



Sex- and Gender-Related Differences in Early-Life Environmental Exposures, Susceptibilities, and Mechanistic Insights into Diseases throughout Life

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Message from the Guest Editors

The reasons underlying sex- and gender-related disparity across multiple diseases, including cancer, neurocognitive disorders, asthma, autoimmune illnesses, and cardiometabolic impairments, represent a gravely understudied topic. Nevertheless, a growing body of research suggests that both sex and gender influence exposures to and metabolism of environmental pollutants, divergent susceptibilities, and the associated vulnerability to certain diseases across the lifespan. To date, several limitations in methodologies, including the study design, target population, and overall interchangeable use of sex and gender, have hampered our improved understanding of their role.

Therefore, the goals of the present Special Issue include: 1) dissect the roles of sex- and gender-, as they relate to the environmental pollutant exposures; 2) deepen our understanding of how culturally driven behavior, roles, and identities relate to the person's exposures and metabolisms; 3) clarify how biological differences between men and women (i.e., sex) relate to underlying susceptibilities, disease course, and the mechanisms throughout life.





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Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Discovery and advances in this research field play a critical role in providing a scientific basis for decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards. *IJERPH* provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality, peer-reviewed, open access journal.

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