



KOREA UNIVERSITY
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CURRICULUM VITAE (Last updated: Jan/2025)

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Education

Mar /1998 – Feb /2004	Korea University College of Medicine - Seoul, Republic of Korea Doctor of Medicine
Sep /2005 – Feb /2008	Korea University Graduate School - Seoul, Republic of Korea Master of Medical Science
Mar /2009 – Feb /2015	Korea University Graduate School - Seoul, Republic of Korea Ph.D. in Medical Science

Hospital/Academic appointments

Mar /2004 – Feb /2009	Korea University Ansan Hospital – Ansan, Republic of Korea Intern/Resident
05/2009 – 04/2010	39th Regiment, 15th Division, Korean Army Medical Company Commander (Captain)
05/2010 – 04/2012	Armed Forces Medical Command - Bundang, Republic of Korea Medical Analyst (Captain)
May /2012 – Feb /2014	Department of Colorectal Surgery, Korea University Guro Hospital Seoul, Republic of Korea Clinical Instructor
Mar /2014 – Feb /2019	Department of Colorectal Surgery, Korea University Guro Hospital

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	Seoul, Republic of Korea
	Clinical Assistant Professor
Sep /2016 – Aug/2017	Department of Systems Biology, UT MD ANDERSON Cancer Center Texas, USA
	Visiting Assistant Professor
Mar /2019 – Feb /2023	Department of Colorectal Surgery, Korea University Guro Hospital Seoul, Republic of Korea
	Associate Professor
Mar /2023 – Present	Department of Colorectal Surgery, Korea University Guro Hospital Seoul, Republic of Korea
	Professor

Professional Memberships and Roles

Editorial Board Member of the Korean Colorectal Society

General Secretary of the Korean Hernia Society

Information Director, Korean Society of Robotic Surgery

Member, Specialist Examination Committee, Korean Society of Surgical Oncology

Publications and papers (*co-first author, †corresponding author)

1. Bong JW, Lee H, Jeong S, **Kang S†**. Older Age Threshold for Oxaliplatin Benefit in Stage II to III Colorectal Cancer. JAMA Netw Open. 2025;8(8):e2525660. doi:10.1001/jamanetworkopen.2025.25660
2. Cho N, Jeong I, Ahn S, Gil H, Kim Y, Park J, **Kang S**, Lee H. Machine Learning to Assist in Managing Acute Kidney Injury in General Wards: Multicenter Retrospective Study J Med Internet Res 2025;27:e66568 DOI: 10.2196/66568
3. Ju Y, Bong JW, Cheong C, **Kang S**, Min BW, Lee SI. Effective utilization of polypectomy in endoscopic salvage treatment of rectal neuroendocrine tumors: a retrospective cohort study. Ann Surg Treat Res. 2024 Sep;107(3):151-157.
4. Yang SS, Kye BH, **Kang SH**, Kim CH, Kim JH, Kim WR, Lee KY, Park IK. Intracorporeal anastomosis in minimally invasive right hemicolectomy: a nationwide survey of the Korean Society of Coloproctology. Ann Surg Treat Res. 2024 Aug;107(2):59-67.
5. Bong JW, Kim JY, Ju Y, Cheong C, **Kang S**, Lee SI, Min BW. Optimal withdrawal time in initial surveillance colonoscopy after colorectal cancer surgery: comparison between anterior/low anterior resection and right hemicolectomy. Ann Surg Treat Res. 2024 Oct;107(4):212-220.
6. Kim, B. G., Kim, B. R., Kim, D. Y., Kim, W. Y., **Kang, S.**, Lee, S. I., & Oh, S. C. (2024).

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Cannabidiol enhances Atezolizumab efficacy by upregulating PD-L1 expression via the cGAS–STING pathway in triple-negative breast cancer cells. *Cancer Immunology Research*, 12(12), 1796-1807.

