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 - **Current Position & Affiliation:** Assistant Professor / KAIST
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• Educational Background:

- 2007-2011 B.S. Biology, Korea University
- 2011-2017 Ph.D. Biological Sciences, Seoul National University

• Professional Experience:

- 2017-2017 Postdoctoral fellow, Seoul National University
- 2017-2022 Postdoctoral fellow, University of Cambridge
- 2022-present Assistant Professor, KAIST GSMSE

• Professional Organizations:

- International Society for Stem Cell Research (ISSCR) – early career committee (2022-2023) & member (2024-)
- Korean Cancer Association – Academic committee (2024-)
- Korean Society for Stem Cell Research (KSSCR) – International committee (2023) & Planning committee (2024-)

• Main Scientific Publications:

- Tak KY, Kim J, Park M, Kim W, Lee S, Park N, Kim MJ, Kang JB, Koh Y, Yang HY, **Yum MK**, Kim I, Yang YR, Jeong WI, Yang J, Lee C, Kim C, and Park JE (2025) Quasi-spatial single-cell transcriptome based on physical tissue properties defines early aging associated niche in liver. *Nature Aging* 5, 929-949
- **Yum MK**, Han S, Fink J, Wu SH, Dabrowska C, Trendafilova T, Mustata R, Chatzeli L, Azzarelli R, Lee E, England F, Kim JK, Philpott A, Lee JH, Koo BK and Simons BD. (2021) Tracing oncogene-driven paracrine remodeling of the intestinal stem cell niche. *Nature* 594, 442-447
- Han S, Fink J, Jörg DJ, Lee E, **Yum MK**, Chatzeli L, Merker SR, Josserand S,

Trendafilova T, Andersson-Rolf A, Dabrowska C, Kim H, Naumann R, Lee JH, Sasaki N, Mort RL, Basak O, Clevers Hans, Stange DE, Philpott A, Kim JK, Simons BD and Koo BK. (2019) Defining the Identity and Dynamics of Adult Gastric Isthmus Stem Cells. *Cell Stem Cell* 25, 342-356

- Kim JH, Han GC, Seo JY, Park I, Park W, Jeong HW, Lee SH, Bae SH, Seong J, **Yum MK**, Hann SH, Kwon YG, Seo DG, Choi MH and Kong YY. (2016) Sex hormones establish a reserve pool of adult muscle stem cells. *Nature Cell Biology* 18, 930-940.
- **Yum MK**, Kang JS, Lee AE, Jo YW, Seo JY, Kim HA, Kim YY, Seong J, Lee EB, Kim JH, Han JM, Kim S and Kong YY. (2016) AIMP2 Controls Intestinal Stem Cell Compartments and Tumorigenesis by Modulating Wnt/ β -Catenin Signaling. *Cancer Research* 76, 4559-4568.