

- KÖHLER, K.-H.: Licht- und Phytohormonwechselwirkung. — Wiss. Z. E. M.-Arndt-Universität Greifswald, Math.-nat. Reihe 29 : No. 1, 1930.
- KÖHLER, K.-H., CONRAD, K.: Ein quantitativer Phytokinintest. — Biol. Rundschau 4 : 36—37, 1966.
- LICHTENTHALER, H., BUSCHMANN, C.: Control of chloroplast development by red light, blue light and phytohormones. — In: AKOYUNOGLU, G., ARGYROUDI-AKOYUNOGLU, J. H. (ed.): Chloroplast Development. Pp. 801—816. Elsevier/North-Holland, Biomedical Press, Amsterdam 1978.
- PIATTELLI, M., DE NICOLA, M. G., CASTROGIOVANNI, V.: Photocontrol of amaranthin synthesis in *Amaranthus tricolor*. — Phytochemistry 8 : 731—736, 1969.
- SMITH, H.: Phytochrome and Photomorphogenesis. — McGraw Hill Book Comp., Maidenhead-Berkshire 1975.
- VAN STADEN, J., WAREING, P. F.: The effect of light on endogenous cytokinin levels in seeds of *Rumex obtusifolia*. — Planta 104 : 126—133, 1972.
- WAREING, P. F., THOMPSON, A. G.: Rapid effects of red light on hormone levels. — In: SMITH, H. (ed.): Light and Plant Development. Pp. 285—294. Butterworths, London 1976.
- ZAINALOVA, S. S.: [An estimate of the biological activity of leaf extracts from plants grown in light of various quality]. In Russ. — Fiziol. Rast. 16 : 196—204, 1969.

BOOK REVIEWS

GHOSE, T. K., FLETCHER, A., BLAKEBROUGH, N. (ed.): IMMOBILIZED ENZYMES I. Advances in Biochemical Engineering. Vol. 10. — Springer Verlag, Berlin—Heidelberg—New York 1978. Pp. 177. Fig. 48. Cloth DM 68,—. US \$ 37.40.

The tenth volume of the above-mentioned series encompasses recent knowledge in biotechnology of immobilized enzyme or enzyme systems. The first two articles of the book acquaint the readers with 1) fundamental technology and recent advances in the design and operation of immobilized enzyme reactors used for industrial applications, 2) kinetic analysis of immobilized multienzyme reactions, and with different examples of cellular based immobilized multienzyme reaction systems and special sequential enzyme systems together with the manner in which such enzyme systems may be presented. Welcome by technologists will be the third article written by R. A. Messing: he reviews carriers for immobilized biologically active systems and all factors which should be followed to choose judiciously a carrier. The last two chapters bring the reviews of immobilized enzyme technology currently used in industry as well as a number of potentially useful commercial applications of these techniques. All reviews are very rich in the cited literature and the book should not be missing in the library of any scientific or industrial microbiological institute.

P. TICHÝ (Praha)

GOTTSCHALK, G.: BACTERIAL METABOLISM. (Springer Series in Microbiology). — Springer Verlag, New York—Heidelberg—Berlin 1979. Pp. 281. Fig. 161. Cloth DM 43,—. US \$ 23.70.

The author of the book is professor of microbiology at the University of Göttingen. His experience in teaching is fully reflected in this comprehensive textbook, which in ten chapters covers

- 1) in more or less detail the metabolic pathways of different aerobic and anaerobic heterotrophs and protothrophs,
- 2) the regulation mechanisms of bacterial metabolism.

In addition a few chapters deal with ecologically very important metabolic processes managed by bacteria, like degradation of aliphatic hydrocarbons and aromatic compounds, and with molecular nitrogen fixation.

The book will be very useful to all who learn or teach bacterial metabolism.

P. TICHÝ (Praha)