



**BOOKS RECEIVED**

## **Current Developments in Anthropological Genetics—Vol. 1: Theory and Methods**

**Edited by J.H. Mielke and M.H. Crawford (Lawrence, Kansas). Plenum Press, New York 1980. Hardcover with jacket, 16 × 23.5 cm, XIV + 436 pp, illustrated. Price: U.S. \$45.00.**

*This volume assembles a number of authoritative articles originating from a Distinguished Lecture Program on Anthropological Genetics of the University of Kansas Department of Anthropology. It represents a continuation of a similar collection, back in the early 1970s, "Methods and Theories of Anthropological Genetics," with more emphasis on genetic epidemiology than on population structure analysis. In the various articles, aspects of culture are examined that interact with the genetic structure at the individual, family, and population level. The volume includes contributions by C.C. Li, Newton Morton, Robert Elston, Kenneth Weiss, Frank Livingstone, and other internationally known scholars, dealing with the demographic and cultural framework in which human populations exist, evolutionary perspectives, and analytical theory, illustrated by a number of examples (segregation analysis, path analysis, half-sib analysis, etc.).*

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## **Human Variation in Motor Abilities and Its Genetic Analysis**

**By R. Kovar (Prague). Charles University, Prague 1980. Paperback, 16.5 × 23.5 cm, 178 pp. Price not indicated.**

*To what extent can motor ability and performance be boosted? To what extent is training adequate to the biological possibilities of a given individual? To what extent do genetic factors account for the variation in human motor ability? These and similar issues are dealt with in this booklet where the available literature is reviewed along with much original information, both largely based on studies of twins. At a time when very considerable cultural emphasis has been placed on motor activity at all levels, when adequate social structures and facilities are being increasingly developed, when training programs are becoming more and more sophisticated, the notions of biological limits and of genetic variability are in fact likely to become more evident and play a more relevant role.*

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## **The Roots of Individuality—A Survey of Human Behavior Genetics**

**By L.K. Dixon (Denver, Colorado) and R.C. Johnson (Manoa, Hawaii). Brooks/Cole Publishing Company, Monterey 1980. Softcover, 18.5 × 23.5 cm, XII + 226 pp, including tables and illustrations. Price not indicated.**

*This is an introductory textbook to the genetic study of human behavior. It provides an overview of the history of human behavioral genetics, of its methods (twin and adoption studies, pedigree studies, etc.), and of their applications to the study of intelligence, personality, sensory perceptions and the processing of sensory information, as well as of psychological deviance. This easily readable text is directed to students of behavioral genetics and of related disciplines and may also prove of interest to professionals in the health sciences, educators, and others.*

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## **The Distribution of the Human Immunoglobulin Allotypes**

**By A.G. Steinberg and C.E. Cook (Cleveland, Ohio). Volume in the series, Oxford Monographs on Medical Genetics, Oxford University Press 1981. Hardcover with jacket, 22.5 × 29 cm, XII + 250 pp, 120 tables, 16 illustrations. Price: £ 27.50.**

*Following similar collections in the same series, such as Mourant's classic one on "The Distribution on Human Blood Groups," this volume now presents a compilation of all population data for the Gm, Inv, and A2m allotypes collected prior to 1977. This body of data clearly represents a unique contribution to the genetic study of human populations and brings to fruition a wealth of information that would otherwise be largely inaccessible because of its vast dispersion. This monograph thus represents a fundamental tool for anyone working in the field.*

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## **Chromosomal Variation in Man—3rd Edition**

**By D.S. Borgaonkar (Denton, Texas). Alan R. Liss, Inc., New York 1981. Hardcover, 16 × 23.5 cm, XXXIV + 714 pp. Price: £ 39.60.**

*The size of this third edition, which comes only five years after the first one, gives an immediate idea of the pace at which human cytogenetics continues to develop. In its over 700 pages, this catalog provides references and short reports of all observations related with variants and structural and numerical*

*anomalies of the individual chromosomes, followed by an author index and by two appendices, one containing a selected list of loci assigned to chromosomes, and the other devoted to a detailed description of chromosomal syndromes.*

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## **Counseling in Medical Genetics—3rd Edition**

