Oxford University Press

The Mathematical Theory of Quantitative Genetics

M. G. Bulmer

The emphasis in this book is on discussion of the underlying principles illustrated by simple examples. A basic knowledge of statistical methods and theory is assumed and problems for solution are included. £27

Aboriginal Man Adapting

The Human Biology of Australian Aborigines R. L. Kirk

This book presents a broad sweep of the biological relationship between man and nature on a continental scale. Aborigines have become physically and genetically diversified in response to geographical separation and socially isolating mechanisms such as differences in language; and estimates are made at the rate at which such differentiation takes place. Attention is also given to physiological adaptation, particularly the ability to withstand temperature stress and to utilize water under desert conditions. Illustrated £20

GENETICAL RESEARCH

EDITORIAL BOARD

CHARLOTTE AUERBACH ARTHUR CHOVNICK D. J. FINNEGAN
W. HAYES BRUCE HOLLOWAY D. ISH-HOROWICZ
MARY F. LYON ANNE McLAREN M. VAN MONTAGU J. PAUL
W. J. PEACOCK PETER A. PETERSON R. H. PRITCHARD
A. ROBERTSON R. RILEY

EXECUTIVE EDITOR

E. C. R. REEVE

ASSISTANT EXECUTIVE EDITORS

N. S. WILLETTS
TRUDY F. C. MACKAY

Volume 38, 1981



CAMBRIDGE UNIVERSITY PRESS

CAMBRIDGE
LONDON NEW YORK NEW ROCHELLE

MELBOURNE SYDNEY

PUBLISHED BY THE PRESS SYNDICATE OF THE UNIVERSITY OF CAMBRIDGE

The Pitt Building, Trumpington Street, Cambridge CB2 1RP 32 East 57th Street, New York, N.Y. 10022

© Cambridge University Press, 1981

Printed in Great Britain at the University Press, Cambridge

CONTENTS

No. 1 (August 1981)

page 1
9
25
47
57
71
93
97
103
115
125
137
157
171
197

Contents

No. 3 (December 1981)

HILL, WILLIAM G. Estimation of effective population size from data on linkage disequilibrium	209
GRUBB, W. B. and Annear, D. I. Unstable drug resistance in Staphylococcus aureus M4	217
Shur, Barry D. Galactosyltransferase activities on mouse sperm bearing multiple t^{lethal} and t^{viable} haplotypes of the T/t-complex	225
LOHE, A. R. The satellite DNAs of Drosophila simulans	237
MATSUMOTO, HIDEKI, NAKAZAWA, TERUKO, OHTA, SHIN and TERAWAKI, YOSHIRO. Chromosomal locations of catA, pobA, pcaA, dcu and chu genes in Pseudomonas aeruginosa	251
PUTRAMENT, ALEKSANDRA and EJCHART, ANNA. Mitochondrial mutagenesis in Saccharomyces cerevisiae: the origin of mit—mutants	267
HILLIKER, ARTHUR J. and CHOVNICK, ARTHUR. Further observations on intragenic recombination in <i>Drosophila melanogaster</i>	281
Sparrow, John C. The recovery and preliminary examination of a temperature sensitive suppressor of the cryptocephal mutant of <i>Drosophila melanogaster</i>	297
STYRNA, JÓZEFA and KLEIN, JAN. Evidence for two regions in the mouse t complex controlling transmission ratios	315
VEKEMANS, M., TAYLOR, B. A. and FRASER, F. C. The susceptibility to cortisone-induced cleft palate of recombinant inbred strains of mice: lack of association with the <i>H-2</i> haplotype	327
Sheedlo, Harold J. and Beck, Melvin L. Copper localization in the duodenal mucosa of heterozygous tortoiseshell $(Mo^{to}/+)$ female mice $(Mus\ musculus)$	333
Lyon, Mary F., Jarvis, Susan E., Sayers, Irene and Holmes, Roger S. Lens opacity: a new gene for congenital cataract on chromosome	
10 of the mouse	337
Books Received	343
Index	345

Copying

This journal is registered with the Copyright Clearance Center, 21 Congress St., Salem, Mass. 01970. Organizations in the U.S.A. who are also registered with C.C.C. may therefore copy material (beyond the limits permitted by sections 107 and 108 of U.S. copyright law) subject to payment to C.C.C. of the per-copy fee of \$02.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0016-6723/81/2828-0001 \$02.00.

