

Microalgae

Cyanobacteria

Microalgae

Current Research and Applications

Edited by: MN Tsaloglou

152 pp, January 2016

Book: ISBN 978-1-910190-27-2

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Expert authors describe the latest research and newest approaches to the study of these important organisms, as well as covering the more traditional methods such as morphotaxonomy. The reader is first provided with practical information on cultivation of phytoplankton, growth media and division rates for different algal species, optical techniques and automated instrumentation, such as flow cytometry. Furthermore, methods and approaches to study gene expression and regulation in phytoplankton are reviewed. A separate chapter is dedicated to the discussion of algal blooms and their effects on local environments. Coccolithophore *Emiliana huxleyi* and bioluminescent microalgae are thoroughly reviewed by experts in those fields. Finally, this book reviews the state-of-the-art of microfluidic and *in situ* sensors for phytoplankton identification. This volume is an authoritative and contemporary review of current research on microalgae. It could be an indispensable tool for anyone working in this field, or who wishes to learn more about these micro-organisms.

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- **Chapter 2:** The Cultivation of Marine Phytoplankton.
- **Chapter 3:** Phytoplankton Gene Expression.
- **Chapter 4:** Marine Microalgae and Harmful Algal Blooms: A European Perspective.
- **Chapter 5:** *Emiliana huxleyi* in the Genomic Era.
- **Chapter 6:** Bioluminescent Microalgae.
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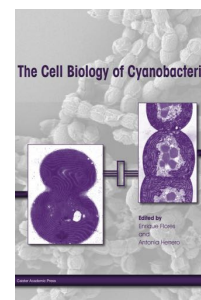
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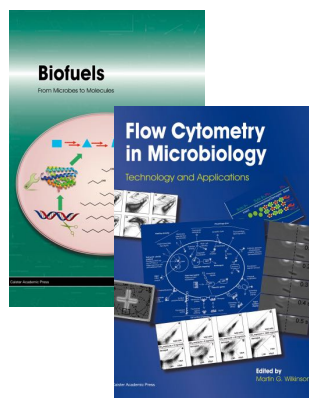
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