

- SEIDLOVÁ, F., KHATOON, S.: IAA effects of floral induction and differentiation in *Chenopodium rubrum* L. — Ann. Bot. **40** : 37—42, 1976.
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Figs. 1, 2 and 4—6 are at the end of the issue.

BOOK REVIEW

RANDALL, D. D., BLEVINS, D. G., LARSON, R. L., (ed.): CURRENT TOPICS IN PLANT BIOCHEMISTRY AND PHYSIOLOGY 1983, Vol. 1. — University of Missouri—Columbia, and RANDALL, D. D., BLEVINS, D. G., LARSON, R. L., RAPP, B. J. (ed): CURRENT TOPICS IN PLANT BIOCHEMISTRY AND PHYSIOLOGY 1983, Vol. 2. — University of Missouri—Columbia.

Two volumes of these proceedings include papers presented at the Inaugural Plant Biochemistry and Physiology Symposium and at the Second Annual Plant Biochemistry and Physiology Symposium held at the University of Missouri—Columbia, in 1982 and 1983, sponsored by the Interdisciplinary Plant Biochemistry and Physiology Group. These interdisciplinary meetings are organized to facilitate research and training through interdisciplinary and cooperative approaches to problems facing plant biochemistry and physiology.

Each volume contains papers, minipapers and poster abstracts dealing with selected topics in a few different areas of plant sciences. The first volume of the proceedings collects papers which are devoted to the role of calcium ion, phytochrome and their possible relations, to problems of photosynthesis and photorespiration. Several contributions concern H^+ -translocating ATPase and coupling factor. Several papers inform on topics of molecular biology — especially on problems and perspectives of plant genetic engineering, nitrogen fixation and hydrogen production in photosynthetic bacteria.

The subjects covered in the second volume fall into five main groups. Among the problems discussed there are mechanisms of sucrose metabolism and biosynthesis and transport of photosynthate. Other papers provide information on plant cell wall protein and on a new model for the primary cell wall. Much attention is given to the problems of water relations and temperature and salt stresses. Several contributions deal with the plant cell culture for the crop improvement.

The proceedings provide a comprehensive overview of recent research and different approaches to the problem and summarize contemporary results and perspectives in the field of plant biochemistry and physiology. However, a formal flaw of both the volumes is an incomplete and inexact presentation of the editorial committee on the covers and inside the books.

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