

Objectives

Integrated NextGen Approaches in Health Disease and Environmental Toxicity:

- ❖ **Arsenic speciation and bioremediation using hyper-accumulator plants and microbes**
- ❖ **Selection of low grain arsenic rice variety and role of microbes in reducing As bioavailability to rice.**
- ❖ **Study the effect of nutrients – Si, S, P, Se in decreasing the As accumulation and toxicity in rice**
- ❖ **Microbes for soil carbon sequestration through rice straw decomposition**
- ❖ **Microbial degradation of crude oil in soil**