelial-Mesenchymal Transition, Due to Loss of NAPRT **Gastroenterology** in press. [IF 18.392] <sup>#</sup>Equal contribution, \*Co-correspondence

2. McMillan, E. A., Ryu, M.-J.<sup>#</sup>, Diep, C. H.<sup>#</sup>, Mendiratta, S., Clemenceau, J. R., Vaden, R. M., Kim, J.-H., Motoyaji, T., Covington, K. R., Peyton, M., Huffman, K., Wu, X., Girard, L., Sung, Y., Chen, P-H, Mallipeddi, P. L., Lee, J. Y., Hanson, J., Voruganti, S., Yu, Y., Park, S., Sudderth, J., DeSevo, C., Muzny, D. M., Doddapaneni, H., Gazdar, A., Gibbs, R. A., Hwang, T-H, Heymach, J. V., Wistuba, I., Coombes, K. R., Williams, N. S., Wheeler, D. A., MacMillan, J. B., Deberardinis, R. J., Roth, M. G., Posner, B. A., Minna, J. D., **Kim, H. S.** \*, White, M. A.\* (2018) Chemistry-first approach for nomination of personalized treatment in lung cancer *Cell* 173, 1-15. <sup>#</sup>Equal contribution, \*Co-correspondence
3. Kwon, S., Kim, H., **Kim, H. S.** \* (2017) Identification of pharmacologically tractable protein complexes in cancer using R-based network clustering and visualization program MCODER. *BioMed Res Int* 1016305.
4. Kim, J., McMillan, E., **Kim, H. S.**, Venkateswaran, N., Makkar, G., Rodriguez-Canales, J., Villalobos, P., Neggers, J. E., Mendiratta, S., Wei, S., Landesman, Y., Senapedis, W., Baloglu, E., Chow, C-W. B., Frink, R. E., Gao, B., Roth, M., Minna, J. D., Daelemans, D., Wistuba, I. I., Posner, B. A., Scaglioni, P. P., White, M. A. (2016) XPO1-dependent nuclear export is a druggable vulnerability in KRAS-mutant lung cancer. *Nature* 538 (7623):114-117.
5. Oh, S., **Kim, H. S.**\*, (2016) Emerging power of proteomics for delineation of intrinsic tumor subtypes and resistance mechanisms to anti-cancer therapies. *Expert Rev Proteomics*. 13 (10): 929-939.
6. Kim, H., Kim, J., Kim, S. Y., Jo, D., Kim, J., Park, H. J., Jung, S. \*, **Kim, H. S.** \*, Lee, K. (2015) Meta-analysis of large-scale toxicogenomic data finds neuronal regeneration related protein (NREP) and cathepsin D (CTSD) to be novel biomarkers of drug-induced toxicity. *PLOS ONE* 10 (9), e0136698.
7. **Kim, H. S.**, Sung, Y.-J., Paik, S. (2015) Cancer Cell Line Panels Empower Genomics-Based Discovery of Precision Cancer Medicine. *Yonsei Med. J.* 56, 1186-98. (Review)
8. **Kim, H. S.**, Mendiratta S., Kim J., Pecot C.V., Larsen J.E., Zubovych, I., Seo B.Y., Kim J., Eskiocak B., Chung H., McMillan E., Wu S., De Brabander J., Komurov K., Wei S., Williams N., Gazdar A.F., Posner B.A., Brekken R., Sood A.K., Deberardinis R.J., Roth M.G., Minna J.D., White M.A. (2013) Systematic identification of molecular subtype-selective vulnerabilities in Non Small Cell Lung Cancer. *Cell*, 155, 552-566.
9. Potts, M. B.\* , **Kim, H. S.**\*, Fisher, K. W.\* , Hu, Y.\* , Carrasco, Y., Bulut, G. B., Ou, Y-H., Herrera-Herrera, M. L., Cubillos, F., Mendiratta, S., Xiao, G., Hofree, M., Ideker, T., Xie, Y., Huang, L. J., Lewis, R. E., MacMillan, J. B. & White, M. A. (2013) Using Functional Signature Ontology (FUSION) to Identify Mechanisms of Action for Natural Products. *Science Signaling*, 6, ra90. \* equal contribution
10. Singh N.K., Seo B.Y., Vidyasagar V., White M.A., **Kim H. S.**\* (2013) siMacro: a fast and easy data processing tool for cell-based genome-wide siRNA screens. *Genomics Inform.* 11, 55-57. \* Corresponding author
11. **Kim H. S.**, Minna J. D., White M. A. (2013) GWAS meets TCGA to illuminate mechanisms of cancer predisposition. *Cell*, 152, 387-389. (Preview)
12. **Kim, H. S.**, Huh, J., Riles, L., Reyes, A. & Fay, J. C. (2012) A non-complementation screen for quantitative trait alleles in *Saccharomyces cerevisiae*. *G3: GENES, GENOMES, GENETICS*, 2: 753-760. (Cover)
13. **Kim, H. S.** & Fay, J. C. (2009) A combined cross analysis reveals genes with drug-specific and background-dependent effects on drug-sensitivity in *Saccharomyces cerevisiae*. *Genetics* 183, 1141-1151.
14. **Kim, H. S.**, Huh, J. & Fay, J. C. (2009) Dissecting the pleiotropic consequences

- of a quantitative trait nucleotide. *FEMS Yeast Res.* 9, 713-722.
15. **Kim, H. S.** & Fay, J. C. (2007) Genetic variation in cysteine biosynthesis pathway causes sensitivity to pharmacological compounds. *PNAS* 104, 19387-19391.
  16. **Kim, H. S.**, Chung, Y. J., Jeon, Y. J. & Lee, S. H. (1999) Large-scale culture of hepatitis A virus in human diploid MRC-5 cells and partial purification of the viral antigen for use as a vaccine. *J. Microbiol. Biotechnol.* 9, 386-392.