

pharmaceutics and clinical pharmacokinetics. It would also be useful as a review or first introduction for practicing pharmacists as well as students and practitioners in related health fields.

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Pharmacological and Biochemical Properties of Drug Substances, Vol. 1. Edited by MORTON E. GOLDBERG. American Pharmaceutical Association, 2215 Constitution Ave., N.W., Washington DC 20037. 1977. 413 pp 16 × 23 cm. Price \$21.00 (\$14.00 member rate).

This volume, which promises to be the first of a continuing series, is designed as a companion series to "Analytical Profiles of Drug Substances" edited by Klaus Florey. While Florey's series emphasizes chemical properties of drugs, this volume has the overall objective of reviewing the biological properties of agents that represent prototypes for the major classes of drugs available.

The contents of this initial volume include central nervous system agents (clozapine and pemoline), cardiovascular agents (clonidine and dobutamine), chemotherapeutic agents (amikacin and cefazolin), anti-inflammatory agents (fenoprofen, halcinonide, and tolmetin), pulmonary and antiallergy agents (albuterol, cromolyn sodium, and terbutaline), GI agents (cimetidine and prostaglandin analogs), antifertility agents (prostaglandin analogs), and diagnostic agents (metrizamide). The general outline for each monograph consists of a brief discussion of the chemistry of the compound followed by animal pharmacology, toxicology, biopharmaceutics, and clinical pharmacology. The most valuable sections are the discussions of animal and clinical pharmacology.

Most chapters contain extensive tables of data. Some monographs also include descriptions of the agent's effect in pharmacological tests unrelated to its therapeutic indication. This information is particularly interesting because it is often difficult or impossible to extract from the primary literature.

Most monographs, except the monograph on pemoline, contain references into the 1976 and, in some cases, the 1977 literature. All monographs, except the one on clozapine, contain the title of the referenced articles. The volume is relatively free of errors, although the tables on pages 161 and 231 contain ED₅₀ values that do not fall within the quoted confidence limits.

As stated above, as well as in the preface of the volume, the editor's objective was to include prototypes for the major classes of drugs available. This reviewer does not believe that drugs such as amikacin, cefazolin, fenoprofen, and tolmetin can be considered as prototypes of classes in keeping with Webster's definition. On the other hand, clonidine and cimetidine certainly would be considered prototypes. Of course, including only true prototypes would lead to a short series of volumes. Followup drugs such as those mentioned are valuable additions to this volume. Their value would be further increased if emphasis were given not only to comparing them with their original commercial target but also to comparing them with other drugs in development by competitors aiming for these same targets.

In summary, the concept of this series promises to be a valuable addition to the pharmaceutical literature. Its success will depend on the discipline of its editor and the objectivity of its authors.

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NOTICES

The Synthesis of Prostaglandins. By ABHIJIT MITRA. Wiley, 605 Third Ave., New York, NY 10016. 1977. 444 pp. 15 × 23 cm.

This book presents a comprehensive review of the new synthetic methods and reactions used to construct prostaglandins, describing in detail almost all of the syntheses of the naturally occurring compounds,

thromboxanes, and analogs. Various syntheses are classified according to major synthetic strategies. The individual synthesis is then presented with a brief introduction highlighting the key reaction(s) and followed by a synthetic strategy in the form of a flow diagram that shows the strategic bond disconnections. The actual synthesis is depicted in flow-sheet form with extensive footnotes explaining the reactions and their stereochemical outcome if applicable. Both author and subject indexes are included.

Catecholamines of 'Developing' Brain. Preconditioning of Behavior (Aggression? Anxiety?). By CLARA TORDA. Walters, 101 W. 12th St., New York, NY 10011. 1977. 255 pp. 20 × 28 cm.

Biochemistry. By PAUL JAY FRIEDMAN. Little, Brown, 34 Beacon St., Boston, MA 02106. 1977. 211 pp. 21 × 28 cm. Price \$7.95.

Hagers Handbuch der Pharmazeutischen Praxis. Edited by P. H. LIST and L. HÖRHAMMER. Springer-Verlag, 175 Fifth Ave., New York, NY 10010. 1977. 570 pp. 16 × 24 cm. Price \$65.20.

