DECEMBER 1966

GENETICAL RESEARCH

EDITORIAL BOARD

C. H. WADDINGTON (Chairman) CHARLOTTE AUERBACH D. LEWIS H. GRÜNEBERG G. PONTECORVO W. HAYES A. ROBERTSON

> EXECUTIVE EDITOR E. C. R. REEVE

ASSISTANT EXECUTIVE EDITOR J. O. BISHOP



PUBLISHED BY

CAMBRIDGE UNIVERSITY PRESS

Bentley House, 200 Euston Road, London, N.W. 1 American Branch: 32 East 57th Street, New York, N.Y. 10022

SUBSCRIPTION £5 net (U.S.A. \$18.50) per volume

SINGLE PARTS 40s. net (U.S.A. \$7.50)

nor our consort source rublished online by Cambridge University Press, and an and a state of the second source a

GENETICAL RESEARCH

GENETICAL RESEARCH publishes original work on all aspects of genetics, or in any field of research which has an important bearing on genetics. Papers will be submitted to referees before acceptance. They will generally be printed in order of acceptance. In addition, Short Papers (see below) may be included if received 3 months before publication date.

TWO VOLUMES are published per year each consisting of three parts plus an index.

SUBSCRIPTIONS may be sent to any bookseller or to the Cambridge University Press, 200 Euston Road, London, N.W. 1. Subscriptions in the U.S.A. should be sent to the American Branch of the Press, 32 East 57th Street, New York, N.Y. 10022. The subscription price is £5 net (including postage) for a volume of three parts (\$18.50 in the U.S.A.), payable in advance; Separate parts 40s. or \$7.50 each (plus postage).

NOTES FOR CONTRIBUTORS

CONTRIBUTIONS will be welcomed from scientists of all nationalities, but must be written in English, with an English summary. An additional summary in French, German, Russian or Italian will be accepted. Papers should be sent to the Executive Editor, Dr. E. C. R. Reeve, Institute of Animal Genetics, West Mains Road, Edinburgh 9.

GENERAL. Submission of a paper will be taken to imply that it is unpublished and is not being considered for publication elsewhere. Papers published in *Genetical Research* may not be reprinted or published in translation without permission from the Editorial Board. Papers should be as concise as clarity permits, and illustrations kept as few as possible.

SHORT PAPERS. This category is designed for concisely written reports of work for which rapid publication is considered desirable. Such papers will normally be published within three months of receipt in acceptable form. They should not exceed 6 pages of print in length.

TYPESCRIPTS. A top copy and one carbon copy should be submitted. They should be typed with double-spacing, on one side of the paper, leaving margins of about $1\frac{1}{2}$ inches at the left-hand side and head of each sheet. Quarto is preferred to foolscap paper. Heavily corrected typescripts may have to be returned to the author for retyping. Papers should state the name and address of the author (or his proxy) to whom proofs are to be sent. The address of the laboratory at which the work was carried out will be printed with the authors' names at the head of the paper, and changes of address and sources of financial support may be added in footnotes.

A short title should be supplied for running headlines; this must not exceed 50 characters, counting each letter and space as one character.

(continued inside back of cover)

JOURNAL OF REPRODUCTION AND FERTILITY

Volume 12, No. 1, August 1966

is now available This issue is inscribed in honour of

PROFESSOR BERNHARD ZONDEK

on the occasion of his 75th birthday.

