

Lecture No. 1

Topic: Introduction to Microbial Biotechnology

Keywords: Interferons, Bio-fertilizers, Bio-pesticides, Single cell proteins, Fodder problems, Frost Damage

Microorganisms are used extensively to provide a vast range of products and services. They have proved to be particularly useful because of

- the ease of their mass cultivation,
- speed of growth,
- use of cheap substrates (which in many cases are wastes) and
- the diversity of potential products
- their ability to readily undergo genetic manipulation

The genetically engineered microbes are being used for the commercial production of some microbial and non microbial products e.g. interferon, human growth hormones, viral vaccines, insulin etc. These genetically engineered microbes help in reducing the environmental pollution through various processes such as recovery of metals from polluted waterways; elimination of sulphur from metal ores and coal-fired power, use of bio-fertilizers and bio-pesticides etc. Microbes are being also used to produce the single cell proteins (SCP) to solve the food and fodder problems and for biogas production.

The genetically engineered bacteria have found applications in various areas:

A) Crop Production and Protection through Biological Control of Insects and Fungal Diseases, Frost Damage.

Genetically engineered bacterial strains have been developed to control insects, fungal diseases or frost damage etc.

Table-1: Genetically Engineered Bacteria in Crop Production and Protection

Bacterium	Altered trait	Possible use
<i>Rhizobium melilotii</i>	Additional copies of 'nif' genes	Increased efficiency of N ₂ fixation
<i>A. radiobacter</i>	Deletion of 'tra' gene of Agrocin 84 plasmid	Biological control of crown gall
<i>P. fluorescens</i>	Addition of lac ZY	Assessment of movement of bacteria for biological control
<i>Clavibacter xyli</i>	Transfer of B.thuringiensis delta endotoxin gene	Control of corn ear worm
<i>Pseudomonas fluorescens</i>	Transfer of Serratia marcescens chitinase gene	Control of fungal disease
<i>P. syringae</i>	Deletion of 'ice' gene	Control of frost damage

Microbial Biotechnology Lecture Notes

Michael Hoelscher



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Microbial Biotechnology for Sustainable Development and Productivity R. C. Rajak, 2000 The Book Has Been Brought Out On The Occasion Of Superannuation Of Prof Suresh K Hasija An Eminent Mycologist Of The Country The Main Objective In Compilation Of This Volume Is To Highlight The Developments And Achievements Of Biotechnology Of Microbe

Sustainable Management of Urban Plastic Waste Through Circular Economic Approaches Alok Prasad Das, Akbar John, 2024-10-14 Sustainable Management of Urban Plastic Waste Through Circular Economic Approaches covers the technologies and methods essential to overcome single use plastic processing waste It describes the biotechnological methods cutting edge research procedures and applications required to safeguard global sustainable development along with plastic waste management This book Describes technological advances made towards remediation and valorization technologies of plastic pollutants to reduce microplastic pollution Focuses on accelerating using single use plastic waste in value added products Includes examples and case studies of impact and treatment of plastics in the circular economy Explains the socio economic benefits of reducing plastic pollution This book will be of interest to researchers scientists and engineers working on sustainable management of plastic waste especially in the chemical and environmental engineering and biotechnology sectors

Decarbonization of Wastewater Pollutants as a Sustainable Solution Alok Prasad Das, Sunanda Mishra, Maulin P. Shah, 2025-09-27 Decarbonization of Wastewater Pollutants as a Sustainable Solution Developments in Wastewater Treatment Research and Processes explores eco friendly techniques for treating wastewater enabling the recycling of pollutants and managing residual wastes in a biologically acceptable manner The book addresses current and emerging technologies for wastewater treatment and reuse discussing their limitations and future potential It examines the transformation of anthropogenic waste into value added products emphasizing the critical need to handle waste more sustainably to mitigate hazards to humans animals and the environment It delves into organic waste and fourth generation biomass for targeted goods and provides insights into achieving full decarbonization by balancing residual emissions including the carbon footprint of chemical use and transportation The book covers technologies relevant to wastewater from municipal and industrial sources as well as drinking water and details physical chemical and thermal processes making it indispensable for researchers in the field Describes the most recent advanced industrial wastewater treatment technologies Provides a comparative analysis of available wastewater treatment technologies Highlights and examines the development of future technologies for removing anthropogenic contaminants from wastewater

Sustainable Municipal Waste Management with a Zero Waste Approach Alok Prasad Das, Kosala Sirisena, Dipalee Bhanja, 2026-01-01 This book includes a variety of cases detailing novel municipal waste management strategies including use of microorganisms harnessing artificial intelligence and machine learning technologies and implementing advanced waste management techniques Sustainable municipal waste management coupled with a zero waste approach and circular economy principles represents a pivotal

strategy for addressing the escalating challenges posed by municipal waste pollution. Municipal waste encompasses a diverse array of materials generated from households, businesses, institutions, and public spaces, including organic waste, plastics, paper, metals, and glass. As urbanization accelerates and consumption patterns evolve, the volume of municipal waste continues to surge, exerting significant pressures on ecosystems, public health, and natural resources. Municipal waste pollution arises from improper disposal practices, inadequate waste management infrastructure, and unsustainable consumption habits. Sources of municipal waste in the environment include landfills, incineration facilities, illegal dumping sites, and littering, contributing to soil, water, and air pollution. The indiscriminate disposal of waste leads to a number of adverse effects and impacts, including habitat destruction, wildlife entanglement, groundwater contamination, greenhouse gas emissions, and the proliferation of disease vectors. To address these challenges, innovative approaches blended with sustainability principles are essential. With these strategies, communities can transition toward more resilient and resource-efficient waste management systems.

Synergizing Sustainability for Integrated Waste Management Alok Prasad Das, Selcan Karakuş, 2026-01-27. This book project is dedicated to focusing on sustainable waste management strategies through the integration of cutting-edge technologies and strategic economic perspectives, with an emphasis on programs for prevention, recycling, composting, and disposal. The purpose of this book is to provide a comprehensive understanding of a distinctive approach to waste management, emphasizing unique strategies that differentiate it. This is achieved through the incorporation of AI-powered predictive analytics, environmentally conscious methodologies, and consideration of the entire life cycle of waste and integrated waste management models. The main objective of this book is to give readers a thorough understanding of the most recent advancements in environmentally friendly technologies promoting environmental sustainability.

Renewable Energy Generation and Value Addition from Environmental Microfiber Pollution Through Advanced Greener Solution Alok Prasad Das, Ipsita Dipamitra Behera, Narayan Prasad Das, 2024-02-24. The majority of clothes we use regularly are made up of plastic-based materials like polyester, rayon, nylon, and acrylic. When these garments are washed in laundries, they give out tiny plastic fragments termed microfibers, which end up in the environment and more precisely in the oceans. Plastic and synthetic polymer wastes, which are often irresponsibly discarded into natural habitats, undergo bio-fragmentation to give out huge amounts of microplastics and microfibers. Synthetic microfiber pollution has been reported in diverse ecosystems, ranging from land and aquatic ecosystems to shorelines and seafloors. Due to the miniature size of the microfibers, it is difficult to detect, investigate, and prevent this type of pollution that is occurring on a larger scale. It is estimated that millions of tons of microfibers are released into the ocean from various sources. They are more toxic because they are more persistent and take a long time to degrade, and they get accumulated in the environment along with other pollutants. This increases the chances of living organisms in the biosphere ingesting the synthetic microfibers, causing harm to the ecosystem and entering into the food chain, adversely affecting human beings. It had become

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