

Endotoxin: A Biomarker in Ambient Environment †

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Abstract: Health is at risk due to air pollution. The biological constituent of air pollution has been held responsible for several types of health-related issues. Recent pandemic SARS Covid -19 has also been recognized as spreading through the air. Polluted air has made more threats to humans as symptoms of SARS covid 19 illness and symptoms due to air pollution are more or less similar. Endotoxin has been considered as a biomarker and plays a pathogenic role if it is present in the environment. Endotoxin has been considered as a signature of the presence of gram-negative bacteria in the environment. Endotoxin concentration, seasonal variation, impacts on climate, sources of endotoxin are required and have become of utmost importance in view of the present pandemic. Endotoxins are an important component of bioaerosol allied with dust particles in different environments. The study of biological components in the air is of utmost importance but least attracted due to cumbersome methods of estimation. The present study deals with the investigation on the concentration of endotoxin in respirable suspended particulate matter, source characterization, factors affecting concentration, and health risk assessment.

Keywords: endotoxin; biomarker; air pollution (List three to ten pertinent keywords specific to the article; yet reasonably common within the subject discipline.)

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Conflicts of Interest

The authors declare no conflict of interest.