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**Book Reviews**


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**Cole, H.H.; Garrett, W.N. (eds): Animal Agriculture. The Biology, Husbandry, and Use of Domestic Animals. 2. Ed. San Francisco: Freeman 1980. 739 pp., 318 figs. Hard bound £ 10.95.**

The 2nd edition of "Animal Agriculture" by Cole and Garrett is a very interesting manual on the modern problems of biology of agricultural animals and animal breeding. It contains 6 sections: I. Animal agriculture: its scope and future, II. Animal products, III. Inheritance and animal improvement, IV. Animal functions and their physiological control, V. Animal nutrition, VI. Animal management. Separate chapters within each section are written by distinguished scientists and specialists, and contain very useful up-to-date information. A great advantage of this book is the excellent choice of illustrative material. Of great interest is Section IV where data on the development and regulation of basic physiological functions connected with reproduction and productivity are presented. Very useful is the inclusion in the 2nd edition of a chapter on the management of aquatic species, since the fish products play a great role in the nutrition of man. But it would have been very useful if some data were given on such important branches of animal breeding as fur and deer breeding. Meanwhile, in this book there is no mention of these, and even in the Index there are no such words as fox, mink or reindeer. One would like to hope that respective chapters are included in the 3rd edition of the book

D.K. Belyaev, Novosibirsk

**Van Brink, J.M.; Vorontsov, N.N. (eds.): Animal Genetics and Evolution. Selected papers of the XIV. International Congress of Genetics, August 21–30, 1978, Moscow. The Hague: Dr. W. Junk 1980. IV, 393 pp., 180 figs., 65 tabs. Hard bound \$ 99.–.**

This volume contains papers presented at the 14th International Congress of Genetics in Moscow in 1978 including

items from two symposia ("Evolutionary and population genetics" and "Genetics of isozymes") and three contributed paper sessions ("Animal Cytogenetics and karyosystematics", "Gene expression in eukaryotes" and "Evolutionary and Population Genetics of Animals"). Some of the symposia papers have already been published in the Congress proceedings. In fact, the majority of papers deal with the cytogenetics of wild animal populations.

The main interest of the volume is the insight it gives into the Russian work in this field, which is extensive and of a high standard, in particular that of Vorontsov's group. There are also valuable papers by Golubovsky (on the role of transposable elements in *Drosophila* populations in leading to a burst of mutations, often themselves unstable) and by Zaidanov (on the multiple effects of artificial selection in *Drosophila* populations, again drawing attention to the possible role of transposable elements, in this case producing spontaneous mutations in the selected lines).

A. Robertson, Edinburgh

**Folia Dendrologica. Vol. 8. Veda Vydavatelstvo Slovenskej Akadémie Vied, Bratislava, 1981. 190 pp. Soft bound Kcs 22.–.**

This yearbook, published by the Arboretum Mlynany of the Czechoslovakian Academy of Science, contains a number of interesting articles for tree breeders: the importance of nectary structures in the study of taxonomy and breeding in the genus *Salix* (J. Chmelar); the changeability of beeches in Europe (A. M. Svoboda); the variability of hybrid swarms of *Pinus mugo* and *Pinus sylvestris* (J. Viewegh). This last article shows that the method of hybrid indices for the investigation of hybrid slump in a given locality can also be applied for other species with similar hybridization possibilities. All papers are given in Czechoslovakian, with summaries in English, German and Russian.

H.F. Linskens, Nijmegen