Dictionary of Biology

English - German - French - Spanish

by Günther Haensch and Gisela Haberkamp De Anton Elsevier Scientific Publishing Company; Amsterdam, Oxford, New York, 1976 xii + 483 pages. Dfl. 160.00, \$ 61.50

This is a translating not a defining dictionary. It lists 9795 words in English, these are arranged alphabetically and numbered serially. Beside these, on the same openings, the German, French, and Spanish equivalents are shown, together with their genders (an attribute that does not intrude in English). Alphabetical indexes (wrongly 'indices' in the Introduction) in German, French, and Spanish give the serial number of each word, so it can be found easily in the main part of the work.

The Preface says that completeness could not be the aim but that care was taken by the compilers 'to obtain as proportionate a selection of terms as possible from all areas of biology. The limited choice of words in certain subjects such as anatomy and systematics was quite intentional.' To test completeness the reviewer chose the first word on every sixth page of *Dictionary of Biology*, 6th edition, by M. Abercrombie, C. J. Hickman and M. L. Johnson, Penguin Books, London, 1973 and looked them up in the book under review. Of 57 terms, 12 (21%) were not to be found — abaxial, amphioxus, coccidiosis, cycadofilicales, epizoite, homochlamydeous, immunogenic meconium, mycoplasma (surprisingly), plectop-

tera, receptaculum seminis and Wallerian degeneration. Not bad.

As this journal is devoted to Biochemistry, 60 'more biochemical' terms were checked. Of these only 36 (60%) were found. The absentees were: aldose (though 'ketose' is in), Bence-Jones protein, calcitonin, EDTA (nor under several other names), facilitated diffusion, ground state, hyperglycaemia, idiom, ketonuria, labelled compound, ligand, misreading, nearest neighbour, nonsense codon, oligomer, paratope (though 'paratype' occurs), quenching, registration peptide, schlieren, specific activity, template, ureotelic, virion (though 'virus' is there) and xenobiotic. Thus 'molecular' Biology has been selected against.

Despite these limitations — which dictionary has not got them? — this will be a most useful work, particularly now that such a large proportion of scientific literature is in English, or what passes for English. The printing is clear and the alignment across the openings good, even for the astigmatic (a word that does not appear!). The price, however, is rather steep at 12.42 US & per page.

S. P. Datta

BOOK LIST No. 6 February 1977

Banks, P., Bartley, W. and Birt, L. M. The biochemistry of the tissues. 2nd edition. John Wiley and Sons; Chichester, 1976. xv + 493 pp. Cloth: £ 14.50; \$ 30.00. Paper: £ 6.25; \$ 13.50.

Baserga, Renato. Multiplication and division in mammalian cells. Dekker; New York and Basel, 1976. xii + 239 pp. SF. 78. Reviewed in: Nature, 21.10.76, 263, 709 by Robert Shields.

van Bekkum, D. W. (ed.). The biological activity of thymic hormones. John Wiley and Sons; Chichester, 1975. 271 pp. £ 14.00. Reviewed in: Immunology, Sept. 1976, 31, 505 by D. M. V. Parrott.

Biggs, R. (ed.). Human blood coagulation, haemostasis and thrombosis. 2nd edition. Blackwell Scientific Publications; Oxford, 1976. xxviii + 769 pp. £ 15. Reviewed in: Brit. J. Haematol., 1976, 34, 156.

Birky, C. William, Jr., Perlman, Philip S. and Byers, Thomas, J. (eds). Genetics and biogenesis of mitochondria and chloroplasts. Papers from a colloquium, Columbus, Ohio, Sept. 1974. Ohio State University Press; Columbus, 1976. x + 362 pp. \$ 15.00. Reviewed in: Science, 4.6.76, 192, 995 by Jean L. Forster, Nicholas Gillham and Elizabeth H. Harris.

Blaschko, H. K. F. (ed.). MTP international review of science. Biochemistry Series One — Vol. 12: Physiological and pharmacological biochemistry. Butterworths; London: University Park Press; Baltimore, 1975. ii + 276 pp. £ 10.45. Reviewed in: FEBS Letters, August 1976, 67, 230 by A. J. Turner.

Blundell, T. L. and Johnson, L. N. Protein crystallography. Academic Press; London, New York, San Francisco, 1976. xiv + 565 pp. £ 17.00.

