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Review

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From low-cost substrates to single cell oils synthesized by oleaginous yeasts

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Abstract: As new feedstock for biofuels, microbial oils have received worldwide attentions

due to their environmentally-friendly characters. Microbial oil production based on low-cost

raw materials is significantly attractive to the current biodiesel refinery industry. In terms of

SCOs production, oleaginous yeast has numerous advantages over bacteria, molds and

microalgae based on their high growth rate and lipid yield. Numerous efforts have been made

on the competitive lipid production combining the use of cheap raw materials as substrates by

yeasts. In this paper, we provided an overview of lipid metabolism in yeast cells. New

advances using oleaginous yeast as a cell factory for high-value lipid production from various

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