

and physical properties. An interesting table lists all known alkaloids isolated from each Papaveraceae species. A short section deals with the confusing chemotaxonomy of the family. This chapter involves a complex group of alkaloids, and Santavy has been quite thorough, as evidenced by the citation of 853 references.

The final chapter, by R. S. Kapil and R. T. Brown, covers monoterpene alkaloid glycosides. Many alkaloids of this novel class were discovered after biosynthetic studies that predicted their existence. They are condensation products of secologanin with dopamine, tryptamine, and tryptophan derivatives and are considered biosynthetic precursors of the *Ipecacuanha*, terpenoid indole, and *Camptotheca* alkaloids. This class of alkaloids is expected to expand as isolation methods become more sophisticated and different biosynthetic schemes are investigated.

This volume, like its predecessors, should prove invaluable to alkaloid chemists.

Reviewed by Susan Tafur  
Philip Morris Research Center  
Richmond, VA 23261

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**Pharmacological and Biochemical Properties of Drug Substances, Vol. 2.** Edited by MORTON E. GOLDBERG. American Pharmaceutical Association, 2215 Constitution Ave., N.W., Washington, DC 20037. 1979. 557 pp. 16 × 23 cm. Price \$29.00 (\$20.00 member rate).

Volume 2 of this series reviews 20 new drug entities in various therapeutic classes. The monographs discuss the chemistry, animal pharmacology, metabolism and pharmacokinetics, toxicology, and clinical pharmacology of agents that represent prototypes for major therapeutic drug classes. The drug substances considered are amoxapine, butorphanol, valproic acid, atenolol, bretylium tosylate, disopyramide, metoprolol, labetalol, sulfapyrazone, cephadrine, doxycycline, miconazole, tamoxifen, auranofin, levamisole, penicillamine, acetylcysteine, ipratropium bromide, sincalide, and endorphins. The information conveniently presented in this series concerning the biological properties of agents may be difficult to locate in other sources. In most instances, the monograph authors are associated with the company responsible for developing the drug and as such offer a unique perspective of the various stages of discovery and testing.

Staff Review

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## NOTICES

*The Action of Drugs on Calcium Metabolism. Progress in Pharmacology. Vol. 2, No. 1.* Edited by P. A. van ZWIETEN and E. SCHONBAUM. Gustav Fisher Verlag, D-7000 Stuttgart 72 Postfach 720 143, West Germany. 1978. 83 pp. 16 × 24 cm.

*Botanical Dermatology. Plants and Plant Products Injurious to the Skin.* By JOHN MITCHELL and ARTHUR ROCK. Lea & Febiger, 600 South Washington Square, Philadelphia, PA 19106. 1979. 786 pp. 13 × 22 cm. Price \$39.50.

*Evaluation and Optimization of Laboratory Methods and Analytical Procedures. A Survey of Statistical and Mathematical Techniques.* By DESIRE L. MASSART, AUKE DIJKSTRA, and LEONARD KAUFMAN. Elsevier Scientific Publishing, 52 Vanderbilt Ave., New York, NY 10017. 1978. 596 pp. 16 × 24 cm. Price \$57.75.

*Glycoproteins and Glycolipids in Disease Processes. ACS Symposium Series 80.* By EARL F. WALBORG, Jr. American Chemical Society, 1155 16th St., N.W., Washington, DC 20036. 1978. 479 pp. 15 × 23 cm. Price \$33.50.

*Hospital-Associated Infections in The Compromised Host. (Handbook on Hospital-Associated Infections, Vol. 2.)* Edited by GERALD P. BODEY and VICTORIO RODRIQUEZ. Dekker, 270 Madison Ave., New York, NY 10016. 1979. 263 pp. 15 × 23 cm. Price \$32.75.

*Hospital-Associated Infections in the General Hospital Population and Specific Measures of Control. (Handbook on Hospital-Associated Infections, Vol. 3.)* Edited by DIETER GROSCHEL. Dekker, 270 Madison Ave., New York, NY 10016. 1979. 188 pp. 14 × 23 cm. Price \$25.00.

*Molecular Interactions and Activity in Proteins. Ciba Foundation Symposium 60 (new series).* Elsevier/North-Holland, 52 Vanderbilt Ave., New York, NY 10017. 1978. 279 pp. 16 × 24 cm.

*Pharmacy Management for Students and Practitioners. 2nd Ed.* By C. PATRICK THARP and PEDRO J. LECCA. C. V. Mosby, 11830 Westline Industrial Drive, St. Louis, MO 63141. 1979. 226 pp. 17 × 25 cm. Price \$15.95.

*Sex Hormones and Behavior. CIBA Foundation Symposium 62 (new series).* Elsevier/North-Holland, 52 Vanderbilt Ave., New York, NY 10017. 1979. 382 pp. 16 × 24 cm.

*Sleeping Pills, Insomnia, and Medical Practice. Report of a Study from the Institute of Medicine.* National Academy of Sciences, Washington, D.C. 1979. 127 pp. 21 × 28 cm. Price \$6.00.

*Recent Developments in Chromatography and Electrophoresis. Proceedings of the 9th International Symposium on Chromatography and Electrophoresis. Riva del Gara, 15-17 May 1978.* Edited by ALBERTO FRIGERIO and LEIKA RENOZ. Elsevier/North-Holland, 52 Vanderbilt Ave., New York, NY 10017. 1979. 357 pp. 19 × 24 cm. Price \$58.50.

*Legemiddel-forbruket i Norge. En statistisk fremstilling av legemiddel-forbruket i Norge for arena 1975-77 basert pa omsetning av legemidler fra Norsk Medisinaldepot til apotek og sykehus.* Redaktor: Sjefsanalytiker Kare ydvin Norsk Medisinaldepot. 185 pp. 21 × 30 cm.

*Reviews of Physiology, Biochemistry and Pharmacology. Vol. 82. Catecholamine Receptors, Synthesis and Secretion of Albumin, Gating Currents in Excitable Membranes.* By R. H. ADRIAN et al. Springer-Verlag, 175 Fifth Ave., New York, NY 10010. 1978. 213 pp. 16 × 24 cm. Price \$39.80.

*Reviews of Physiology, Biochemistry and Pharmacology. Vol. 83. Transport Processes in Formation of Cerebrospinal Fluid, Optical Measurement of Membrane Potential, Cell-Cell Adhesion, Pharmacogenetics, Biochemistry and Pharmacology.* By R. H. ADRIAN et al. Springer-Verlag, 175 Fifth Ave., New York, NY 10010. 1978. 196 pp. 16 × 24 cm. Price \$39.00.

*Serotonin in Health and Disease Vol. III: The Central Nervous System.* Edited by WALTER B. ESSMAN. Spectrum, 175-20 Wexford Terrace, Jamaica, NY 11432. 1978. 460 pp. 15 × 24 cm. Price \$37.50.