



Books Received

Human Gene Mapping 4: Fourth International Workshop on Human Gene Mapping (Winnipeg, 1977)

Birth Defects: Original Article Series, XIV, 4, 1978, The National Foundation, New York; and Cytogenetics and Cell Genetics, Vol. 22, Nos. 1–6, 1978. Soft cover, 18 × 25 cm, XIV + 730 pp, 228 tables, 158 illustrations. Price: SFr 82.00, approx. US \$49.25. Available only from S. Karger AG, Basel.

This volume contains the proceedings of the fourth of a series of workshops on human gene mapping sponsored by The National Foundation, annually at first (New Haven 1973, Rotterdam 1974, Baltimore 1975), and then biennially (Winnipeg 1977, Edinburgh 1979), with the specific purpose of regularly evaluating progress and of publishing reports on the state of the art. The following figures can give an idea of the rate of progress: the total number of loci assigned was 64 (31 of which confirmed) at the 1973 workshop, vs a total of 176 (83 of which confirmed) at the 1977 meeting. And it is easy to anticipate that these figures will be considerably increased by the time of the 1979 Edinburgh Conference.

A useful summary of the human gene map (L.J. Donald and J.L. Hamerton) opens the volume. This contains the texts of two plenary presentations, one on the analysis of crossing-over in man (N.E. Morton) and the other on chiasma scoring (M. Hultén et al), and a series of committee reports on the various assignments. There follow a large number of short reports organized into the following sections: assignments of enzyme loci, assignments of nonenzyme loci, assignments using family studies, assignments using hybridization in situ, regional mapping of specific chromosomes, comparative mapping of gene loci, unassigned loci and general linkage studies, new experimental methods, and new methods of data analysis.

Cell Surface Factors, Immune Deficiencies, Twin Studies: Part A of Annual Review of Birth Defects, 1977

Edited by R.L. Summitt, D. Bergsma, et al. Alan R. Liss, New York, 1978. Hard cover, 15.5 × 23 cm, XV + 232 pp, illustrated. Available from Alan R. Liss (150 Fifth Avenue, New York) at U.S. \$24.00; in Europe and the Middle East available exclusively from European Book Service (Hogewey-selaan 119, Weesp, The Netherlands) at Dfl 72.00)

The 1977 Annual Review of Birth Defects, consisting of the Proceedings of the 1977 Memphis Birth Defects Conference sponsored by The National Foundation, has been published in three separate volumes: Part A, the present one; Part B, Recent Advances and New Syndromes; and Part C, Sex Differentiation and Chromosomal Abnormalities.

The present volume is in turn subdivided into three sections, as made clear from its title: 1) cell surface factors and their relationship to disease susceptibility; 2) the immune defense system; and 3) twin studies in birth defect research. The latter section, which will be of special interest to the readers of this journal, includes contributions on twin studies and congenital malformations (by N.C. Myrianthopoulos), twin registers (J.C. Christian), conjoined twins (K. Benirschke et al), the MZ half-sib model (L.A. Corey et al), heritability of twinning (V.M. Michels and V.M. Riccardi), and other subjects.

Human Genetic Variation in Response to Medical and Environmental Agents: Pharmacogenetics and Ecogenetics. International Titisee Conference, 1977

Edited by A.G. Motulsky (Seattle), F. Vogel (Heidelberg), et al. Human Genetics, Supplement 1. Springer-Verlag, Berlin-Heidelberg-New York, 1978. Soft cover, 16.5 × 24 cm, VI + 192 pp, 36 tables, 31 illustrations. Price: DM 38.00, U.S. \$20.90.

Started in the mid-1950s, the study of genetic variation in drug reaction (pharmacogenetics) has received further impetus in recent years, primarily because of findings showing MZ twins to be more alike than DZ twins for many drugs tested. In the early 1970s, the concept of genetic variation in the response to drugs was generalized to cover responses to any kind of environmental agent, and the new term "ecogenetics" was coined.

