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## Bioremediation Potentials Of Bacteria Isolated From

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Isolation of bacterial colonies

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**preparation | 1. Isolation from the environment**

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Isolation of Soil Bacteria and Studying their properties *Bioremediation animation* ~~How Do We~~

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*Pittsburg State Uni., USA* *Bioremediation*

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*Isolated from Rhizosphere of Some Plants of Oil Contaminated Soil of Niger Delta 1.*

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the past two centuries has resulted in widespread contamination of the... 2. Materials and Methods 2.1. Sample Source, Collection and ...

Bioremediation Potentials of Bacteria Isolated from ...

Bioremediation Potentials of Bacteria Isolated from Rhizosphere of Some Plants of Oil Contaminated Soil of Niger Delta. K.M Ukaegbu-Obi 1, and C.C Mbakwem-Aniebo 2. 1 Department of Microbiology, College of Natural Sciences, Michael Okpara University of Agriculture, Umudike, Abia State, Nigeria. 2 Department of Microbiology, Faculty of Science, University of Port Harcourt, Choba, Rivers State ...

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Bioremediation Potentials of Bacteria Isolated from Rhizosphere of Some Plants of Oil Contaminated Soil of Niger Delta. K.M

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Ukaegbu-Obi 1, and C.C Mbakwem-Aniebo 2. 1 Department of Microbiology, College of Natural Sciences, Michael Okpara University of Agriculture, Umudike, Abia State,

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Bioremediation Potentials of Heavy Metal Tolerant Bacteria Isolated from Petroleum Refinery Effluent :: Science Publishing Group. Five heavy metals tolerant bacteria were isolated from petroleum refinery effluent and identified as *Pseudomonas aeruginosa*, *Staphylococcus aureus*, *E. coli*, *Proteus vulgaris* and *Klebsiella pneumoniae*.

Bioremediation Potentials of Heavy Metal Tolerant Bacteria ...

Mixed culture consortium of all five bacteria isolates had the highest bioremediation potential of 68% as against the single inoculations of *Pseudomonas aeruginosa*, *Serratia marcescens*, *Klebsiella pneumoniae*,

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*Proteus vulgaris* and *Streptomyces* spp. which had 66.4%, 62.4%, 59.7%, 52% and 57% respectively.

Bioremediation Potentials of Hydrocarbonoclastic Bacteria ...

In the present study, an endophytic bacteria isolated from *T. procumbens* was assessed for their heavy metal bioremediation potential. Five heavy metal-resistant endophytic bacterial strains were isolated from roots of *T. procumbens*, and the isolates were screened for metal resistance on LB agar plates (1/4 strength) supplemented with Cu, Pb, Zn, or As.

Bioremediation of heavy metals using an endophytic ...

Bahar, M.M., Megharaj, M. & Naidu, R. Arsenic bioremediation potential of a new arsenite-oxidizing bacterium *Stenotrophomonas* sp. MM-7 isolated from soil. *Biodegradation* 23, 803-812 (2012).

<https://doi.org/10.1007/s10532-012-9567-4>.  
Download citation. Received: 10 April 2012. Accepted: 15 June 2012. Published: 04 July 2012. Issue Date: November 2012

Arsenic bioremediation potential of a new arsenite ...

These methods are relatively affordable and do not introduce any additional chemicals to the environment. The uses of biological materials like bacteria, fungi, algae with

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vermicompost, animal and plant compost, have been reported with good bioremediation potential (Riser-Roberts, 1992, Bundy et al., 2004). The use of beneficial free-living bacteria and rhizosphere associated plant growth promoting rhizobacteria (PGPR) for different bioremediation activity are gaining impetus.

Bioremediation potential of native hydrocarbon degrading ...

The main purpose of the study was to isolate strains of bacteria capable of degrading hydrocarbons from contaminated mangroves and to investigate the ability of the isolated bacteria to degrade total petroleum hydrocarbons (TPH) in a microcosm model of an oily sludge. The potential use of these bacteria strains as environmental clean-up agents was tested by culturing them with six different polyaromatic hydrocarbon (PAH) compounds (phenothiazine, fluorene, fluoranthene, dibenzothiophene, ...

The Bioremediation Potential of Hydrocarbonoclastic ...

The present study was aimed to investigate the Cd tolerance of bacteria isolated from municipal effluent irrigated soils. Thirty bacterial strains were isolated and screened for their Cd<sup>+</sup> tolerance by growing on nutrient agar plates amended with varying amount of Cd<sup>+</sup>. Out of them four bacteria (GS2, GS5, GS10 and GS20) were found highly

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Cd tolerant (600 ppm Cd).

Cadmium tolerance and bioremediation potential of bacteria ...

Bacteria and Fungi play an important role in breaking down certain hazardous substances into simpler fragmented forms. Bacteria, which are used for bioremediation of xenobiotics includes aerobic, anaerobic, Methanotrophic, Methanogenic bacteria, Cyanobacteria and Sphingomonads.

Bioremediation of Xenobiotics: An Eco-friendly Cleanup ...

Wetland plants play a significant role in the phytoremediation of heavy metals. Here, we isolated and characterized three novel nickel (Ni)-resistant endophytic bacteria (NiEB) from the wetland plant *Tamarix chinensis*. The NiEB were identified as *Stenotrophomonas* sp. S20, *Pseudomonas* sp. P21 and *Sphingobium* sp. S42.

Characterization and bioremediation potential of nickel ...

The top three hydrocarbonoclastic bacterial isolates were selected as potential and identified as *Pseudomonas aeruginosa* (SS3), *Bacillus* sp. (RW2), and *Serratia* sp. (SB). All three isolates showed significant oil-degrading capacity compared to negative control, when incubated in sterile pond water supplemented with 2% furnace oil, suggesting them as potential bioremediation agents

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Characterization of furnace oil bioremediation potential ...

Strains GA07 and GC04 degraded glyphosate only via glyphosate oxidoreductase, but no further metabolite was detected. These results highlight the potential of the isolated bacteria to be used in the bioremediation of GP-contaminated soils. Full Text PDF [779K]

Bioremediation potential of glyphosate-degrading ...

The aim of the present study was to assess the bioremediation potential of endophytic bacteria isolated from roots of *Tridax procumbens* plant. Five bacterial endophytes were isolated and subsequently tested for minimal inhibitory concentration (MIC) against different heavy metals.

Bioremediation of heavy metals using an endophytic ...

Bioremediation has been widely accepted as an eco-friendly approach for the removal of metals from con-taminated soil and water. In the present study, an endo-phytic bacteria isolated from *T. procumbens* was assessed for their heavy metal bioremediation potential. Five heavy metal-resistant endophytic bacterial strains were isolated



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