7. Kim, B. R., Kim, D. Y., Tran, N. L., Kim, B. G., Lee, S. I., **Kang, S. H.**, ... & Oh, S. C. (2024). Daunorubicin induces GIL1-dependent apoptosis in colorectal cancer cell lines. *International Journal of Oncology*, 64(6), 1-13.
8. Cho, N. J., Jeong, I., Kim, Y., Kim, D. O., Ahn, S. J., **Kang, S. H.**, ... & Lee, H. (2024). A machine learning-based approach for predicting renal function recovery in general ward patients with acute kidney injury. *Kidney Research and Clinical Practice*, 43(4), 538.
9. Bong, Jun Woo, **Sanghee Kang***, and Pyoungjae Park. "Multicenter study of prognostic factors in paraaortic lymph node dissection for metastatic colorectal cancer." *Annals of Surgical Treatment and Research* 105.5 (2023): 271.
10. Bong, Jun Woo, Younhyun Na, Yeonuk Ju, Chinock Cheong, **Sanghee Kang**, Sun Il Lee, and Byung Wook Min. "Nomogram for Predicting the Overall Survival of Underweight Patients with Colorectal Cancer: A Clinical Study." *BMC gastroenterology* 23, no. 1 (2023): 39.
11. Jeong, Yun Seong, Young-Gyu Eun, Sung Hwan Lee, **Sang-Hee Kang***, Sun Young Yim, Eui Hyun Kim, Joo Kyung Noh, et al. "Clinically Conserved Genomic Subtypes of Gastric Adenocarcinoma." *Molecular cancer* 22, no. 1 (2023): 147.
12. Kang, A-Ram, Jung-Lim Kim, YoungHa Kim, **Sanghee Kang**, Sang-Cheul Oh, and Jong Kuk Park. "A Novel Rip1-Mediated Canonical Wnt Signaling Pathway That Promotes Colorectal Cancer Metastasis Via B-Catenin Stabilization-Induced Emt." *Cancer Gene Therapy* (2023): 1-11.
13. Yoon, Sunseok, Woong Bae Ji, Jung Sik Kim, Kwang Dae Hong, Jun Won Um, Byung-Wook Min, Sun-Il Lee, et al. "Long-Term Oncologic Outcome of D3 Lymph Node Dissection for Clinical Stage 2/3 Right-Sided Colon Cancer." *International Journal of Colorectal Disease* 38, no. 1 (2023): 42.
14. Bong, Jun Woo, Jung Ae Lee, Yeonuk Ju, Jihyun Seo, **Sang Hee Kang**, Sun Il Lee, and Byung Wook Min. "Treatment Outcomes of Patients with Involved Resection Margin after Rectal Cancer Surgery: A Nationwide Population-Based Cohort Study in South Korea." *Asia-Pacific Journal of Clinical Oncology* 18, no. 4 (2022): 378-87.
15. Bong, Jun-Woo, Jeong-An Gim, Yeonuk Ju, Chinock Cheong, Sun-Il Lee, Sang-Cheul Oh, Byung-Wook Min, and **Sanghee Kang†**. "Prognosis and Sensitivity of Adjuvant Chemotherapy in Mucinous Colorectal Adenocarcinoma without Distant Metastasis." *Cancers* 14, no. 5 (2022): 1297.
16. Hong, Kwang Dae, Keehoon Hyun, Jun Won Um, Seo-Gue Yoon, Jaewon Shin, Doo-seok Lee, Se-Jin Baek, et al. "Clinical Outcomes of Surgical Management for Recurrent Rectal Prolapse: A Multicenter Retrospective Study." *Annals of Surgical Treatment and Research* 102, no. 4 (2022): 234-40.
17. Lee, Sung Hwan, Sun Young Yim, Yun Seong Jeong, Qi-Xiang Li, **Sang-Hee Kang***, Bo Hwa Sohn, Shwetha V Kumar, et al. "Consensus Subtypes of Hepatocellular Carcinoma Associated with Clinical Outcomes and Genomic Phenotypes." *Hepatology* 76, no. 6 (2022): 1634-48.

