

- GAFF, D. F., ELLIS, R. P.: Southern African grasses with foliage that revives after dehydration. — *Bothalia* **11** : 305–308, 1974.
- GAFF, D. F., LATZ, P. K.: Australian resurrection plants, including some grasses. — *Aust. J. Bot.* (in press) 1978.
- GAFF, D. F., ZEE, S.-Y., O'BRIEN, T. P.: The fine structure of dehydrated and reviving leaves of *Borya nitida* LABILL. — a desiccation-tolerant plant. — *Aust. J. Bot.* **24** : 225–236, 1976.
- GESSNER, F.: Die Wasseraufnahme durch Blätter und Samen. — In: RUHLAND, W. (ed.): *Handbuch der Pflanzenphysiologie*. Vol. 3. Pp. 215–246. Springer-Verlag, Berlin 1956.
- HALLAM, N., GAFF, D. F.: Re-organization of fine structure during rehydration of desiccated leaves of *Xerophyta villosa*. — *New Phytol.* **81** : 349–355, 1978.
- HALLAM, N. D., GAFF, D. F.: Regeneration of chloroplast structure in *Talbotia elegans*, a desiccation tolerant plant. — *New Phytol.* (in press) 1979.
- LEVITT, J.: *Responses of Plants to Environmental Stresses*. — Academic Press, New York—London 1972.
- MARANVILLE, J. W., PAULSEN, G. M.: Alteration of protein composition of corn (*Zea mays* L.) seedlings during water stress. — *Crop Sci.* **12** : 660–663, 1972.
- SHAH, C. B., LOOMIS, R. S.: Ribonucleic acid and protein metabolism in sugar beet during drought. — *Physiol. Plant.* **18** : 240–254, 1965.
- UMBREIT, W., BURRIS, R. H., STAUFFER, J. F.: *Manometric Techniques* 2nd Ed. — Burgess Publ. Co., Minneapolis 1959.
- VIEWEG, G. H., ZIEGLER, H.: Zur Physiologie von *Myrothamnus flabellifolia*. — *Ber. deut. bot. Ges.* **82** : 29–36, 1969.
- WELLBURN, F. A. M., WELLBURN, A. R.: Novel chloroplasts and unusual cellular ultrastructure in the 'resurrection plant' *Myrothamnus flabellifolia* WELW. (*Myrothamnaceae*). — *Bot. J. Linn. Soc.* **72** : 51–54, 1976.
- ZUCKER, M., STINSON, H. T.: Chloroplasts as the major protein-bearing structures in *Oenothera* leaves. — *Arch. Biochem. Biophys.* **96** : 637–644, 1962.

BOOK REVIEW

Hall, J. L., Baker, D. A.: *Cell Membranes and Ion Transport*. Integrated Themes in Biology. — Longman, London—New York 1977, 127 pp., 75 fig., £ 3.50.

This slim textbook successfully integrates present information and concepts about biological membranes and ion transport. Although written for the first and second year undergraduate students of biological sciences, the postgraduates may find it interesting as well. The first chapter describes the composition, molecular arrangement and dynamic nature of biological membranes. The next two chapters are concerned with the ion transport across the membrane and the fourth chapter deals with the sources of energy for this transport and its linkage to metabolism. For illustration two case studies are presented in the last chapter — the ion transport in plant cell (giant algal cell) and in animal cell (duck red blood cell). Each chapter is terminated with references and a list of book suggested for further reading.

The broad grasp not going into details makes this book suitable not only for undergraduate students but for everyone who wishes a brief introduction to a vast field of membrane sciences. The book is written clearly, concisely and may be recommended.

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