

1. Record Nr.	UNINA9910296970803321
Titolo	Handbook of marine microalgae : biotechnology advances // edited by Se-Kwon Kim
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Descrizione fisica	1 online resource (605 p.)
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Front Cover; HANDBOOK OF MARINE MICROALGAE BIOTECHNOLOGY ADVANCES; Copyright; Contents; Contributors; Preface; Acknowledgments; Chapter 1 - Marine Microalgae Biotechnology: Present Trends and Future Advances; 1. INTRODUCTION; 2. ISOLATION AND CULTURE; 3. APPLICATIONS OF MARINE MICROALGAE; 4. CONCLUSIONS; Acknowledgments; References; Chapter 2 - An Introduction to Microalgae: Diversity and Significance; 1. INTRODUCTION; 2. MICROALGAE DIVERSITY; 3. MICROALGAE CELL STRUCTURE-A CLOSE LOOK; 4. MICROALGAE AS A POTENTIAL SOURCE FOR FUELS AND CHEMICALS 5. PRODUCTS STORAGE MECHANISM AND GENETIC MODIFICATION POTENTIAL OF MICROALGAE6. TECHNO-ECONOMIC IMPACT AND COMMERCIALIZATION POTENTIAL; 7. CONCLUSIONS; References; Chapter 3 - Microalgal Classification: Major Classes and Genera of Commercial Microalgal Species; 1. INTRODUCTION TO MICROALGAL CLASSIFICATION; 2. ORIGIN OF MICROALGAL DIVERSITY; 3. MAJOR PHYLA/CLASS CHARACTERISTICS OF COMMERCIAL MICROALGAL GENERA; 4. BIOTECHNOLOGICAL APPLICATIONS: MICROALGAE; References; Chapter 4 - Microalgae Isolation and Basic Culturing Techniques; 1. INTRODUCTION

2. MICROALGAL ISOLATION AND PURIFICATION TECHNIQUES
 3. STRAIN SELECTION AND SCREENING CRITERIA OF MICROALGAE; 4. MEASUREMENT OF ALGAL GROWTH; 5. CULTURE TECHNIQUES FOR MICROALGAE; 6. ADVANCED ISOLATION TECHNIQUES; References; Chapter 5 - Mass Production of Microalgae; 1. MICROALGAE SCREENING AND ISOLATION TECHNIQUES; 2. BASIC MICROALGAL CULTURING TECHNIQUES; 3. MASS PRODUCTION OF MICROALGAE; 4. CONCLUSIONS; Acknowledgments; References; Chapter 6 - Microalgal Biotechnology: The Way Forward; 1. INTRODUCTION; 2. DEVELOPMENT OF MICROALGAE CULTURE SYSTEMS
 3. PHOTOSYNTHETIC PRODUCTIVITY IN MICROALGAL MASS CULTURE
 4. OVERCOMING BIOLOGICAL LIMITATIONS IN MICROALGAL CULTURE; 5. IMPROVE RESPONSE TO VARYING SOLAR IRRADIANCE; 6. ADVANCES IN MICROALGAL FEEDSTOCK-BASED BIODIESEL PRODUCTION; 7. CONCLUSIONS; References; Chapter 7 - Stability of Valuable Components during Wet and Dry Storage; 1. INTRODUCTION; 2. STABILITY OF LIPIDS DURING STORAGE OF MICROALGAL BIOMASS AND OIL; 3. ANTIOXIDANT PROTECTION AND STABILITY DURING STORAGE; 4. CONCLUSIONS; Acknowledgments; References; Chapter 8 - Application of Microalgae Protein to Aquafeed; 1. INTRODUCTION
 2. NUTRITIONAL FEATURES OF MICROALGAE
 3. USE OF MICROALGAE IN FORMULATED FEED FOR AQUACULTURE; 4. ALTERNATIVES TO FRESH MICROALGAE; 5. BENEFITS AND SHORTCOMINGS; 6. FUTURE PERSPECTIVES; Acknowledgments; References; Chapter 9 - From the Ancient Tribes to Modern Societies, Microalgae Evolution from a Simple Food to an Alternative Fuel Source; 1. INTRODUCTION; 2. DISCOVERIES IN PHOTOSYNTHESIS AS A TOOL TO UNDERSTAND MICROALGAL METABOLISM FOR BIOFUEL DEVELOPMENT: A LITERATURE SURVEY FOR ...; 3. MICROALGAE, A MILESTONE IN LIGHT TO FUEL CONCEPT
 4. GENETIC ENGINEERING TOOLS TO DESIGN CONCEPTUAL STUDIES: TIME TRAVEL FOR GENETIC EVOLUTION OF MICROALGAL BIOFUEL RESEARCH

Sommario/riassunto

Handbook of Microalgae: Biotechnology Advances offers complete coverage of marine microalgae, including biology, production techniques, biotechnological applications, economic perspectives of applications, and environmental effects of marine microalgae blooms. With contributions from world experts, Handbook of Microalgae: Biotechnology Advances focuses on microalgae from an organism perspective to offer a complete picture from evolution to biofuel. Focuses on a comprehensive approach from an organism point of view
 Contains full coverage of all aspects of microalgae from biology through biotech

2. Record Nr.	UNISA996525669103316
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Descrizione fisica	1 online resource (XVII, 660 p. 160 illus., 75 illus. in color.)
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Sommario/riassunto	This five-volume set, LNCS 14004 - 14008 constitutes the refereed proceedings of the 42nd Annual International Conference on Theory and Applications of Cryptographic Techniques, Eurocrypt 2023, which was held in Lyon, France, in April 2023. The total of 109 full papers presented were carefully selected from 415 submissions. They are organized in topical sections as follows: Theoretical Foundations; Public Key Primitives with Advanced Functionalities; Classic Public Key Cryptography; Secure and Efficient Implementation, Cryptographic Engineering, and Real-World Cryptography; Symmetric Cryptology; and finally Multi-Party Computation and Zero-Knowledge.