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教授

劳动卫生与环境卫生学系

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研究方向

环境与健康，环境流行病学，大气污染暴露与健康风险

学术简历

【教育背景】

北京大学环境科学与工程学院，理学博士
北京大学公共卫生学院，医学学士

【工作经历】

中山大学公共卫生学院 教授/博士生导师
荷兰Utrecht University, Institute for Risk Assessment Sciences 博士后

近年来主要主持或参与的课题

- 2023.1-2026.12, 国家自然科学基金委员会, 面上项目(42277426), 大气复合污染致胎儿生长受限的关键组分、风险溯源及中介代谢物研究, 主持;
- 2018.1-2020.12, 国家自然科学基金委员会, “大气细颗粒物的毒理与健康效应” 重大研究计划培育项目(91743109), 大气细颗粒物致妊娠期高血压疾病发病的关键理化特性及机理, 主持;
- 2016.1-2018.12, 国家自然科学基金委员会, 青年科学基金(41501540), 大气PM_{2.5}理化特性对儿童DNA和血管功能的影响, 主持;
- 2022.07-2023.01, 中国科协, 科技智库青年人才计划(20220615ZZ07110213), 空气质量与健康效应协同改善的大气污染精准防控策略研究, 主持;

2022.1-2024.12, 广东省自然科学基金, 面上项目(2022A1515011522), 基于巢式设计的PM_{2.5}暴露与妊娠糖尿病发病机制的脂质代谢组学中介效应研究, 主持;

2016.6-2019.6, 广东省自然科学基金, 面上项目(2016A030313194), 大气颗粒物理化特性与妊娠糖尿病关系的前瞻性研究, 主持;

2020.6-2021.6, 国家环境保护区域空气质量监测重点实验室开放基金(SRAQM02202002), 珠三角地区大气PM_{2.5}中重金属的潜在生态和健康风险及其来源研究, 主持;

2016.3-2018.12, 中山大学青年教师培育项目(16ykpy18), 大气PM_{2.5}物理化学特性与妊娠糖尿病发病关系的前瞻性队列研究, 主持;

2016.1-2019.12, 国家自然科学基金委员会, 重大研究计划(91543208), 基于毒性通路的大气细颗粒物暴露致肺癌机制研究, 参加(排名第三);

2014.6-2015.6, 深圳市大气污染与人体健康重点研究领域咨询报告项目(SZGX2014053-SCZJ), 子课题负责人;

2013.8-2014.1, 联合国基金会全球清洁炉灶联盟(Global Alliance for Clean Cookstoves), Review of Chinese Evidence on Adoption of Clean Cookstoves and Fuels (RFP 13-1), 项目共同负责人

近年来以第一/通讯作者发表的主要文章

Yan R, Peng X, **Lin W***(通讯), He L, Wei F, Tang M, Huang X*(通讯), Trends and Challenges Regarding the Source-Specific Health Risk of PM 2.5-Bound Metals in a Chinese Megacity from 2014 to 2020, *Environmental Science & Technology*. 2022; 56(11): 6996–7005.

Mai D[#], Xu C[#], **Lin W***(通讯), Yue D, Fu S, Lin J, Yuan L, Zhao Y, Zhai Y, Mai H, Zeng X, Jiang T, Li X, Dai J, You B, Xiao Q, Wei Q, Hu Q, Association of abnormal-glucose tolerance during pregnancy with exposure to PM 2.5 components and sources, *Environmental Pollution*. 2021;292(Pt B):118468.

Fu S[#], Yue D[#], **Lin W***(通讯), Hu Q, Yuan L, Zhao Y, Zhai Y, Mai D, Zhang H, Wei Q, He L. Insights into the source-specific health risk of ambient particle-bound metals in the Pearl River Delta region, China, *Ecotoxicology and Environmental Safety*. 2021; 224:112642.