Epidemiological Evaluation of Drugs. Edited by F. COLOMBO, S. SHAPIRO, D. SLONE, and G. TOGNONI. PSG, 545 Great Rd., Littleton, MA 01460. 1977. 333 pp. 16 × 24 cm. Price \$23.00.

Clinical Psychopharmacology. Edited by JERROLD C. BERNSTEIN. PSG, 545 Great Rd., Littleton, MA 01460. 1977. 154 pp. 15 × 24 cm. Price \$12.50.

Peptide Transport and Hydrolysis. Ciba Foundation Symposium 50 (new series). Edited by KATHERINE ELLIOTT and MAEVE O'CONNOR. Elsevier, 52 Vanderbilt Ave., New York, NY 10017. 1977. 385 pp. 16 × 24 cm.

Health and Disease in Tribal Societies. Ciba Foundation Symposium 49 (new series). Elsevier, 52 Vanderbilt Ave., New York, NY 10017. 1977. 344 pp. 16 × 24 cm.

Organic Syntheses. Vol. 57. Edited by CARL R. JOHNSON *et al.* Wiley, 1 Wiley Drive, Somerset, NJ 08875. 2047 pp. 15 × 23 cm. Price \$12.95.

Problems of Clinical Pharmacology in Therapeutic Research: Phase 1. Edited by H. P. KUEMMERLE, T. K. SHIBUYA, and E. KIMURA. Urban & Schwarzenberg, 7 E. Redwood St., Baltimore, MD 21202. 1977. 420 pp. 15 × 23 cm. Price \$28.50.

Biosynthesis. Vol. 5. A Specialist Periodical Report. Edited by J. D. BU'LOCK, *et al.* The Chemical Society, Burlington House, London, W1V 0BN, England, 1977. 318 pp. 13 × 22 cm. Price \$45.00. Available from Special Issues Sales, American Chemical Society, 1155 16th St., NW, Washington, DC 20036.

Drug Discrimination and State Dependent Learning. Edited by BENG T. HO, DANIEL W. RICHARDS, III, and DOUGLAS L. CHUTE. Academic, 111 Fifth Ave., New York, NY 10003. 1978. 392 pp. 15 × 23 cm. Price \$23.00.

Manual of Anesthesia. By JOHN C. SNOW. Little, Brown, 34 Beacon St., Boston, MA 02106. 1977. 547 pp. 14 × 22 cm. Price \$12.50.

Workplace Safety and Health. The Role of Workers' Compensation. By JAMES ROBERT CHELIUS. American Enterprise Institute for Public Policy Research, 1150 17 St., NW, Washington, DC. 20036. 1977. 97 pp. 15 × 23 cm. Price \$2.75.

WHO Expert Committee on Specifications for Pharmaceutical Preparations. Twenty-Sixth Report. World Health Organization, 49 Sheridan Ave., Albany, NY 12210. 1977. 53 pp. 13 × 20 cm. Price \$2.80.

International Nonproprietary Names (INN) for Pharmaceutical Substances. Cumulative List No. 5. World Health Organization, 49 Sheridan Ave., Albany, NY 12210. 1977. 332 pp. 17 × 24 cm. Price \$19.20.

Perspectives in Pharmacy. Edited by ALBERT I. WERTHEIMER and MARGARET L. SCHUBERT. College of Pharmacy, University of Minnesota, Minneapolis, MN 55455. 1977. 84 pp. 15 × 23 cm.

Toxicologic Emergencies. A Handbook in Problem Solving. By LEWIS R. GOLDFRANK and ROBERT KIRSTEIN. Appleton-Century-Crofts, 292 Madison Ave., New York, NY 10017. 1977. 180 pp. Price \$9.75.

Physical Chemistry for Students of Pharmacy and Biology. 3rd Ed. By S. C. WALLWORK and D. J. W. GRANT. Longman, 19 W. 44th St., New York, NY 10036. 1977. 607 pp. 14 × 22 cm. Price \$18.00.