

Jae Bum Kim

Professor
 Institute of Molecular Biology and Genetics, School of Biological Sciences, Seoul National University, Korea

Curriculum Vitae



Educational Background & Professional Experience

2000–Present	Professor, School of Biological Sciences, Seoul National University, Korea
1997–2000	Postdoctoral Fellow, Center for Cancer Research, MIT, USA
1996–1997	Postdoctoral Fellow, Dana–Farber Cancer Institute, Harvard Medical School, USA
1991–1996	Ph.D., Department of Microbiology & Molecular Genetics, Harvard University, USA
1988–1990	M.S., Department of Cell & Molecular Biology, Seoul National University, Korea
1984–1988	B.S., Department of Zoology, Seoul National University, Korea

Research Interests

- Molecular Mechanism of Adipocyte Differentiation and Turnover
- Gene Expression Regulation of Lipogenesis and Insulin–dependent Genes
- Innate and Adaptive Immune Responses in Adipose Tissue
- Molecular Mechanisms for Obesity and Diabetes

Publications

1. H. Nahmgoong, Y. G. Jeon, E. S. Park, Y. H. Choi, S. M. Han, J. Park, Y. Ji, J. H. Sohn, J. S. Han, Y. Y. Kim, I. J. Hwang, Y. K. Lee, J. Y. Huh, S. S. Choe, T. J. Oh, S. H. Choi, J. K. Kim, and J. B. Kim*. Distinct properties of adipose stem cell subpopulations determine fat depot–specific characteristics. *Cell Metab.*, 34:458–472, 2022.
2. G. Lee, Y. Y. Kim, H. Jang, J. S. Han, H. Nahmgoong, Y. J. Park, S. M. Han, C. Cho, S. Lim, J. Noh, W. K. Oh, C. Lee, S. Kim, and J. B. Kim*. SREBP1c–PARP1 axis tunes anti–senescence activity of adipocytes and ameliorates metabolic imbalance in obesity. *Cell Metab.*, 34:702–718, 2022.
3. J. Park, D. H. Lee, S. Ham, J. Oh, J. Noh, Y. K. Lee, Y. J. Park, G. Lee, S. M. Han, J. S. Han, Y. Y. Kim, Y. G. Jeon, H. Nahmgoong, K. C. Shin, S. M. Kim, S. H. Choi, C. Lee, J. Park, T. Y. Roh, S. Kim, and J. B. Kim*. Targeted erasing of DNA methylation drives adipogenic reprogramming. *Nat. Metab.*, 4(7):918–931, 2022.
4. S. M. Han, E. S. Park, J. Park, H. Nahmgoong, Y. H. Choi, J. Oh, K. M. Yim, W. T. Lee, Y. G. Jeon, K. C. Shin, J. Y. Huh, S. H. Choi, J. Park, J. K. Kim, and J. B. Kim*. Unique adipose tissue invariant natural killer T cell subpopulations control adipocyte turnover in mice. *Nat. Commun.*, 14:8512, 2023.
5. Y. G. Jeon, H. Nahmgoong, J. Oh, D. Lee, D. W. Kim, J. E. Kim, Y. Y. Kim, Y. Ji, J. S. Han, S. M. Kim, J. H. Sohn, W. T. Lee, S. W. Kim, J. Park, J. Y. Huh, K. Jo, J–Y Cho, J. Park, and J. B. Kim*. Ubiquitin Ligase RNF20 Coordinates Sequential Adipose Thermogenesis with Brown and Beige Fat–Specific Substrates. *Nat. Commun.*, 15:940, 2024.