In addition to the usual material it contains an account of an interview, reviews of the present position in fields opened up by Zondek and original clinical papers by his colleagues. This special material is as follows:

- M. FINKELSTEIN. Professor Bernhard Zondek. An interview
- J. A. LORAINE. Assays of human chorionic gonadotrophin in relation to clinical practice. Review

B. M. HOBSON. Pregnancy diagnosis. Review

- C. A. GEMZELL, P. ROOS and F. E. LOEFFLER. The clinical use of pituitary gonadotrophins in women. Review
- W. VELLE. Urinary oestrogens in the male. Review
- Z. KOREN, Y. PFEIFER and F. G. SULMAN. Induction of legal abortion by intrauterine instillation of pargyline hydrochloride (Eutonyl)
- R. TOAFF, D. AYALON and D. NELKEN. Blood group antibody titres in homospecific and heterospecific pregnancies

B. ECKERLING, S. FRIEDMAN and P. CZERNIAK. The spermatogenetic activity test in male sterility investigation

- A. LAUFER, W. Z. POLISHUK, J. BOXER and R. GANZFRIED. Studies of amniotic membranes
- S. WEIDENFELD, D. SERR and M. FINKELSTEIN. Effect of 17a-ethynyl-19-nortestosterone on the urinary excretion of oestrone, oestradiol- 17β and oestriol and of pregnanetriol in normal menstruating women and in oophorectomized patients
- S. ROZIN, M. SALZBERGER, S. DICKSTEIN and M. SACKS. Inhibition of ovulation with sequence hormone therapy

235 pages, price 45/- net

Editorial correspondence should be sent to the Executive Editor, Journal of Reproduction and Fertility, 8 Jesus Lane, Cambridge, England, and business correspondence to the publishers.

The subscription rate for 1966 is £6 per volume or £12 per year (two volumes). U.S.A. and Canada \$20.00 per volume or \$40.00 per year.

BLACKWELL SCIENTIFIC PUBLICATIONS 5 ALFRED STREET, OXFORD

COMMONWEALTH BUREAU OF PLANT BREEDING AND GENETICS

SCHOOL OF AGRICULTURE, CAMBRIDGE, ENGLAND

Information on all topics concerned with the improvement of economic plants and microorganisms, in particular the methods and achievements of crop breeding, field trials, new varieties and strains, genetics and cytology, is given regularly in the journal

PLANT BREEDING ABSTRACTS

COMPILED FROM WORLD LITERATURE

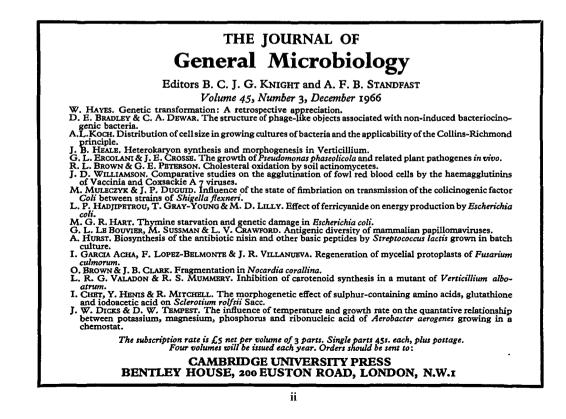
Each volume contains over seven thousand abstracts from articles and reports in thirty to forty different languages, also reviews of new books and notices of new journals

ANNUAL SUBSCRIPTION:

Rate to subscribers in Non-Contributing Countries 210s. (\$31.50) Rate to subscribers in Contributing Countries 110s. per volume (including indexes)

Order through booksellers or to

COMMONWEALTH AGRICULTURAL BUREAUX CENTRAL SALES BRANCH, FARNHAM ROYAL, SLOUGH, ENGLAND



GENETICA AGRARIA

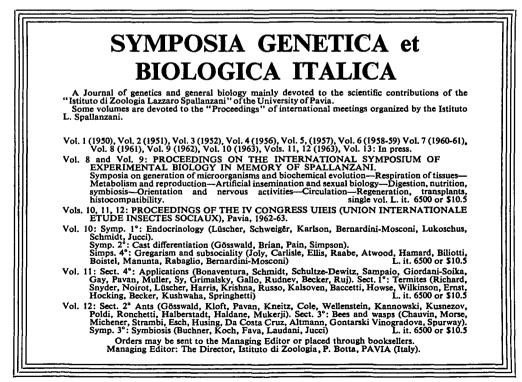
A Journal of "Genetics applied to Agriculture" edited by the Istituto di Zoologia of the University of Pavia.

