

Theme 7: Lakes, rivers, estuaries: water quality, biotic resources, sustainable management

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ISOLATION AND IDENTIFICATION OF MICROBIAL DIVERSITY AND CHEMICAL ANALYSIS FROM THE SOIL SAMPLE OF DEAD SEA (ISRAEL)

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The aim and objective of this study is to explore the microbial diversity and analyzing the chemical composition in the soil sample of Dead Sea soil.

Though the oceans are invariably considered as largest saline body, hyper saline environments are, particularly, those containing salt concentrations in excess of seawater. Despite the prevailing extreme environment, a great diversity of microbial life has been observed in hyper saline bodies. The Dead Sea is on the border between Israel and Jordan. Exploring the microbial diversity can predict the life existing in the sea water. As the system is harsh to survive in such climatic situations, we can predict the way of their survivability.

The sample was collected from the sea. Chemical analysis was done for the sample. Sample was placed on agar medium for bacterial culture and PDA for fungal. Further, it was identified using colony properties, Gram staining and other biochemical analysis.

The result of this paper will be presented and discussed.