TABLE 1. *Some enzyme and RNA turnover rates in various plant tissues under normal conditions*

Enzyme and tissue	Turnover rate (day^{-1})	Reference
NO_3^--reductase; maize seedlings	3·6	Glasziou, 1969
NO_3^--reductase; maize roots (degradation rate in a NO_3^--free medium)	4·1	Oaks *et al.*, 1972
Hexose uptake system; *Chlorella* sp.	4·1	Tanner *et al.*, 1970
Phenylalanine ammonia lysase; mustard seedlings (degradation rate in darkness)	2·9	Glasziou, 1969
Isocitrate lyase; *Chlorella* sp. (degradation rate in darkness)	2·2	John *et al.*, 1970
Invertase; sugar cane	4·8	Glasziou, 1969
Invertase; artichoke and carrot	1·5	Trewavas, 1972
Invertase; sguar beet and red beet	0·7	Trewavas, 1972
Cellulose; pea epicotyl	0·6	Glasziou, 1969
RuDPCase, expanded barley leaves		
(degradation rate in darkness)	0·06–0·38	Peterson *et al.*, 1973
(synthesis rate in light)	0·12–0·55	Peterson *et al.*, 1973
Isocitrate lyase, melon	0·36	Glasziou, 1969
Malate synthetase, melon	0·36	Glasziou, 1969
RNAase	0	Glasziou, 1969
Peroxidase	0	Glasziou, 1969
NO_3^--reductase mRNA, maize roots	48·0	Oaks *et al.*, 1972
mRNA, potato tuber	7·0	Glasziou, 1969
Peroxidase mRNA, sugar cane	7·0	Glasziou, 1699
Cytoplasma rRNA, *Lemna minor*	0·17	Trewavas, 1970
Chloroplast rRNA, *Lemna minor*	0·05	Trewavas, 1970

GLASZIOU, K. T., 1969. Control of enzyme formation and inactivation in plants. *A. Rev. Pl. Physiol.* **20,** 63–88.

JOHN, P. C. L., THURSTON, C. F., and SYRETT, P. J., 1970. Disappearance of isocitrate lyase enzyme from cells of *Chlorella pyrenoidosa*. *Biochem. J.* **119,** 913–9.

OAKS, A., WALLACE, W., and STEVENS, D., 1972. Synthesis and turnover of nitrate reductase in corn root. *Pl. Physiol.* **50,** 649–54.

PETERSON, L. W., KLEINKOPF, G. E., and HUFFAKER, R. C., 1973. Evidence for lack of turn over of ribulose-di-phosphate carboxylase in barley leaves. *Pl. Physiol.* **51,** 1042–5.

TANNER, W., GRÜNES, R., and KANDLER, O., 1970. Spezifität und Turnover des induzierbaren Hexose Aufnahmesystems von *Chlorella*. *Z. Pfl. Physiol.* **62,** 376–86.

TREWAVAS, A., 1972. Control of the protein turnover rates in *Lemna minor*. *Pl. Physiol.* **49,** 47–51.