
Book Reviews

The Trematoda: with special reference to British and other European forms. Ben Dawes. Cambridge, Engl.: at the Univ. Press; New York: Macmillan, 1946. Pp. xvi + 644. (Illustrated.) \$10.50.

This book includes in one volume the more significant information from the literature on the Trematoda. It provides means for identification of the trematode parasites of representative animals of Europe and other countries. The treatment of North American literature on the group, although less complete than that of Great Britain, is extensive. The volume presents a more complete description of the structure, modes of life, bionomics, and life histories of the class than can be found in any single volume hitherto published. While not sufficiently complete to serve as a reference text for specialists on trematodes, it will be valuable to students, teachers, and research workers in their quest for relevant information on the members of this class. More specific information may be obtained from the approximately 1,600 titles cited in the list of literature, detailed references to the authors of which are given throughout the text. In this respect alone the volume is a very important contribution.

After brief treatment of the interrelations of the classes in the phylum Platyhelminthes, the author turns to the Trematoda and contrasts the life histories of Monogenea and Digenea, with examples. The taxonomic position of the order Aspidogastrea is discussed. Detailed descriptions of the external and internal structures in members of the Monogenea and Digenea are given to enable the reader to interpret the material dealing with the taxonomy of these forms. In the section on classification of Monogenea, a key to the suborders, superfamilies, and families is followed by a diagnosis of each group with further keys to the subfamilies under the diagnosis of each family. A similar but more comprehensive scheme is undertaken with keys and diagnoses of 47 families of the Digenea.

Three hundred pages list and describe the Monogenea of British fishes and Amphibia, the digenetic trematodes of British and some other fishes, some common Digenea of Amphibia and Reptilia, and some trematodes of birds and mammals. Many species are described and figured, and keys to genera with diagnoses and lists of species are provided. Many North American forms are included.

The author presents the larval types of the Digenea with descriptions of specific examples and ample illustrations. The different types of life histories of Trematoda are described and their reproduction, geographical distribution, and phylogeny discussed.

The book is stimulating and suggests many opportunities for further research. Particularly is this true in the section on the biology of the Trematoda, where the author introduces some of the problems concerning the fundamental physiological processes of trematode larvae.

A special effort is made to use scientific names correctly and to eradicate the confusion that has in some instances resulted

from their misuse. The book contains seven comprehensive tables and hundreds of illustrations, some new and some redrawn from various authors. Cross references appear throughout the text, which is completely indexed.

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Scientific Book Register

BARTSCH, PAUL. *A monograph of the West Atlantic mollusks of the family Aclididae.* (Smithsonian Miscellaneous Collections, Vol. 106, No. 20.) Washington, D. C.: Smithsonian Institution, 1947. Pp. 30. (Illustrated.)

BERNHEIM, B. M. *A surgeon's domain.* New York: W. W. Norton, 1947. Pp. 253. \$3.00.

HAMBLY, W. D. *Cranial capacities, a study in methods.* (Fieldiana-Anthropology, Vol. 36, No. 3.) Chicago: Chicago Natural History Museum, 1947. Pp. 50. \$.75.

NATIONAL BUREAU OF STANDARDS. (Mathematical Tables Project.) *Tables of spherical Bessel functions.* New York: Columbia Univ. Press, 1947. Pp. xxviii + 379. \$7.50.

PAULI, WOLFGANG. *Meson theory of nuclear forces.* New York: Interscience Publishers, 1946. Pp. 69. (Illustrated.) \$2.00.

PIGMAN, W. W., and WOLFROM, M. L. (Eds.) *Advances in carbohydrate chemistry.* (Vol. 2.) New York: Academic Press, 1946. Pp. xiv + 323. \$6.60.

PRICE, CHARLES C. *Mechanisms of reactions at carbon-carbon double bonds.* New York: Interscience Publishers, 1946. Pp. viii + 120. \$2.50.

SELYE, HANS. *Encyclopedia of endocrinology.* Section IV: *The ovary*; Vol. VII: *Ovarian tumors.* Montreal: Richardson, Bond and Wright, 1946. Pp. vi + 289; Bibliography: Pp. 427.

SHAPIRO, HARRY H. *Applied anatomy of the head and neck: for students and practitioners of dentistry.* (2nd ed.) Philadelphia-London-Montreal: J. B. Lippincott, 1947. Pp. xvi + 303. (Illustrated.) \$10.00.

SPOEHR, ALEXANDER. *Changing kinship systems.* (Anthropological Ser., Vol. 33, No. 4. Pub. 583.) Chicago: Field Museum of Natural History, 1947. Pp. 82. \$1.00.

STRATTON, F. J. M. (Ed.) *Reports of proceedings, The Fourth General Assembly of the International Council of Scientific Unions* (London, July 22-24, 1946). Cambridge, Engl.: at the Univ. Press, 1946. Pp. viii + 128. 5 s.

TATE, G. H. H. *Mammals of Eastern Asia.* New York: Macmillan, 1947. Pp. xiv + 366. (Illustrated.) \$4.00.