

• **Name:** Kwang Suk KO

• **Current Position:** Associate Professor, Department of Nutritional Science and Food Management, Ewha Womans University

• **Country:** Korea

• **Educational Background:**

- 2007-2012 Post-doctoral research training, Keck School of Medicine, University of Southern California, Los Angeles, CA (PI: Shelly C Lu, MD)
- 2002-2006 PhD, Graduate Program in Nutritional Biology, Department of Molecular Biosciences, School of Veterinary Medicine, University of California Davis, Davis, CA (Advisor & PI: Quinton R Rogers PhD)
- 1998-2000 MS, Animal Nutrition, Department of Animal Science, Korea University, Seoul, Korea (Advisor & PI: Yong-Seok Son PhD)
- 1992-1998 BS, Department of Animal Science, Korea University, Seoul, Korea (Advisor & PI: Yong-Seok Son PhD)

• **Professional Experiences:**

- 2018-present Associate Editor of Journal of Medicinal Food
- 2018-present Committee chair of Academia-Industry Cooperation at Korean Society of Nutrition
- 2017-present Chair of Institutional Review Board (IRB) at Ewha Womans University
- 2016-present Council Board, Jeju-Seoul Scholarship Selection Committee
- 2016-present Department Chair of Graduate School of Education (Human Ecology Major)
- 2015-2017 Editor of the Korean Society of Food Science and Nutrition
- 2015-present Academic Advisory Committee Member of Korean Society of Nutrition
- 2015-2017 Editorial Board of the Korean Society of Food Science and Technology
- 2015-2017 Expert Secretary of Institutional Review Board (IRB) at Ewha Womans University
- 2014-present Board member of Institutional Review Board (IRB) at Ewha Womans University
- 2014-2015 Editorial Board of the Korean Society of Food Science and Nutrition
- 2014-2014 Secretary of Functional Food Subcommittee of the Korean Society of Food Science and Nutrition
- 2013-2016 Council Board, Jeju-Seoul Scholarship Committee
- 2012-2017 Assistant Professor at the Department of Nutritional Science and Food Management, Ewha Womans University, Seoul, Korea
- 2007-2012 Post-doctoral research associate, Keck School of Medicine, University of Southern California, Los Angeles, CA
- 2002-2006 Research assistant, Department of Molecular Biosciences, School of Veterinary Medicine, University of California Davis, Davis, CA
- 1998-2000 Research assistant and teaching assistant, Department of Animal Science, Korea University, Seoul, Korea

• **Professional Organizations:**

- 2005-present American Society of Nutrition (ASN), Associate Member
- 2010-present American Association for the Study of Liver Diseases (AASLD), International Member
- 2010-present The Korean Nutrition Society (KNS), Member
- 2012-present The Korean Society of Food Science and Nutrition (KFN), Member
- 2012-present Korean Society of Food Science and Technology (KoSFoST), Member
- 2015-present Korean Society of Cancer Prevention (KSCP), Member

• Main Scientific Publications: (Peer reviewed:)

