



toxics

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Molecular Basis of Air-Pollution-Induced Disease Risk

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Message from the Guest Editors

Air pollution is a nondiscriminatory toxicant capable of traveling from exhausts, stacks, and forest fires to communities both near and far from the original source. Acute impacts of air pollution are well documented, but increasingly, air pollution exposure has been associated with chronic disease risk. While the causal drivers of air pollution's influence on diseases remain to be fully elucidated, mechanistic evidence points to a number of key players, including inflammation, oxidative stress, and epigenetics.

This Special Issue invites papers focusing on plausible molecular mechanisms, whereby air pollutants influence disease risk and progression. In vivo and in vitro studies will be considered, as well as studies that investigate single-source and mixtures of air pollutants. For the purposes of this Special Issue, we define epigenetic modifications as DNA methylation, posttranslational histone tail modifications, chromatin accessibility, and noncoding RNA.



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Special Issue