Resume of Sini Kang

Basic Information

School:	School of Food Science and Engineering
Gender：	Female
Date of Birth：	198901
Title：	Lecturer
Education：	Ph. D of Food Nutrition
Tutor：	Master's degree
Interest of research:	Probiotics, Prebiotics, Gut microbiota

Academic Background

Aug 2020, graduated from Seoul National University, Ph.D of Food Nutrition.

Representative Projects

1. National Natural Science Foundation of China, "Study on the regulation of intestinal goblet-specific MUC2 secretion by butyl-fructooligosaccharides based on microbial interaction and differentiation of intestinal stem cells", 2024.01-2026.12, Project leader.
2. Natural Science Foundation of Hubei Province, "Study on the modulation of glycometabolism by butyl-fructooligosaccharides via gut microbiota", 2023.07-2025.06, Project leader.

Representative Articles

1. Kang, S., Xu, Y., Kang, Y., Rao, J., Xiang, F., Ku, S., ... & Zhou, M. (2024). Metabolomic insights into the effect of chickpea protein hydrolysate on the freeze-thaw tolerance of industrial yeasts. Food Chemistry, 138143.
2. Kang, S., Long, J., Park, M. S., Ji, G. E., Ju, Y., & Ku, S. (2024). Investigating human-derived lactic acid bacteria for alcohol resistance. Microbial Cell Factories, 23(1), 118.
3. Kang, S., Xu, Y., Zhang, Y., Gao, P., Guan, Y., Ku, S., ... & Li, H. (2023). Modulation of gut microbiota by chickpea-derived proteins and peptides with antioxidant capabilities. LWT, 187, 115341.
4. Kang, S., You, H. J., Ju, Y., Kim, H. J., Jeong, Y. J., Johnston, T. V., ... & Park, M. S. (2022). Butyl-fructooligosaccharides modulate gut microbiota in healthy mice and ameliorate ulcerative colitis in a DSS-induced model. Food & function, 13(4), 1834-1845.
5. Kang, S., Lin, Z., Xu, Y., Park, M., Ji, G. E., Johnston, T. V., ... & Park, M. S. (2022). A recombinant Bifidobacterium bifidum BGN4 strain expressing the streptococcal superoxide dismutase gene ameliorates inflammatory bowel disease. Microbial Cell Factories, 21(1), 1-11.

6. Kang, S., Guo, Y., Rao, J., Jin, H., You, H. J., & Ji, G. E. (2021). In vitro and in vivo inhibition of Helicobacter pylori by Lactobacillus plantarum pH3A, monolaurin, and grapefruit seed extract. Food & Function, 12(21), 11024-11032.
7. Kang, S., Li, R., Jin, H., You, H. J., & Ji, G. E. (2020). Effects of selenium-and zinc-enriched Lactobacillus plantarum SeZi on antioxidant capacities and gut microbiome in an ICR mouse model. Antioxidants, 9(10), 1028.
8. Kang, S., You, H. J., Lee, Y. G., Jeong, Y., Johnston, T. V., Baek, N. I., ... & Ji, G. E. (2020). Production, structural characterization, and in vitro assessment of the prebiotic potential of butyl-fructooligosaccharides. International Journal of Molecular Sciences, 21(2), 445.
9. Kang, S., Johnston, T. V., Ku, S., & Ji, G. E. (2020). Acute and sub-chronic (28-day) oral toxicity profiles of newly synthesized prebiotic butyl-fructooligosaccharide in ICR mouse and Wistar rat models. Toxicology Research, 9(4), 484-492.