

Volume 36, No. 1, August 1980

GENR8 36 (No. 1) 1-115 (1980) 0016-6723

GENETICAL RESEARCH



CAMBRIDGE UNIVERSITY PRESS

GENETICAL RESEARCH

EXECUTIVE EDITOR
ERIC C. R. REEVE

ASSISTANT EXECUTIVE EDITOR
NEIL S. WILLETTS

EDITORIAL BOARD

Charlotte Auerbach,
Institute of Animal Genetics,
West Mains Road,
Edinburgh EH9 3JN

Arthur Chovnick,
Department of Genetics and
Cell Biology,
University of Connecticut,
Box U-131, Storrs,
Connecticut 06268, U.S.A.

David J. Finnegan,
Department of Molecular
Biology,
University of Edinburgh,
Edinburgh EH9 3JR

William Hayes,
Department of Genetics,
Research School of Biological
Sciences,
Australian National University,
PO Box 475,
Canberra, ACT,
Australia 2601

Bruce W. Holloway,
Department of Genetics,
Monash University,
Clayton, Victoria,
Australia 3168

David Ish-Horowicz,
Imperial Cancer Research Fund, Mill Hill Laboratories,
Burtonhole Lane,
London NW7 1AD

Mary F. Lyon,
MRC Radiobiology Unit,
Harwell,
Didcot, Oxon OX11 0RD

Anne McLaren,
MRC Mammalian Development
Unit,
University College London,
4 Stephenson Way,
London NW1 2HE

Mark van Montagu,
Laboratorium voor Histologie
en Genetika,
Rijksuniversiteit Gent,
Ledeganekstraat 35, B-9000
Gent, Belgium

Rolf Nöthiger,
Zoologisches Institut der
Universität Zürich,
Winterthurerstrasse 190,
CH-8057 Zürich, Switzerland

John Paul,
Wolfson Laboratory for
Molecular Pathology,
Beatson Institute for Cancer
Research,
Bearsden, Glasgow G61 1BD

William J. Peacock,
Division of Plant Industry,
CSIRO, PO Box 1600,
Canberra City, ACT,
Australia 2601

Peter A. Peterson,
Department of Agronomy,
Iowa State University,
Ames, Iowa 50011, U.S.A.

Robert H. Pritchard,
Department of Genetics,
University of Leicester,
Leicester LE1 7RH

Ralph Riley,
Agricultural Research Council,
160 Great Portland Street,
London W1N 6DT

Alan Robertson,
Institute of Animal Genetics,
West Mains Road,
Edinburgh EH9 3JN

© Cambridge University Press 1980

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 indicated in the code on the first page of the article. This consent does not extend to multiple copying for promotional or commercial purposes.

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.

[continued on p. iii of cover

NOTES TO CONTRIBUTORS

GENETICAL RESEARCH publishes original work on all aspects of genetics, or in any field of research which has an important bearing on genetics. Reviews of topical interest will also be considered. Papers will be submitted to referees, and will generally be printed in order of acceptance. Short papers (see below) will be given priority in publication.

CONTRIBUTIONS are welcomed from scientists of all nationalities, but must be written in English, with an English summary. Papers should be sent to the Executive Editor, Dr E. C. R. Reeve, Institute of Animal Genetics, West Mains Road, Edinburgh EH9 3JN, or to a member of the Editorial Board with a particular interest in that area of genetics. Submission of a paper will be taken to imply that it is unpublished and is not being considered for publication elsewhere. Papers should be as concise as clarity permits, and illustrations should be restricted to the *minimum needed*.

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, and should normally include a summary.

TYPESCRIPTS A top copy and one other copy should be submitted. The top copy should be typed with double-spacing on one side of good quality paper, leaving margins of about 1½ inches at the left-hand side, and at the top and bottom of each sheet. Both copies should include a complete set of illustrations. The title should ordinarily identify the organism. 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 may be added in footnotes. Sources of financial support should be included with other acknowledgements at the end of the text. The title page of the typescript should include a short title for running headlines (limited to 50 letters and spaces), and the name and address of the author (or his proxy) to whom the proofs are to be sent, under the heading: *Proofs to be sent to...* Main headings should be typed in capitals and (except summary and references) numbered consecutively. Subheadings should be typed in lower case, and underlined except for those words and symbols which would be italicized in the text. Subheadings should be numbered (i), (ii), etc., within each main heading.