The Journal is issued four times a year. Price per volume of about 400 pages: from Vol. IX°, Lit. 5,000 or \$8.5; from Vol. XV°, Lit. 6.500 or \$10.5.

Miscellancous papers, proceedings of special meetings and the Proceedings of the Annual Meeting of the SIGA are published:

- Vol. XVI°; 1963, n. 1-4: Proceedings of the VIII° Meeting of the SIGA (continued) and miscellaneous contributions.
- Vol. XVII°; 1963, n. 1-4: Proceedings of the FAO Meeting on: "Plant exploration and introduction", Rome 1961, edited by Julén.
- Vol. XVIII°; 1964, n. 1-2; 3: Proceedings of the IX° Meeting of the SIGA (Palermo 1963) n. 4: miscellaneous papers.
- Vol. XIX°; 1965: Proceedings of the X° Meeting of the SIGA (Rieti 1964) and miscellaneous papers.
- Vol. XX°; 1966: Proceedings of the XI° Meeting of the SIGA (Perugia 1966) and miscellaneous papers (in press).

Orders may be sent to the Managing Editor or placed through booksellers. Managing Editor: The Director, Istituto di Zoologia, P. Botta, PAVIA (Italy).



FULL PARTICULARS OF THE

JOURNALS

PUBLISHED BY THE

CAMBRIDGE UNIVERSITY PRESS

MAY BE HAD FROM

THE MANAGER

CAMBRIDGE UNIVERSITY PRESS

Bentley House

200 Euston Road, London, N.W.1





Eugenics Laboratory Memoir

Chromosome Studies on Adults

W. M. COURT BROWN, KARIN E. BUCKTON, PATRICIA A. JACOBS, ISHBEL M. TOUGH, E. V. KUENSSBERG, and J. D. E. KNOX

This memoir reports the first major attempt to study human karyotype variations in a random sample. The results, of great value to workers in human cytogenetics, indicate the degree of polymorphism expected in a normal population which must be taken into account when assessing the significance of specific aberrations.

32s. 6d. net

CAMBRIDGE UNIVERSITY PRESS

JOURNAL OF GENETICS Contents of Volume 59, No. 3, 1966 R. K. SHARMA and S. S. PRABHU. Variations in conception rates due to sires in six breeds of Zebu cattle. DAVID A. HUNGERFORD and H. SHARAT CHANDRA. Further studies of a kindred having an aberrant autosome (13-15) without apparent phenotypic effect. P. MAYURA DEVI and M. HASHIM. Homostyly in heterostyled Biophytum sensitivum DC. S. N. SEN. Selection in a mixed population subjected to apartheid. PREM NARAIN. Homozygosity in a selfed population with an arbitrary number of linked loci. BIR BAHADUR. Heterostyly in Oldenlandia scopulorum Bull. L. M. COOK and A. C. E. HOLT. Mutagenic activity in Drosophila of two pyrrolizidine alkaloids. R. K. MISRA. Intra- and inter-specific competition in two sibling species of Drosophila, D. melanogaster and D. simulans. II. Inheritance of body-size and correlated responses in fecundity and fertility of D. simulans. S. I. ALIRHANIAN, C. N. GRIHBERG, V. N. KRYLOV, A. N. MAISOURIAN and M. G. OGANESIAN. The temperature sensitive (TS) mutations of the bacteriophage T4 B. T. A. DAVIS. Floral structure and stamens in Bombax ceiba L. P. K. CHATTOPADHYAY. Inheritance of hairy pinna of the ear. Subscription for a volume is Rs. 551- (\$15 in U.S.A., Canada and other hard currency areas, and 855. in other countries) post free Order through your bookseller or from JOURNAL OF GENETICS, Bhubaneswar-3, Orissa, India. iv