**By S. Reed (Minneapolis, Minnesota). Alan R. Liss, Inc., New York 1980. Hardcover with jacket, 15.5 × 23.5 cm, X + 245, including tables and illustrations. Price: £ 17.80.**

*Third edition of a well-known classic, which first appeared 25 years ago. The term "genetic counseling," coined at that time by Dr. Reed, has now become well known even to the general practitioner. Counseling centers are currently available all over the world. The scope of the third edition has grown accordingly, and those interested in information and references needed for good-quality counseling will find it a very valuable working tool.*

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## **The Fetus and the Newborn**

**Edited by A.D. Bloom and L.S. James (New York). Volume 17, no. 1 in Birth Defects: Original Article Series. Alan R. Liss, Inc., New York 1981. Hardcover, 15.5 × 23.5 cm, X + 286 pp, including tables and illustrations. Price: £ 24.60.**

*The 1980 Birth Defects Conference attempted to bring together perinatologists, geneticists, and developmental biologists in an effort to better define and understand the many problems that beset the fetus and the newborn. The results are assembled in this volume of proceedings consisting of original and diverse contributions in the three main areas: birth defects in the fetus, birth defects in the immature infant, and problems of diagnosis and treatment.*

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## **Biomathematical Evidence of Paternity**

**Edited by K. Hummel (Freiburg i. Br.) and J. Gerchow (Frankfurt/Main). Springer-Verlag, Berlin-Heidelberg 1981. Paperback, 16.5 × 24.5 cm, XVIII + 223 pp, 26 figures. Price: DM 98, approx. U.S. \$45.70.**

*This booklet has been issued to celebrate the 80th anniversary of a great pioneer of human genetics and especially psychiatric genetics, Erik Essen-Möller. This comes about 40 years after the publication of one of Essen-Möller's most relevant contributions, as he derived the first biomathematical*

*method to provide evidence of paternity. The latter is therefore the topic discussed in this booklet by a variety of contributors—physicians, geneticists, mathematicians, and lawyers. The resulting collection of papers (though in different languages) also represents an in-depth overview of the field.*

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## **Genetic and Environmental Hearing Loss: Syndromic and Nonsyndromic**

**Edited by L.S. Levin (Baltimore, Maryland) and C.H. Knight (Washington, DC). Volume XVI, no. 7 in Birth Defects: Original Article Series. Alan R. Liss, Inc., New York 1981. Hardcover, 16 × 23.5 cm, IX + 90 pp, illustrated. Price: £ 11.00.**

*Proceedings of a symposium sponsored by the Society of Craniofacial Genetics aimed at providing insight into the pathogenesis of hearing impairment. Topics dealt with are childhood hearing loss: epidemiology and implications; morphogenesis and teratogenesis in the middle ear in animals; pathogenesis of hereditary inner ear abnormalities in animals; nonsyndromic deafness; central deafness: fact or fiction?; hereditary hearing loss and ear dysplasia-renal adysplasia syndromes: syndrome delineation and possible pathogenesis; hereditary hearing loss associated with musculoskeletal malformations.*

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## **Huntington's Chorea**

**By M.R. Hayden (Boston, Massachusetts). Springer-Verlag, Heidelberg 1981. Hardcover, 17 × 25 cm, 17 + 192 pp, 69 figures. Price: DM 98, approx. U.S. \$45.60.**

*A thorough and up-to-date data overview of the various aspects connected with Huntington's chorea, from geographic distribution and epidemiology to clinical, neuropathological, and genetic features, along with social aspects and management problems. The monograph also reviews current trends in research, provides useful appendices dealing with problems of genetic counseling, and gives details on organizations and activities related to this condition.*

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## **Etiology of Cleft Lip and Cleft Palate**

**Edited by M. Melnick (Los Angeles, California), D. Bixler (Indianapolis, Indiana), and E.D. Shields (Montreal). Volume 46 in the series, Progress in Clinical and Biological Research. Alan R. Liss, Inc., New York 1980. Hardcover with jacket, 16 × 23.5 cm, XIV + 556 pp, including tables and illustrations. Price: U.S. \$40.00.**

*Proceedings of a workshop sponsored by the NIDR and the Society of Craniofacial Genetics which brought together animal, human, and population geneticists along with developmental biologists, clinicians, epidemiologists, immunogeneticists, biochemists, etc. The book assembles the original papers and the discussions subdivided into the following main sections: Animal studies of cleft lip and palate, Human population studies, Mathematical models applied to the etiology of human clefting, Genetic and phenotypic markers of clefting. A section of final recommendations concludes the volume.*

