
Comparative studies of Microbial Populations (Bacteria and Fungus) in cultivated and uncultivated agricultural field in Black Bush Polder, Region 6, Guyana**Prof. Gomathinayagam Subramanian**

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This research seeks to investigate the diversity of the presence of microbial population such as bacteria and fungus on cultivated and uncultivated soils in Black Bush Polder. The area is predominantly an agricultural community noted especially for rice cultivation where the soils and crops are constantly and continuously exposed to harsh chemicals and commercial fertilizer application. Therefore, this research seeks to conduct a Comparative study of the Microbial Population (Bacteria and Fungus) in cultivated and uncultivated agricultural field in Black Bush Polder, Region 6, Guyana. Soil samples will be collected from both cultivated and uncultivated field soils to test the presence of microbial population such as bacteria and fungus. The using innovative scientific research methods and technology. In addition, to that identification, characterization of microorganisms and also to isolate beneficial microorganism (Bacteria and fungus). The qualitative and quantitative techniques will be used to analyze the data and the result will be presented in statistical form. Thus, the expected result will indicate a higher microbial population in uncultivated fields.

Key words:

Microbial populations, cultivated field, uncultivated field, bacteria, fungus, Black Bush Polder development of novel therapeutic strategies and solution toward infertility treatment, neurodegenerative disease etc.