ISI Tear Service, 3501 Market Street, Philadelphia, Pennsylvania 19104, U.S.A., is authorized to supply single copies of separate articles for private use only.

For all other use, permission should be sought from the Cambridge or New York offices of the Cambridge University Press.

GENETICAL RESEARCH (ISSN 0016-6723) is published once every two months.

Single parts £11.00 net (in U.S.A. and Canada US \$32.00), plus postage. Three parts form a volume. The subscription price of volumes 37 and 38, 1981 (which includes postage) is £26.00 net per volume (in U.S.A. and Canada US \$76.25).

Copies of the journal for subscribers in the U.S.A. and Canada are sent by air to New York to arrive with minimum delay. Second class postage at New York, N.Y., and at additional mailing offices.

Orders, which must be accompanied by payment, should be sent to a bookseller or to the publishers, Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 2RU and, in the U.S.A. and Canada, 32 East 57th Street, New York, N.Y. 10022. Postmaster: send address changes in U.S.A. and Canada to Cambridge University Press, 32 East 57th Street, New York, N.Y. 10022.

Claims for missing issues can only be considered if made immediately after receipt of the subsequent issue.

GENETICAL RESEARCH

VOLUME 38, NUMBER 3, DECEMBER 1981

CONTENTS

HILL, WILLIAM G. Estimation of effective population size from data on linkage disequilibrium pag	e 209
GRUBB, W. B. and ANNEAR, D. I. Unstable drug resistance in Staphylococcus aureus M4	217
SHUR, BARRY D. Galactosyltransferase activities on mouse sperm bearing multiple $t^{\rm lethal}$ and $t^{\rm viable}$ haplotypes of the T/t-complex	225
LOHE, A. R. The satellite DNAs of Drosophila simulans	237
MATSUMOTO, HIDEKI, NAKAZAWA, TERUKO, OHTA, SHIN and TERAWAKI, YOSHIRO. Chromosomal locations of catA, pobA, pcaA, dcu and chu genes in Pseudomonas aeruginosa	251
PUTRAMENT, ALEKSANDRA and EJCHART, ANNA. Mitochondrial mutagenesis in Saccharomyces cerevisiae: the origin of mit—mutants	267
HILLIKER, ARTHUR J. and CHOVNICK, ARTHUR. Further observations on intragenic recombination in <i>Drosophila melanogaster</i>	281
SPARROW, JOHN C. The recovery and preliminary examination of a temperature sensitive suppressor of the cryptocephal mutant of <i>Drosophila melanogaster</i>	297
STYRNA, JÓZEFA and KLEIN, JAN. Evidence for two regions in the mouse t complex controlling transmission ratios	315
VEKEMANS, M., TAYLOR, B. A. and FRASER, F. C. The susceptibility to cortisone-induced cleft palate of recombinant inbred strains of mice: lack of association with the H-2 haplotype	327
SHEEDLO, HAROLD J. and BECK, MELVIN L. Copper localization in the duodenal mucosa of heterozygous tortoiseshell (Moto/+) female mice (Mus musculus)	333
LYON, MARY F., JARVIS, SUSAN E., SAYERS, IRENE and HOLMES, ROGER S. Lens opacity: a new gene for congenital cataract on chromosome 10 of the mouse	337
BOOKS RECEIVED	343
INDEX	345

© Cambridge University Press 1981

CAMBRIDGE UNIVERSITY PRESS

The Pitt Building, Trumpington Street, Cambridge CB2 1RP 32 East 57th Street, New York, N.Y.10022

Printed in Great Britain at the University Press, Cambridge