



CV Template of KATRD International Conference 2021

Name	Woo Jin Kim			
First Name	Woo Jin	Last Name	Kim	
Country	Korea			
Organization	Department of Internal Medicine, Kangwon National University Hospital			
Current Position	M.D., Ph.D.			

Educational Background

1994: M.D., Seoul National University College of Medicine, Seoul, Korea
 1995 - 1999: Residency in Internal Medicine, Seoul National University Hospital, Seoul, Korea
 2002 - 2003: Fellowship in respiratory and critical care, Seoul National University Hospital
 2006: Ph.D., Hallym University Postgraduate School, Seoul, Korea
 2007 - 2008: Research Fellow, Channing Laboratory, Boston, MA

Professional Experiences

2003 - : Professor, Department of Internal Medicine, Kangwon National University Hospital
 2012 - : Director, Environmental Health Center, Kangwon National University Hospital

Professional Organizations

2020 - Head of Environment & Occupational Health and Epidemiology assembly, Asia-Pacific Society of Respiriology
 2021- Board member of KATRD
 2017 - *BMC Pulm Med*, Editorial Board Member
 2021- *Tuberc Respir Dis*, Associate Editor

Main Scientific Publications

1. Kim TW, Choi ES, **Kim WJ**, Cho HS. The association with COPD readmission rate and access to medical institutions in elderly patients. *Int J Chron Obstruct Pulmon Dis* 2021;16:1599-1606
2. Yang S, Kim OJ, Shin M, **Kim WJ**, Kim SY. Association between long-term exposure to high levels of ambient air pollution and incidence of lung cancer in a population-based cohort. *Environ Res* 2021;198:111214
3. Park J, Kim J, Kim E, **Kim WJ**, Won SH. Prenatal lead exposure and cord blood DNA methylation in the Korean Exposome Study. *Environ Res* 2021;195:110767
4. Kang HS, Bak SH, Oh HY, Lim MN, Ch YK, Yoon HJ, **Kim WJ**. Computed tomography-based visual assessment of chronic obstructive pulmonary disease: comparison with pulmonary function test and quantitative computed tomography. *J Thorac Dis* 2021;13:1495-1506
5. Heo Y, Heo J, Han SS, **Kim WJ**, Cheong HS, Hong Y. Difference of copy number variation in blood of patients with lung cancer. *Int J Biol Markers* 2021;36:3-9



