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CARBON SEQUESTRATION BY MICROALGAE AND SOLUTION FOR GLOBAL WARMING

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Abstract

The increasing concentration of carbon dioxide (CO₂) in the atmosphere is considered to be one of the main causes of the global warming problem. Moreover, there is an international movement to reduce the emission of CO₂ by imposing different measures such as carbon tax. Biological CO₂ fixation has been extensively investigated as part of efforts to solve the global warming problem. Microalgae are fast growing systems that can consume high quantities of CO₂ to produce different types of biomass. The efficiency of microalgae is highly related to the concentration of CO₂ in the growth atmosphere and the higher the concentration of CO₂ the better is the growth and hence productivity. The present review aimed at shedding some light upon microalgal capability to sustain their viability and propagate under high CO₂ concentration.

Keywords: Carbon Dioxide, Microalgae, Tolerance, Sequestration

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