

Miglani, G.S.: **Dictionary of Plant Genetics and Molecular Biology**. - Haworth Press, New York - London 1998. 348 pp. USD 49.95. ISBN 1-56022-871-7.

This dictionary includes definitions and description of more than 3 500 terms and concepts used in various specializations of plant genetics: molecular genetics, cytogenetics, biochemical genetics, population genetics, mutagenesis, evolutionary genetics, and plant biotechnology. Different terms included in this book are arranged alphabetically and cross references are provided wherever necessary. In addition, alternate names of terms are given. Authors who described, or contributed toward further understanding of individual terms are listed in parentheses following the entry, and respective publications are mentioned in the bibliography. For terms having different meanings in different contexts various definitions are indicated.

Providing a comprehensive compilation of plant genetics terms in one book, the dictionary is very useful for students, teachers, and research workers from universities and institutes all over the world who are involved in using principles of genetics in both conventional and unconventional methods for crop improvement.

J. POSPÍŠILOVÁ (*Praha*)

Abe, M. (ed.): **Environmental Effects and Their Control in Plant Propagation and Transplant Production**. Volume 1 (1996-1998). - Chiba University, Matsudo 1999. 342 pp.

This collection of papers, reviews and abstracts of T. Kozai, C. Kubota, C. Chun and co-workers from the Laboratory of Environmental Control Engineering, Faculty of Horticulture, Chiba University provides an accessible literature and references to many plant propagators and environmental control scientists. It can also stimulate young researchers and students to work in the area of plant propagation and transplant production. This volume consist of four sections: journal papers, reviews and papers published in conference proceedings, review articles in monographs and textbooks, and abstracts. The papers published in English during 1996 - 1998 and those accepted in 1999 are included. The publication are photographically reproduced as they appear in the original literature. The most important topics are photoautotrophic micropropagation, environmental control and its effect on plantlet growth, photosynthetic and transpirational characteristics of plantlets, simulation of time course of CO<sub>2</sub> concentration and photosynthetic rate in cultures, low-temperature storage of micropropagated plants, and greenhouse technology for saving the earth in the 21<sup>st</sup> century.

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