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PERSONAL

Position title Professor of Environmental Health Microbiology
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EDUCATION AND TRAINING

2001 - 2003 Postdoctoral fellow, University of North Carolina. Chapel Hill, NC, USA
1996 - 2000 Sc.D. in Environmental Health Microbiology. Harvard University, Boston, MA, USA
1992 - 1994 M.S. in Microbiology. Seoul National University. Seoul, Korea
1988 - 1992 B.S. in Microbiology. Seoul National University. Seoul, Korea

ACADEMIC POSITIONS

2011 - Director, Center for Human and Environmental Microbiome, SNU
2012 - Professor of Environmental Health Microbiology, SNU
2011 - 2012 Visiting Scientist, Broad Institute of MIT and Harvard (for sabbatical leave)
2008 - 2010 Chair of Dept. of Environmental Health, School of Public Health, SNU
2005 - 2012 Assistant & Associate Professor, Dept. of Environmental Health, SNU
2003 - 2005 Assistant Professor, University of Texas Health Science Center at Houston

PROFESSIONAL SOCIETIES

2010 - Board Member, International Human Microbiome Consortium (IHMC)
2005 - Member, Korean Society of Microbiology and Biotechnology
2005 - Member, Microbiological Society of Korea
2005 - Member, Korean Society of Virology
2005 - Life time member, American Society of Virology
2000 - Member, American Society of Microbiology

PROFESSIONAL SERVICES

2018 Commendation from Minister, Ministry of Science and ICT
2018 Meditox Award Pioneering Research, Microbiological Society of Korea
2014 - Founder/CEO, KoBioLabs, Inc.
2014 - Global Engage Ltd, Scientific Advisory Board
2015 - Editorial Board, *Scientific Reports*
2007 - 2010 Managing Editor, *Journal of Microbiology*
2006 - Editorial Board, *Journal of Microbiology*
2006 - Editorial Board, *Journal of Microbiology and Biotechnology*
2006 - Editorial Board, *Journal of Environmental Health Sciences*
2006 - Member of Scientific Advisory Committee, Korean Food and Drug Administration (K-FDA)
2006 - Member of Scientific Advisory Committee, Korean Center for Disease Control

SELECTED PUBLICATIONS

1. Seo B, Jeon K, Moon S, Lee K, Kim WK, Jeong H, Cha KH, Lim MY, Kang W, Kweon MN, Sung J, Kim W, Park JH and **Ko G***. 2019. Roseburia spp. ameliorate alcoholic fat liver via restoration of gut barrier functions. *Cell Host Microbes*. In press.
2. Kim WK, Jang YH, Han DH, Seo B, Park S, Lee CH, and **Ko G***. 2019. Administration of *Lactobacillus fermentum* KBL375 causes taxonomic and functional changes in gut microbiota leading to improvement of atopic dermatitis. *Front Mol Biosci*. 27:6:92
3. Jang SJ, Lee K, Kwon B, You HJ, and **Ko G***, 2019, Vaginal lactobacilli inhibit growth and hyphae formation of *Candida albicans*. *Sci. Rep.* 31, 9(1):8121
4. Jang YJ, Kim WK, Han DH, Lee K, and **Ko G***. 2019. *Lactobacillus fermentum* species ameliorate dextran sulfate sodium-induced colitis by regulating the immune response and altering gut microbiota. *Gut Microbes*, 3:1-16
5. Si J, Lee C, and **Ko G***. 2017. Oral Microbiota: Microbial biomarkers of metabolic syndrome independent of host genetic factors, *Front Cell Infect Microbiol*. 15;7:516
6. Si J, You HJ, Sung J, and **Ko G***. 2017. *Prevotella* as a hub for vaginal microbiota under the influence of host genetics and their association with obesity. *Cell Host Microbe*. 21(1):97-105.
7. Lim MY, You HJ, Yoon HS, Kwon B, Lee KY, Lee S, Song YM, Sung J, **Ko G***. 2017. The effect of heritability and host genetics on the gut microbiota and metabolic syndrome. *Gut*, Apr 6, 2015-311326
8. Lee H and **Ko G***, 2016, Antiviral effect of vitamin A on norovirus infection via modulation of the gut microbiome, *Sci. Rep.* 16:6:25835
9. Lim MY, You HS, Rho M, Sung J, Lee K, **Ko G***. 2016. Analysis of the association between host genetics, smoking, and sputum microbiota in healthy humans. *Sci. Rep.*, 31:6:23745
10. Yassour M, Lim My, Yun HS, Tickie TL, Sung J, Song YM, Lee K, Franzosa EA, Morgan XC, Gevers D, Landers ES, Xavier RJ, Birren BW, **Ko G**, and Huttenhower G, 2016, Subclinical detection of gut microbial biomarkers of obesity and type 2 diabetes, *Genome Med*, 17(8):17
11. Si J, Lee S, Park JM, Sung J, and **Ko G***. 2015. Genetic associations and shared environmental effects on the skin microbiome of Korean twins. *BMC Genomics*, 23:16:992.
12. Lee S, Cantarel B, Henrissat B, Gevers D, Birren BW, Huttenhower C, **Ko G***. 2014. Gene-targeted metagenomic analysis of glucan-branching enzyme gene profiles among human and animal fecal microbiota. *ISME J*. 8:493-503.
13. Lim MY, Rho M, Song YM, Lee KY, Sung J, **Ko G***. 2014. Stability of gut enterotypes in Korean monozygotic twins and their association with biomarkers and diet. *Sci. Rep.* 8:4:7328.
14. Lee H, **Ko G***. 2014. Effect of metformin on metabolic improvement and gut microbiota. *Appl Environ Microbiol*. 80:5935-5943.