

**ARSENIC AND ALUMINUM SPECIATION IN ENVIRONMENTAL
TOXICOLOGY – A MINIREVIEW**

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ABSTRACT

The understanding of the toxicity of environmental chemicals, such as aluminum and arsenic, is often complicated by the interchangeable nature among multiple elemental species and their interrelated biological activities. The toxicity of Al in plants impedes efficacious crop production in vast areas of the world. At the same time, millions of people are exposed to excessive amounts of As in drinking water. Although the signs of toxicity of both elements have been known for decades, the metal species-specific mechanisms of their toxicity remain elusive. In searching for solutions to these environmental problems, future areas of research are identified.