Bodmer, W. F. and Cavalli-Sforza, L. L. (eds). Genetics, evolution and man. Freeman; San Francisco, 1976. xv + 782 pp. \$ 13.95. Reviewed in: Nature, 16.9.76, 263, 261 by William Schull.

Boyce, A. J. (ed.). Chromosome variations in human evolution. Vol. XIV of the Symposia of the Society for the Study of Human Biology. Taylor and Francis Ltd, London, 1975. vii + 131 pp. £ 5.00. Reviewed in: J. Med. Genet., 1976, 13, 413 by C. E. Blank.

Boyer, Paul D. (ed.). The enzymes, Vol. 13. 3rd edition. Oxidation—reduction, Part C: Dehydrogenases (II), Oxidases (II), Hydrogen peroxide cleavage. Academic Press; New York, 1976. 542 pp. \$ 46.50; £ 28.35.

Brown, D. H., Hawksworth, D. L. and Bailey, R. H. (eds). Lichenology: progress and problems. The Systematics Association special volume No. 8. Proceedings of a symposium, Bristol, April 1974. Academic Press; London, 1976. 551 pp. \$47.25; £19.00.

Burnstock, G. and Costa, M. Adrenergic neurons; their organization, function and development in the peripheral nervous system. Chapman and Hall; London, 1975. 258 pp. £ 8.50.

Burton, K. (ed.). MTP international review of science. Biochemistry Series One — Vol. 6. Biochemistry of nucleic acids. Butterworths; London: University Park Press; Baltimore, 1974. iii + 364 pp. £ 10.45. Reviewed in: FEBS Letters, August 1976, 67, 224 by J. H. Parish.

Carlile, M. J. (ed.). Primitive sensory and communication systems; The taxes and tropisms of micro-organisms and cells. Academic Press; London, New York and San Francisco, 1976. vii + 258 pp. £ 8.50; \$ 21.00. Reviewed in: Nature, 19.8.76, 262, 729 by J. T. Bonner.

Chapman, Dennis and Wallach, Donald F. H. (eds). Biological membranes, Vol. 3. Academic Press; London and New York, 1976. x + 362 pp. £ 11.00; \$ 27.75. Reviewed in: Nature, 23.9.76, 263, 365 by J. B. Finean.

Cooper, J. P. (ed.). Photosynthesis and productivity in different environments. Papers from a meeting, Aberystwyth, Wales, 1973. Cambridge University Press; New York, 1975. xxiv + 716 pp. \$ 65. Reviewed in: Science, 20.8.76, 193, 670 by Dale N. Moss.

Davson, Hugh (ed.). The eye, Volume 2A; 2nd edition. Visual function in man. Academic Press; New York, 1976. 616 pp. \$40.50; £25.60.

Dodd, Barbara E. and Lincoln, Patrick J. Blood group topics. (Current topics in immunology, No. 3). Arnold; London, 1975. 141 pp. £ 5.45 paper. Reviewed in: Brit. Med. Bull., 1976, 32, 291 by S. M. Worlledge.

Dörner, G. Hormones and brain differentiation. Elsevier/ North-Holland; Amsterdam, 1976. 280 pp. \$ 36.50; Dfl. 95.00.

Eleftheriou, Basil E. and Sprott, Richard L. (eds). Hormonal correlates of behavior. Plenum Press; New York, 1975. 2 vols. Vol. 1, A lifespan view. xviii + 440 pp. \$ 29.50: Vol. 2, An organismic view, xviii + 366 pp. \$ 29.50. The set \$ 55. Reviewed in: Science, 3.9.76, 193, 881 by Darcy B. Kelley.

Fox, C. F. (ed.). MTP international reviews of science. Biochemistry Series One — Vol. 2. Biochemistry of cell walls and membranes. Butterworths: London: university Park Press; Baltimore, 1975. ii + 316 pp. £ 10.45. Reviewed in: FEBS Letters, August 1976, 67, 218 by J. B. C. Findlay.

Fraenkel-Conrat, H. and Wagner, R. R. (eds). Comprehensive virology, Vol. 5: Structure and assembly (Virions, pseudovirions and intraviral nucleic acids). Plenum Press; New York and London, 1975. 226 pp. \$ 27.00. Reviewed in: Acta Virologia, Aug. 1976, 20, 350 by G. Russ.