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18. Park, Sangjee, Jun-Woo Bong, Inseo Park, Hwamin Lee, Jiyoung Choi, Pyoungjae Park, Yoon Kim, Hyun-Soo Choi, and **Sanghee Kang**†. "Conbert: A Concatenation of Bidirectional Transformers for Standardization of Operative Reports from Electronic Medical Records." *Applied Sciences* 12, no. 21 (2022): 11250.
19. Bong, Jun Woo, Younuk Joo, Jihyun Seo, **Sang Hee Kang**, Sun Il Lee, Pyoung-Jae Park, Sae-Byeol Choi, and Byung Wook Min. "Child-Turcotte-Pugh Score as a Predictive Factor for Long-Term Survival after Repeat Hepatectomy for Recurrent Liver Metastases of Colorectal Cancer." *International Surgery* 105, no. 1-3 (2021): 611-18.
20. Bong, Jun Woo, Yeonuk Ju, Jihyun Seo, **Sang Hee Kang**, Pyoung-Jae Park, Sae-Byeol Choi, Sun Il Lee, Sang Cheul Oh, and Byung Wook Min. "Effects of the Proximity of Metastasis to the Central Vessels of the Liver on Surgical Outcomes and Survival in Colorectal Cancer with Liver Metastasis." *ANZ Journal of Surgery* 91, no. 4 (2021): E183-E89.
21. Bong, Jun Woo, Yeonuk Ju, Jihyun Seo, Jung Ae Lee, **Sang Hee Kang**, Sun Il Lee, and Byung Wook Min. "Clinical Characteristics of Rectal Cancer Patients with Neoadjuvant Chemoradiotherapy: A Nationwide Population-Based Cohort Study in South Korea." *Annals of Surgical Treatment and Research* 100, no. 5 (2021): 282.
22. **Kang, Sanghee**. "Carcinoembryonic Antigen, the Most Accessible Test for Predicting Colorectal Cancer Prognosis: Exploring Alternative Roles." *Annals of Coloproctology* 37, no. 3 (2021): 129-30.
23. Kim, Ji-Seon, Se-Jin Baek, Jung-Myun Kwak, Jin Kim, Seon-Hahn Kim, Woong Bae Ji, Jung Sik Kim, et al. "Impact of D3 Lymph Node Dissection on Upstaging and Short-Term Survival in Clinical Stage I Right-Sided Colon Cancer." *Asian Journal of Surgery* 44, no. 10 (2021): 1278-82.
24. Kim, Namjoo, Jeong-An Gim, Beom Jae Lee, Byung il Choi, Seung Bin Park, Hee Sook Yoon, **Sang Hee Kang**, et al. "Rna-Sequencing Identification and Validation of Genes Differentially Expressed in High-Risk Adenoma, Advanced Colorectal Cancer, and Normal Controls." *Functional & Integrative Genomics* 21 (2021): 513-21.
25. Kim, Namjoo, Sung Min Kim, Beom Jae Lee, Hee Sook Yoon, **Sang Hee Kang**, Seung Han Kim, Moon Kyung Joo, Jong-Jae Park, and Chungyeul Kim. "Detection of Microsatellite Instability in Colorectal Cancer Patients with a Plasma-Based Real-Time Pcr Analysis." *Frontiers in Pharmacology* 12 (2021): 758830.
26. Bong, Jun Woo, Yeonuk Ju, Jihyun Seo, **Sang Hee Kang**, Pyoung-Jae Park, Sae-Byeol Choi, Sun Il Lee, Sang Cheul Oh, and Byung Wook Min. "Three-Dimensional Length from the Center of the Liver Is a Prognostic Factor of Colorectal Cancer with Liver Metastasis: A Retrospective Analysis." (2020).
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29. Kim, Bo Ram, Yoo Jin Na, Jung Lim Kim, Yoon A Jeong, Seong Hye Park, Min Jee Jo, Soyeon Jeong, et al. "Runx3 Suppresses Metastasis and Stemness by Inhibiting Hedgehog

Signaling in Colorectal Cancer." *Cell Death & Differentiation* 27, no. 2 (2020): 676-94.

