

## Biotech update

The following items of relevance to biotechnology and the fats and oils industry are provided for informational purposes. J.B.M. Rattray, Associate Editor for JAOCS News for Biotechnology, compiled this listing.

### Conferences, meetings

Biotechnology and Food, Feb. 20-24, 1989, Stuttgart, West Germany. Contact: Ursula Hess, Institut für Lebensmitteltechnologie, Universität Hohenheim, Garbenstrasse 25, D-7000, Stuttgart 70, West Germany.

AgBiotech '89, March 28-30, 1989, Washington, D.C. Information: C.M.C., Box 4990, Norwalk, CT, 06856-4990.

89th Annual Meeting, American Society of Microbiology, May 14-19, 1989, New Orleans, Louisiana. Information: R.A. Bray, A.S.M., 1913 I Street NW, Washington, DC 20006.

First Eurolipid Congress, June 7-9, 1989, Angers, France. Information: French Association for the Study of Fats (AFECG), 10A rue de la Paix, 75002 Paris, France.

AchemAsia '89, Oct. 11-17, 1989, Beijing, People's Republic of China. Information: DECHEMA Organization AchemAsia, Postfach 970 146, D-6000, Frankfurt am Main 97, West Germany.

### Books

**Bioreactor Immobilized Enzymes and Cells, Fundamentals and Applications**, by M. Moo-Young, Elsevier Science Publishing, New York, 1988.

**Microbial Lipids**, Vol. 1, edited by C. Ratledge and S.G. Wilkinson, Academic Press, London and San Diego, 1988.

### Journal articles

Friedt, W., *Fat Sci. Technol.* 90:51 (1988), Biotechnology in Breeding of Industrial Oil Crops.

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Neidleman, S.L., *Biotechnol. Genet. Eng. Rev.* 5:245 (1987), Effects of Temperature on Lipid Unsaturation (oilseed crop genetic manipulation).

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Brown, D.E., M. Hasan and A.J. Thornton, *Biotechnol. Lett.* 10:249 (1988), Fat Production by *Trichoderma reesei*.

Vega, E.Z., B.A. Glatz and E.G. Hammond, *Appl. Environ. Microbiol.* 54:748 (1988), Optimization of Banana Juice Fermentation for the Production of Microbial Oil.

Sajbidor, J., M. Certik and S. Dobronova, *Biotechnol. Lett.* 10:347 (1988), Influence of Different Carbon Sources on Growth, Lipid Content and Fatty Acid

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Giesel-Buehler, H., O. Bartsch, H. Kneifel, H. Sahn and R. Schmid, *Stud. Org. Chem.* 29 (*Biocatal. Org. Media*):241 (1987), The Anaerobic Transformation of Linoleic Acid by *Acetobacterium woodii*.

Hammond, R.C., *Fat Sci. Technol.* 90:18 (1988), Enzymic Modification at the Mid-chain of Fatty Acids.

Sztajer, H., and I. Maliszewska, *Biotechnol. Lett.* 10:199 (1988), The Effect of Culture Conditions on Lipolytic Productivity of Microorganisms.

Lechner, M., H. Märkl and F. Götz, *Appl. Microbiol. Biotechnol.* 28:345 (1988), Lipase Production of *Staphylococcus carnosus* in a Dialysis Fermentor.

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Kang, S.T., and J.S. Rhee, *Biotechnol. Lett.* 10:341 (1988), Effect of Water on Hydrolysis of Olive Oil by Immobilized Lipase in Reverse Phase System.

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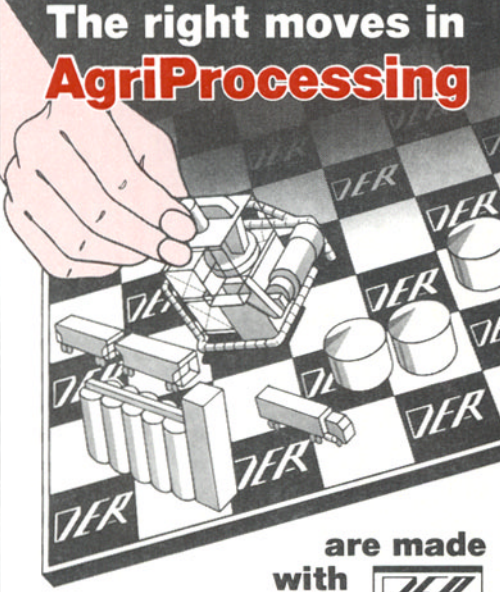
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#### Patents

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- Kanegafuchi Chem., Japan Patent (unexamined) 2,257,391 (1987), Preparation of Palmitoleic Acid by Fermentation.
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- Kanegafuchi Chem., Japan Patent (unexamined) 2,228,289 (1987), Oil and Fat Hydrolysis Using Lipase in the Presence of Water.
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- Lever, U.S. Patent 4,719,178 (1988), Continuous Interesterification Using Lipase.
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- H. Mihama, Japan Patent (unexamined) 2,248,495 (1987), Production of Vitamin A Ester.
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