6. Kim JH, An GH, Kim JY, Rasaei R, **Kim WJ**, Jin X, Woo DH, Han C, Yang SR, Kim JH, Hong SH. Human pluripotent stem-cell-derived alveolar organoids for modeling pulmonary fibrosis and drug testing. *Cell Death Discovery* 2021;7:48
7. Lee KS, Kim KH, Oh YM, Han B, **Kim WJ**. A genome-wide association study for lung function in the Korean population using an exome array. *Korean J Intern Med* 2021;36S1:S142-S150
8. Kim Y, Bak SH, Kwon SO, Kim H, **Kim WJ**, Lee CY. Association between long-term exposure to PM_{2.5} and lung imaging phenotype in CODA cohort. *Atmosphere* 2021;12:282
9. Kim J, Kim B, Bak SH, Oh YM, **Kim WJ**. A comparative study of chest CT findings regarding the effects of regional dust exposure on patients with COPD living in urban areas and rural areas near cement plants. *Respir Res* 2021;22:43
10. Ho TT, Kim T, **Kim WJ**, Lee CH, Chae KJ, Bak SH, Kwon SO, Jin GY, Park EK, Choi S. A 3D-CNN model with CT-based parametric response mapping for classifying COPD subjects. *Sci Rep* 2021;11:34
11. Kim SY, Kim E, **Kim WJ**. Health effects of ozone on respiratory diseases. *Tuberc Respir Dis* 2020;83 Supple1:S6-S11
12. Kim JH, Kim J, **Kim WJ**, Choi YH, Yang SR, Hong SH. Diesel particulate matter 2.5 induces epithelial-to-mesenchymal transition and upregulation of SARS-CoV-2 receptor during human pluripotent stem cell-derived alveolar organoid development. *Int J Environ Res Public Health* 2020;17:8410
13. Jo HS, Jeong S, **Kim WJ**, Park S, Yu SA. Development of a transitional care model program for patients with pneumonia, asthma, and chronic obstructive pulmonary disease: In-depth interviews with readmitted patients. *J Korean Med Sci* 2020;35:e352
14. Bak SH, Kim JH, Jin H, Kwon SO, Kim B, Cha YK, **Kim WJ**. Emphysema quantification using low-dose computed tomography with deep learning-based kernel conversion comparison. *Eur Radiol* 2020;30:6779-87
15. Kwon SO, Hong SH, Han YJ, Bak SH, Kim J, Lee MK, London SJ, **Kim WJ**, Kim SY. Long-term exposure to PM₁₀ and NO₂ in relation to lung function and imaging phenotypes in a COPD cohort. *Respir Res* 2020;21:247
16. Lee SA, Joshi P, Kim Y, Kang D, **Kim WJ**. The association of dietary macronutrients with lung function in healthy adults using the Ansan-Ansung cohort study. *Nutrients* 2020;12:2688
17. Park B, An J, Kim W, Kang HY, Koh SB, Oh B, Jung KJ, Jee SH, **Kim WJ**, Cho MH, Silverman EK, Park T, Won S. Effects of 6p21 region on lung function is modified by smoking: a genome-wide interaction study. *Sci Rep* 2020;10:13075
18. Moll M, Sakornsakolpat P, Shrine N, Hobbs BD, DeMeo DL, John C, Guyatt AL, McGeachie MJ, Gharib SA, Obeidat M, Lahousse L, Wijnant SRA, Brusselle G, Meyers DA, Bleecker ER, Li X, Tal-Singer R, Manichaikul A, Rich SS, Won S, **Kim WJ**, Do AR, Washko GR, Barr RG, Psaty BM, Bartz TM, Hansel NN, Barnes K, Hokanson JE, Crapo JD, Lynch D, Bakke P, Gulsvik A, Hall IP, Wain L; International COPD Genetics Consortium; SpiroMeta Consortium, Weiss ST, Silverman EK, Dudbridge F, Tobin MD, Cho MH. Chronic obstructive pulmonary disease and related phenotypes: polygenic risk scores in population-based and case-control cohorts. *Lancet Respir Med* 2020;8:696-708
19. Kang J, Oh YM, Lee JH, Kim EK, Lim SY, **Kim WJ**, Yoon HI, Kim TH, Park TS, Kim SO, Lee SW, Lee WD, Lee JS. Distinctive patterns of pulmonary function change according to baseline lung volume and diffusing capacity. *Int J Tuberc Lung Dis* 2020;24:597-605
20. Kim T, Cho HB, **Kim WJ**, Lee CH, Chae KJ, Choi SH, Lee KE, Bak SH, Kwon SO, Jin GY, Choi J, Park EK, Lin CL, Hoffman EA, Choi S. Quantitative CT-based structural alterations of segmental airways in cement dust-exposed subjects. *Respir Res* 2020;21:133
21. Park J, Kwon SO, Kim SH, Kim SJ, Koh EJ, Won S, **Kim WJ**, Hwang SY. Methylation quantitative trait loci analysis in Korean exposome study. *Mol Cell Toxicol* 2020;16:175-83
22. Moon DH, Kwon SO, Kim SY, **Kim WJ**. Air pollution and incidence of lung cancer by histologic type in Korean adults: A Korean National Health Insurance Service Health Examinee Cohort Study. *Int J Environ Res Public Health* 2020;17:915
23. Lee H, Choi H, Sim YS, Park S, **Kim WJ**, Yoo KH, Lee SJ, Kim TH, Yang B, Jeong I, Um SJ, Kim DK, Lee JH, Kwon BS, Cho YJ, Park HY, Lee CH, Rhee CK, Lee SH, Na JO, Jang AS, Jung JY, Ra SW, Lee JH, Kim SH, Kim C, Kim Y, Lee CY, Kim HK, Lee JS, Lee SW, Oh YM. KMBARC registry: protocol for a multicenter observational cohort study on non-cystic fibrosis bronchiectasis in Korea. *BMJ Open* 2020;10:e034090
24. Choi HS, Park YB, Yoon HK, Lim SY, Kim TH, Park JH, Lee WY, Park SJ, Lee SW, **Kim WJ**, Kim KU, Shin KC, Kim DJ, Kim TE, Yoo KH, Shim JJ, Hwang YI. Validation of previous spirometric reference equations and new equations. *J Korean Med Sci* 2019;34:e304



