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Advances in Biotechnology 1.2.3 Third Generation Biofuels Growing lines of evidence suggest that, micro-organisms such as yeast, fungi and microalgae can accumulate large amount of lipid. This has attracted great attention and can be used as potential candidate for third generation biofuel production. Bacteria, in general, do not

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More recently, however, rapid advances in DNA/RNA sequencing and bioinformatics in microalgae have allowed lipid metabolic pathway studies at the whole genome and transcriptome level. These in turn have permitted identification of transcriptional regulators and regulatory proteins of TAG/FA biosynthetic pathway, which have been used to re-engineer cellular lipid content.

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Parallel to this, new molecular technologies for genetic and metabolic engineering of (micro)algae develop quickly. The optimization of existing biochemical pathways or the introduction of pathway components makes high-yield production of specific metabolites possible.

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Current Advances in Biotechnology of Marine Microalgae ...

The Open Microalgae Biotechnology ISSN: 2666-3953 Volume 1, 2020. Online Submission; Submit Abstract Online; ... UK and currently serves as a member in IChemE Biochemical Engineering Special Interest Group. Ir Dr Show obtained the Post Graduate Certificate of Higher Education (PGCHE) in 2014, a professional recognition in higher education ...

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Abstract Handbook of Microalgae: Biotechnology Advances offers complete coverage of marine microalgae, including biology, production techniques, biotechnological applications, economic perspectives...

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