

Algal Biotechnology Practical: Algae Farm Weed Control

Introduction

Microalgal biotechnology holds major potential for our drive towards a sustainable future. The global demand for plant biomass is expected to double by 2050, driven by an urgent need for affordable fuel, chemicals, food and animal feed. Microalgae are tiny photosynthetic plants that use sunlight to fix carbon dioxide into organic biomass; they are the green slime in your pond and the phytoplankton in the ocean. Microalgae are more efficient at photosynthesis than land plants, and they can be grown throughout the year on non-arable land, using saline water or wastewater. Microalgal biomass has been used to produce biofuels, aquaculture feed, high-value chemicals such as pigments and antioxidants, and even human food. Microalgae have also been used to remove inorganic nutrients from wastewater and to bioremediate heavy metals. At UTS, we have access to several world-class microalgal culturing facilities (Fig. 1).



Fig. 1: Microalgal growth facilities at UTS (from left): 400 L sterile bag with LED illumination for aquaculture; 6 x 0.5 L laboratory-scale photobioreactors for basic research; 600 L outdoor raceway pond for biofuel production.

Carotenoid Production

Some microalgae are able to produce large amounts of carotenoid pigments relative to their total biomass. In nature, these red-orange pigments protect the algae from damage in challenging environments, such as bright sunlight and high salinity. In humans, these pigments have powerful antioxidant properties that reduce the risk for heart disease, cancer, and vision-loss. Algae farms in Western Australia and other places grow algae such as *Dunaliella salina* and *Haematococcus pluvialis* to produce these pigments.



Fig. 2: Carotenoid production in microalgae (from left): *H. pluvialis* vegetative cells that are growing actively; *H. pluvialis* cysts that have accumulated astaxanthin; Plankton Farms algae production ponds near Karratha, Western Australia (photo courtesy of Plankton Farms)

Aquaculture Feed

Another common use for microalgae is in oyster and clam farming. While adult oysters and clams are typically farmed outdoors in estuary waters, their microscopic larva are initially grown indoors in nursery tanks. They must be fed a continuous supply of nutritious microalgae, with

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Manual Of Practical Algae Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Manual Of Practical Algae**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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