

# Jeong Tae DO Ph.D.



dojt@konkuk.ac.kr

Dr. Do is a Professor in Department of Stem Cell and Regenerative Biotechnology, Konkuk University, Seoul, South Korea. He serves as an Editorial board member for Scientific Reports (Nature Publishing Group) and International Journal of Stem Cells. His findings emphasize the importance of integration-free iPSCs for clinical applications. Recently, he also focuses on the formation of brain organoids and vascular organoids from human iPSCs, which will be used for disease modeling of neurological and neurovascular disorder.

## EDUCATION

He obtained his B.S., M.S., and Ph. D. from the Department of Animal Science, Konkuk University. He worked for University of Pennsylvania in the US, and Max-Planck Institute for Molecular Biomedicine in Germany during his Post-doc.

## EXPERTISE

Research focuses are mostly on pluripotent stem cells and developmental biology. His work spans multiple species, including mouse, chicken, cattle, pig, and human induced pluripotent stem cells (iPSCs).

## OTHERS

He has numerous publications in esteemed international journals, including Cell Stem Cells, Trends in Pharmacological Science, Redox Biology, Stem Cells, Stem Cell Reports, Cellular and Molecular Life Science, Scientific Reports. His dedication to advancing stem cell research and regenerative biotechnology underscores his influential role in the academic landscape.

## SELECTED PUBLICATIONS

## ACADEMIC APPOINTMENTS

- **2019 - present** : Professor, Department of Stem Cell and Regenerative Biotechnology, Konkuk University
- **2016 - 2019** : Associate professor, Department of Stem Cell and Regenerative Biotechnology, Konkuk University
- **2014 - 2016** : Associate professor, Department of Animal Biotechnology, Konkuk University
- **2012 - 2014** : Assistant professor, Department of Animal Biotechnology, Konkuk University
- **2009 - 2012** : Assistant professor, Department of Biomedical Science, CHA University
- **2004 - 2009** : Post-doc fellow, Max-Planck Institute for Molecular Biomedicine
- **2002 - 2004** : Post doc fellow, Center for Animal Transgenesis and Germ Cell Research, University of Pennsylvania

1. Seo, B.J., Hong, T.K., Yoon, S.H., Song, J.H., Uhm, S.J., Song, H., Hong, K., Scholer, H.R., Do, J.T. 2023. Embryonic stem cells lacking DNA methyltransferases differentiate into neural stem cells that are defective in self-renewal. *International Journal of Stem Cells*. 16(1): 44-51.
2. Song, J.H., Choi, J., Hong, Y.J., La, H., Hong, T.K., Hng, K., Do, J.T. 2022. Developmental potency and metabolic traits of extended pluripotency are faithfully transferred to somatic cells via cell fusion-induced reprogramming. *Cells*. 11(20): 3266.
3. Hong, T.K., Song, J.H., Lee, S.B., Do, J.T. 2021. Germ cell derivation from pluripotent stem cells for understanding in vitro gametogenesis. *Cells*. 10(8): 1889.
4. Lee, W.J., Lee, J.E., Hong, Y.J., Yoon, S.H., Song, H., Park, C., Hong, K., Choi, Y., Do, J.T. 2020. Generation of brain organoids from mouse ESCs via teratoma formation. *Stem Cell Research*. 49: 102100.