Freifelder, David. Physical biochemistry: applications to biochemistry and molecular biology. W. H. Freeman; Reading, 1976. 570 pp. £ 12.40 hardcover; £ 8.00 softcover.

Gel'man, N. S., Lukoyanova, M. A. and Ostrovskii, D. N. Biomembranes (Vol. 6): Bacterial membranes and the respiratory chain. Plenum Press; New York, 1976. 261 pp. \$ 30.00. Reviewed in: Biochem. Soc. Trans., 1976, 4, 839 by Colin W. Jones.

Geraldes, A. (ed.). Effects of interferon on cells, viruses and the immune system. Proceedings of a meeting, Oeiras, Portugal, Sept. 1973. Academic Press; New York, 1975. xxiv, 662 pp. \$ 31.75; £ 12.00. Reviewed in: Science, 18.6.76, 192, 1225 by George E. Gifford. and in: J. Med. Microbiol., Aug. 1976, 9, 367 by R. B. Heath.

Gold, Edwin R. and Balding, Peter. Receptor-specific proteins. Excerpta Medica; Amsterdam: American Elsevier; New York, 1975. xiii + 440 pp. Dfl. 125; \$ 51.95. Reviewed in: Nature, 1.7.76, 262, 81 by Irwin J. Goldstein. and in: Science, 13.8.76, 193, 569 by R. D. Poretz.

Goodwin, T. W. (ed.). Chemistry and biochemistry of plant pigments. Vol. 2. 2nd edition. Academic Press; London, 1976. 373 pp. \$ 29.75; £ 12.00.

Goodwin, T. W. (ed.). MTP international review of science. Biochemistry Series One — Vol. 4: Biochemistry of lipids. Butterworths; London: University Park Press; Baltimore, 1974. iii + 294 pp. £ 10.45. Reviewed in: FEBS Letters, August 1976, 67, 222 by D. S. Robinson.

Grisolia, S., Mayor, F. and Baguena, R. (eds). The urea cycle. Wiley Interscience; New York, 1976. 602 pp. £ 22.00; \$ 37.50.

Gunning, Brian E. S. and Steer, Martin W. Plant cell biology: an ultrastructural approach. Arnold; London, 1975. 280 pp. £ 2.75 paper. Reviewed in: Nature, 26.8.76, 262, 825 by Harry Smith.

Gunning, Brian E. S. and Steer, Martin W. Ultrastructure and the biology of plant cells. Arnold; London, 1975. 312 pp. £ 27.50. Reviewed in: Nature, 26.8.76, 262, 825 by Harry Smith

Gutfreund, H. (ed.). MTP international review of science. Biochemistry Series One – Vol. 1: Chemistry of macromolecules. Butterworths; London: University Park Press; Baltimore, 1974. ii + 411 pp. £ 10.45. Reviewed in: FEBS Letters, August 1976, 67, 218 by S. B. Brown.

Hanson, Richard W. and Mehlman, Myron A. (eds). Gluconeogenesis: its regulation in mammalian species. John Wiley and Sons; Chichester, 1976. xxvi + 592 pp. £ 19.65; \$ 36.40. Reviewed in: Nature, 21.10.76, 263, 710 by K. L. Manchester.

Harrison, R. and Lunt, G. Biological membranes: their structure and function. Blackie and Son; Glasgow, 1976. 253 pp. £ 7.80 (hardback); £ 3.80 (paperback). Reviewed in: Biochem. Soc. Trans., 1976, 4, 838 by Roger Coleman.

Higgins, I. J. and Burns, R. G. The chemistry and microbiology of pollution. Academic Press; London, New York, San Francisco, 1975. 248 pp. £ 6.80. Reviewed in: Biochem. Soc. Trans., 1976, 4, 840 by H. J. Somerville.

Holtzman, E. Lysosomes: a survey. (Cell biology monographs). Springer; Wien and New York, 1976. xi + 298 pp. DM 130. Reviewed in: Nature, 1.7.76, 262, 80 by A. C. Allison.

