



Dr. Arti Hansda

Assistant Professor, Microbiology
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Education

PhD – IIT (ISM), Dhanbad

Thesis titled “Isolation and characterization of Cu (II) resistant bacteria and their plant growth promoting activities”

MSc (Microbiology) – Orissa University of Agriculture and Technology, Bhubaneswar, Odisha

BSc Hons. (Zoology) – Ranchi University, Jharkhand

Key Skills

Dr. Arti is capable of providing comprehensive solutions to industry and other government bodies in the following areas:

1. Geochemical fractionation of pollutants for assessment of its impact on flora and fauna
2. Eco-friendly approach for remediation of polluted soil
3. Development of microbial based biofertilizer for combating various environmental stress (e.g. salinity, draught, metallic pollutants)

Background

Joined GSFC University in September, 2022

Scholarship and Accomplishments

Dr. Arti is a proficient researcher. Broadly defined, Dr. Arti’s research interests are in Bioremediation and biofertilizer development, with a special focus on polluted land remediation, industrial waste treatment, and development of microbial based fertilizer suitable for combating environmental stress. She is particularly interested in mechanism of pollutant uptake by microorganisms for a variety of applications as well as bioenergy generation.

During her 4.5 Years of doctoral research journey, Dr. Arti published 7 research papers. Dr. Arti has a teaching experience of 4 years. She has served as Teaching Faculty in Ranchi University, Ranchi, Jharkhand (for 3 years) and Assistant Professor in NIMS University, Jaipur, Rajasthan (for 9 months). During her tenure in NIMS University, Jaipur, Dr. Arti has guided 3 M.Sc students for their dissertation.

Dr. Arti teaches Microbiology and its various allied fields of applications to science students at M.Sc. and B.Sc. Program. Dr. Arti has many publications in peer-reviewed International Journals with good impact factor.

Most Three Notable Publications

1. **Hansda A**, Kumar V and Anshumali (2017) Influence of Cu fractions on soil microbial activities and risk assessment along Cu contamination gradient. *Catena*, 151: 26-33.
<http://dx.doi.org/10.1016/j.catena.2016.12.003>
2. **Hansda A**, Kumar V and Anshumali (2017) Cu resistant *Kocuria* sp. CRB15: A potential PGPR isolated from the dry tailing of Rakha copper mine. *3 Biotech*, 7: 132.
<http://dx.doi.org/10.1007/s13205-017-0629-5BTEC-D-16-00435.1>
3. **Hansda A**, Kumar V and Anshumali (2016) A comparative review towards potential of microbial cells for heavy metal removal with emphasis on biosorption and bioaccumulation. *World Journal of Microbiology and Biotechnology*, 32: 170.
<http://dx.doi.org/10.1007/s11274-016-2117-1>