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Laboratory of reproductive immunity and epidemiology, Institute of Reproductive Health,


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Infomation


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Research Interests

- Reproductive epidemiology and maternal nutrition
- Environmental exposure and pregnancy outcomes
- Metabolomics for exploring biomarkers of pregnancy outcomes
- Paternal factors for pregnancy outcomes

Education Experience

- **M.M. Candidate** 2020/07 - Present, Huazhong University of Science and Technology
(Advisor: Prof. Huiping Zhang)
- **B.M.** 2015/09 - 2020/06, Wuhan University of Science and Technology

Honors & Awards

- China National Scholarship (2022)
- Merit student of Huazhong University of Science and Technology (2021)
- Scholarship of Sinopharm Gene Technology Co., Ltd (2021)
- First-class academic scholarship from Huazhong University of Science and Technology (2020&2021)
- Pacemaker to Merit Student of Wuhan University of Science and Technology (2019)
- National Encouragement Scholarship (2017)

First/Corresponding Author Publications

- **Fang, Y.**, Chen, Z., Chen, J., Zhou, M., Chen, Y., Cao, R., Liu, C., Zhao, K., Wang, M., & Zhang, H. (2022). Dose-response mapping of MEHP exposure with metabolic changes of trophoblast cell and determination of sensitive markers. *The Science of the total environment*, 855, 158924.

- Chen, J., **Fang, Y. (Corresponding Author)**, Xu, Y., & Sun, H. (2022). Role of m6A modification in female infertility and reproductive system diseases. *International journal of biological sciences*, 18(9), 3592–3604.
- Zhou, M., Peng, L., Wang, J., Cao, R., Ou, Z., & **Fang, Y (Corresponding Author)**. (2022). Cadmium exposure and the risk of GDM: evidence emerging from the systematic review and meta-analysis. *Environmental science and pollution research international*, 10.1007/s11356-022-21171-4.
- **Fang, Y.**, Su, Y., Xu, J., Hu, Z., Zhao, K., Liu, C., & Zhang, H. (2021). Varicocele-Mediated Male Infertility: From the Perspective of Testicular Immunity and Inflammation. *Frontiers in immunology*, 12, 729539.
- **Fang, Y.**, Wang, Y., Peng, M., Xu, J., Fan, Z., Liu, C., Zhao, K., & Zhang, H. (2020). Effect of paternal age on offspring birth defects: a systematic review and meta-analysis. *Aging*, 12(24), 25373–25394.

Collaborative Publications

- Xu, J., He, C., **Fang, Y. W.**, Hu, Z. Y., Peng, M. L., Chen, Y. Y., Su, Y. F., Liu, C. Y., Zhang, H. P., & Zhao, K. (2022). Testicular exosomes disturb the immunosuppressive phenotype of testicular macrophages mediated by miR-155-5p in uropathogenic *Escherichia coli*-induced orchitis. *Asian journal of andrology*, 10.4103/aja202243.
- Wang, Y., Yu, Z., Fan, Z., **Fang, Y.**, He, L., Peng, M., Chen, Y., Hu, Z., Zhao, K., Zhang, H., & Liu, C. (2021). Cardiac developmental toxicity and transcriptome analyses of zebrafish (*Danio rerio*) embryos exposed to Mancozeb. *Ecotoxicology and environmental safety*, 226, 112798.
- Wang, W., Peng, M., Yuan, H., Liu, C., Zhang, Y., **Fang, Y.**, Su, Y., Zhang, X., Zhang, H., Tang, Y., & Zhao, K. (2022). Studying the mechanism of sperm DNA damage caused by folate deficiency. *Journal of cellular and molecular medicine*, 26(3), 776–788.
- Xu, J., He, L., Zhang, Y., Hu, Z., Su, Y., **Fang, Y.**, Peng, M., Fan, Z., Liu, C., Zhao, K., & Zhang, H. (2021). Severe Acute Respiratory Syndrome Coronavirus 2 and Male Reproduction: Relationship, Explanations, and Clinical Remedies. *Frontiers in physiology*, 12, 651408.

Submitted Publications

- **Fang, Y.**, Yin, W., He, C., Zhou, M., Peng, M., Cao, R., Liu, C., Zhang, H., Zhou, Y., Zhao, K. High-resolution metabolome reveals the effect of mixed exposure to PAEs and PAHs in early pregnancy on birth weight. **Submitted.**
- **Fang, Y.**, Zhang, Z., Zhao, Z., Sun, G., Peng, M., Liu, C., Yi, G., Zhao, K., Yang, H. The value of lipid metabolites 9,10-DOA and 11,12-EET in prenatal diagnosis of fetal heart defects. **Under review in Clinica Chimica Acta.**
- Wang, J., Cao, R., Zhou, M., Ou, Z., Yu, Z., Zhong, W., Feng, C., Wu, J., Zhang, H., **Fang, Y. (Corresponding Author)** Offspring outcomes after prenatal intervention of metformin versus insulin for management of gestational diabetes: An updated meta-analysis. **Under review in Gynecological Endocrinology.**

Experience





Research Advisor of Undergraduates of Zhang's Lab. (2020 - Present)

- Scientific writing
- Medical Statistics
- Systematic review and meta-analysis
- R, SPSS, STATA

Intern of Puren Hospital, Wuhan (2018-2020)

- Surgery assistant
- Case records

Technical Strength

- Qualification: Clinician qualification in China.
- Programming Languages: R , Python .
- Bioinformatic Tools: Metabolomics, RNA-seq.
- Other Skills: Biotechnology, SPSS, STATA, Linux , Markdown .