"By 1980 it may be technically teasible to clone a human being."

The New Genetics and the Future of Man

MICHAEL HAMILTON, Editor

How can we prepare for our future in the light of the current revolutionary developments in biology?

In THE NEW GENET-ICS AND THE FUTURE OF MAN, scientists, lawyers, theologians and ethicists evaluate new areas of medical science and practice which have genetic implications. Throughout, the discussion is marked by a deeply Christian sensitivity to the complex ethical questions involved.



The contributors and their topics:

NEW BEGINNINGS IN LIFE

Leon R. Kass (Biologist)
Frank P. Grad (Lawyer)
Joseph Fletcher (Theologian)
Daniel Callahan (Philosopher)

GENETIC THERAPY

W. French Anderson (Research Biochemist)
Arno G. Motulsky (Clinical Geneticist)
Alexander M. Capron (Lawyer)
Paul Ramsey (Theologian)

POLLUTION AND HEALTH

Samuel S. Epstein (Research Chemist)
Julius E. Johnson (Industrial Chemist)
Leonard Bickwit, Jr. (Senate Counsel)
Charles W. Powers (Theologian)

256 pages. Paper, \$3.95; Cloth, \$6.95



The Biology of *Tribolium* with Special Emphasis on Genetic Aspects

Volume I

A. Sokoloff

This monograph is intended to make readily available widely scattered information on the biology of the flour beetles of the genus *Tribolium*. Volume I summarizes the information on the normal anatomy and morphology of the genus, the karyotypes of several species, the embryology, and taxonomic position of the genus. It also provides useful information on teratologies never before reported for the flour beetle. 48 text figures 24 plates 23 tables £12

Behavioural and Ecological Genetics

A Study in Drosophila

P. A. Parsons

In general, genetics, ecology, and the study of behaviour have been regarded as separate disciplines. To develop a coherent evolutionary biology of an organism, however, the attempt must be made to integrate them. This book, which makes such an attempt using *Drosophila* as a model, will interest advanced students in the field of evolutionary biology, and research workers who will find it useful as a source of reference material. 3 plates 27 text figures £6.50

The Evolution of Melanism

The Study of a Recurring Necessity

Bernard Kettlewell

This book emphasizes the world-wide phenomenon of industrial melanism in the Lepidoptera, the most striking evolutionary change ever to have been analysed at a time when rapid evolution was actually taking place. The different uses of black-coloration are discussed: cryptic, aposematic, thermal, etc. Many of the original experiments on differential survival in nature are considered, and previously unpublished observations are also included.

34 plates (2 in colour) 13 text figures £10.25

OXFORD UNIVERSITY PRESS

International ABSTRACTS of Biological Sciences

HONORARY EDITOR: DR C C N VASS

Published for the council of Biological and Medical Abstracts, this journal covers the more important papers in experimental biology. Subjects are approached from a fundamental viewpoint with an emphasis placed on anatomy, odontology, microbiology, pharmacology, experimental pathology, immunology, experimental zoology, cytology, genetics and animal behaviour. More than 500 journals are surveyed annually and some 50,000 abstracts are published in four volumes each of 3 issues containing an author index. A subject index is included with each quarterly issue.

Published monthly

1973 Annual Subscription Price

Complete edition, including all author and subject indexes:

(A) Government and public floraries, and industrial organisations	£115.00	(\$315)
10% reduction for two-year subscription (1973-74), coupled with protection against any price increases during the period	£207.00	(\$567)
(B) University and hospital libraries	£100.00	(\$275)
10% reduction for two-year subscription, coupled with protection against any price increases for the period	£180.00	(\$495)

Back volumes available:

Volumes 1-67; years 1954 to 1972 Prices on request

Please write for a free inspection copy of this Journal

Robert Maxwell & Co. Ltd.

HEADINGTON HILL HALL · OXFORD OX3 0BJ · ENGLAND

GENETICAL RESEARCH

VOLUME 21, NUMBER 2, APRIL 1973

CONTENTS

MISURACA, FARA and SERMONTI, G. Infectious transfer of a fertility	
factor in Streptomyces coelicolor	page 107
GILLESPIE, J. H. Natural selection with varying selection coefficients – a haploid model	115
FESTING, MICHAEL. A multivariate analysis of subline divergence in the shape of the mandible in C57BL/Gr mice	121
PRAKASH, SHYAM. Non-homologous meiotic pairing in the A and B genome of <i>Brassica</i> : its breeding significance in the production of variable amphidiploids	es 133
EGAN, A. F. and RUSSELL, R. R. B. Conditional mutations affecting the cell envelope of <i>Escherichia coli</i> K-12	139
CURTIS, C. F., LANGLEY, P. A., MEWS, A. R., OFFORI, E. D., SOUTHERN, D. I. and BELL, P. E. Sex ratio distortion and semi-sterility in the progeny of irradiated Glossina morsitans	153
CHARLESWORTH, BRIAN and CHARLESWORTH, DEBORAH. Selection of ne inversions in multi-locus genetic systems	ew 167
LYON, MARY F. and HAWKER, SUSAN G. Reproductive lifespan in irradiated and unirradiated chromosomally XO mice	d 185
HARGRAVE, JENNY and THRELKELD, S. F. H. Location of factors enhancing crossing over on linkage group I of Neurospora	ng 195
WILLETTS, N. S. Characterization of the F transfer cistron, traL	205

PUGLIA A MARIA SPADA-SERMONTI ISARELLA RASILE SANTINA

© Cambridge University Press, 1973

CAMBRIDGE UNIVERSITY PRESS

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

Subscription £7.50 net (U.S.A. and Canada US \$25.00) per volume

SINGLE PARTS £3.00 net (U.S.A. and Canada US \$9.50)