CURRICULUM VITAE

Name: Jae Yong Han

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Position: Professor

Institution: Dept. of Agricultural Biotechnology, College of Agriculture and Life Sciences, Seoul National University

Location: Seoul National University, 1 Gwanak-ro, Gwanak-gu, Seoul 08826, Korea

Education:

- PH. D. 1991. Department of Animal Science, University of Minnesota, St. Paul, MN55108, USA.
  - Major: Animal Molecular Genetics
  - Advisor: Professors, K.S. Guise and R.N. Shoffner
- M. S. 1986. Department of Animal Science and Technology, Seoul National University, Seoul 08826 KOREA
  - Major: Animal Genetics and Breeding
  - Advisor: Professor, B.K. Ohh
- B. S. 1984. Department of Animal Science and Technology, Seoul National University, Seoul 08826 KOREA
  - Major: Animal Science

Representative Careers:

2015.07 - Present: Director, Center far Avian Germ Cell Modulation and Cloning, National Creative Research Initiatives.

2011.11 - 2014.12: President, 10th Asia Pacific Poultry Congress (APPC)

Specialty & Present Interest:

- Avian genome modification research for the bioreactor and biomodeling
- Molecular and cellular research of avian germ cells
- Transcriptional analysis on chicken early embryo

Representative papers (up to 5):

1. Hwang YS, Seo M, Kim SK, Bang S, Kim H, **Han JY**. (2018.10) Zygotic gene activation in the chicken occurs in two waves, the first involving only maternally derived genes. eLife. 7:e39381
2. Kim YM, Park JS, Kim SK, Jung KM, Hwang YS, Han MK, Lee HJ, Seo HW, Suh JY, Han BK, **Han JY**. (2018.06) The transgenic chicken derived anti-CD20 monoclonal antibodies exhibits

greater anti-cancer therapeutic potential with enhanced Fc effector functions. Biomaterials. 167:58-68.

3. Hwang YS, Seo M, Lee BR, Lee HJ, Park YH, Kim SK, Lee HC, Choi HJ, Yoon J, Kim H, **Han JY**. (2018.03) The transcriptome of early chicken embryos reveals signaling pathways governing rapid asymmetric cellularization and lineage segregation. Development. 14;145(6).
4. Lee HJ, Lee HC, Kim YM, Hwang YS, Park YH, Park TS, **Han JY**. (2016.02) Site-specific recombination in the chicken genome using Flipase recombinase-mediated cassette exchange. FASEB J. 30(2):555-63.
5. Park TS, Lee HJ, Kim KH, Kim JS, **Han JY**. (2014.09) Targeted gene knockout in chickens mediated by TALENs. Proc Natl Acad Sci U S A. 2;111(35):12716-21.