

Special Issue

Feature Studies in Respiratory Diseases

Message from the Guest Editors

Biomedical Research is multidisciplinary and often uses integrated approaches performing different experimental models with complementary functions. This approach is important to understand the effects of environmental pollution on inflammatory airway disease, focusing on their underlying pathogenetic mechanisms. There are two main types of air pollution: pollution of the external environments (outdoor) and pollution of the domestic environments (indoor). Both affect the respiratory tract with acute or chronic symptoms, resulting in an alteration of lung function in adults, children and adolescents. Therefore, air pollution can interfere with defense mechanisms in the lung, weaken the body's immune response and trigger oxidative stress and inflammation. Moreover, it is found that air pollution has a stronger link to an increased prevalence of allergies. The aims of this Special issue are to examine mechanisms and pathophysiological processes and to identify new pharmacological treatments for preventing or treating the effects of air pollution on airway diseases.

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