1. Lee SH, Kim KD, **Ko Kwang Suk**, Son YS. Retinoic acid levels and function of porcine thyroid cells in vitro. *Journal of Animal Science & Technology(Kor)* 2000;42(2):165-72
2. Backus RC, **Ko Kwang Suk**, Fascetti AJ, Kittleson MD, MacDonald KA, Maggs DJ, Berg JR, Rogers QR. Low plasma taurine concentration in Newfoundland dogs is associated with low plasma methionine and cyst(e)ine concentrations and low taurine synthesis. *Journal of Nutrition* 2006 Oct;136(10):2525-33 (PMID:16988121)
3. **Ko Kwang Suk**, Torres CL, Fascetti AJ, Stipanuk MH, Hirschberger L, Rogers QR. Copper deficiency does not lead to taurine deficiency in rat. *Journal of Nutrition* 2006 Oct;136(10):2502-5 (PMID:16988117)
4. **Ko Kwang Suk**, Backus RC, Berg JR, Lame MW, Rogers QR. Differences in taurine synthesis rate among dogs relate to differences in their maintenance energy requirement. *Journal of Nutrition* 2007 May;137(5):1171-5 (PMID:17449577)
5. **Ko Kwang Suk**, Yang H, Nouredin M, Iglesia-Ara A, Xia M, Wagner C, Luka Z, Mato JM, Lu SC. Changes in S-adenosylmethionine and GSH homeostasis during endotoxemia in mice. *Lab Investigation* 2008 Oct;88(10):1121-9 (PMID:18695670)
6. Yang H, Li TWH, **Ko Kwang Suk**, Xia M, Lu SC. Switch from Mnt-Max to Myc-Max induces p53 and cyclin D1 expression and apoptosis during cholestasis in mice and human hepatocytes. *Hepatology* 2009 Mar;49(3):860-70 (PMID:19086036)
7. Yang H, Ramani K, Xia M, Oh P, Li TWH, **Ko Kwang Suk**, Lu SC. Dysregulation of glutathione synthesis during cholestasis: Molecular mechanisms and therapeutic implications. *Hepatology* 2009 Jun;49(6):1182-91 (PMID:19399914)
8. Lu SC, Ramani K, Ou X, Lin M, Yu V, **Ko Kwang Suk**, Park R, Bottiglieri T, Tsukamoto H, Kanel G, French SW, Mato JM, Moats R, Grant E. S-adenosylmethionine in the chemoprevention and treatment of hepatocellular carcinoma in rat model. *Hepatology* 2009 Aug;50(2):462-71 (PMID:19444874)
9. Yang H, **Ko Kwang Suk**, Xia M, Li TWH, Oh P, Li J, Lu SC. Induction of avian musculoaponeurotic fibrosarcoma proteins by toxic bile acid inhibits expression of glutathione synthetic enzymes and contributes to cholestatic liver injury in mice. *Hepatology* 2010 Apr;51(4):1290-301 (PMID:20146260)
10. Li J, Ramani K, Sun Z, Zee C, Grant EG, Yang H, Xia M, Oh P, **Ko Kwang Suk**, Mato JM, Lu SC. Forced expression of methionine adenosyltransferase 1A in human hepatoma cells suppresses in vivo tumorigenicity in mice. *Am J. Pathol.* 2010 May;176(5):2456-66 (PMID:20363925)
11. Tomasi ML, Ramani K, Lopitz-Otsoa F, Rodriguez MS, Li TWH, **Ko Kwang Suk**, Yang H, Bardag-Gorce F, Iglesia-Ara A, Feo F, Pascale MR, Mato JM, Lu SC. S-adenosylmethionine regulates dual-specificity mitogen-activated protein kinase phosphatase expression in mouse and human Hepatocytes. *Hepatology* 2010 Jun;51(6):2152-61 (PMID:20196119)
12. **Ko Kwang Suk**, Tomasi ML, Igesias-Ara A, French BA, French SW, Ramani K, Lozano JJ, Oh P, He L, Stiles BL, Li TWH, Yang H, Martinez-Chantar ML, Mato JM, Lu SC. Liver-Specific deletion of prohibitin1 results in spontaneous liver injury, fibrosis and hepatocellular carcinoma in mice. *Hepatology* 2010 Dec;52(6):2096-2108 (PMID:20890892), Selected for cover figure.
13. Yang H, Li TWH, Peng J, Tang X, **Ko Kwang Suk**, Xia M, Aller MA. A mouse model of cholestasis-associated cholangiocarcinoma and transcription factors involved in progression. *Gastroenterology* 2011 Jul;141(1):378-388.e4 (PMID:214405490), Selected for editorials
14. **Ko Kwang Suk**, Peng H, Tang H, Cho ME, Peng J, Aller M, Yang H. Recent advances of miRNA involvement in hepatocellular carcinoma and cholangiocarcinoma. *Open Journal of Internal Medicine* 2012;2:135-162
15. Lamani K, Tomasi ML, Yang H, **Ko Kwang Suk**, Lu SC. Mechanism and significance of changes in glutamate-cysteine ligase expression during hepatic fibrogenesis. *Journal of Biological Chemistry* 2012 Oct;287(43):36341-55 (PMID: 22942279)
16. 고희석. 황함유 아미노산의 간기능 보호작용(Hepatoprotective functions of sulfur containing amino acids: Hepatocellular carcinoma prevention) *한국식품과학회지(Korean J Food Sci Technol)* 2012 Dec;44(6):653-657
17. Yang H, Cho ME, Li TWH, Peng H, **Ko Kwang Suk**, Mato JM, Lu SC. MicroRNAs regulate methionine adenosyltransferase 1A expression in hepatocellular carcinoma. *Journal of Clinical Investigation* 2013 Jan;123(1):285-298 (PMID: 23241961)
18. **Ko Kwang Suk**, Peng J, Yang H. Animal models of cholangiocarcinoma. *Current Opinion in Gastroenterology* 2013 May;29(3):312-318 (PMID: 23434850)
19. Peng J, Yue C, Qiu K, Chen J, Aller M, **Ko Kwang Suk**, Yang H. Protective effects of guava pulp on cholestatic

