

**Bon-Kyoung Koo****Curriculum Vitae**

Director

Center for Genome Engineering, Institute for Basic Science, Korea

● **Educational Background & Professional Experience**

2023–Present	Director, Center for Genome Engineering, Institute for Basic Science
2021–2023	Associate Director, Center for Genome Engineering, IBS
2017–2023	Group Leader, Institute of Molecular Biotechnology (IMBA)
2013–2017	Group Leader, Cambridge Stem Cell Institute, Univ. of Cambridge
2009–2013	Postdoctoral fellow, Hubrecht Institute, KNAW (Mentor: Prof. Hans Clevers)
2006–2009	Postdoctoral fellow, POSTECH and SNU (Mentor: Prof. Young–Yun Kong)

● **Research Interests**

Organoids, Genome editing, Stem Cells, Mosaic genetics

● **Publications**

1. Ahn JY, ..., Koo BK<sup>+</sup>, Baek SH<sup>+</sup>. Dual function of PHF16 in reinstating homeostasis of murine intestinal epithelium after crypt regeneration. *Dev Cell*. 2024
2. Wu SS, ..., Colozza G<sup>+</sup>, Koo BK<sup>+</sup>. Red2Flpe–SCON: a versatile, multicolor strategy for generating mosaic conditional knockout mice. *Nat Comm*. 2024
3. J Kim, ..., Koo BK<sup>+</sup>, HJ Cha<sup>+</sup>. Partial in vivo reprogramming enables injury-free intestinal regeneration via autonomous Ptgs1 induction. *Science Advances*. 2023
4. Gabriele Colozza, ..., Koo BK<sup>+</sup>. Intestinal Paneth cell differentiation relies on asymmetric regulation of Wnt signaling by Daam1/2. *Science Advances*. 2023
5. Szu–Hsien Sam Wu, ..., Koo BK<sup>+</sup>. SCON—a Short Conditional intrON for conditional knockout with one-step zygote injection. *Experimental & Molecular Medicine*. 2022

