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Educational Background

2005-2010	Dept. of Bio and Brain Engineering, KAIST, Ph.D.
2002-2004	Dept. of Bio and Brain Engineering, KAIST, M.S.
1998-2002	Dept. of Computer Science, KAIST, B.S.

Professional Experience

2014-current	Yonsei University College of Medicine, Assistant/Associate/Professor

Main Scientific Publications

1. Yoo-Jin Ha, … *et al …*, Spina Bifida Sequencing Consortium, **Sangwoo Kim***, Joseph G. Gleeson*, The Contribution of De Novo Coding Mutations to Meningomyelocele, *Nature 641, 419-426* (2025)
2. **Taek Chung**, **Seungho Oh, Jeongsoo Won, Jiho Park**, Jeong Eun Yoo, Ho Kyoung Hwang, Gi Hong Choi, Chang Moo Kang, Dai Hoon Kim, **Sangwoo Kim***, Young Nyun Park*, Genomic and Transcriptomic Signatures of Sequential Carcinogenesis from Papillary Neoplasm to Biliary Tract Cancer, *Journal of Hepatology* (2025)
3. Young-soo Chung†, Seungseok Kang†, Jisu Kim, Sangbo Lee, and **Sangwoo Kim***, CLEMENT: Genomic Decomposition and Reconstruction of Non-tumor Subclones, *Nucleic Acids Research* **2024,** 52(14):e62
4. Yoo-Jin Ha, Seungseok Kang, Jisoo Kim, Junhan Kim, Se-Young Jo, and **Sangwoo Kim*,** Comprehensive benchmarking and guidelines of mosaic variant calling strategies, *Nature Methods* **20**:2058-2067 (2023)
5. Junho Kim, Dachan Kim, Jae Seok Lim, Ju Heon Maeng, Hyeonju Son, Hoon-Chul Kang, Hojung Nam, Jeong Ho Lee* and **Sangwoo Kim*,** The use of technical replication for detection of low-level somatic mutations in next-generation sequencing, *Nature Communications* 2019, **10**, Article number 1047
6. Sora Kim†, Han Sang Kim†, Eunyoung Kim, Min Goo Lee, Eui-Cheol Shin**,** Soonmyung Paik and **Sangwoo Kim*,** Neopepsee: accurate genome-level prediction of neoantigens by harnessing sequence and amino acid immunogenicity information, *Annals of Oncology* 2018, 29(4):1030-1036