Iversen, Susan D. and Iversen, Leslie L. Behavioural pharmacology. Oxford University Press; New York and London, 1975. xiv + 310 pp. £ 2.75: paper; £ 5.50: boards. Reviewed in: Nature, 12.8.76, 262, 632 by Steven Matthysse. James, V. H. T., Serio, M. and Guisti, G. (eds). The endocrine function of the human ovary. Academic Press; London, 1976. ix + 519 pp. £ 11.50.

Jansky, L. and Musacchia, X. J. (eds). Regulation of depressed metabolism and thermogenesis. Charles C. Thomas; Springfield, Ill., 1976. 304 pp. \$ 23.75.

Kersten, H. and Kersten, W. Inhibitors of nucleic acid synthesis. Biophysical and biochemical aspects. Springer Verlag; Berlin-Heidelberg-New York, 1974. 184 pp. DM 68.; \$ 27.80. Reviewed in: Acta Virologica, 1976, 20, 90 by J. Žemla.

Kief, H. (ed.). Iron metabolism and its disorders. Excerpta Medica; Amsterdam-Oxford: American Elsevier; New York, 1975. x + 344 pp. \$ 31.95; Dfl. 80.00. Reviewed in: Brit. J. Haematol., Oct. 1976, 34, 345.

Last, Jerold (ed.). Eukaryotes at the subcellular level: development and differentiation. (Methods in molecular biology). Dekker: New York and Basel, 1976. x + 460 pp. \$ 32.50. Reviewed in: Nature, 29.7.76, 262, 426 by H. J. Gould.

Levy, G. C. (ed.). Topics in Carbon 13 NMR spectroscopy, Vol. 2. John Wiley and Sons; Chichester, 1976. 500 pp. £ 18.00; \$ 30.55.

Lewin, Sherry. Vitamin C: its molecular biology and medical potential. Academic Press; London, New York, San Francisco, 1976. xiii + 231 pp. £ 7.80.

Littlefield, John W. Variation, senescence and neoplasia in cultured somatic cells. (A Commonwealth Fund Book). Harvard University Press; Cambridge, Mass. and London, 1976. xi + 163 pp. £ 6.15. Reviewed in: Nature, 14.10.76, 263, 620 by Henry Harris.

McDonald, K. D. (ed.). Second international symposium on the genetics of industrial micro-organisms. Academic Press; London, 1976. 636 pp. £ 20.00. Reviewed in: Biochem. Soc. Trans., 1976, 4, 839 by D. E. F. Harrison.

McIlwain, Henry (ed.). Practical neurochemistry; 2nd edition Churchill/Livingstone; Edinburgh, 1975. 337 pp. £ 6.50. Reviewed in: Biochem. Soc. Trans., 1976, 4, 841 by H. F. Bradford.

Macomber, James D. The dynamics of spectroscopic transitions: illustrated by magnetic resonance and laser effects. (Wiley-Intersciences monographs in Chemistry and Physics). Wiley-Interscience; New York and London, 1976. xxiv + 332 pp. \$ 23;£ 11.50. Reviewed in: Nature, 19.8.76, 262, 729 by R. E. Richards.

Malkinson, A. M. Outline studies in biology: Hormone action. Chapman and Hall; London, 1975. 64 pp. £ 1.30. Reviewed in: Biochem. Soc. Trans., 1976, 4, 837 by W. Tampion.

Maramorosch, Karl (ed.). Invertebrate tissue culture: research applications. Proceedings of a U.S.—Japan seminar held in Tokyo, December, 1974. Academic Press; New York and London, 1976. 400 pp. \$ 34.50; £ 19.00.

Marks, V. and Hales, C. N. (eds.). Essays in medical biochemistry, Vol. 1. The Biochemical Society and The Association of Clinical Biochemists; London, 1975. 131 pp. \$ 5.00 Softbound; £ 2.00.

Matile, Ph. The lytic compartment of plant cells. (Cell Biology Monographs, Vol. 1.) Springer-Verlag; New York, 1975. xiv + 184 pp. \$ 38.30. Reviewed in: Science, 23.7.76, 193, 312 by Hans Kende.

Meister, A. (ed.). Advances in enzymology, Vol. 43. John Wiley and Sons; New York, 1975. 627 pp. \$ 29.50. Reviewed in: J. Histochem. Cytochem., June 1976, 24, 757 by William H. Fishman.