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32. Kim, Hong Jun, **Sanghee Kang***, Dae Yeong Kim, Sanguan You, Daeho Park, Sang Cheul Oh, and Dae-Hee Lee. "Diallyl Disulfide (Dads) Boosts Trail-Mediated Apoptosis in Colorectal Cancer Cells by Inhibiting Bcl-2." *Food and Chemical Toxicology* 125 (2019): 354-60.
33. Jeong, Soyeon, Dae Yeong Kim, **Sang Hee Kang**, Hye Kyeong Yun, Jung Lim Kim, Bo Ram Kim, Seong Hye Park, et al. "Docosahexaenoic Acid Enhances Oxaliplatin-Induced Autophagic Cell Death Via the Er Stress/Sesn2 Pathway in Colorectal Cancer." *Cancers* 11, no. 7 (2019): 982.
34. Jeong, Soyeon, Hye Kyeong Yun, Yoon A Jeong, Min Jee Jo, **Sang Hee Kang**, Jung Lim Kim, Dae Yeong Kim, et al. "Cannabidiol-Induced Apoptosis Is Mediated by Activation of Noxa in Human Colorectal Cancer Cells." *Cancer letters* 447 (2019): 12-23.
35. **Kang, Sanghee**, Eui Hyun Kim, Jun-Eul Hwang, Ji-Hyun Shin, Yun Seong Jeong, Sun Young Yim, Eun Wook Joo, et al. "Prognostic Significance of High Metabolic Activity in Breast Cancer: Pet Signature in Breast Cancer." *Biochemical and biophysical research communications* 511, no. 1 (2019): 185-91.
36. Kim, Bo Ram, Yoon A Jeong, Min Jee Jo, Seong Hye Park, Yoo Jin Na, Jung Lim Kim, Soyeon Jeong, et al. "Genipin Enhances the Therapeutic Effects of Oxaliplatin by Upregulating Bim in Colorectal Cancer." *Molecular cancer therapeutics* 18, no. 4 (2019): 751-61.
37. Na, Yoo Jin, Bo Ram Kim, Jung Lim Kim, **Sanghee Kang**, Yoon A Jeong, Seong Hye Park, Min Jee Jo, et al. "Deficiency of 15-Lox-1 Induces Radioresistance through Downregulation of Macroph2a2 in Colorectal Cancer." *Cancers* 11, no. 11 (2019): 1776.
38. Park, Seong Hye, Min Jee Jo, Bo Ram Kim, Yoon A Jeong, Yoo Jin Na, Jung Lim Kim, Soyeon Jeong, et al. "Sonic Hedgehog Pathway Activation Is Associated with Cetuximab Resistance and Ephb3 Receptor Induction in Colorectal Cancer." *Theranostics* 9, no. 8 (2019): 2235.
39. Yim, Sun Young, Nahm Ji Hae, Ji-Hyun Shin, Yun Seong Jeong, **Sang-Hee Kang**, Young Nyun Park, Soon Ho Um, and Ju-Seog Lee. "Identification of Prognostic Biomarker in Predicting Hepatocarcinogenesis from Cirrhotic Liver Using Protein and Gene Signatures." *Experimental and Molecular Pathology* 111 (2019): 104319.
40. **Kang, Sanghee**, Bo Ram Kim, Myoung-Hee Kang, Dae-Young Kim, Dae-Hee Lee, Sang Cheul Oh, Byung Wook Min, and Jun Won Um. "Anti-Metastatic Effect of Metformin Via Repression of Interleukin 6-Induced Epithelial–Mesenchymal Transition in Human Colon Cancer Cells." *PloS one* 13, no. 10 (2018): e0205449.
41. **Kang, Sanghee**, Younghyun Na, Sung Yup Joung, Sun Il Lee, Sang Cheul Oh, and Byung

