

1. Record Nr.	UNISA990002910040203316
Titolo	Transnational, national, and personal voices : new perspectives on Asian American and Asian diasporic women writers / Begona Simal, Elisabetta Marino, editors
Pubbl/distr/stampa	Munster : LIT Verlag, 2004
ISBN	3-8258-8278-0
Descrizione fisica	259 p. : ill. ; 24 cm.
Collana	Contributions to Asian American literary studies ; 3
Disciplina	810.9895
Soggetti	Letteratura americana - Autori asiatici - Storia e critica
Collocazione	VII.4.B. 402
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr.	UNINA9910451547003321
Titolo	Cyanobacterial harmful algal blooms [[electronic resource]] : state of the science and research needs / / H. Kenneth Hudnell, editor
Pubbl/distr/stampa	New York, : Springer, c2008
ISBN	1-281-24230-6 9786611242305 0-387-75865-8
Edizione	[1st ed. 2008.]
Descrizione fisica	1 online resource (981 p.)
Collana	Advances in experimental medicine and biology ; ; v. 619
Altri autori (Persone)	HudnellH. Kenneth
Disciplina	579.39
Soggetti	Algal blooms - Health aspects Algal blooms - Prevention Cyanobacterial blooms - Health aspects Cyanobacterial blooms - Prevention Cyanobacterial toxins - Environmental aspects Cyanobacterial toxins - Health aspects Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"...based on platform sessions or draft workgroup reports that were presented at ISOC-HAB [International Symposium on Cyanobacterial Harmful Algae Blooms]"--P. xiii.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	An Overview of the Interagency, International Symposium on Cyanobacterial Harmful Algal Blooms (ISOC-HAB): Advancing the Scientific Understanding of Freshwater Harmful Algal Blooms -- A Synopsis of Research Needs Identified at the Interagency, International Symposium on Cyanobacterial Harmful Algal Blooms (ISOC-HAB) -- Occurrence of Cyanobacterial Harmful Algal Blooms Workgroup Report -- A world overview — One-hundred-twenty-seven years of research on toxic cyanobacteria — Where do we go from here? -- Toxic Cyanobacteria in Florida Waters -- Nebraska Experience -- Cyanobacterial Toxins in New York and the Lower Great Lakes Ecosystems -- Occurrence Workgroup Poster Abstracts -- Causes, Prevention, and Mitigation Workgroup Report -- Nutrient and other environmental controls of harmful cyanobacterial blooms along the

freshwater–marine continuum -- Global warming and cyanobacterial harmful algal blooms -- Watershed management strategies to prevent and control cyanobacterial harmful algal blooms -- Cyanobacterial toxin removal in drinking water treatment processes and recreational waters -- Causes, Mitigation, and Prevention Workgroup Posters -- Cyanotoxins Workgroup Report -- Toxin types, toxicokinetics and toxicodynamics -- The genetics and genomics of cyanobacterial toxicity -- Determining important parameters related to cyanobacterial alkaloid toxin exposure -- Toxins Workgroup Poster Abstracts -- Analytical Methods Workgroup Report -- Cyanotoxins: sampling, sample processing and toxin uptake -- Field methods in the study of toxic cyanobacterial blooms: results and insights from Lake Erie Research -- Conventional laboratory methods for cyanotoxins -- Emerging high throughput analyses of cyanobacterial toxins and toxic cyanobacteria -- Analytical Methods Workgroup Poster Abstracts -- Human Health Effects Workgroup Report -- Health effects associated with controlled exposures to cyanobacterial toxins -- Cyanobacterial poisoning in livestock, wild mammals and birds – an overview -- Epidemiology of cyanobacteria and their toxins -- Human Health Effects Workgroup Poster Abstracts -- Ecosystem Effects Workgroup Report -- Cyanobacterial toxins: a qualitative meta–analysis of concentrations, dosage and effects in freshwater, estuarine and marine biota -- Cyanobacteria blooms: effects on aquatic ecosystems -- Ecosystem Effects Workgroup Poster Abstracts -- Risk Assessment Workgroup Report -- Effective doses, guidelines & regulations -- Economic cost of cyanobacterial blooms -- Integrating human and ecological risk assessment: application to the cyanobacterial harmful algal bloom problem -- Toxin mixture in cyanobacterial blooms – a critical comparison of reality with current procedures employed in human health risk assessment.

Sommario/riassunto

Cyanobacteria are single-celled organisms that live in fresh, brackish, and marine water. They use sunlight to make their own food. In warm, nutrient-rich environments, microscopic cyanobacteria can grow quickly, creating blooms that spread across the water's surface and may become visible. Because of the color, texture, and location of these blooms, the common name for cyanobacteria is blue-green algae. However, cyanobacteria are related more closely to bacteria than to algae. Cyanobacteria are found worldwide, from Brazil to China, Australia to the United States. In warmer climates, these organisms can grow year-round. Scientists have called cyanobacteria the origin of plants, and have credited cyanobacteria with providing nitrogen fertilizer for rice and beans. But blooms of cyanobacteria are not always helpful. When these blooms become harmful to the environment, animals, and humans, scientists call them cyanobacterial harmful algal blooms (CyanoHABs). Freshwater CyanoHABs can use up the oxygen and block the sunlight that other organisms need to live. They also can produce powerful toxins that affect the brain and liver of animals and humans. Because of concerns about CyanoHABs, which can grow in drinking water and recreational water, the U.S. Environmental Protection Agency (EPA) has added cyanobacteria to its Drinking Water Contaminant Candidate List. This list identifies organisms and toxins that EPA considers to be priorities for investigation. Reports of poisonings associated with CyanoHABs date back to the late 1800's. Anecdotal evidence and data from laboratory animal research suggest that cyanobacterial toxins can cause a range of adverse human health effects, yet few studies have explored the links between CyanoHABs and human health. Humans can be exposed to cyanobacterial toxins by drinking water that contains the toxins, swimming in water that

contains high concentrations of cyanobacterial cells, or breathing air that contains cyanobacterial cells or toxins (while watering a lawn with contaminated water, for example). Health effects associated with exposure to high concentrations of cyanobacterial toxins include: stomach and intestinal illness; trouble breathing; allergic responses; skin irritation; liver damage; and neurotoxic reactions, such as tingling fingers and toes. Scientists are exploring the human health effects associated with long-term exposure to low levels of cyanobacterial toxins. Some studies have suggested that such exposure could be associated with chronic illnesses, such as liver cancer and digestive-system cancer. This monograph contains the proceedings of the International Symposium on Cyanobacterial Harmful Algal Blooms held in Research Triangle Park, NC, September 6-10, 2005. The symposium was held to help meet the mandates of the Harmful Algal Bloom and Hypoxia Research and Control Act, as reauthorized and expanded in December 2004. The monograph will be presented to Congress by an interagency task force. The monograph includes: 1) A synopsis which proposes a National Research Plan for Cyanobacteria and their Toxins; 2) Six workgroup reports that identify and prioritize research needs; 3) Twenty-five invited speaker papers that describe the state of the science; 4) Forty poster abstracts that describe novel research.
