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Les Jeudis de l'Aquapôle

22 novembre 2018

Cyanobacteria: from toxicity to treatment

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Summary : Cyanobacteria are a ubiquitous clade of photo-oxygenic bacteria and are the basis for much of the primary productivity and nitrogen fixation on Earth. However, anthropogenic eutrophication is increasingly leading to the establishment and proliferation of freshwater cyanobacterial harmful algal blooms (cyanoHABs) with the occurrence and persistence of these blooms increasing worldwide over the last decade. In addition to mechanical and aesthetic issues, many cyanoHABs produce and release toxins, which can bioaccumulate leading to many ecosystem level problems and affect human health. Scientists, regulators, and citizens are becoming more aware of the alarming health risks and financial losses associated with cyanoHABs: a development that clearly calls for an urgent need for both short-term and long-term solutions towards management of exposures of toxin (e.g. microcystin)-producing cyanobacteria and microcystins specifically. This poses the question: How do we control cyanoHABs? Indeed, nutrient remediation is the best way of control; however, this can take decades. For more immediate control, many chemical methods are employed, with various affects on the environment. This presentation will cover the biology and ecology of blooms while covering current methods for remediation and control.

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- 12h00 Accueil
- 12h15-13h00 Exposé
- 13h00-13h15 Questions - réponses
- 13h15-13h45 Pause déjeuner

