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Figures at the end of the issue.

BOOK REVIEW

LUCKNER, M., NOVER, L., BÖHM, H.: **Secondary Metabolism and Cell Differentiation.** Molecular Biology, Biochemistry and Biophysics. Vol. 23. — Springer Verlag, Berlin 1977. 130 pp., in English. DM 48,—; US \$ 21.20.

The volume is based on the concept that the biosynthesis of secondary natural substances is a widely found characteristic of cell specialization in almost all organisms. As in other specialization processes, the formation of the enzymes of secondary metabolic pathways is dependent on the stage of differentiation of the respective cell. For this reason the central theme of the book is the analysis of differentiation programmes.

The volume is divided into two parts. The first part deals with various aspects of cell specialization of microorganisms, higher plants and animals from the view of expression of secondary metabolism. The chapters include: coordinate and noncoordinate promotion of enzymes of secondary metabolism, regulatory effectors in this field and phase dependence of secondary metabolism and the organization of differentiation programmes.

The second part of the book concerns the particular aspects of the secondary natural substances in cell cultures of higher plants and problems of differentiation. The chapters present: the fate of secondary metabolism during initiation of plant cell cultures, realization of secondary metabolism (triggering factors, enzyme activities, comparison with the related intact plant), correlation between secondary metabolism and cellular structures and growth of plant cell cultures and formation of secondary substances.

This book will be very useful to plant physiologists and biochemists.

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