

*Aids to Biochemistry.* By S. P. DATTA and H. H. OTTAWAY. Bailliere, Tindall and Cox, 7 & 8 Henrietta St., London, W. C. 2, 1962. Exclusive U. S. Agent: The Williams & Wilkins Co., 428 East Preston St., Baltimore 2, Md. viii + 327 pp. 10 × 16 cm. Price \$3.75.

As an aid to the preclinical medical student (the primary objective of this book), this reference on biochemistry should prove to be as handy as a pocket secretary. The general usefulness of the book, however, will not be limited to medical students. In one petit volume, the authors present somewhat detailed information in a concise manner which should make a handy reference for pharmacists and others who can benefit by a better understanding of biochemistry. Very little material on plant and microbiological chemistry and no literature references are included. However, the book assumes that a review of some details and principles is all that is needed and for more extensive requirements, standard reference works will be employed.

*Resistance of Bacteria to the Penicillins.* Edited by A. V. S. DE REUCK and MARGARET P. CAMERON. Little, Brown and Co., 34 Beacon St., Boston 6, Mass., 1962. viii + 125 pp. 18.5 × 12 cm. Price \$2.95.

This report of a one day conference of a Ciba Foundation study group presents a great deal of current information and a look at areas needing additional study in the realm of penicillin resistance. Five papers were reported: Penicillin-resistant penicillins and the problem of the penicillin-resistant staphylococci, Mode of action of the penicillins, Penicillinase, Different types of resistance to different penicillins, and Coagulase-positive staphylococci resistant to benzyl penicillin, methicillin, and other penicillins. Pharmaceutical scientists will find this report helpful in appraising the progress of work in this area and pharmacists in community or hospital practice will find this information helpful in performing their consultant and public health responsibilities.

*The Biochemical Bases of Psychoses.* By D. W. WOOLLEY. John Wiley & Sons, Inc., 440 Park Ave. South, New York 16, N. Y., 1962. xii + 331 pp. 15 × 22.5 cm. Price \$11.95.

In this book, the author proposes that schizophrenia, manic-depressive psychosis, and a variety of other severe mental disorders arise primarily from a disturbance in the production and function of serotonin. He states that related contributing causes for these diseases are disturbances in the hormones. Detailed experimental evidence is presented to support the hypothesis. Every person working with psychopharmacological drugs should examine the materials presented carefully. The remarkable Dr. Woolley is especially qualified in this area because of his long continued interest in and work with serotonin and LSD. His theories will undoubtedly have a substantial impact on scientific thought on the biochemistry of mental disorders.

*Transplantation.* Edited by G. E. W. WOLSTENHOLME and MARGARET P. CAMERON. Little, Brown and Co., 34 Beacon St., Boston 6, Mass., 1962. xii + 426 pp. 13.5 × 20 cm. Price \$12.

The Ciba Foundation has produced, in this volume, another important work in an area of timely interest to both scientist and layman alike. This conference report appears to be a supplement to the last transplantation conference held about eight years ago and serves to review and highlight the more important developments during the intervening period. Included in this report are papers on transplantation antigens, cheekpouch skin homografts in the Syrian hamster, transplantation tolerance and immunity in relation to age, homograft sensitivity in human beings, and role of the thymus in transplantation tolerance and immunity, among others. As with previous volumes, author and subject indexes are appended permitting rapid reference to items of particular interest.

*Introduction to Pharmacology.* By J. J. LEWIS. The Williams and Wilkins Co., 428 East Preston St., Baltimore 2, Md., 1963. xii + 926 pp. 14 × 21.5 cm. Price \$13.

While pharmacology texts generally must contain considerable information on site, mode and type of action, and chemical structure-action relationships, this aspect is especially emphasized here. The significance of chemical structure in relation to the pharmacological action provides a logical approach to the subject. For a detailed and comprehensive discussion of various aspects, standard reference sources will have to be consulted. However, this book will assist in those areas where great detail is not necessary or desirable. The second edition essentially updates the earlier edition published in 1960.

*Ion Exchange Separations in Analytical Chemistry.* By OLOF SAMUELSON. John Wiley & Sons, 440 Park Ave. South, New York 16, N. Y. 474 pp. 15 × 23 cm. Price \$9.50.

Under three main divisions, the fundamental properties of ion exchange resins along with principles and mechanisms of such separations, the techniques of general usefulness in ion-exchange chromatography, and applications of the process to separations in determinations of inorganic substances are presented. Methods of calculation for use in analytical work are also presented and discussed.

*Advances in Organic Chemistry: Methods and Results.* Vol. III. Edited by RALPH RAPHAEL, HANS WYNBERG, EDWARD TAYLOR. Interscience Publishers, 440 Park Ave. South, New York 16, N. Y. 333 pp. 15.5 × 23.5 cm. Price \$13.75.

Four contributors present a critical appraisal and evaluation of recent developments in the field of organic chemistry. Boissonnas, R. A., of Sandoz, Ltd., Basle, Switzerland, has contributed a section on selectively removable amino protective groups

used in the synthesis of peptides; Brown, D. M., of the University Chemical Laboratory, Cambridge, England,—phosphorylation; McOmie, J. F. W., of the University, Bristol, England,—protective groups; and Reed, R. I., of The University, Glasgow, Scotland,—mass spectrometry as a structural tool. An extensive bibliography follows each section. Author and subject indexes, as well as a cumulative index for volumes 1–3 are included.

