

activity against fungi, neoplastic cells, and bacteria by a single compound is of special interest because of the danger of fatal fungal infections in cancer patients (4-6).

(1) Brown, R., in "Experimental Chemotherapy," vol. III, Schnitzer, R. J., and Hawking, F., eds., Academic Press Inc., New York, N. Y., 1964, pp. 417-459.

(2) Curtis, A. C., and Bocobo, F. C., *Postgrad. Med.*, **37**, 10(1965).

(3) Procknow, J. J., *Lab. Invest.*, **11**, 1217(1962).

(4) Hutter, R. V. P., and Collins, H. S., *ibid.*, **11**, 1035(1962).

(5) Carbone, P. P., Sabesin, S. M., Sidransky, H., and Frei, E., III, *Ann. Internal Med.*, **60**, 556(1964).

(6) Gruhn, J. G., and Sanson, J., *Cancer*, **16**, 61(1963).

(7) Sidransky, H., and Pearl, M. A., *Diseases Chest*, **39**, 630(1961).

(8) Torack, R. M., *Am. J. Med.*, **22**, 872(1957).

(9) Shealy, Y. F., Montgomery, J. A., and Laster, W. R., Jr., *Biochem. Pharmacol.*, **11**, 674(1962).

(10) Shealy, Y. F., and Krauth, C. A., *Nature*, **210**, 208(1966).

(11) Pittillo, R. F., Moncrief, C., Brockman, R. W., and Chambers, P., in "Antimicrobial Agents and Chemotherapy, 1964," Sylvester, J. C., ed., American Society for Microbiology, Ann Arbor, Mich., 1964, pp. 474-484.

(12) Hunt, D. E., and Pittillo, R. F., *ibid.*, Hobby, G., ed., 1965, pp. 710-716.

(13) Shealy, Y. F., Clayton, J. D., Dixon, G. J., Dulmage, E. A., Pittillo, R. F., and Hunt, D. E., *Biochem. Pharmacol.*, **15**, 1610(1966).

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Books

REVIEWS

Principles of Regulatory Drug Analysis. By DANIEL BANES. Association of Official Analytical Chemists, P.O. Box 540, Benjamin Franklin Station, Washington, D. C. 20044, 1966. vi + 157 pp. 15.5 × 23.5 cm. Price \$5.00 domestic, \$5.25 foreign.

This book was written especially to point out the importance of chemical analysis in the effective enforcement of drug laws, regulations, and standards. The first chapter discusses the purpose of modern drug laws and the chemical evidence necessary to enforce them. The role of the U.S.P. and N.F. in establishing drug standards is also included. The remaining chapters are devoted to methods used in regulatory drug analysis using specific groups of drugs. The majority of the tests and assay procedures included are those appearing in the pertinent N.F. or U.S.P. or are those used by the FDA. Some discussion of methods which appear in "Official Methods of Analysis" of the A.O.A.C. is also given. The chemical principles upon which a particular

test or assay is based are considered. Following each chapter, the author has included questions especially thought-provoking for students. The drug categories included are nonaddicting analgesics and antipyretics, barbiturates and related amides, sympathomimetics, antihistamines, estrogens, sulfonamides, and antibiotics.

Chemical Data Book. 2nd ed. Edited by G. H. AYLWARD and T. J. V. FINDLAY. John Wiley & Sons, Pty. Ltd., Sydney, Australia, 1966. viii + 88 pp. 15 × 24.5 cm. Paperbound. Price \$2.95.

This small handbook serves as a source of data covering most of the chemical systems encountered by senior high school and first year college students. Included are properties of elements, inorganic, and organic compounds, some crystal forms, thermochemical data, and small tables of various constants and properties using only a few selected compounds.

NOTICES

Essentials of Biological Chemistry. 2nd Ed. By J. L. FAIRLEY and G. L. KILGOUR. Reinhold Publishing Corp., 430 Park Ave., New York, N. Y. 10022, 1966. xvii + 314 pp. 15.5 × 23.5 cm. Price \$9.

Chemical Kinetics in Homogeneous Systems. By M. RITCHIE. John Wiley & Sons, Inc., 605 Third Ave., New York, N. Y. 10016, 1966. viii + 115 pp. 14 × 21.5 cm. Price \$2.95. Paperbound.

Biochemistry: An Introduction to Dynamic Biology. By ERNEST R. M. KAY. The Macmillan Co., 866 Third Ave., New York, N. Y. 10022, 1966. ix + 374 pp. 16 × 24 cm. Price \$7.95.

Outlines of Biochemistry. 2nd Ed. By ERIC E. CONN and P. K. STUMPF. John Wiley & Sons, Inc., 605 Third Ave., New York, N. Y. 10016, 1966. x + 468 pp. 15.5 × 23.5 cm. Price \$9.50.