



Biotechnological Applications of Microalgae: Biodiesel and Value-Added Products

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Microalgae are an invaluable biomass source with potential uses that could lead to environmental and economic benefits for society. **Biotechnological Applications of Microalgae: Biodiesel and Value Added Products** presents the latest developments and recent research trends with a focus on potential biotechnologically related uses of microalgae. It gives an analysis of microalgal biology, ecology, biotechnology, and biofuel production capacity as well as a thorough discussion on the value added products that can be generated from diverse microalgae.

The book provides a detailed discussion of microalgal strain selection for biodiesel production, a key factor in successful microalgal cultivation and generation of desired biofuel products. It also describes microalgal enumeration methods, harvesting and dewatering techniques, and the design, and the pros and cons, of the two most common methods for cultivation—open raceway ponds and photobioreactors. Chapters cover lipid extraction and identification, chemical and biological methods for transesterification of microalgal lipids, and procedures involved in life cycle analysis of microalgae. They also examine the importance of microalgal cultivation for climate change abatement through CO₂ sequestration and microalgae involvement in phycoremediation of domestic and industrial wastewaters.

The book concludes with a general discussion of microalgal biotechnology and its potential as a modern "green gold rush." The final chapter provides an overview of advanced techniques such as genetic engineering of microalgae to increase lipid yield. This book provides a one-stop benchmark reference on microalgal biotechnology, considering all aspects, from microalgal screening to production of biofuels and other value added products.

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