25. Schraufnagel DE, Balmes JR, Matteis SD, Hoffman B, **Kim WJ**, Perez-Padilla R, Rice M, Sood A, Vanker A, Wuebbles DJ. Health benefits of air pollution reduction. *Ann Am Thorac Soc* 2019;16:1478-87
26. Kim J, **Kim WJ**, Ha KS, Han ET, Park WS, Yang SR, Hong SH. Perivascular stem cells suppress inflammasome activation during inflammatory responses in macrophages. *Int J Stem Cells* 2019;12:419-29
27. Bak SH, Kwon SO, Han SS, **Kim WJ**. Computed tomography-derived area and density of pectoralis muscle associated disease severity and longitudinal changes in chronic obstructive pulmonary disease: a case control study. *Respir Res* 2019;20:226
28. Han Y, Heo Y, Hong Y, Kwon SO, **Kim WJ**. Correlation between physical activity and lung function in dusty areas: Results from the chronic obstructive pulmonary disease in dusty areas (CODA) cohort. *Tuberc Respir Dis* 2019;82:311-8
29. Hong Y, Choi HM, Cheong HS, Shin HD, Choi CM, **Kim WJ**. Epigenome-wide association analysis of differentially methylated signals in blood samples of patients with non-small cell lung cancer. *J Clin Med* 2019;8:E1307
30. Kim J, Kim DY, Heo HR, Choi SS, Hong SH, **Kim WJ**. Role of miRNA-181a-2-3p in cadmium-induced inflammatory responses of human bronchial epithelial cells. *J Thorac Dis* 2019;11:3055-69
31. Jeong KS, Kim S, **Kim WJ**, Kim HC, Bae J, Hong YC, Ha M, Ahn K, Lee JY, Kim Y, Ha E. Cohort profile: Beyond birth cohort study – The Korean Children's Environmental health Study (Ko-CHENS). *Environ Res* 2019;172:358-66
32. Kim DY, **Kim WJ**, Kim JH, Hong SH, Choi SS. Identification of putative regulatory alterations leading to changes in gene expression in chronic obstructive pulmonary disease. *Mol Cells* 2019;42:321-32
33. Moon DH, Kwon SO, **Kim WJ**, Hong Y. Identification of serial DNA methylation changes in the blood samples of patients with lung cancer. *Tuberc Respir Dis* 2019;82:126-32
34. North CM, Rice MB, Ferkol T, Gozal D, Hui C, Jung SH, Kuribayashi K, McCormack MC, Mishima M, Morimoto Y, Song Y, Wilson KC, **Kim WJ**, Fong KM. Air pollution in the Asia-Pacific region: A joint APSR/ATS perspective. *Am J Respir Crit Care Med*. 2019;199:603-700