Narahashi, Toshio (ed.). Cellular pharmacology of excitable tissues. Thomas; Springfield, Ill., 1975. x + 538 pp. \$ 35.50. Reviewed in: Science, 10.9.76, 193, 994 by Bert I. Shapiro.

Nelson, David S. (ed.). Immunobiology of the macrophage. Academic Press; New York, 1976. 633 pp. \$ 39.00; £ 21.45.

Neurath, Hans and Hill, Robert L. (eds). The proteins: Vol. 1. 3rd edition. Academic Press; New York and London, 1975. xii + 497 pp. \$ 41.00; £ 19.70. Reviewed in: Nature, 11.3.76, 260, 177 by G. A. Gilbert.

Neurath, Hans, Hill, Robert L. and Carol-Leigh, Boeder (eds). The proteins: Vol. 2. 3rd edition. Academic Press; New York and London, 1976. 592 pp. \$ 44.50; £ 25.80.

Niu, M. C. and Segal, S. J. (eds). The role of RNA in reproduction and development. American Elsevier; New York; North-Holland, Amsterdam, 1974. 357 pp. \$ 17.75. Reviewed in: Ann. Hum. Genet., 1975, 39, 261 by Michael H. L. Snow.

Nomura, M., Tissières, A. and Lengyel, P. (eds). Ribosomes. Papers from a meeting, Cold Spring Harbor, NY, 1973. Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, 1974. xii + 930 pp. \$ 32.00. Reviewed in: Science 16.5.75, p. 723 by Stephen R. Fahnestock and in: Nature, 1975, 257, 73 by R. A. Cox.

Northcote, D. H. (ed.). MTP international review of science. Biochemistry Series One — Vol. 11: Plant biochemistry. Butterworths; London: University Park Press; Baltimore, 1974. ii + 287 pp. £ 10.45. Reviewed in: FEBS Letters, August 1976, 67, 229 by T. A. Scott.

Paton, David M. (ed.). The mechanisms of neuronal and extraneuronal transport of catecholamines. Raven; New York, 1976. xi + 370 pp. \$ 27.50. Reviewed in: Nature, 28.10.76, 263, 802 by A. D. Smith.

Paul, J. (ed.). MTP international review of science. Biochemistry Series One – Vol. 9. Biochemistry of cell differentiation. Butterworths; London: University Park Press; Baltimore, 1974, iii + 380 pp. \$ 10.45. Reviewed in: FEBS Letters, August 1976, 67, 227 by J. H. Parish.

Pennington, T. H. and Ritchie, D. A. Outline series in biology: Molecular virology. Chapman and Hall; London, 1975. 64 pp. \$ 1.30. Reviewed in: Biochem. Soc. Trans., 1976, 4, 838 by Mary R. Lunt.

Poljakoff-Mayber, A. and Gale, J. (eds). Plants in saline environments. (Ecological Studies, Vol. 15). Springer-Verlag; New York, 1975. viii + 216 pp. \$ 31.30. Reviewed in: Science, 23.7.76, 193, 311 by Leon Bernstein.

Porter, R. R. (ed.). MTP international review of science. Biochemistry Series One — Vol. 10. Defence and recognition. Butterworths; London: University Park Press; Baltimore, 1973. ii + 419 pp. £ 10.45. Reviewed in: FEBS Letters, August 1976, 67, 228 by E. J. Wood.

Purves, M. J. (ed.). The peripheral arterial chemoreceptors. Proceedings of a workshop, Bristol, July 1973. Cambridge University Press; New York, 1975. xiv + 492 pp. \$ 39.50. Reviewed in: Science, 9.7.76, 193, 140 by Phyllis M. Gootman.

Racker, Efraim (ed.). MTP international review of science. Biochemistry Series One – Vol. 3. Energy transducing mechanisms. Butterworths; London: University Park Press; Baltimore, 1975. 190 pp. £ 10.45. Reviewed in: FEBS Letters, August 1976, 67, 220 by T. A. Scott.

Racker, Efraim. A new look at mechanisms in bioenergetics. Academic Press; New York and London, 1976. 208 pp. Cloth: \$ 9.50; £ 5.80: Paper: \$ 3.95; £ 2.45.

