

structural characteristics of enzymes; and Sir Arnold Burgen along with N. J. M. Birdsall and E. C. Hume introduce the reader to modern techniques which provide a better understanding of receptors.

In the foreword J. F. Cavalla and M. A. Simkin offer an interesting proposal about what it takes for a medicinal chemist to become successful. They propose that the medicinal chemist must associate himself/herself with a biologist, and for further success, must acquire a working knowledge of basic pharmacology in the area in which he/she is working, coupled with a detailed awareness of structure-activity relationships; then, they say, the medicinal chemist should succeed in discovering new and better medicines. This reviewer finds himself in agreement with their offer, except that I would propose the use of the adjective "molecular" before biologist (and pharmacologist) to describe the needs of medicinal chemists today. Much more knowledge at the molecular level is needed, and it is a pleasure to find the theoretical papers of this volume fulfilling this need.

Overall, the volume is quite good and makes a worthwhile contribution to medicinal chemistry and allied fields. The authors are experts in their field and their papers are well-written, containing sufficient references. The organization of this book is not unlike most proceedings of meetings and symposia in which there is the absence of major sections and chapter numbers.

The greatest use of this volume will be by graduate students and researchers in the areas for which this volume was intended: medicinal chemistry, pharmacology (pharmacokinetics), and medicine. It also can be recommended as an important source for new ideas and for use in many graduate courses.

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Textbook of Adverse Drug Reactions. 2nd ed. Edited by D. M. DAVIES. Oxford University Press. 200 Madison Ave., New York, NY 10016. 1981. 693 pp. 18 × 25 cm. Price \$67.50.

This second edition is an expansion of the first that originally filled the void that had existed for an authoritative reference source for all major and minor adverse drug reactions. It is the work of 36 contributors authoring 30 chapters and 4 appendixes. The newest chapter discusses disorders of temperature regulation brought upon by disease, hypersensitivity, and drugs. The remaining chapters have been slightly rewritten with the addition of material and updated references.

This reference text makes it clear that perhaps 10% of patients suffer from physicians' efforts to treat them and that iatrogenic diseases and side-effects are certain consequences to drug therapy. Therefore, the public should be made aware that risk in any treatment is always there, and particularly so when new drugs and regimens come along that have not been used extensively in large numbers of patients. In addition, the problem of risk *versus* benefit is compounded when there is excessive or even irresponsible prescribing.

Most chapters use a classification of adverse drug reactions that divides them into two types. The first, Type A, are augmented effects but predictable on their known pharmacologic action and affect many people but cause few deaths. The second, Type B, are bizarre effects, not predictable from their known pharmacologic action when administered in regular doses to patients with average metabolic processes. These types of adverse drug reactions have a low incidence but, when they occur, often are lethal. It is also pointed out that some adverse drug reactions must be tolerated, because for a drug to work, it always shows toxicity at some dosage level. So, some reactions to medications are a necessary cross to bear in order to remedy the myriad of maladies that affect mankind.

This edition maintains the clarity of the earlier edition. Its first appendix lists the drugs alphabetically with the most outstanding possible untoward effects and includes the pages on which they are discussed. This makes it a quick reference source without having to resort to the index, which often leads to delay.

This book is recommended for individuals requiring the most up-to-date information on adverse drug reactions. Specifically, hospital phar-

macists; clinical pharmacologists; internists; medical clinics; and all pharmacy, medical, and dental libraries.

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Tableting Specifications Manual. American Pharmaceutical Association, Washington, DC 20037. 1981. 39 pp. 20 × 28 cm (three-holed punch, loose-leaf format). Price \$42.00 (\$28.00 for APhA members).

This extensively updated and revised version of the original (1971) book, *IPT Standard Specifications for Tableting Tools*, contains the latest information available on tablet tooling and available equipment. *The Tableting Specifications Manual* is a new book prepared by the Industrial Pharmaceutical Technology Section of the American Pharmaceutical Association's Academy of Pharmaceutical Sciences with the cooperation of tableting tool suppliers.

The manual supplies the standards needed by both drug manufacturers and tool suppliers: Drug manufacturers will find the publication useful in preventing premature tool wear and costly work stoppages, while improving tablet quality and production rate. Pharmaceutical tool suppliers will benefit from the reduced lead times and manufacturing costs possible and the smaller inventory that standardization allows.

The manual also includes: a set of dimensional specifications and tolerances for rotary tableting machines in both graphic and tabular forms; a tool interchangeability chart with the five most commonly used tablet machines in the United States; a list of tool manufacturers and suppliers; and additional information on the bisection bar.

With numerous tables and IPT drawings and a loose-leaf, shrink-wrapped format for greater convenience and ease of updating, this manual will be a useful resource for those needing the most up-to-date information on tableting.

Staff Review

NOTICES

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