



Pergamon

Genetic Counselling in Relation to Mental Retardation

Edited by J. M. Berg

Considers from different but complementary standpoints the general question of genetic counselling in relation to mental retardation, thus providing a balanced and critical appraisal of the subject as it stands today.

48 pages £0.75 flexi cover

Serendipity in St. Helena

A Genetical and Medical Study of an Isolated Community

I. Shine

Because there have been no previous studies that cover such a wide range of disease, this is an important work. The author has made an intensive study of the health and population structure of almost the entire population of five thousand, presenting the results with personal and anecdotal detail in order to convey an accurate picture of the field situation, to illustrate more fully the character of the islanders and to show the sort of problem likely to arise in any similar study. In addition, methodological details and practical problems are given in full.

208 pages £3.75 hard cover

Human Afflictions and Chromosomal Aberrations

R. Turpin and J. Lejeune

Partial Contents: History; Techniques of Studying Human Chromosomes; Normal Human Karyotype; Trisomy 21; Numerical Autosomal Aberrations. Trisomies 13 and 18; Structural Rearrangements; Leukaemias and Cancer; Numerical Gonosomal Aberrations; Modifications of Gonosomal Structure; Hermaphroditism and Pseudohermaphroditism; Monozygotic Twinning and Chromosome Aberrations (Heterokaryotic Monozygotism); Mechanism and Effects of Gonosomal Numerical Aberrations; Chromosome-Linked Biochemical Effects.

404 pages £8.00 hard cover

Lepidoptera Genetics

R. Robinson

Provides a systematic, world-wide account of genetic and karyological studies with Lepidoptera species.

Partial Contents: Elements of Lepidoptera Genetics; Elementary Biometry; Population Genetics Polymorphism; Rise of Industrial Melanism; Evolution of Mimicry; Genetics of Rhopalocera; Genetics of Heterocera; Karyology of Lepidoptera; Bibliography; Species and Aberration Index.

688 pages £10.00 hard cover

G101

Genetic Diversity and Natural Selection

James Murray

This book reviews the literature on natural selection and the causes of genetic diversity, the principle thesis being that the traditional view is seriously distorted. Nature contains a wealth of genetic variation and the author, proposing that natural selection is the promoter of diversity, also discusses the possibility that prior geographic isolation, *per se*, is irrelevant in the causation of such diversity. In reviewing the literature on the subject and proposing original avenues of research, Professor Murray provides an excellent text for students and specialists in the life sciences.

£1.25 paperback

£2.50 hardback

Oliver & Boyd



Tweeddale Court,
14 High Street,
Edinburgh EH1 1YL

Comparative Genetics in Monkeys, Apes and Man

Proceedings of a symposium on Comparative
Genetics in Primates and Human Heredity held at
Ernice, Sicily, July, 1970

edited by A. B. Chiarelli
Institute of Anthropology, Primatology Centre
University of Turin, Italy

December 1971, x + 346 pp., £5.50

Genetics appears high in the list of sciences that have developed rapidly during the past few years. Although scientists have readily adopted the new techniques devised for this study they have made little use of comparative research on the hereditary characteristics of the human species and other primates. It is certain that this approach offers another valid means of improving the progress in this area, which is of great importance to the future of Mankind.

Contents

Introduction. Comparative primate genetics and human heredity. Epigenetic polymorphism in the primate skeleton. The heredity of dermatoglyphic traits in non-human primates and man. Phenylthiourea testing in primates. Blood groups of non-human primates and their relationship to the blood groups of man. Leukocyte groups of non-human primates; their relation to histocompatibility and to human HL-A antigens. Genetic structure and systematics of some macaques and men. Evolving primate genes and proteins. Comparison of the hemoglobins in non-human primates and their importance in the study of human hemoglobins. Phylogenesis of immunoglobulins in primates. Comparative cytogenetics in primates and its relevance for human cytogenetics.

Concluding remarks.

Author index. Subject index.



Academic Press London and New York
24-28 Oval Road London NW1 England
111 Fifth Avenue New York NY 10003 USA

GENETICAL RESEARCH

VOLUME 19, NUMBER 2, APRIL 1972

CONTENTS

- MARUYAMA, TAKEO. The average number and the variance of generations at particular gene frequency in the course of fixation of a mutant gene in a finite population page 109
- NEWCOMBE, K. D. and THRELKELD, S. F. H. Interspecific crosses and crossing-over in *Neurospora* 115
- AHMAD, A. F., BOND, D. J. and WHITEHOUSE, H. L. K. The effect of an inverted chromosome segment on intragenic recombination in another chromosome of *Sordaria brevicollis* 121
- CARLSON, PETER S. The effects of inversions and the *C(3)G* mutation on intragenic recombination in *Drosophila* 129
- EGOROV, I. K. and BLANDOVA, ZINAIDA K. Histocompatibility mutations in mice: chemical induction and linkage with the H-2 locus 133
- UNRAU, P. and HOLLIDAY, R. Recombination during blocked chromosome replication in temperature-sensitive strains of *Ustilago maydis* 145
- MCVITTIE, ANNE. Genetic studies on flagellum mutants of *Chlamydomonas reinhardtii* 157
- FREEDMAN, R. and BRENNER, S. Anomalously revertible r_{II} mutants of phage T₄ 165
- HEBERT, P. D. N., WARD, R. D. and GIBSON, J. B. Natural selection for enzyme variants among parthenogenetic *Daphnia magna* 173
- KLEIN, JAN and KLEIN, DAGMAR. Position of the translocation break *T(2;9)138Ca* in linkage group IX of the mouse 177
- MOODY, ERIC E. M. and RUNGE, RICHARD. The integration of autonomous transmissible plasmids into the chromosome of *Escherichia coli* K 12 181
- RICHMOND, M. H. A comparison of the exo-penicillinases mediated by a chromosomal gene in a strain of *Staphylococcus aureus* PS 80 and by a plasmid gene in *Staphylococcus aureus* 8325 187

© Cambridge University Press, 1972

CAMBRIDGE UNIVERSITY PRESS

Bentley House, 200 Euston Road, London NW1 2DB
American Branch: 32 East 57th Street, New York, N.Y. 10022

SUBSCRIPTION £6.00 net (U.S.A. \$19.50) per volume

SINGLE PARTS £2.60 net (U.S.A. \$8.00)