## Development of Bio adsorbent for removal of heavy metals

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## **ABSTRACT**

Heavy metals are significant environmental pollutants and their toxicity is a problem of increasing significance for ecological, evolutionary, nutritional and environmental reasons. Adsorption of heavy metal ions by low-cost renewable organic materials has gained momentum. The inexpensive adsorbents like natural materials present in surplus quantities or different types of waste materials from industries or agriculture are more effective, and they are less expensive, and expensive regeneration is not used while discarding. The present study aimed to develop a new adsorbent from agricultural waste by KOH modification to remove Zinc (Zn <sup>2+</sup>) and to explore its adsorptive potential. It was observed that the sorption capacity of KOH-modified husk was found to be higher than that of raw.

**Keywords:** Heavy metals, Zinc. Adsorbent, KOH.

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