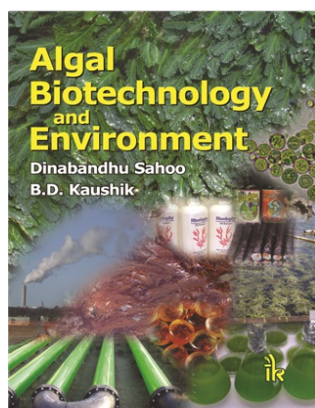


Algal Biotechnology and Environment , 1/e

Dinabandhu Sahoo & B.D. Kaushik



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About the Book

Algae grow in a wide range of habitats starting from freshwater lakes to rivers and oceans to deserts. They serve a very important role not only in the aquatic ecosystem as primary producers but are also responsible for release of oxygen into the atmosphere. Algae and their products are widely used in food, agriculture and a number of industries. In recent years it has been realized that algae can play a major role in environment and biotechnology. The present book contains 34 chapters covering diverse aspects of algae. Hence, this book will be very useful for the students, researchers, university teachers and people from a wide spectrum.

Salient Features

- ▶ Compilation of 34 articles, the book deals with different aspects of algae which include technological improvement in product harvesting, wastewater treatment, biofertilizer, to name few.
- ▶ Each chapter includes an abstract, keywords and acknowledgment at the end of the chapter.
- ▶ The articles are contributed by leading phycoecologists from across the globe.
- ▶ Colour pictures and microphotographs have been included appropriately.

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About the Author

Dinabandhu Sahoo :- obtained his M.Sc. and Ph.D. degrees from University of Delhi. He is actively engaged in research in the field of seaweeds since 1983. He was the first Indian student to visit Antarctica during 1987-88 in the 7th Indian Scientific Expedition to Antarctica. He undertook two trips to Arctic during 1991 and 1992. He was a visiting fellow at Smithsonian Institution, Washington DC, USA in 1992, INSA visiting fellow at Kochi University, Japan 1999-2000 and visiting fellow at Stamford University, USA 2002. He has visited all the seven continents and five oceans within a record time of 18 months during 1988-89. He had his training in Seaweed Cultivation and Utilisation at Philippines and Japan and visited Australia, USA, Spain, Canada, France, England, Switzerland, Peru, Portugal, Thailand, Sri Lanka, Germany, Austria, Italy, Mauritius, China, the Netherland, Hong Kong, Singapore, Bangladesh, Malaysia, Greece, Turkey, UAE, Norway, Sweden, Finland, Denmark, South Africa, South Korea, Taiwan and many other countries. He participated in many National and International Conferences. Dr. Sahoo was Chairman of the Applied Phycology Session during 4th International Phycological Congress, held at USA, 1991; Chairman, Applied Phycology Session 14th International Seaweed Symposium held at France, 1992 and Chairman, Algal Biotechnology Session, 7th International Phycological Congress held at Greece, 2001. He was Member of the International Organizing Committee and Chairman, contributed paper session, 5th International Phycological Congress, China, 1994. Dr. Sahoo organized as International Conference on Applied Phycology entitled "Algae in Biotechnology and Environment" held at New Delhi, India in 2006. Participated in the International Symposium on Marine Algae and Global Warming held at Korean National Assembly Seoul, South Korea, 2006. Member, Working Group (Asian Network for using Algae as CO₂ sink). He was the Convenor of mini symposium on Seaweed Cultivation and Utilization during XIXth International Seaweed Symposium held at Japan, 2007. Dr. Sahoo is recipient of several awards including Young Scientist Award and Zahoor Qasim Gold Medal. He is member of several International and National bodies, holding positions in various societies. Presently, he is the Secretary of Indian Phycological Society and the Executive Editor of its Journal. He has published several research papers, authored, co-authored and co-edited five books entitled 1. "Farming the Ocean: Seaweeds Cultivation and Utilization", 2. "Seaweeds of Indian Coast", 3. "Sustainable Aquaculture", 4. "Advances in Marine and Antarctic Science", 5. *Porphyra: Harvesting Gold from the Sea*. He has been actively involved in application of Science & Technology for various rural development programme at the grass roots level. Presently, he is involved in teaching and research at the Department of Botany, University of Delhi, Delhi-110007, India

B.D. Kaushik :- "B.D. Kaushik obtained his Masters and Ph.D in Microbiology from Indian Agricultural Research Institute, New Delhi and subsequently worked in different capacities before retiring as Head, Division of Microbiology in 2007. He has expertise in biological nitrogen fixation through cyanobacteria, amelioration of salt affected soils through cyanobacteria, Nif gene organization and nitrogen fixation by non-heterocystous cyanobacteria. As research guide 21 students obtained M.Sc./Ph.D. degrees during his professional career. He developed technologies on indoor production technology for BGA biofertilizer and amelioration of salt affected soils. One of technology on improved soil based BGA biofertilizer was transferred by the institute to the private entrepreneur. He has filed two patents on different technologies. Dr. Kaushik extensively has visited Germany, England, USA, Bangladesh, Nepal and many other countries. He was expert to Government of Mauritius, Ministry of Agriculture & Food Mauritius. At national level he served on different committees in ICAR, CSIR, IIT and universities. Dr. Kaushik published more than 160 papers including 83 research papers in referred journals and 7 books. For his academic contribution Dr. Kaushik was bestowed with several awards including Life Time Achievement Award from KIA Chennai. He is Fellow of National Academy of Agricultural Sciences (NAAS), Association of Microbiologists of India (AMI). He was President, Association of Microbiologists of India and currently he is President, Indian Phycological Society.

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