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## Gene Interactions in Development

**By L.I. Korochkin (Moscow). Translated and edited by A. Grossman (Tallahassee, Florida). Volume 4 in the series, Monographs on Theoretical and Applied Genetics. Springer-Verlag, Heidelberg 1981. Hardcover, 17 × 25 cm, XIII + 318 pp, 109 figures. Price: DM 98, approx. U.S. \$51.50.**

*A general overview of the mechanisms through which genes influence one another, at the cellular and at the tissue level, in the course of developmental processes, and of how these and related interactions represent an essential aspect of the realization of hereditary information.*

*The English edition incorporates current information reflecting progress in the field of molecular developmental genetics in the past five years since the publication of the original Russian edition.*

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## Trisomy 21

**Edited by G. R. Burgio, M. Fraccaro, L. Tiepolo (Pavia), and U. Wolf (Freiburg i. Br.). Supplement No. 2 of the journal, Human Genetics. Springer-Verlag, Berlin-Heidelberg 1981. Softcover, 16.5 × 24 cm, VI + 265 pp, 55 figures and 55 tables. Price: DM 54, approx. U.S. \$25.70.**

*Proceedings of an international symposium held in Rapallo (Italy) in November 1979, 20 years after Lejeune's description of trisomy 21 in mongoloid children. Clinical, immunological, dermatoglyphic, and other characteristics of Down's syndrome are dealt with, along with specific and related cytogenetic aspects, by specialists such as Lejeune, Ford, Polani, Epstein, Lindsten, and many others. A highly valuable, updated overview.*

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## Human Chromosomes—Structure, Behavior, Effects

**By E. Therman (Madison, Wisconsin). Springer-Verlag, New York 1980. Hardcover, 16 × 24 cm, XVI + 235 pp, 55 figures. Price: DM 37, approx. U.S. \$21.80.**

## **Cytogenetics—Plants, Animals, Humans**

By J. Schulz-Schaeffer (Bozeman, Montana). Springer-Verlag, New York 1980. Hardcover, 16 × 24 cm, XIV + 446 pp, 219 figures. Price: DM 69, approx. U.S. \$40.60.

## **Evolution and Variation of Multigene Families**

By T. Ohta (Japan). Volume 37 in the series, Lecture Notes in Biomathematics. Springer-Verlag, Berlin-Heidelberg 1980. Softcover, 16.5 × 24 cm, VIII + 131 pp, 25 figures and 14 tables. Price: DM 19.50, approx. U.S. \$11.50.

## **The Human Genetic Mutant Cell Repository**

List of Genetic Variants, Chromosomal Aberrations and Normal Cell Cultures Submitted to the Repository. Eighth edition, October 1981. U.S. Department of Health and Human Services—National Institutes of Health. Paperback, 21.5 × 27 cm, XXVIII + 310 pp. Direct inquiries to: Institute for Medical Research, Copewood and Davis Streets, Camden, NJ 08103.

## **Advances in The Physiological Sciences—Proceedings of the 28th International Congress of Physiological Sciences, Budapest 1980**

### *Volume 6: Genetics, Structure and Function of Blood Cells*

Edited by S.R. Hollan, G. Gardos, B. Sarkadi (Budapest). Akademiai Kiado, Budapest 1981. Distributed by Pergamon Press. Bound volume, 17 × 24 cm, X + 308 pp, illustrated. Price: U.S. \$40.00.

### *Volume 15: Reproduction and Development*

Edited by B. Fierko, G. Setalo, L. Tima (Pecs). Akademiai Kiado, Budapest 1981. Distributed by Pergamon Press. Bound volume, 17 × 24 cm, VIII + 196 pp, illustrated. Price: U.S. \$25.00.

## *Volume 17: Brain and Behaviour*

Edited by G. Adam, I. Meszaros, E.I. Banyiai (Budapest). Akademiai Kiado, Budapest 1981. Distributed by Pergamon Press. Bound volume, 17 × 24 cm, XIII + 540 pp, illustrated. Price: U.S. \$60.00

## **Control of Growth**

Edited by J.M. Tanner (London). Vol. 37, no. 3 of the *British Medical Bulletin*, Edinburgh 1981. Softcover, 22 × 28.5 cm, 98 pp, illustrated. Price: £ 9.50 (U.S. \$20.00).