Reich, E., Rifkin, D. B. and Shaw, E. (eds). Proteases and biological control. Papers from a conference, Cold Spring Harbor, NY (Cold Spring Harbor Conferences on Cell Proliferation, Vol. 2). Cold Spring Harbor Laboratory; Cold Spring Harbor, NY, 1975. x + 1022 pp. \$40. Reviewed in: Science, 25.6.76, 192, 1326 by Beatrice Kassell.

Rickenberg, H. V. (ed.). MTP international review of science. Biochemistry Series One – Vol. 8. Biochemistry of hormones. Butterworths; London: University Park Press; Baltimore, 1974. iii + 342 pp. £ 10.45. Reviewed in: FEBS Letters, August 1976, 67, 226 by A. J. Turner.

Robert, L. and Robert B. (eds). Ageing of connective tissues: Skin. S. Karger; Basel, 1973. viii + 225 pp. SF. 98.—; \$ 30.40; DM 93.—; £ 14.20. Reviewed in: Gerontologia, 1974, 20, 247 by D. A. Hall.

Rowson, K. E. K. and Mahy, B. W. J. Lactic dehydrogenase virus. (Virology Monographs. Vol. 13). Springer-Verlag; Wien, New York, 1975. 121 pp. S 386,—; DM 56.—; \$ 24.10. Reviewed in: Acta Virologica, 1976, 20, 92 by J. Zavada.

Schlesinger, Michael (ed.). Lymphocytes and their cell membranes. Academic Press; New York, 1976. 147 pp. \$ 14.50; £ 8.85.

Schulster, Dennis, Burstein, Sumner and Cooke, Brian A. Molecular endocrinology of the steroid hormones. John Wiley and Sons; London, New York, Sydney, Toronto, 1976. xv + 321 pp. cloth: £ 9.75; \$ 20.00; paper: £ 4.75; \$ 10.00.

Schwarzacher, Hans George. Chromosomes in mitosis and interphase (Handbuch der Mikroskopischen Anatomie des Menschen). Springer; Berlin and New York, 1976. viii + 182 pp. DM 136; \$ 55.80. Reviewed in: Nature, 30.9.76, 263, 448 by H. John Evans.

Sengel, Philippe. Morphogenesis of skin. Cambridge University Press; New York, 1975. 275 pp. \$ 37.00. Reviewed in: J. Invest. Dermatol., 1976, 67, 289 by B. Allen Flaxman.

Snell, George D., Dausett, Jean and Nathenson, Stanley. Histocompatibility. Academic Press; New York, 1976. 401 pp. \$ 29.50; £ 18.00.

Stenesh, J. Dictionary of Biochemistry. John Wiley and Sons; New York, London, Sydney, Toronto, 1975. vii + 344 pp. £ 13.85; \$ 27.40. Reviewed in: FEBS Letters, August 1976, 67, 234 by S. P. Datta. Svejgaard, A, et al. The HLA system: an introductory survey. (Monographs in human genetics, Vol. 7). Karger; Basel, London and New York, 1975. viii + 103 pp. SF/DM 38; \$ 14.75. Reviewed in: Nature, 14.10.76, 263, 619 by Heather Dick.

Thomas, Daniel and Kernevez, Jean-Pierre (eds). Analysis and control of immobilized enzyme systems. North-Holland; Amsterdam, 1976. vii + 306 pp. \$ 27.50; Dfl. 70.00.

Valkovic, V. Trace element analysis. Taylor and Francis; London, 1975. x + 229 pp. £ 7. Reviewed in: Nature, 19.8.76, 262, 729 by T. S. West.

Warg, Shih Yi (ed.). Photochemistry and photobiology of nucleic acids, Vol. 1: Chemistry. Academic Press; New York, 1976. 596 pp. \$ 54.00; £ 29.90.

Winick, M. (ed.). Nutrition and aging. John Wiley and Sons; Chichester, 1976. 220 pp. £ 11.25; \$ 22.50.

Yeoman, M. M. (ed.). Cell division in higher plants. (Experimental botany: an international series of monographs, Vol. 7). Academic Press; London and New York, 1976. x + 542 pp. £ 16.50; \$ 41. Reviewed in: Nature, 9.9.76, 263, 176 by H. E. Street.

Young, D. S. and Hicks, J. M. (eds). The neonate: clinical biochemistry, physiology and pathology. John Wiley and Sons; New York, London, Sydney, Toronto, 1976. xii + 340 pp. £ 14.15; \$ 24.00.