

## Editorial on Heavy Metals contamination

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### EDITORIAL

The ecological pollution by the harmful substances has become the significant worry globally. A wide scope of harmful pollutants are brought into the amphibian climate because of expanded industrialization, innovative turn of events, developing human populace and abuse of normal assets, agrarian and homegrown squanders run-off. Among these toxins, heavy metals are more risky in view of their tenacious nature, harmfulness, inclination to aggregate in organic entities and go through natural way of life intensification and more over they are non-degradable. These may have serious impact in human digestion (in case of lead, mercury, cadmium and arsenic) present evident worries due to their diligence in the climate and recorded potential for genuine wellbeing results.

Heavy metal ions are substances that are distributed universally and are major reasons behind health hazards to the mankind. Water is a no exception for heavy metal contamination. As water is a universal solvent, it is the major source for heavy metal intoxication in human beings. Removal of these heavy metal traces from the water is a time and cost consuming process. However, some natural gents like tea waste are effective in removing the heavy metal traces from the water.

Several studies were conducted in the field of molecular dynamics to study the mechanism behind these natural agents removing heavy metal traces. There are several mechanisms involved in this process. By elucidating such mechanisms, several cost effective water purification systems can be introduced.

Many methods such as use of activated charcoal filters, electronic coagulation etc. are used for water purification. Apart from cost consuming these might also leave a carbon print on the earth. Many bio based materials are showing a cost effective alternate to this issue. These materials are cheap and even the process is less time consuming.

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