

CONTRIBUTORS	VII		
PREFACE	IX		
1. HISTORICAL REVIEW OF ALGAL CULTURING TECHNIQUES <i>Hans R. Preisig</i> <i>Robert A. Andersen</i>	1	6. TRADITIONAL MICROALGAE ISOLATION TECHNIQUES <i>Robert A. Andersen</i> <i>Masanobu Kawachi</i>	83
2. FRESHWATER CULTURE MEDIA <i>Makoto M. Watanabe</i>	13	7. AUTOMATED ISOLATION TECHNIQUES FOR MICROALGAE <i>Michael Sieracki</i> <i>Nicole Poulson</i> <i>Nicholas Crosbie</i>	101
3. MARINE CULTURE MEDIA <i>Paul J. Harrison</i> <i>John A. Berges</i>	21	8. PURIFICATION METHODS FOR MICROALGAE <i>Robert R. L. Guillard</i>	117
4. TRACE METAL ION BUFFERS AND THEIR USE IN CULTURE STUDIES <i>William G. Sunda</i> <i>Neil M. Price</i> <i>Francois M. M. Morel</i>	35	9. ISOLATION AND PURIFICATION TECHNIQUES FOR MACROALGAE <i>Hiroshi Kawai</i> <i>Taizo Moromura</i> <i>Kazuo Okuda</i>	133
5. STERILIZATION AND STERILE TECHNIQUE <i>Masanobu Kawachi</i> <i>Mary-Hélène Noël</i>	65	10. PERPETUAL MAINTENANCE OF ACTIVELY METABOLIZING MICROALGAL CULTURES <i>Maïke Lorenz</i> <i>Thomas Friedl</i> <i>John G. Day</i>	145

11. LONG-TERM MACROALGAL CULTURE MAINTENANCE	157	20. ANALYSIS OF ALGAL PIGMENTS BY HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY	327
<i>John A. West</i>		<i>Robert R. Bidigare</i>	
12. CRYOPRESERVATION METHODS FOR MAINTAINING MICROALGAL CULTURES	165	<i>Laurie Van Heukdem</i>	
<i>John G. Day</i>		<i>Charles C. Trees</i>	
<i>Jerry J. Brand</i>		21. ENDOGENOUS RHYTHMS AND DAYLENGTH EFFECTS IN MACROALGAL DEVELOPMENT	347
13. PHOTOBIOREACTORS AND FERMENTORS: THE LIGHT AND DARK SIDES OF GROWING ALGAE	189	<i>Klaus Lüning</i>	
<i>Paul W. Bebrans</i>		22. VIRAL CONTAMINATION OF ALGAL CULTURES	365
14. CULTURING MICROALGAE IN OUTDOOR PONDS	205	<i>Janice Lawrence</i>	
<i>Michael A. Borowitzka</i>		23. CONTROL OF SEXUAL REPRODUCTION IN ALGAE IN CULTURE	389
15. MARICULTURE OF SEaweEDS	219	<i>Annette W. Coleman</i>	
<i>Dinabandhu Saboo</i>		<i>Thomas Pröschold</i>	
<i>Charles Yarish</i>		24. MICROALGAL LIFE CYCLES: ENCYSTMENT AND EXCYSTMENT	399
16. COUNTING CELLS IN CULTURES WITH THE LIGHT MICROSCOPE	239	<i>Susan Blackburn</i>	
<i>Robert R. L. Guillard</i>		<i>Naomi Parker</i>	
<i>Michael S. Sieracki</i>		25. CULTURES AS A MEANS OF PROTECTING BIOLOGICAL RESOURCES: <i>EX SITU</i> CONSERVATION OF THREATENED ALGAL SPECIES	419
17. PHYTOPLANKTON CELL COUNTING BY FLOW CYTOMETRY	253	<i>Makoto M. Watanabe</i>	
<i>Dominique Marie</i>		APPENDIX	
<i>Nathalie Simon</i>		A RECIPES FOR FRESHWATER AND SEAWATER MEDIA	429
<i>Daniel Vaudoz</i>		<i>R. A. Andersen</i>	
18. MEASURING GROWTH RATES IN MICROALGAL CULTURES	269	<i>J. A. Berges</i>	
<i>A. Michelle Wood</i>		<i>P. J. Harrison</i>	
<i>R. C. Everroad</i>		<i>M. M. Watanabe</i>	
<i>L. M. Wingard</i>		GLOSSARY	539
19. USING CULTURES TO INVESTIGATE THE PHYSIOLOGICAL ECOLOGY OF MICROALGAE	287	NAME INDEX	545
<i>Hugh L. MacInyre</i>		SUBJECT INDEX	565
<i>John J. Cullen</i>			