

- DOKE, N., HIRAI, T.: Starch metabolism in tobacco leaves infected with tobacco mosaic virus. — *Phytopathol. Z.* **65** : 307—317, 1969.
- DUMAZERT, C., VOUAN, L., MARCHETTI, R.: Dosage des substances amylacées et cellulosiques dans les graines. — *Extr. Bull. Soc. Pharm.* **50** : 151—153, 1964.
- GROSSMAN, A., MCGOWAN, R. E.: Regulation of glucose-6-phosphate dehydrogenase in blue-green algae. — *Plant Physiol.* **55** : 658—662, 1975.
- HOLMES, F. O.: Increase of tobacco mosaic virus in the absence of chlorophyll and light. — *Phytopathology* **24** : 1125—1126, 1934.
- HOPPE-SEYLER/THIERFELDER: *Handbuch der physiologisch- und pathologisch-chemischen Analyse für Ärzte, Biologen und Chemiker. VI. Band: Enzyme, Teil A. P. 631.* Springer Verlag, Berlin 1964.
- JIRÁČEK, V., KÚTOVÁ, J., LEBLOVÁ-SVOBODOVÁ, S.: [Stoffwechsel der keimenden Erbsenpflanzen.] In *Czech. — Rostl. Výroba (Praha)* **8** : 903—918, 1962.
- LENDZIAN, K., BASSHAM, J. A.: Regulation of glucose-6-phosphate dehydrogenase in spinach chloroplasts by ribulose-1,5-diphosphate and NADPH/NADP ratios. — *Biochim. biophys. Acta* **396** : 260—275, 1975.
- MAKOVCOVÁ, O., ŠINDELÁŘ, L.: Veränderungen der Aktivität der Phosphoenolbrenztraubensäure- und der Ribulosebisdiphosphat-carboxylase bei mit TMV infizierten *N. tabacum* cv. Samsun-Pflanzen. — *Biol. Plant. Im Druck.*
- MAKOVCOVÁ, O., ŠINDELÁŘ, L., VACULÍK, P.: Die Wirkung des 4:Phenäthylpyridins auf die Aktivität einiger Enzyme, die den Kohlenhydratabbau der Keimlinge von *Sinapis alba* L. katalysieren. — *Biol. Plant.* **13** : 133—140, 1971.
- MCGILVER, R. W.: Fruktose-1,6-diphosphatase. — In: COLOWICK, S. P., KAPLAN, N. O. (ed.): *Methods in Enzymology II.* P. 543. Academic Press Inc., New York 1955.
- OLSSON, R.: The effect of light on tobacco mosaic virus (TMV) formation. — *Physiol. Plant.* **27** : 9—12, 1972a.
- OLSSON, R.: Effect of light on tobacco mosaic virus formation under anaerobic conditions. — *Physiol. Plant.* **27** : 56—59, 1972b.
- ORLOB, G. B., ARNY, D. C.: Some metabolic changes accompanying infection by barley yellow dwarf virus. — *Phytopathology* **51** : 768—775, 1961.
- ŠINDELÁŘ, L.: Stärkestoffwechsel der mit Kartoffelvirus Y infizierten Tabakpflanzen. — *Biol. Plant.* **16** : 401—405, 1974.
- ŠINDELÁŘ, L.: Über den Stoffwechsel der freien Zucker in mit Kartoffelvirus Y infizierten Tabakpflanzen. — *Biol. Plant.* **17** : 243—250, 1975.
- ŠINDELÁŘ, L., MAKOVCOVÁ, O.: Beziehungen zwischen der Phosphatasen-Aktivität und dem Gehalt der freien Zucker bei durch die Strichelkrankheit der Kartoffeln infiziertem *N. tabacum* cv. 'Samsun'. — *Biol. Plant.* **16** : 376—381, 1974.
- TANIGUCHI, T.: A rapid method for microanalytical determination of the amount of tobacco mosaic virus in plant tissues. — *Nature* **194** : 708, 1962.

## BOOK REVIEW

BABUSHKIN, L. N.: *Pogloshchenie vodyanykh parov iz mezhklyetchnogo prostranstva list'ev* [Water Vapour Absorption from Leaf Intercellular Spaces]. — Shtiintsa, Kishinev 1976, 142 pp. 0.90 Rbl., in Russian.

This readable monography brings interesting material dealing with water vapour absorption by leaf tissues and its physiological significance, especially for reaction of plants to extreme conditions. The author shows the possibility of direct reabsorption of transpired water. He explains this fact by the existence of so called "metabolic coolers" localized predominantly in peroxisomes. A detailed description of methods used by the author for measurement of transpiration rate, water vapour absorption rate and leaf temperature is also included. The text is illustrated with 60 figures and 28 tables and supplied with 251 references.

The non-traditional approach of the author to the thermal resistance and drought resistance of plants on the basis of water reabsorption due to the function of "metabolic coolers" will certainly stimulate further interest in these not only theoretically but also practically important problems.

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