

HANDBOOK OF CYANOBACTERIAL MONITORING AND CYANOTOXIN ANALYSIS

EDITED BY

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KEY FEATURES

- Includes reviews on cyanobacteria and cyanotoxins
- Features standard operating procedures (SOPs) that can be used in the field and laboratory
- Provides detailed instructions for cyanobacterial sampling and examination

Although originally responsible for the addition of oxygen to the Earth's atmosphere and whilst continuing to function as primary producers, cyanobacteria also present problems to the safety of water resources and thus to human health. Driven by health incidents, increased human demands on freshwaters and regulatory instruments (guidelines and legislation), cyanobacterial monitoring and cyanotoxin analysis have become necessary actions for the risk management of water resources and health protection.

This working handbook includes:

- Reviews on cyanobacteria in water resources and health problems associated with toxic cyanobacteria
- Twenty-nine SOPs that provide detailed instructions on sampling and examination, as well as the detection, identification and quantification of specific cyanotoxins and pigments in cyanobacteria
- Information about bioassay methods for the detection of toxicity
- Discussion about invasive cyanobacteria and emerging cyanotoxins

The book is intended for researchers with interest in cyanobacterial ecotoxicology and cyanotoxins, laboratory personnel and managers with risk management responsibilities for the protection of water resources and health in the water, environmental and public health sectors.



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IN SCIENCE AND TECHNOLOGY

 Also available
as an e-book

ISBN 978-1-119-06868-6



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