

Book Review

Proteinases and Their Inhibitors in Cells and Tissues. By György Rappay. (Progress in Histochemistry and Cytochemistry, Vol. 18, No. 4. Edited by W. Graumann, Z. Lojda, A. G. E. Pearse, and T. H. Schiebler.) Gustav Fischer Verlag, Stuttgart, 1989, iv + 61 pp. DM 54; approx. \$28.

This monograph is organized with seven sections plus references and subject index. These sections are titled (1) Introduction, (2) Nomenclature of Proteases and Their Inhibitors, (3) Morphological Approach of Localization, (4) Physiological Approach of Localization, (5) Roles of Proteinases in Cell Biology, (6) Concluding Remarks, and (7) Summary. There are a total of 345 references to the literature, primarily from 1987 and earlier. The subject area is quite broad and is dealt with as an overview with reference to the specific literature. This monograph is an extension of an earlier monograph in this series, Vol. 18, No. 1, "The Histochemical and Cytochemical Localization of Proteases: A Review," by P. L. Sannes. There are several tables which provide excellent summaries of examples of proteinases, protease mechanisms, and protease inhibitors. Also included

are examples of immunostained tissue sections of pituitary showing the effects of various inhibitors on pituitary hormones. As stated by the author in the Introduction, there is an emphasis on proteinases and inhibitors that affect endocrine cell systems.

A good introduction or review (depending on the background of the reader) of proteases and their mechanism is provided. Also useful are the summary tables with literature references regarding natural and synthetic protease inhibitors and tissue localization of various proteases detected by immunostaining. Several typographical or printing errors are apparent but usually do not detract from the meaning. This monograph is definitely useful for researchers and students in endocrinology, and it should also be considered of interest to biochemists and physiologists.

Bruce L. Currie
*Department of Medicinal
Chemistry and Pharmacognosy
University of Illinois at Chicago
P.O. Box 6998, m/c 781
Chicago, Illinois 60680*