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42. **Kang, Sanghee**, Sang Cheul Oh, Byung Wook Min, and Dae-Hee Lee. "Transglutaminase 2 Regulates Self-Renewal and Stem Cell Marker of Human Colorectal Cancer Stem Cells." *Anticancer research* 38, no. 2 (2018): 787-94.
 43. Lee, Dong Jin, Young-Gyu Eun, Young Soo Rho, Eui Hyun Kim, Sun Young Yim, **Sang Hee Kang**, Bo Hwa Sohn, Gee Hwan Kwon, and Ju-Seog Lee. "Three Distinct Genomic Subtypes of Head and Neck Squamous Cell Carcinoma Associated with Clinical Outcomes." *Oral oncology* 85 (2018): 44-51.
 44. Yim, Sun Young, Jae-Jun Shim, Ji-Hyun Shin, Yun Seong Jeong, **Sang-Hee Kang**, Sang-Bae Kim, Young Gyu Eun, et al. "Integrated Genomic Comparison of Mouse Models Reveals Their Clinical Resemblance to Human Liver Cancer." *Molecular Cancer Research* 16, no. 11 (2018): 1713-23.
 45. Kim, Hyuk Jung, Byeong Geon Jeon, Chong Kun Hong, Kye Won Kwon, Seung Bong Han, Soya Paik, Suk Ki Jang, et al. "Low-Dose Ct for the Diagnosis of Appendicitis in Adolescents and Young Adults (Locat): A Pragmatic, Multicentre, Randomised Controlled Non-Inferiority Trial." *The Lancet Gastroenterology & Hepatology* 2, no. 11 (2017): 793-804.
 46. Yang, Hsien Wen, **Sang Hee Kang**, Sung Yeop Jung, Byung Wook Min, and Sun Il Lee. "Efficacy and Safety of a Novel Partially Absorbable Mesh in Totally Extraperitoneal Hernia Repair." *Annals of surgical treatment and research* 93, no. 6 (2017): 316-21.
 47. Kim, Bo Ram, Myoung Hee Kang, Jung Lim Kim, Yoo Jin Na, Seong Hye Park, Sun Il Lee, **Sanghee Kang**, et al. "Runx3 Inhibits the Metastasis and Angiogenesis of Colorectal Cancer." *Oncology reports* 36, no. 5 (2016): 2601-08.
 48. Kim, Jung Lim, Dae-Hee Lee, Yoo Jin Na, Bo Ram Kim, Yoon A Jeong, Sun Il Lee, **Sanghee Kang**, et al. "Iron Chelator-Induced Apoptosis Via the Er Stress Pathway in Gastric Cancer Cells." *Tumor Biology* 37 (2016): 9709-19.
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 50. Seo, Hyo Jung, Byung Wook Min, Jae Seon Eo, Sun Il Lee, **Sang Hee Kang**, Sung Yup Jung, Sang Chul Oh, and Jae Gol Choe. "Usefulness of 18 F-Fdg Pet/Ct to Detect Metastatic Mucinous Adenocarcinoma within an Inguinal Hernia." *Nuclear medicine and molecular imaging* 50 (2016): 85-89.
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 52. Hong KD, Um JW, Ji WB, Jung SY, **Kang S**, Lee SI, Min BW, Moon HY. "Endoscopic Obstruction in Rectal Cancers: Survival and Recurrence Patterns Following Curative Surgery." *J Laparoendosc Adv Surg Tech A*, no. 4 (2015): 278-84.
 53. Min⁴, Bo Ram Kim¹, Sang Cheul Oh², Dae-Hee Lee², Jung Lim Kim², Suk Young Lee², Myoung Hee Kang³, Sun Il Lee⁴, et al. "Bmp-2 Induces Motility and Invasiveness by Promoting Colon Cancer Stemness through Stat3 Activation." *Tumor Biol.* (2015).

54. **Sanghee Kang**, Hye Sung Jo, Yoon Jung Boo, Ji Sung Lee, Chong Suk Kim. "Occupational Stress and Related Factors among Surgical Residents in Korea." *Ann Surg Treat Res* (2015).
55. Hong KD, **Kang S**, Kalaskar S, Wexner SD. "Ligation of Intersphincteric Fistula Tract (LIFT) to Treat Anal Fistula: Systematic Review and Meta-Analysis." *Tech Coloproctol* 18, no. 8 (2014): 685-91.
56. **Kang, Sang Hee**, Yoon Jung Boo, Ji Sung Lee, Hyung Joon Han, Cheol Woong Jung, and Chong Suk Kim. "High Occupational Stress and Low Career Satisfaction of Korean Surgeons." *Journal of Korean Medical Science* 30 (2014).
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58. **Kang, Sang-Hee**, Yoon-Jung Boo, Ji-Sung Lee, Woong-Bae Ji, Byoung-Eun Yoo, and Ji-Young You. "Analysis of the Occupational Stress of Korean Surgeons: A Pilot Study." *Journal of the Korean Surgical Society* 84, no. 5 (2013): 261-66.
59. Park, Sung-Soo, **Sang-Hee Kang**, Joong-Min Park, Jong-Han Kim, Sang-Cheul Oh, Ju-Han Lee, Yang-Seok Chae, et al. "Expression of Liver–Intestine Cadherin and Its Correlation with Lymph Node Metastasis in Gastric Cancer: Can It Predict N Stage Preoperatively?". *Annals of surgical oncology* 14 (2007): 94-99.