## **Fundamentals of Immunology**

By O.G. Bler, W. Dias da Silva (Sao Paulo), D. Götze (Munich and Tübingen), and I. Mota (Sao Paulo). Springer-Verlag, New York 1981. Softcover, 16.5 × 24 cm, VIII + 442 pp, 164 figures. Price: DM 48, approx. U.S. \$22.90.

## **Histopathology of Non-Hodgkin's Lymphomas (Based on the Kiel Classification)**

By K. Lennert in collaboration with H. Stein (Kiel). Springer-Verlag, Berlin-Heidelberg 1981. Hardcover, 17 × 25 cm, X + 135 pp, 68 figures. Price: DM 78, approx. U.S. \$37.20.

## **Results and Problems in Cell Differentiation—Vol. 11. Differentiation and Neoplasia**

Edited by R.G. McKinnel (St. Paul, Minnesota), M.A. DiBerardino (Philadelphia, Pennsylvania), M. Blumenfeld and R.D. Bergad (St. Paul, Minnesota). Springer-Verlag, Berlin-Heidelberg 1980. Hardcover, 17 × 25 cm, XV + 310 pp, 77 figures and 33 tables. Price: DM 129, approx. U.S. \$76.20.

## **The Molecular Theory of Radiation Biology**

By K.H. Chadwick and H.P. Leenhouts (Wageningen). Volume 5 in the series, *Monographs on Theoretical and Applied Genetics*. Springer-Verlag,

Berlin-Heidelberg 1981. Hardcover, 17 × 25 cm, XVI + 377 pp, 236 figures. Price: DM 128, approx. U.S. \$67.20.

## **International Cell Biology 1980–1981**

Edited by H.G. Schweiger (Heidelberg). Papers presented at the Second International Congress on Cell Biology, Berlin (West): September 1980. Springer-Verlag, Berlin-Heidelberg-New York 1981. Hardcover, 17 × 25 cm, XVIII + 1033 pp, 595 figures + numerous tables. Price: DM 128, approx. U.S. \$61.00

## **Progress in Molecular and Subcellular Biology, Vol. 7**

Contributions by F.E. Hahn, H. Kersten, W. Kersten, T.T. Puck, G.F. Springer, W. Szybalski, and K. Wallenfels. Managing editor: F.E. Hahn (Washington, DC). Springer-Verlag, Berlin-Heidelberg 1980. Hardcover, 17 × 25 cm, VI + 256 pp, 31 figures and 12 tables. Price: DM 86, approx. U.S. \$50.80.

## **Bacterial and Bacteriophage Genetics— An Introduction**

By E.D. Birge (Tempe, Arizona). Springer-Verlag, New York 1981. Hardcover, 16 × 24 cm, XVI + 359 pp, 111 figures. Price: DM 54, approx. U.S. \$25.70.

## **Antibiotic Resistance—Transposition and Other Mechanisms**

Edited by S. Mitsunashi (Maebashi), L. Rosival (Bratislava), and V. Krcmery (Bratislava). Avicenum, Prague, and Springer-Verlag, Berlin-Heidelberg-New York 1980. Hardcover with jacket, 17 × 24 cm, XII + 410 pp, 118 figures and 143 tables. Price: DM 98, approx. U.S. \$57.90.

## **Further Studies in the Assessment of Toxic Actions—Proceedings of the European Society of Toxicology**

Edited by P.L. Chambers (Dublin), and W. Klinger (Jena). Supplement No. 4 to the journal, *Archives of Toxicology*. Springer-Verlag, Berlin-



Heidelberg 1980. Softcover, 16.5 × 24 cm, XIV + 507 pp, 147 figures and 113 tables. Price: DM 98, approx. U.S. \$57.90.

## **Antibiotics—Vol. 4. Biosynthesis**

Edited by J.W. Corcoran (Chicago, Illinois). Springer-Verlag, Berlin-Heidelberg 1981. Hardcover, 17 × 25 cm, XII + 380 pp, 164 figures. Price: DM 198, approx. U.S. \$116.90.