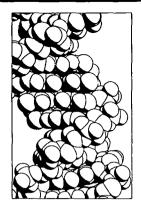
# THE OURNAL



An authoritative international journal published monthly for the European Molecular Biology Organisation

- Manuscripts typeset and published within 12 weeks of acceptance
- Large American quarto format with papers printed on high quality artpaper
- No page charges
- Issues mailed by air to all non-European subscribers
- Reduced subscription rates for individuals
- Listed in Current Contents/Life Sciences

The EMBO Journal is published monthly for the European Molecular Biology Organization and provides rapid publication for reports of significant original research in molecular biology and related areas. More specifically, papers cover biochemistry, cell and developmental biology, molecular genetics of eukaryotes, prokaryotes and organelles, methodology, immunology, structural biology, neurobiology and virology. Only research reports of the highest quality are published and access to the journal is essential for molecular biologists everywhere.

### A free sample copy, containing full 'instructions to authors', is available on request

Editor in Chief B. Hirt, Chairman of EMBO Council Executive Editor John Tooze, Executive Secretary of EMBO **Editorial Board** 

W. Arber, Basel/G. Bernardi, Paris/M. Birnstiel, Zurich/P. Borst, Amsterdam/C.-l. Branden, Uppsala/M. Bretscher, Cambridge/M, Brunori, Rome/H, Buc, Paris/H, Bujard, Heidelberg/P. Chambon, Strasbourg/J.-P. Changeux, Paris/B.F.C., Clark, Aarhus/H. Diggelmann, Lausanne/B. Dobberstein, EMBL, Heidelberg/J.-P. Ebel, Strasbourg/W. Fiers, Ghent/A. Garcia-Bellido, Madrid/W. Gehring, Basel/D. Givol, Rehovot/B. Griffin, London/H. Gutfreund, Bristol/C. Hélène, Orléans/R. Henderson, Cambridge/K. Illmensee, Geneva/A. Klug, Cambridge/C.G. Kurland, Uppsala/M. Lazdunski, Nice/F. Melchers, Basel/B. Miledi, London/J. Miller, Geneva/D. Oesterhelt, Martinsried/L. Philipson, EMBL, Heidelberg/T. Rabbitts, Cambridge/M. Raff, London/K. Rajewsky, Köln/P. Reichard, Stockholm/C. Saccone, Bari/G. Schatz, Basel/J. Schell, Köln/K. Simons, EMBL, Heidelberg/A. Smith, London/P. Starlinger, Köln/G. Tocchini-Valentini, Rome/K. Weber, Göttingen/C. Weissman, Zürich/D. von Wettstein, Copenhagen/E. Winocour, Rehovot

Subscription rates for Volume 2 (12 issues in 1983): libraries £155.00/US\$310.00; individuals whose library subscribes £45.00/US\$90.00; EMBO members £40.00/US\$80.00 IRL Press, PO Box 1, Eynsham, Oxford OX8 1JJ, UK

IRL Press, Suite 907, 1911 Jefferson Davis Highway, Arlington, VA 22202, USA

#### ○ IRL PRESS

# 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 \$05.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0016-6723/83/2828-0001 \$05.00.

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

VOLUME 42, NUMBER 1, AUGUST 1983

## CONTENTS

CHARLESWORTH, BRIAN and CHARLESWORTH, DEBORAH. The population dynamics of transposable elements	page 1
LOUTIT, J. F. and CATTANACH, B. M. Haematopoietic role for Patch $(Ph)$ revealed by new $W$ mutant $(W^d)$ in mice	29
SHINNICK, T. M., ANDERSON, R. W. and HOLT, C. E. Map and function of gad mutations in Physarum polycephalum	41
MOSCOSO DEL PRADO, JAIME and RIPOLL, PEDRO. Cytological location and lethal interactions of three Minute loci in chromosome 3 of <i>Drosophila melanogaster</i>	59
CHEVERUD, JAMES M., LEAMY, LARRY J., ATCHLEY, WILLIAM R. and RUTLEDGE, J. J. Quantitative genetics and the evolution of ontogeny. I. Ontogenetic changes in quantitative genetic variance components in randombred mice	65
McMahon, andy. Oocyte specific regulation of PGK-1 isozyme activity in female germ cells of the mouse	77
OGDEN, JILL E. and GRINDLE, MORRIS. Changes in genetic constitution and sterol composition during growth of nystatin-resistant heterokaryons of Neurospora crassa	91
SHORT PAPER	
COLGAN, D. J. Bar reversion and hybrid dysgenesis in <i>Drosophila melanogaster</i> : reversion in males and in inversions	105
BOOK REVIEWS	111
BOOKS RECEIVED	115

© Cambridge University Press 1983

#### CAMBRIDGE UNIVERSITY PRESS

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