

UPDATE FROM THE CUTTING EDGE

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The abstracts of the recent research information appeared on the Vol.5 No.7–No.9 of "AIST TODAY" are introduced and classified by research area. For inquiry about the full article, please contact the author directly

Life Science & Technology

Production of polyunsaturated fatty acid by marine microorganisms

New labyrinthulid strains were isolated. One strain contains docosahexaenoic acid (DHA) only among polyunsaturated fatty acid (PUFA), and another contains only n-6 docosapentaenoic acid (n-6DPA). The growth optimization for labyrinthulid has revealed that the growth was accelerated in an oil-dispersed solid medium. Using growth character of labyrinthulids, we developed a new method of DHA/DPA production from food waste.

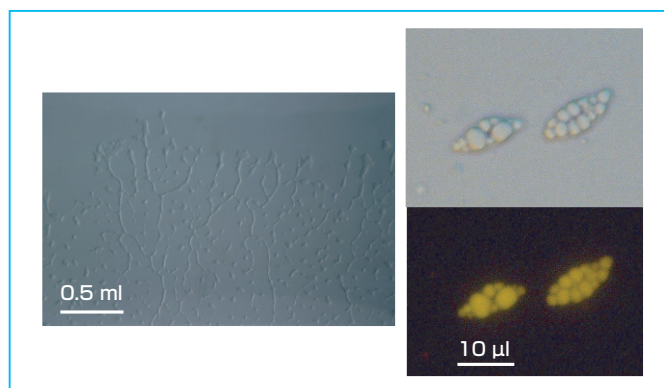


Figure: Morphological character of labyrinthulids.
(left) forming ectoplasmic network, within which the cells glide.
(right-up) vegetative cells are spindle shaped.
(right-down) many lipid bodies are observed by fluorescent dyeing.

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