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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
