

Volume 43, No. 3, June 1984

GENR43 (No. 3) 229-351 (1984) 0016-6723

DR. REEVE

# GENETICAL RESEARCH



**CAMBRIDGE UNIVERSITY PRESS**

# GENETICAL RESEARCH

EXECUTIVE EDITOR

ERIC C. R. REEVE

ASSISTANT EXECUTIVE EDITORS

DAVID J. FINNEGAN

TRUDY F. C. MACKAY

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.

**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,  
Ledeganckstraat 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

**Neil S. Willetts,**

Biotechnology Australia PTY. Ltd.,  
P.O. Box N109,  
Petersham North,  
N.S.W. 2049, Australia

© Cambridge University Press 1984

[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. 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 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. Numeral 1 and letter el: if your typewriter uses one symbol for both, please make clear to the Printer which is intended formulae, gene symbols, etc.

**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.

**GENETICAL RESEARCH** (ISSN 0016–6723) is published once every two months. Single parts £13.00 net (in U.S.A. and Canada US \$33.50), plus postage. Three parts form a volume. The subscription price of volumes 41 and 42, 1983 (which includes postage) is £31.50 net per volume (in U.S.A. and Canada US \$79.75).

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 *Genetical Research*, 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.