

● 个人简介

吴卫东博士，省创新型科技团队、省发改委空气污染急性健康效应流动检测工程研究中心以及省国际联合实验室及负责人。兼任中国环境诱变剂学会、中国毒理学会、中华预防医学会和中国环境科学学会专委会副主任委员、常委和委员；河南省预防医学会常务理事、河南省预防医学会劳动卫生职业病专业委员会副主任委员以及河南省医学类硕士专业学位教指委副主任委员。主持 4 项国家自然科学基金项目、参与 2 项国家重点研发计划项目（骨干）。发表科研论文 313 余篇，其中 SCI 论文 147 篇（单篇影响因子最高 13 分）。

● 联系方式

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● 研究方向

空气污染物健康效应、机制与干预

● 招生方向

学硕：劳动卫生与环境卫生学（空气污染健康效应与机制）

专硕：疾病预防与控制（大气污染健康效应与干预）

● 教育经历

1982/09 - 1987/06 河南医科大学，卫生系，医学学士

1987/09 - 1990/06 硕士，哈尔滨医科大学，劳动卫生学，医学硕士

1990/09 - 1993/06 博士，北京医科大学公共卫生学院，劳动卫生学博士

● 工作经历

1993.6-1997.12 北京医科大学公共卫生学院

1998.1-2012.12 美国北卡罗来纳大学教堂山分校医学院

2013.1-至今 河南省新乡医学院公共卫生学院

● 承担项目

- 1.国家自然科学基金委国际(地区)合作与交流项目(中美)(81961128031),大气颗粒物暴露对人呼吸系统宿主防御反应的影响及其机制,2020.1-2024.12,主持人。
- 2.国家重点研发计划“现代食品加工及粮食收储运技术与装备”重点专项(2017YFD0400301),益生菌健康功能与基于肠道微生物组学的食品营养代谢机理研究,2017.1-2020.12,分课题负责人。
- 3.国家重点研发计划“精准医学”研究专项(2016YFC0900803),华中区域常见慢性非传染性疾病前瞻性队列研究:河南省农村常见慢性非传染性疾病前瞻性队列研究,2016.07-2021.06,分课题负责人。
- 4.国家自然科学基金面上项目(81573112),GSTM1基因缺失对雾霾所致急性呼吸道炎症的影响及其机制,2016.1-2019.12,主持人。

● 代表性论文

1. Chen Y, Li J, Yuan P, Wu Z, Wang Z, Wu W. (2022) Graphene oxide promoted chromium uptake by zebrafish embryos with multiple effects: Adsorption, bioenergetic flux and metabolism. *Sci Total Environ.* 802:149914. doi: 10.1016/j.scitotenv.2021.149914.
2. Song J, Qu R, Sun B, Chen R, Kan H, An Z, Jiang J, Li J, Zhang Y, Wu W. (2021) Associations of Short-Term Exposure to Fine Particulate Matter with Neural Damage Biomarkers: A Panel Study of Healthy Retired Adults. *Environ Sci Technol.* doi: 10.1021/acs.est.1c03754. PMID: 34964348.
3. Li J, Zhang Y, Zhang L, An Z, Song J, Wang C, Ma Y, Gu Q, Luo Q, Yang W, Du Y, Wu W. (2021) Fine particulate matter exposure exacerbated nasal mucosal damage in allergic rhinitis mice via NLRP3 mediated pyroptosis. *Ecotoxicol Environ Saf.*;228:112998. doi: 10.1016/j.ecoenv.2021.112998. PMID: 34798361.