*Methods of Biochemical Analysis.* Vol. XI. Edited by DAVID GLICK. Interscience Publishers, 440 Park Ave. South, New York 16, N. Y. ix + 442 pp. 15.5 × 23.5 cm. Price \$14.50.

Chemical, physical, microbiological, and animal assays, as well as basic techniques and instrumentation for biochemical determinations are presented. The entire volume deals with well-established methods or techniques which have undergone sufficient improvement to render recapitulation or re-appraisal beneficial and relatively new approaches which have shown promise of being potentially useful in biochemical analysis. The materials presented should be of particular value because the contributors of the various sections are either workers who have originated or have had intimate personal experience with the methods which they discuss. Additionally, experimental details are given in a manner which will furnish the laboratory worker with the complete information required to carry out the analyses discussed.

*Progress in Drug Research.* Vol. IV. Edited by ERNST JUCKER. Interscience Publishers, 440 Park Ave. South, New York 16, N. Y. 606 pp. 17 × 24.5 cm. Price \$30.

Subjects presented in this fourth volume of this survey series discussing the chemical, pharmacological, and clinical aspects of pharmaceutical research include recent developments in therapeutically useful organic sulfur compounds, drug latentiation, antihypertensive agents, structure-activity relationships of local anesthetics, and molecular geometry and mechanism of action of chemical carcinogens. The subjects are presented in the language of the contributor, either English or German. The subject index, also in the language of the respective contributions, includes trade names as well as chemical and trivial names—an excellent feature of the work.

*A Survey of Drugs.* By HAKIM ABDUL WAHID and H. H. SIDDIQUI. Institute of the History of Medicine and Medical Research, Hamdard Buildings, Delhi 6, India. xv + 168 pp. 16 × 24 cm. Price \$1.

A systematic classification of information on indigenous drugs of India and the surrounding regions is presented to bring together available information of the drugs used in Indian systems of medicine which may be of interest to pharmaceutical investigators. The classification is effected through different lists, 19 in all. The lists classifying the indigenous drugs added by Unani physicians to their materia medica, vegetable drugs used exclusively in Unani medicine and the comparable information for Ayurvedic medicine, and drugs according to their uses and action in Unani medicine may be of particular interest. A brief textual section covers the back-

ground of the different systems of medicine of the area and helps the reader orient himself when considering the various classifications established.

*First International Pharmacological Meeting.* Vol. VI. General Editor: BORJE UVNASS. The Macmillan Company, 60 Fifth Ave., New York 11, N. Y. xiii + 330 pp. 16 × 24 cm. Price \$15.

A symposium covering biochemistry and pharmacology is reported. The list of 41 author-participants from this and other countries is composed of eminently qualified scientists. The first part is devoted to enzymes that metabolize drugs—excluding, however, antitumor drugs. The second part of the program concerns factors that influence the amount of drug available to the enzymes and factors which change their activity. Specific topics presented include: detoxication mechanisms *in vivo*, demethylation and methylation of drugs and physiologically active compounds, desulfuration, urinary excretion of drugs, duration of action of drugs as affected by tissue distribution, and species differences and individual variations in drug metabolism.

*First International Pharmacological Meeting.* Vol. VIII. Edited by W. D. M. PATON. The Macmillan Company, 60 Fifth Ave. New York 11, N. Y. xvi + 330 pp. 15.5 × 23 cm. Price \$15.

A symposium designed to concentrate on the mechanism of action and analytical aspects of drugs active on the central nervous system and various approaches to central nervous system pharmacology is reported. Thirty-one papers fitting within the format described above were selected for publication and these include: inhibitory factors in the brain; central amines and behavioral states: a critique and new data; unusual central depressant properties of a new piperidine compound; drug-induced changes in behavior; and controlled environment: a method of measuring the drug response-behavior in humans.

*Encyclopedia of Chemical Technology.* Vol. 1. Edited by ANTHONY STANDEN. John Wiley & Sons, Inc., 440 Park Ave. South, New York 16, N. Y. xvi + 990 pp. 19 × 27 cm. Price \$45.

The first volume of the second edition promises to be as useful a resource and reference work as the first edition. The aim of this thorough revision, volume by volume, is to provide a comprehensive summary of knowledge on the industrial methods, materials, processes, and equipment of chemical technology. The second edition will be broadened in scope to include information from abroad as well as the United States. The encyclopedia will contain articles on pharmaceuticals and cosmetics. About one-half of the articles deal with single or compound chemical substance.

*Infrared Absorption Spectroscopy, Practical.* By KOJI NAKANISHI. Holden-Day, Inc., 728 Montgomery St., San Francisco 11, Calif. ix + 233 pp. 18 × 26 cm. Price \$8.

Actual infrared curves are presented to acquaint the reader with the range of absorption of the various characteristic absorption bands. Factors which influence band positions and intensities are discussed. The work is a translation of a Japanese book first published in 1960.