

Table of contents (24 chapters)
1. The Cell Cycle of Microalgae. Zachleder, Vilém (et al.), Pages 3-46
2. Biosynthesis of the Cell Walls of the Algae. Domozych, David S., Pages 47-63
3. Photosynthesis and Light Harvesting in Algae. Larkum, Anthony W., Pages 67-87
8. Nutrients and Their Acquisition: Phosphorus Physiology in Microalgae. Dyhrman, Sonya T., Pages 155-183
9. Sulphur and Algae: Metabolism, Ecology and Evolution. Giordano,
10. **Micronutrients**. Quigg, Antonietta, Pages 211-231
11. **Iron**. Marchetti, Adrian (et al.), Pages 233-279
12. **Selenium in Algae**. Araie, Hiroya (et al.), Pages 281-288
13. **Silicification in the Microalgae**. Finkel, Zoe V., Pages 289-300
14. **Calcification**. Taylor, Alison R. (et al.), Pages 301-318
15. **Chemically-Mediated Interactions in Microalgae**. Borowitzka, Michael A., Pages 321-357
16. **Coping with High and Variable Salinity: Molecular Aspects of Compatible Solute Accumulation**. Hagemann, Martin, Pages 359-372
17. **Effects of Global Change, Including UV and UV Screening Compounds**. Richa (et al.), Pages 373-409
18. **Lipid Metabolism in Microalgae**. Khozin-Goldberg, Inna, Pages 413-484
19. **Sterols in Microalgae**. Volkman, John K., Pages 485-505
20. **Carotenoids**. Egeland, Einar Skarstad, Pages 507-563
21. **Exocellular Polysaccharides in Microalgae and Cyanobacteria: Chemical Features, Role and Enzymes and Genes Involved in Their Biosynthesis**. Rossi, Federico (et al.), Pages 565-590
22. **Algae Genome-Scale Reconstruction, Modelling and Applications**. Dal’Molin, Cristiana G. O. (et al.), Pages 591-598
23. **Algal Physiology and Large-Scale Outdoor Cultures of Microalgae**. Borowitzka, Michael A., Pages 601-652
24. **Systematics, Taxonomy and Species Names: Do They Matter?** Borowitzka, Michael A., Pages 655-681