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Artificial Neural Network Model to Prediction of Eutrophication and Microcystis Aeruginosa Bloom

... Excessive reproduction of cyanobacteria is the main reason for algal blooms (Plaas & Paerl 2020; Papadimitriou et al. 2022). *M. aeruginosa* is one of the most common dominant algae species in cyanobacteria (Srisuksomwong & Pekkoh 2020; Xie et al. 2021), and its special cell structure, such as pseudo-empty cells and glial sheath, enables the cyanobacteria to move freely in the vertical direction, grow fast and release algal toxins, which ensure the dominant position of *M. aeruginosa* in many aquatic microorganisms (Dyer & Needoba 2020; Yan et al. 2020). Therefore, *M. aeruginosa* is selected as the target algae species to explore a way of bloom control. ...

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