

Mohr, H., Schopfer, P.: **Plant Physiology**. - Springer-Verlag, Berlin - Heidelberg 1995. 629 pp. DM 98.00. ISBN 3-540-58016-6.

Plant physiology has experienced a growth of interest in recent years, because rapid progress in understanding the molecular bases of many processes enable the fresh attack to solution of many long-standing problems in the physiology. Therefore the translation of the fourth edition of well-known textbook of plant physiology (the original German title: Pflanzenphysiologie, 4. Auflage), done by specialists, will be certainly welcomed by English speaking scientists, university teachers and especially advanced students. This textbook offers a comprehensive treatment of the subject. After two introductory chapters concerning aims and theoretical basis of physiology, the book begins with the cell as morphological, energetic, metabolic, dividing, growing, oscillatory and gene-physiological systems (chapters 3 - 10). Further chapters (11 - 18) are concentrated on plant metabolism (photosynthesis, respiration, water relations, mineral nutrition, secondary metabolism). The part devoted to plant growth and development (chapters 19 - 27) deals with morphogenesis, sexuality, chloroplast development, hormone action, flower formation, photo- and thermoperiodism, ripening, germination, senescence, regeneration, transplantation, *etc.* Further, attention is paid to physiology of xylem and floem transport and to stress physiology (chapters 28 - 32). Last chapter is devoted to physiology of crop production. For better understanding of the subject the readable text is accompanied by 698 figures and 144 tables.

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