- liver injury. *ISRN Hepatology* 2013, Article ID 601071, 11pages (<http://www.hindawi.com/journals/isrn/2013/601071/>)
20. Tomasi ML, Ryoo M, Yang H, Ara AI, **Ko Kwang Suk**, Lu SC. Molecular mechanisms of lipopolysaccharide-mediated inhibition of glutathione synthesis in mice. *Free Radical Biology & Medicine* 2014 Mar;68:148-58 (PMID: 24296246)
 21. 이상훈, 송영선, 이서연, 김소영, 고광석. 급성 알코올 간독성을 유발한 생쥐에 있어서 으름 열매 추출물의 간 기능 보호효과 (Protective effects of *Akebia quinata* fruit extract on acute alcohol-induced hepatotoxicity in mice) *한국식품과학회지(Korean J Food Sci Technol)* 2014 Oct;46(5) 622-629
 22. Ting Liu, Yu Zhou, **Ko Kwang Suk**, H Yang. Interactions between Myc and Mediators of Inflammation in Chronic Liver Disease. *Mediators of Inflammation* 2014, Article ID 276850, 12pages (<http://www.hindawi.com/journals/mi/aa/276850/cta/>)
 23. 광정은, 이서연, 이상훈, 고광석. 대중매체 식품영양정보에 대한 성인 여성의 요구도 조사 (A survey for needs and preference of food and nutrition information on mass media for Korean female adults) *대한지역사회영양학회지 (Journal of Community Nutrition)* 2014 Dec;19(6) 550-557
 24. 정수한, 이상훈, 고광석. 다양한 마늘 추출물이 HepG2 세포에서 콜레스테롤 합성에 미치는 효과 (Effects of various garlic extracts on cholesterol synthesis in HepG2 cells) *한국식품영양과학회지 (Journal of the Korean Society of Food Science and Nutrition)* 2015 44(12): 1771-1778
 25. 정수한, 이상훈, 고광석. Oleanolic acid와 hederagenin이 급성 알코올성 간독성에 미치는 효과 (Effects of oleanolic acid and hederagenin on acute alcohol-induced hepatotoxicity in mice) *한국식품영양과학회지 (Journal of the Korean Society of Food Science and Nutrition)* 2016 Mar;45(3) 307-312
 26. Jung SH, Lee SH, Song YS, Lee SY, Kim SY, **Ko Kwang Suk**. Effects of beverage containing fermented *Akebia quinata* extracts on alcohol hangover. *Preventive Nutrition and Food Science* 2016 Mar;21(1): 1-9
 27. **Ko Kwang Suk**, Fascetti AJ. Dietary beet pulp decreases taurine status in dogs fed a low protein diet. *Journal of Animal Science and Technology* 2016 58:29 (open access journal, published Aug 2nd 2016)
 28. Lee SY and **Ko Kwang Suk**. Effects of S-adenosylmethionine and its combinations with taurine and/or betaine on glutathione homeostasis in ethanol-induced acute hepatotoxicity models. *Journal of Cancer Prevention* 2016 Sep 21(3): 164-172
 29. Lee SY and Ko Kwang Suk. Protective effects of S-adenosylmethionine and its combinations with taurine and/or betaine against lipopolysaccharide or polyinosinic-polycytidylic acid-induced hepatotoxicity. *Journal of Cancer Prevention* 2016 Sep 21(3): 152-163
 30. Lee SH, Kim JM, Ryu YC and Ko Kwang Suk. Effects of morphological characteristics of muscle fibers on porcine growth performance and pork quality. *Korean Journal for Food Science of Animal Resources* 2016 Oct 36(5): 583-593
 31. 이윤지, 고광석. 유산균 배양액 추출액의 항병원성 효과 및 냉장저장 육제품의 품질에 미치는 효과 (Effects of extract of lactic acid bacteria culture media on quality characteristics of pork loin and antimicrobial activity against pathogenic bacteria during cold storage) *한국식품영양과학회지 (Journal of the Korean Society of Food Science and Nutrition)* 2016 Oct 45(10): 1476-1480
 32. 이혜림, 홍은아, 고광석, 이경은. 어머니의 식습관, 요리습관 및 운동습관과 학령기 후기 아동의 Broca 체질량지수와의 상관관계 연구 (Relationship between Broca Index of the late school-aged children and their mothers' eating, cooking and exercise habit) *한국식품영양과학회지 (Journal of the Korean Society of Food Science and Nutrition)* 2016 Oct 45(10): 1488-1496
 33. Ramani K, Mavila N, Ko Kwang Suk, Mato JM, Lu SC. Prohibitin 1 Regulates the H19-Igf2 Axis and Proliferation in Hepatocytes. *Journal of Biological Chemistry* 2016 Nov 291(46): 24148-24159
 34. Jung S, Kim MH, Park JH, Jeong Y, Ko Kwang Suk. Cellular antioxidant and anti-inflammatory effects of coffee extracts with different roasting levels. *Journal of Medicinal Food* 2017 20(6): 626-635
 35. Lee SH, Song YS, Ko Kwang Suk. Anti-oxidative and anti-inflammation activity of *Akebia quinata* extracts in acute alcohol-induced hepatotoxicity in vitro. *Journal of Medicinal Food* 2017 20(9): 912-922
 36. Lee YJ, Ko Kwang Suk etc. Clustering of health risk behaviors for chronic diseases in Korean adults. *Korean Journal of Health Education and Promotion* 2017 34(9): 21-31