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(54) Title: PRODUCTION OF DHA AND OTHER LC-PUFAS IN PLANTS

(57) Abstract: The invention provides recombinant host organisms (e.g., plants) genetically modified with a polyunsaturated fatty acid (PUFA) synthase system and one or more accessory proteins (e.g., PPTase and/or ACoAS) that allow for and/or improve the production of PUFAs in the host organism. The present invention also relates to methods of making and using such organisms (e.g., to obtain PUFAs) as well as products obtained from such organisms (e.g., oil and/or seed).

