cap is the scarcity of material in this field. Milk and egg proteins are ably summarized in well-documented chapters by T. L. McMeekin and R. C. Warner, respectively. The success of physical and chemical methods in the study of the soluble proteins is to be contrasted with the failure when applied to the poorly soluble, heterogeneous, and dissociable seed proteins, as described by S. Brohult and E. Sandegren. The chapter on proteins and protein metabolism in plants is a somewhat unavailing but commendable attempt to apply modern knowledge of nitrogen metabolism to the less understood features of the metabolism of nonseed proteins.

The volume concludes with a lucid and timely evaluation of the changing viewpoint on protein hormones by C. H. Li. The subject and author index will appear in the second part of the volume, but the text contains almost 3000 complete references, some as recent as late 1953.

The prime virtue of this invaluable series, which will appeal to the expert and the beginner in proteins alike, is that it presents a unified, critical, authoritatative, and up-to-date treatment of the whole subject in historical perspective with all desirable detail.

FRANK W. PUTNAM

Department of Biochemistry, University of Chicago

Principles of Biochemistry. A biological approach. M. V. Tracey. Pitman, New York-London, 1954. ix + 194 pp. Illus. \$4.

This book introduces the reader to cellular biochemistry with a discussion of the large polymers that occur in all cells. It discusses thoroughly the biological approach to cellular reactions such as energy storage, presents the fundamental concepts of many biochemical reactions in cells of both plants and animals, and describes many known analogous cellular reactions in bacteriology. The reader is introduced to such subjects as growth, differentiation, and reproduction, but the material does not emphasize the biochemical aspects.

A thorough discussion of food supply to the organism is given in a chapter on "Specialization in relation to environment." A unique discussion of the different biochemical pigments is presented in Chapter 7. The biological aspects of transport and waste products of cellular reactions are discussed in two chapters. The last three chapters are concerned with energy metabolism. The biological approach is divided into phototrophes, chemotrophes, nectrotrophes, and biotrophes.

The subject matter in this small book is so broad that certain topics are only briefly mentioned. The book lacks references for the reader who is interested in learning more about particular items. It is to be recommended for students in advanced biochemistry. The author is to be complimented for his diligent choice of topics.

W. E. CORNATZER

Department of Biochemistry, University of North Dakota School of Medicine

10 September 1954

## Miscellaneous Publications

- Hearings on S. 3323 and H.R. 8862, to Amend the Atomic Energy Act of 1946, pt. 1, held 10-19 May 1954, 560 pp.; pt. 2, held 2-18 June 1954, 597 pp. Joint Committee on Atomic Energy, Washington 25, 1954.
- Directory of International Scientific Organizations. UNESCO, Paris, ed. 2, 1953 (Order from Columbia Univ. Press, New York 27). 312 pp. \$2.50.
- Statistics of Special Education for Exceptional Children, 1952-53. Biennial survey of education in the U.S.— 1952-54. Chapter 5. Mabel C. Rice and Arthur S. Hill. Office of Education, Dept. of Health, Education, and Welfare, Washington 25, 1954 (Order from Supt. of Documents, GPO, Washington 25). 78 pp. 30¢.
- Statement before the Special Committee to Investigate Tax Exempt Foundations, House of Representatives— 83rd Congress. Rockefeller Foundation and General Education Bd., New York, 1954. 72 pp.
- The Training Job and How to Meet It. International Correspondence Schools, Scranton 9, Pa., 1954. 24 pp. Illus. Gratis.
- Rheological Properties of Certain Joint-sealing Compounds for Concrete Canal Linings. Div. of Building Research Tech. Paper No. 2. E. R. Ballantyne. Commonwealth Scientific and Industrial Research Organization, Melbourne, 1954. 28 pp. Illus.
- Instrumentation. Patent Abstracts, No. 1. Prepared by Government Patents Bd. Office of Technical Services, U.S. Dept. of Commerce, Washington 25, 1954. 65 pp. \$2.
- Production of High-Btu Oil Gases from Crude Shale Oils. Interim rpt. E. B. Shultz, Jr., J. J. Guyer, and H. R. Linden. Inst. of Gas Technology, Chicago 16, 1945. 24 pp. Illus. \$2.50.
- Fossil Pit-Vipers (Reptilia: Crotalidae) of North America. Transactions, vol. 12, No. 3. Bayard H. Brattstrom. San Diego Soc. of Natural History, San Diego, Calif., 1954. 15 pp. Illus.
- Taxonomy, Phases, and Distribution of Chortoicetes and Austroicetes. K. H. L. Key. Div. of Entomology, Commonwealth Scientific and Industrial Research Organization, Canberra, Australia, 1954. 237 pp. Illus.
- Drainage of the Cache Valley Lowlands. Bull. 368. Willard Gardner and Orson W. Israelsen. Agr. Expt. Sta., Utah State Agr. College, Logan, 1954. 13 pp. Illus.
- Ottica Industriale. Domenico Argentieri. Ulrico Hoepli, Milan, Italy, ed. 2, 1954. 466 pp. Illus. L. 3000.
- Preservation of Wood by Simple Methods. Bull. 581. Henry W. Hicock and A. Richard Olson. Connecticut Agr. Expt. Sta., New Haven, 1954. 66 pp.
- Investigation of Microbarometric Oscillations in Eastern Massachusetts. Geophysical Research Paper No. 27. E. A. Flauraud et al. Air Force Cambridge Research Center, Cambridge, Mass., 1954 (Order from Office of Tech. Services, U.S. Dept. of Commerce, Washington 25). 62 pp. Illus.
- Information. A list of scientific articles, April–June 1954. Quarterly, No. 6. Taylor & Francis, London, E.C.4, 1954. 24 pp. Gratis.
- Bibliography of Interlingual Scientific and Technical Dictionaries (In English, French, and Spanish). UNESCO, Paris (Order from Columbia Univ. Press, New York 27). 178 pp. \$1.75.
- Renascence or Decline of Central Europe. The Sudeten German-Czech problem. Wilhelm K. Turnwald. Wolf & Sohn, Univ. Press, Munich, 1954. 89 pp. Illus.