35. Sakornsakolpat P, Prokopenko D, Lamontagne M, Reeve NF, Guyatt AL, Jackson VE, Shrine N, Qiao D, Bartz TM, Kim DK, Lee MK, Latourelle JC, Li X, Morrow JD, Obeidat M, Wyss AB, Bakke P, Barr RG, Beaty TH, Belinsky SA, Brusselle GG, Crapo JD, de Jong K, DeMeo DL, Fingerlin TE, Gharib SA, Gulsvik A, Hall IP, Hokanson JE, **Kim WJ**, Lomas DA, London SJ, Meyers DA, O'Connor GT, Rennard SI, Schwartz DA, Sliwinski P, Sparrow D, Strachan DP, Tal-Singer R, Tesfaigzi Y, Vestbo J, Vonk JM, Yim JJ, Zhou X, Bossé Y, Manichaikul A, Lahousse L, Silverman EK, Boezen HM, Wain LV, Tobin MD, Hobbs BD, Cho MH. Genetic landscape of chronic obstructive pulmonary disease identifies heterogeneous cell-type and phenotype associations. *Nat Genet* 2019;51:494-505
36. Lee MK, Xu CJ, Carnes MU, Nichols CE, Ward JM, Kwon SO, Kim SY, **Kim WJ**, London SJ. Genome-wide DNA methylation and long-term ambient air pollution exposure in Korean Adults. *Clin Epigenetics* 2019;11:37
37. Hong Y, Kim Y, Lee JJ, Lee MG, Lee CY, Kim Y, Heo J, Han SS, Lee SJ, **Kim WJ**, Hong JY. Levels of vitamin D-associated cytokines distinguish between active and latent tuberculosis following a tuberculosis outbreak. *BMC Infect Dis* 2019;19:151
38. Heo HR, Kim J, **Kim WJ**, Yang SR, Han SS, Lee SJ, Hong Y, Hong SH. Human pluripotent stem cell-derived alveolar epithelial cells are alternatives for *in vitro* pulmotoxicity assessment. *Sci Rep* 2019;9:505
39. Lee J, Lee H, Jang S, Hong SH, **Kim WJ**, Ryu SM, Park SM, Lee KH, Cho SJ, Yang SR. CMIT/MIT induce apoptosis and inflammation in alveolar epithelial cells through p38/JNK/ERK1/2 signaling pathway. *Mol Cell Toxicol* 2019;15:41-8
40. Heo HR, Song H, Kim HR, Lee JE, Chung YG, **Kim WJ**, Yang SR, Kim KS, Chun T, Lee DR, Hong SH. Reprogramming mechanisms influence the maturation of hematopoietic progenitors from human pluripotent stem cells. *Cell Death Dis* 2018;9:1090
41. Oh YM, Lee KS, Hong YK, Hwang SC, Kim JY, Kim DK, Yoo KH, Lim SY, Rhee CK, Yoon HK, Lee SY, Park YB, Jung JH, **Kim WJ**, Lee SD, Park JH. Blood eosinophil count as a prognostic biomarker in COPD. *Int J Chron Obstruct Pulmon Dis* 2018;13:3589-96
42. Song JH, Lee CH, Kim DK, Yoon HK, Byun MK, Rhee CK, Lee JC, **Kim WJ**, Hwang YI, Yoo KH, Jung KS. Differences in prevalence of asthma-COPD overlap according to different criteria. *Medicine* 2018; 97:e12049
43. Jung CY, Choe YH, Lee SY, **Kim WJ**, Lee JD, Ra SW, Choi EG, Lee JS, Park MJ, Na JO. Use of serology and polymerase chain reaction to detect atypical respiratory pathogens during acute exacerbation on chronic obstructive pulmonary disease. *Korean J Intern Med* 2018;33:941-51