4. Sun B, Song J, Wang Y, Wu W. (2021) Associations of short-term PM2.5 exposures with nasal oxidative stress, inflammation and lung function impairment and modification by GSTT1-null genotype: a panel study of the retired adults. *Environ Pollut*, 285:117215. doi: 10.1016/j.envpol.2021.117215.
5. Li J, An Z, Song J, Du J, Zhang L, Jiang J, Ma Y, Wang C, Zhang J, Wu W. (2021) Fine particulate matter-induced lung inflammation is mediated by pyroptosis in mice. *Ecotoxicol Environ Saf*. 219:112351. doi: 10.1016/j.ecoenv.2021.112351.
6. Song J, Zhu J, Tian G, Li H, Li H, An Z, Jiang J, Fan W, Wang G, Zhang Y, and Wu W. (2020) Short time exposure to ambient ozone and associated cardiovascular effects: A panel study of healthy young adults. *Environ Int*. 137:105579. doi: 10.1016/j.envint.2020.105579.
7. Zhang L, Yuan M, An Z, Zhao X, Wu H, Li H, Wang Y, Sun B, Li H, Ding S, Zeng X, Chao L, Li P, Wu W. (2020) Prediction of hypertension, hyperglycemia and dyslipidemia from retinal fundus photographs via deep learning: A cross-sectional study of chronic diseases in central China. *PLoS One*. 15(5):e0233166.
8. Shan Y, Guo J, Fan W, Li H, Wu H, Song Y, Jalleh G, Wu W, Zhang G. (2020) Modern urbanization has reshaped the bacterial microbiome profiles of house dust in domestic environments. *World Allergy Organ J*. 2020 Aug 20;13(8):100452.
9. Zhang L, Yuan M, An Z, Zhao X, Wu H, Li H, Wang Y, Sun B, Li H, Ding S, Zeng X, Chao L, Li P, Wu W. (2020) Prediction of hypertension, hyperglycemia and dyslipidemia from retinal fundus photographs via deep learning: A cross-sectional study of chronic diseases in central China. *PLoS One*. 2020 May 14;15(5):e0233166. doi: 10.1371/journal.pone.0233166.
10. Wang G, Zhang G, Gao X, Zhang Y, Fan W, Jiang J, An Z, Li J, Song J, Wu W. (2020) Oxidative stress-mediated epidermal growth factor receptor activation regulates PM2.5-induced over-secretion of pro-inflammatory mediators from human bronchial epithelial cells. *Biochim Biophys Acta Gen Subj*. 129672.
11. Wu Z, He C, Han W, Song J, Li H, Zhang Y, Jing X, Wu W. (2020) Exposure pathways, levels and toxicity of polybrominated diphenyl ethers in humans: A review. *Environ Res*. 187:109531.
12. Wu H, Li H, Ding Y, Jiang J, Guo P, Wang C, Tang N, Wu W. (2020) Is triglyceride associated with adult depressive symptoms? A big sample cross-sectional study from the rural areas of central China. *J Affect Disord*. 273:8-15. doi: 10.1016/j.jad.2020.03.168.
13. Wu H, Li H, Li H, Ding Y, Wang C, Zhang G, Tang N, Wu W. (2020) Evaluation of health-related quality of life in adults with and without dyslipidaemia in rural areas of central China. *Qual Life Res*. 29(4):925-939. doi: 10.1007/s11136-019-02336-0.
14. Li H, Guo M, An Z, Meng J, Jiang J, Song J, Wu W. (2020) Prevalence and Risk Factors of Metabolic Associated Fatty Liver Disease in Xinxiang, China. *Int J Environ Res Public Health*. 17(6). doi: 10.3390/ijerph17061818.
15. Li F, An Z, Li H, Gao X, Wang G, and Wu W. (2019) Involvement of oxidative stress and the epidermal growth factor Receptor in Diesel Exhaust Particle-Induced Expression of Inflammatory Mediators in Human Mononuclear Cells. *Mediators of Inflammation*. doi: 10.1155/2019/3437104.
16. Li H, Shan Y, Huang Y, An Z, Xu G, Fan W, Zhang G, Wu W. (2019) Bacterial Community Specification in PM2.5 in Different Seasons in Xinxiang, Central China. *Aerosol and Air Quality Research*, 19: 1355–1364. doi: 10.4209/aaqr.2018.12.0467.
17. Li H, Liu B, Song J, An Z, Zeng X, Li J, Jiang J, Xie L, Wu W. (2019) Characteristics of Gut Microbiota in Patients with Hypertension and/or Hyperlipidemia: A Cross-Sectional Study on Rural Residents in Xinxiang County, Henan Province. *Microorganisms*. 7(10). pii: E399. doi: 10.3390/microorganisms7100399.
18. Li J, Li H, Li H, Guo W, An Z, Zeng X, Li W, Li H, Song J, Wu W. (2019) Amelioration of PM2.5-induced lung toxicity in rats by nutritional supplementation with fish oil and Vitamin E. *Respir Res*. 20(1):76. doi: 10.1186/s12931-019-1045-7.
19. Shan Y, Wu W, Fan W, Haahtela T, Zhang G. House dust microbiome and human health risks. *Int Microbiol*. 22(3):297-304.

20. Zhao Y, Xu G, Wang S, Yi X, Wu W. (2018) Chitosan oligosaccharides alleviate PM2.5-induced lung inflammation in rats. *Environ Sci Pollut Res Int*. doi: 10.1007/s11356-018-3365-4.
21. Wu W, Jin Y, Carlsten C. (2018) Inflammatory health effects of indoor and outdoor particulate matter. *J Allergy Clin Immunol*, 141(3):833-844.
22. An Z, Jin Y, Li J, Li W, Wu W. Impact of particulate air pollution on cardiovascular health. *Curr Allergy Asthma Rep*. doi: 10.1007/s11882-018-0768-8.
23. Wu W, R Devlin, D Diaz-Sanchez, and JM Samet. Src-mediated EGFR activation regulates ozone-induced IL-8 expression. *Environ Health Perspect*, 2015;123(3):231-236

● 成果奖励与专利

1. 河南省教育厅，科技成果一等奖，主持，豫教【2020】8230号。
2. 国家实用新型专利，主持，一种检测臭氧毒性的动物暴露装置，2021-8-6，中国，ZL 2020 2 3236258.1
3. 国家实用新型专利，主持，用于实验研究的快速无创鼻粘液采样盒，2020-8-14，中国，ZL 2019 2 2209552.4