

ABSTRACT :

**UNSATURATED FATTY ACID SYNTHASE GENE
ORIGINATING IN *MARCHANTIALES* PLANT AND
UTILIZATION OF THE SAME**

A $\Delta 5$ fatty acid desaturase gene, a $\Delta 6$ fatty acid desaturase gene, and a $\Delta 6$ fatty-acid-chain elongase gene are isolated from a single species of *Marchantiales*. By introducing these genes into higher plants, transformed plants which can produce arachidonic acid and eicosapentaenoic acid (EPA) are obtained.

(No figure to accompany Abstract for publication)