

Special Issue on
**Air Pollutants: Cellular Toxicities, Exposure Biomarkers,
and Action Mechanisms**

CALL FOR PAPERS

Air pollution, the end result of various modern human activities, poses potential hazardous effects to humans in all ages. The air pollution problem is seemingly accelerated in the modern days due to the rapid urbanization and industrialization, in which diverse kinds of air pollutant are inevitably infiltrated to the living and working environments. The reduction of air pollution can be achieved by appropriate law enforcement, the use of renewable energy, and reducing the consumption of fossil fuels; however, the current situation is still not satisfied. Therefore, understanding more about and finding ways to antagonize the harmful effects of these air pollutants to the human body would be urgently needed.

We invite authors to submit original research and review articles that seek to focus on biomarker discovery, cytotoxicity, and action mechanism of air pollutant exposures. Moreover, we are also interested in articles that explore ways or agents that can antagonize/mitigate the adverse effects to the respiratory, cardiovascular, and central nervous systems in response to various air pollutant exposures.

Potential topics include but are not limited to the following:

- ▶ Recent knowledge regarding researches in air pollutant-induced respiratory and cardiovascular diseases and neurodevelopmental disorders
- ▶ Acute and chronic effects, exposure biomarkers, cytotoxicity, and action of mechanism of the following pollutants to the lungs, cardiovascular, and central nervous systems
- ▶ Harmful primary pollutants [sulfur oxides, nitrogen oxides, carbon monoxide, volatile organic compounds, particulate matter, toxic metals (e.g., As, Cd, Cr, Ni, and Pb), and chlorofluorocarbons]
- ▶ Harmful secondary pollutants
- ▶ Conventional/electronic cigarette smokes (first-hand, second-hand, and third-hand smokes)
- ▶ Novel types of air pollutants and their biological impacts
- ▶ The biological impact of multiple air pollutant exposures
- ▶ New cell and animal models to test and understand cellular and systemic responses to air pollutants
- ▶ Drugs/natural compounds as protective agents against the adverse effects of air pollutants to the lungs, cardiovascular, and central nervous systems

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/jt/mapct/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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