Hu Q[#], Wang D[#], Yue D, Hu B, Cheng P, Zhai Y, Mai H, Li P, Gong J, Zeng X, Jiang T, Mai D, Fu S, Guo L, **Lin W****(通讯), Association of ambient particle pollution with gestational diabetes mellitus and fasting blood glucose levels in pregnant women from two Chinese birth cohorts, *Science of the Total Environment*, 2021, 762: 143176.

Meng H, Zhang X, Xiao J, Zhang Y, **Lin W***(通讯), Li Z*(通讯), A simple physical-activity-based model for managing children's activities against exposure to air pollutants, *Journal of Environmental Management*, 2021, 279: 111823.

Hu Q[#], Ma X[#], Yue D, Dai J, Zhao L, Zhang D, Ciren D, Lin J, You B, Zhai Y, Yuan L, **Lin W***(通讯); Linkage between Particulate Matter Properties and Lung Function in Schoolchildren: A Panel Study in Southern China , *Environmental Science & Technology*, 2020, 54(15): 9464-9473.

Lin J[#], **Lin W*****(共同第一/共同通讯), Yin Z, Mai D, Fu S, Zhang J, Gong J, Feng N, He L*(通讯), Respiratory Health Effects of Residential Individual and Cumulative Risk Factors in Children Living in Two Cities of the Pearl River Delta Region, China, *Journal of Thoracic Disease*, 2020, 12(10): 6342-6355.

Wang D[#], Fu X[#], Zhang J, Xu C, Hu Q*(通讯), **Lin W***(通讯), Association between blood lead level during pregnancy and birth weight: A meta-analysis, *American Journal of Industrial Medicine*, 2020, 63(12): 1085-1094.

Mazaheri M[#], **Lin W****(共同第一/共同通讯), Clifford S, Yue D, Zhai Y, Xu M, Rizza V, Morawska L*(通讯); Characteristics of school children's personal exposure to ultrafine particles in Heshan, Pearl River Delta, China - A pilot study. , *Environment International*, 2019, 132: 105134.

Lin W[#], Dai J[#], Liu R, Zhai Y, Yue D*, Hu Q*, Integrated assessment of health risk and climate effects of black carbon in the Pearl River Delta region, China., *Environmental Research*, 2019, 176: 108522.

Lin W., Zhu T.*, Xue T. et al. Association between changes in exposure to air pollution and biomarkers of oxidative stress in children before and during the Beijing Olympics. *American Journal of Epidemiology*. 2015,181(8):575-83.

Shen G*(通讯), **Lin W***(通讯), Chen Y, Yue D, Liu Z Yang C, Factors influencing the adoption and sustainable use of clean fuels and cookstoves in China-a Chinese literature review, *Renewable and Sustainable Energy Reviews*., 2015, 51: 741-750.

Lin W., Brunekreef B., Gehring U.*. Meta-analysis of the effects of indoor nitrogen dioxide and gas cooking on asthma and wheeze in children. *International Journal of Epidemiology*. 2013. 42(6):1724-1737.

Lin W., Gehring U., Oldenwening M., et al. Gas Cooking, Respiratory and Allergic Outcomes in the PIAMA Birth Cohort Study. *Occupational and Environmental Medicine*. 2012.70(3):187-194.

Lin W., Zhu T.*, Huang W., et al. Acute Respiratory Inflammation in Children and Black Carbon in Ambient Air before and during the 2008 Beijing Olympics. *Environmental Health Perspectives*. 2011. 119(10):1507-1512.

主要出版物：

参与编写世界卫生组织室内空气质量指导方针：Bruce N., Smith K., Balmes J., Pope D., Dherani M., Zhang J., Duan XL., Bates M., **Lin W.**, Adair-Rohani H., Mehta S., Cohen A., McCracken J.. Review 4: Health effects of household air pollution (HAP) exposure. In: **WHO Guidelines For Indoor Air Quality: Household Fuel Combustion**, World Health Organization (WHO), Geneva, Switzerland. 2014.11. (WHO室内空气质量指南第四主题综述)

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