44. Jo YS, Kwon SO, Kim J, **Kim WJ**. Neutrophil gelatinase-associated lipocalin as a complementary biomarker for the asthma-chronic obstructive pulmonary disease overlap, *J Thorac Dis* 2018;10:5047-56
45. Jeong I, Lim JH, Oh DK, **Kim WJ**, Oh YM. Gene expression profile of human lung in a relatively early stage of COPD with emphysema, *Int J Chron Obstruct Pulmon Dis* 2018;13:2643-55
46. Kwon JW, Park HW, **Kim WJ**, Kim MG, Lee SJ. Exposure to volatile organic compounds and airway inflammation. *Environ Health* 2018;17:65
47. Wyss AB, Sofer T, Lee MK, Terzikhan N, Nguyen JN, Lahousse L, Latourelle JC, Smith AV, Bartz TM, Feitosa MF, Gao W, Ahluwalia TS, Tang W, Oldmeadow C, Duan Q, de Jong K, Wojczynski MK, Wang XQ, Noordam R, Hartwig FP, Jackson VE, Wang T, Obeidat M, Hobbs BD, Huan T, Gui H, Parker MM, Hu D, Mogil LS, Kichaev G, Jin J, Graff M, Harris TB, Kalhan R, Heckbert SR, Paternoster L, Burkart KM, Liu Y, Holliday EG, Wilson JG, Vonk JM, Sanders JL, Barr RG, de Mutsert R, Menezes AMB, Adams HHH, van den Berge M, Joehanes R, Levin AM, Liberto J, Launer LJ, Morrison AC, Sitlani CM, Celedón JC, Kritchevsky SB, Scott RJ, Christensen K, Rotter JI, Bonten TN, Wehrmeister FC, Bossé Y, Xiao S, Oh S, Franceschini N, Brody JA, Kaplan RC, Lohman K, McEvoy M, Province MA, Rosendaal FR, Taylor KD, Nickle DC, Williams LK, Burchard EG, Wheeler HE, Sin DD, Gudnason V, North KE, Fornage M, Psaty BM, Myers RH, O'Connor G, Hansen T, Laurie CC, Cassano PA, Sung J, **Kim WJ**, Attia JR, Lange L, Boezen HM, Thyagarajan B, Rich SS, Mook-Kanamori DO, Horta BL, Uitterlinden AG, Im HK, Cho MH, Brusselle GG, Gharib SA, Dupuis J, Manichaikul A, London SJ. Multiethnic meta-analysis identifies ancestry-specific and cross-ancestry loci for pulmonary function. *Nat Commun* 2018;9:2976
48. Shin SH, Park HY, Kang D, Cho J, Kwon SO, Park JH, Lee JS, Oh YM, Sin DD, **Kim WJ**, Lee SD. Serial blood eosinophils and clinical outcome in patients with chronic obstructive pulmonary disease. *Respir Res* 2018;19:134
49. **Kim WJ**, Gupta V, Nishimura M, Makita H, Idolor L, Roa C, Loh LC, Ong CK, Wang JS, Boonsawat W, Gunasekera KD, Madegedara D, Kuo HP, Wang CH, Wang C, Yang T, Lin YX, Ko FWS, Hui DSC, Lan LTT, Vu QTT, Bhome AB, Ng A, Seo JB, Lee BY, Lee JS, Oh YM, Lee SD. Identification of chronic obstructive pulmonary disease subgroups in 13 Asian cities. *Int J Tuberc Lung Dis* 2018;22:820-6
50. Hong Y, Hong SH, Oh YM, Shin SH, Choi SS, **Kim WJ**. Identification of lung cancer specific differentially methylated regions using genome-wide DNA methylation study. *Mol Cell Toxicol* 2018;14:315-22
51. Kim DJ, **Kim WJ**, Lim MN, Hong Y, Lee SJ, Hong SH, Heo J, Lee HY, Han SS. Plasma CRABP2 as a novel biomarker in patients with non-small cell lung cancer. *J Korean Med Sci* 2018;33:e178
52. Lee H, Hong Y, Lim MN, Bak SH, Kim MJ, Kim K, **Kim WJ**, Park HY. Inflammatory biomarkers and radiologic measurements in never-smokers with COPD: A cross-sectional study from the CODA cohort. *Chr Respir Dis* 2018;15:138-45
53. Bak SH, Kim S, Hong Y, Heo J, Lim MN, **Kim WJ**. Quantitative computed tomography features and clinical manifestations associated with the extent of bronchiectasis in patients with moderate-to-severe COPD. *Int J Chron Obstruct Pulmon Dis* 2018;13:1421-31
54. Ji W, Lim MN, Bak SH, Hong SH, Han SS, Lee SJ, **Kim WJ**, Hong Y. Differences in chronic obstructive pulmonary disease phenotypes between non-smokers and smokers. *Clin Respir J* 2018;12:666-673
55. Lee SR, Kim WT, Kim TN, Nam JK, **Kim WJ**, Leem SH. Association between the length of the MUC8-minisatellite 5 region and susceptibility to chronic obstructive pulmonary disease. *Genes Genome* 2018;40:123-7
56. **Kim WJ**, Park HJ, Choi YJ, Kwon EY, Kim BM, Lee JH, Chang JH, Kang JL, Choi JH. Association between genetic variations of *MERTK* and chronic obstructive pulmonary disease in Koreans. *J Korean Med Sci* 2018;33:e56
57. Jo YS, Lim MN, Han YJ, **Kim WJ**. Epidemiological study of PM_{2.5} and risk of COPD-related hospital visits and association with particle constituents in Chuncheon, Korea. *Int J Chron Obstruct Pulmon Dis* 2018;13:299-307