SUMMARY The summary will be printed at the beginning of the paper. It should give a concise abstract of the significant content and conclusions of the paper, in a form suitable for abstracting journals to use, and should not exceed 250 words.

ILLUSTRATIONS *Plates* should be supplied as unmounted glossy prints; any lettering to be inserted on them is best indicated on a separate sketch. Plates will be printed by half-tone process on glossy paper, and authors should clearly mark illustrations for which this is necessary. *Diagrams* should be about twice the size of the printed figure, but not larger than 12 × 8 inches, unless exceptionally complicated, and the thickness of lines and size of points should be determined accordingly. They must be drawn in indian ink on white Bristol-board, tracing linen or graph paper ruled in pale blue (but not other colours). *Lettering* should be lightly inserted *in soft pencil only*, so that the printer can put in the finished lettering. Legends to illustrations must be given on a separate sheet of paper. Each illustration must have the name of the author and figure number pencilled on the back. Plates and figures should be numbered separately and their approximate position indicated on the typescript.

TABLES Each table should be typed on a separate sheet of paper and its approximate position in the text indicated on the typescript. Each should be numbered and carry an

appropriate title. The table should be designed, whenever possible, to be printed in the normal orientation of the text. The data should be grouped so as to make the use of rules unnecessary. Vertical rules, in particular, are expensive to print, and will only be included at the Editor's discretion. Table footnotes should ordinarily employ the symbols *, †, §, ||, ¶, **, etc., in that order.

SYMBOLS Gene and mathematical symbols should generally be printed in italics. Please underline those to be italicized when they appear in the text and tables. Bold letters add to printing costs and should only be used where they are necessary to avoid confusion. The author must assume responsibility for the accurate printing of complex mathematical formulae submitted in typewritten form, by differentiating between letters and numbers which are open to misinterpretation, and identifying all Greek, Hebrew and script letters by means of marginal notes at their first appearance. Note that Greek symbols cannot be italicized and that ' + ' as the symbol for a wild-type allele should not be italicized.

NOMENCLATURE Wherever possible, standardized nomenclature should be employed. The author should refer to the following publications for guidance: Novick et al. (*Bacteriological Reviews* 40, 168–189) for plasmids; Bachman & Low (*Microbiological Reviews* 44, 1–56) for *E. coli*; Sanderson & Hartman (*Microbiological Reviews* 42, 471–519) for *Salmonella typhimurium*; Henner & Hoch (*Microbiological Reviews* 44, 57–82) for *Bacillus subtilis*; Clutterbuck (in *Handbook of Genetics*, I, ed. R. C. King, Plenum Press, N.Y. 1974, pp. 447–510) for *Aspergillus nidulans*; *Neurospora Newsletter* No. 25 (June 1978) for *Neurospora* sp.; Neuffer & Coe, Jr. (in *Handbook of Genetics*, II, ed. R. C. King, Plenum Press, N.Y. 1975, pp. 3–30) for Maize; Lindsley & Grell (*Genetic variations of Drosophila melanogaster*, Carnegie Institute of Washington, 1968) for *Drosophila melanogaster*; Lyon (*Mouse News Letter* (1979) 61, pp. 4–16) for the mouse.

SPELLING should follow the Concise Oxford Dictionary.

REFERENCES should follow the normal usage in the journal. In the list of references at the end of the paper, both titles of articles and names of periodicals should be written out in full.

PROOFS Two sets of single-sided page proofs, together with the typescript, of each paper will be sent to the author. The printers' marked proof should be returned after correction to the Executive Editor, together with the typescript. Excessive alterations, other than corrections of printers' errors, may be disallowed or charged to the author. Correction should be made using the symbols in British Standard 1219: 1958, or its shortened version B.S. 1219C: 1958.

OFFPRINTS Fifty offprints of each paper, or short paper, are provided free of charge. Additional offprints may be ordered in the form sent out with proofs, provided this is returned within fourteen days of receipt.