A Passive Membrane Photobioreactor for the Isolated Cultivation of Algal Resource Utilizing Selectivity (ICARUS) using wastewater as a feed stock

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Why Grow Microalgae?
Integration May Be Necessary for Economical Biomass Production

Beal (2010); Clarens (2011); Pittman (2011); Drexler (2014)
Isolated Cultivation of Algal Resource Utilizing Selectivity

ICARUS

Isolated Algal Culture

Nutrients & Dissolved Constituents

Gases (CO₂, O₂)

Water

Algae waste products

Grazers, predators, invasives

WASTEWATER REACTOR
Does ICARUS Improve Biomass Productivity?