

REVIEWS

Toxicology: Review and Prospect. Edited by W. A. M. DUNCAN, *Excerpta Medica*, Amsterdam, The Netherlands, vii + 297 pp. 16 × 24 cm.

It is quite apparent that toxicology has become a paramount science in a rather short period. Recent additions to the scientific literature include *Critical Reviews in Toxicology*, *Essays in Toxicology*, and the forthcoming *Toxicology Annual*. The topic of this review is not of the same type, but rather another excellent publication in the series "Proceedings of the European Society for the Study of Drug Toxicity" (vol. XIV, 1973). The publication represents the proceedings of the 10th anniversary meeting of the Society.

The paper-covered book is divided into five sections: Pharmacology and Toxicology, Reproduction, Interrelation between Experimental Toxicology and Clinical Studies, Mutagenicity, and Toxicology and the Future of Drug Therapy. A welcome new section, Free Communications, includes 11 papers on original research in toxicology. All sections are in English except one short paper on a method for determining biological values.

It would be invidious to single out any chapter or paper for special mention. Since the review covers many areas of toxicology, the value to an individual will depend on his or her areas of interest. The introduction points out that toxicology has moved from classifying undesirable morphological, biochemical, and functional effects to include an understanding of the basic mechanisms involved in causing the observed effects. We can no longer simply count the number of dead animals and determine the LD₅₀ value. We must do more. The blood and tissue levels of the chemical and its metabolites under study should be determined. The application of kinetic principles to all toxicological investigations is most desirable. The book falls short of the suggestions in the introduction but does present many advances in technique and methodology. The review does represent the present "state of the art" for that branch of toxicology dealing with safety evaluations. There is copious intermixing of pharmacokinetics, behavioral pharmacology, clinical pharmacology, etc., with toxicology throughout the review.

Pharmacologists, toxicologists, and even clinical pharmacists would find this review very informative and useful.

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1974 Supplement to Evaluations of Drug Interactions.

Prepared by the Drug Interactions Project of the American Pharmaceutical Association with the assistance of the American Dental Association, the American Medical Association, the American Society of Hospital Pharmacists, the Food and Drug Administration, and the National Library of Medicine. Published by the American Pharmaceutical Association, 1974. iv + 66 pages, 14 × 23 cm. Price \$2.00.

Drug interactions have been recognized for some time as a concern by the health-care professions. Responding to this need, APhA initially published "Evaluations of Drug Interactions—1973" and has recently reaffirmed its commitment to provide all health-care practitioners with authoritatively evaluated drug interaction information with the publication of the 1974 Supplement.

The 70-page Supplement contains 28 additional drug-drug interactions presented in the same easy-to-use monograph format as utilized in EDI-1973. In addition, it includes a cumulative index to both EDI-1973 and the Supplement. It also has a removable insert which is an alphabetic listing of all monograph title drugs from

both volumes. These latter two features were designed to facilitate use by the practitioner.

The monographs included in the Supplement were subjected to the same critical review process developed for EDI-1973. Each monograph was reviewed by a specific subpanel composed of individuals with expertise in that particular category of drugs to determine the accuracy and thoroughness of the material and ultimately to arrive at a consensus. Similarly each monograph was submitted to one working group of the Practitioner Panel for a determination of the suitability of the material to professional practice. Selected ancillary reviewers and representatives of manufacturers and cooperating organizations also received the material.

The publication of these 28 new drug interaction monographs is a continuation of APhA's effort to bring clarity and order to the problems of modern drug therapy and to provide all health-care practitioners with authoritatively assessed and documented evaluations.

Staff Review

NOTICES

Advances in Sleep Research, Volume 1. Edited by E. D. WEITZMAN. Halsted Press, 605 Third Ave., New York, NY 10016, 1974. 424 pp. 16 × 24 cm. Price \$30.00

Acetylcholine: An Approach to the Molecular Mechanism of Action. By M. J. MICHELSON and E. V. ZEIMAL. Pergamon Press, Inc., Maxwell House, Fairview Park, Elmsford, NY 10523, 1974. 243 pp. 18 × 26 cm. Price \$25.50.

Law and Ethics of A. I. D. and Embryo Transfer. Ciba Foundation Symposium 17 (new series). Associated Scientific Publishers, P.O. Box 211, Amsterdam, The Netherlands, 1973. 110 pp. 17 × 25 cm.

Immunopotential. Ciba Foundation Symposium 18 (new series). Associated Scientific Publishers, P.O. Box 211, Amsterdam, The Netherlands, 1973. 355 pp. 17 × 25 cm.

Index of Reviews in Organic Chemistry, 1973 Supplement. Compiled by D. A. LEWIS. The Chemical Society, Burlington House, London, W1V 0BN, England, 1973. 81 pp. 21 × 30 cm. Price £ 1.00.

Inorganic Chemistry of the Transition Elements, Volume 2. Senior Reporter, B. F. G. JOHNSON. The Chemical Society, Burlington House, London, W1V 0BN, England, 1973. 501 pp. 14 × 22 cm. Price £ 9.50.

Opiate Addiction: Origins and Treatment. Edited by S. FISHER and A. M. FREEDMAN. Halsted Press, 605 Third Ave., New York, NY 10016, 1974. 247 pp. 16 × 24 cm. Price \$11.95.

Organic Chemistry Experiments to Accompany (Monson and Shelton) Fundamentals of Organic Chemistry. By R. C. BELLOLI. McGraw-Hill, 1221 Avenue of the Americas, New York, NY 10020, 1973. 92 pp. 16 × 22 cm. Price \$4.95.

Funktionelle Dermatologie. By G. STUTTGEN and H. SCHAEFER. Springer-Verlag, Heidelberger Platz 3, Berlin 33, Germany, 1974. 530 pp. 16.5 × 25 cm. (German).

Molecular Orbital Methods in Organic Chemistry—HMO and PMO, Volume 2. By W. B. SMITH. Dekker, 305 E. 45th St., New York, NY 10017, 1974. 161 pp. 16 × 24 cm. Price \$14.50.

Microprobe Analysis. Edited by C. A. ANDERSEN. Wiley, 605 Third Ave., New York, NY 10016, 1973. 571 pp. 16 × 23 cm. Price \$24.95.

NEW JOURNALS

Endocrine Research Communications, Volume 1, Number 1. Edited by J. KOWAL. Dekker, 305 E. 45th St., New York, NY 10017, 1974. 15 × 23 cm. Price \$35.00 (six issues); individual professionals and students, \$15.00.