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Prof. Daniel has published more than 180 research papers in the fields of Chemotaxonomy, Phytochemistry, Phytoalexins, Allelopathy and Medicinal plants and authored 18 books of which 5 are international publications. He has guided 18 students for their Ph.D and more than 50 for M. Sc. projects. Known for his oratorical skills, he had travelled far and wide and gave more than 150 lectures and about 30 webinars during Covid times. He has conducted about 5 major research projects and five national/international seminars. He is serving as a Mentor for Life Sciences in Navrachana University of Baroda and Member, Board of Studies of a number of Universities.

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Fundamentals of
Biodiversity

Dr. Debabrata Das
Prof. (Dr.) Mammen Daniel



FUNDAMENTALS OF BIODIVERSITY

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Prof. (Dr.) Mammen Daniel

 **Bharti**

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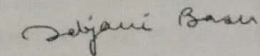
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Message

Biodiversity is a term applied for all living creatures that perform functions in the environment. It is the variability of species or genes or ecosystem for all tiny creatures to big animals and plants. Diversity of biotic organisms is therefore regarded as biodiversity. Uses of biodiversity elements are versatile as it covers various aspects of our use pattern depending upon various geographical habitats. So, the basic question is, "What are the fundamentals of biodiversity"? Its pattern and ordination over time too is also another aspect. Authors deal with this to produce a fine tune of diverse write up to make the book complete. I personally convey my sincere thanks and gratitude to all the authors and editors as well as well wishers who have made contributions to make such a beautiful book for us. Again I convey my love and affections to the entire team of the publisher to make such a wonderful book.

Thanks,



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Appraisal of Phytodiversity on Coastal Sand Dunes of West Bengal, India

Dr. Chandan Karan*, Dr. Anirban Baitalik**
& Mr. Soumitra Mandal***

ABSTRACT

This study is an attempt to document the nature of phyto diversity on coastal sand dune complex of Digha and adjoining areas in the Indian state of West Bengal. Simple quadrat sampling has been employed to collect relevant primary data regarding floral diversity. The collected data has been analyzed by applying Average Density, Shannon Diversity and Simpson Index. Findings of this study show that the floral diversity varies from small herbs to woody plants. The diversity and average density of floral species is almost same at New Digha Coast and Digha Mohona. Pandanus sp., Lantana camara, Opuntia dillenii, and Calotropis gigantea are the four important dominant dune scrubs along the Digha coast. Results of this study will be beneficial to conservation scientists for appropriate policy making related to coastal management based on the local context.

Keywords: Coastal sand dune, Phyto diversity, Shannon Diversity Index, Simpson Index, West Bengal.

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