Progress in these areas is reviewed by experts in the present booklet, which is subdivided into two parts. Part one deals with the monogenic and the multifactorial pharmacogenetics of man, as well as the psychopharmacogenetics — ie, the study of genetic variation in the response to behavior-modifying drugs (including alcohol and alcoholism). Part two deals with ecogenetics both in general and with respect to nutritional problems and to mutagenesis and carcinogenesis.

Reproduction

Edited by R.V. Short (Edinburgh). Vol. 35, No. 2, of the British Medical Bulletin, London, 1979. Soft cover, 22 × 28.5 cm, 112 pp, illustrated. Price: £6.00 (UK, £5.00; U.S. and Canada, U.S. \$12.50).

Human Oocytes and Their Chromosomes: An Atlas

By B.M. Uebele-Kallhardt (Ulm), in cooperation with T. Trautman (Ulm). Springer-Verlag, Berlin-Heidelberg-New York, 1978. Hard cover, 16.5 × 24.5 cm, vii + 106 pp, 72 illustrations. Price: DM 48.00, U.S. \$24.00.

Genetic Mosaics and Cell Differentiation

Edited by W.J. Gehring (Basel). Springer-Verlag, Berlin-Heidelberg-New York, 1978. Vol. 9 in the series, Results and Problems in Cell Differentiation, edited by W. Beermann (Tübingen), W.J. Gehring (Basel), J.B. Gurdon (Cambridge), F.C. Kafatos (Cambridge, USA), J. Reinert (Berlin). Hard cover, 16.5 × 24 cm, XI + 315 pp, 19 tables, 75 illustrations. Price: DM 98.00, U.S. \$53.90.

Inhibitors of Protein Biosynthesis

By D. Vázquez (Madrid). Springer-Verlag, Berlin-Heidelberg-New York, 1979. Vol. 30 in the series, *Molecular Biology, Biochemistry and Biophysics*, edited by A. Kleinzeller (Philadelphia), G.F. Springer (Evanston), and H.G. Wittmann (Berlin). Hard cover, 16.5 × 24 cm, X + 312 pp, 13 tables, 61 illustrations. Price: DM 59.00, U.S. \$32.50.

Experimentelle und klinische Immunologie

Experimental and Clinical Immunology. German translation of "Imunologia Básica e Aplicada," Rio de Janeiro 1977. By O.G. Bier (São Paulo), D. Götze (Tübingen), I. Mota (São Paulo), W. Dias da Silva (São Paulo). Springer-Verlag, Berlin-Heidelberg-New York, 1979. Soft cover, 16.5 × 24 cm, VI + 368 pp, 76 tables, 146 partly colored illustrations. Price: DM 58.00, U.S. \$31.90.

Membrane Transport in Biology

Edited by G. Giebisch (New Haven), D.C. Tosteson (Boston), and H.H. Ussing (Copenhagen); Associate Editor: M.T. Tosteson (Boston), Springer-Verlag, Berlin-Heidelberg-New York, 1978–1979. Hard cover, 165 × 24 cm.

Volume 1: Concepts and Models

Edited by D.C. Tosteson (Boston). 1978. XX + 537 pp, 36 tables, 108 illustrations. Price: DM 148.00, U.S. \$81.40.

Volume 2: Transport Across Single Biological Membranes

Edited by D.C. Tosteson (Boston), 1979. XX + 443 pp, 41 tables, 103 illustrations. Price: DM 148.00, U.S. \$81.40.

Volume 3: Transport Across Multi-Membrane Systems

Edited by G. Giebisch (New Haven), 1979. XVIII + 459 pp, 26 tables, 97 illustrations. Price: DM 148.00, U.S. \$86.40.

Volume 4, Part A, and Volume 4, Part B: Transport Organs

Edited by G. Giebisch (New Haven), 1979. XVIII + 939 pp, 84 tables, 218 illustrations. In two parts, not available separately. Price: DM 296.00, U.S. \$162.80.