

bring yourself up-to-date with

## The Cambridge Guide to the Material World

Rodney Cotterill's *The Cambridge Guide to the Material World* provides a unique single-volume introduction to the materials found on this planet, both organic and inorganic.

The opening sections are devoted to such fundamental topics as the nature of the atom, the structure of molecules and the common states of matter. There then follow chapters on specific classes of material, notably ceramics, glasses, metals, conductors and insulators, liquid crystals, and



natural and synthetic polymers. Minerals, water and the living cell are considered in detail and the book concludes with a characteristically lucid discussion of the molecular structure of plant and animal life. Each chapter is packed with fascinating examples and analogies, and closes with a useful summary of what has gone before.

\* Numerous full colour photographs and illustrations

- Text and illustrations carefully integrated to ensure maximum clarity and readability
- Topics requiring special attention prominently highlighted in display panels

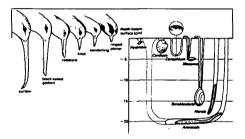
297 x 210 mm 352 pp. 190 illustrations including 90 in full colour and 30 in two colours 0 521 24640 7 £17.50 net

#### CAMBRIDGE UNIVERSITY PRESS The Edinburgh Building, Shaftesbury Road, Cambridge CB2 2RU, England

Genetical Research, 46, 1

## **CAMBRIDGE** EXTENDS YOUR BIOLOGICAL KNOWLEDGE! The Cambridge Encyclopedia of

Life Sciences Edited by ADRIAN FRIDAY and DAVID S. INGRAM

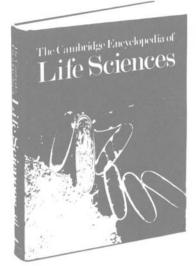


This carefully planned encyclopedia encapsulates the entire world of nature. It delves deep into the microscopic world of cells and simple organisms, and then, in the light of recent research, it explores the animals, plants and environments with which we are more familiar. The final chapters discuss the current debates on evolution and the origin of the human species.

The Cambridge Encyclopedia of LifeSciences will prove invaluable to you as areference book.\$25.00 net

#### **CONTENTS**

Contributors: Foreword J. E. Treherne: Introduction: Part One Processes and organisation: The Cell: The Organism: Genetics: Behaviour and Sociobiology: Ecology: Part Two Environments: Biogeographical Zones: Marine Environments: Coastal Environments: Terrestrial Environments: Freshwater and Wetland Environments: Living Organisms as Environments: Part Three Evolution



- ★ lavishly illustrated with specially prepared diagrams and drawings and a superb selection of colourful photographs
- ★ classification scheme for living organisms
- $\star$  lists for further reading
- ★ many learned contributors

and the fossil record: The Evolutionary Process: Palaeontology: Early Events in Evolution: Origin and Development of the Land Flora and Fauna: Recent History of the Fauna and Flora: A Classification of Living Organisms: Acknowledgements: Species index: Subject index.

Available from all good booksellers For further details please fill in the coupon and return it to Annette Duggan, Science Publicity at the address below.

Please send me further details and a free colour brochure for: <i>Cambridge Encyclopedia of Life Sciences</i>
Name
Address

### l Cambridge University Press

The Edinburgh Building, Shaftesbury Road, Cambridge CB2 2RU, England

#### Copying

This journal is registered with the Copyright Clearance Center, 21 Congress St., Salem, Mass. 01970. Organizations in the USA who are also registered with the C.C.C. may therefore copy material (beyond the limits permitted by sections 107 and 108 of US 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 0016-6723/85/2828-0001 \$05.00.

ISI Tear Service, 3501 Market Street, Philadelphia, Pennsylvania 19104, USA 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.

#### Continued from back cover

GARCÍA-DORADO, AURORA and LOPEZ-FANJUL, CARLOS. Optimum selection strategies: studies with <i>Drosophila melanogaster</i>	page	101
TAKAHATA, NAOYUKI. Gene diversity in finite populations		105
BOOK REVIEWS		115
BOOKS RECEIVED		123

# GENETICAL RESEARCH

#### VOLUME 46, NUMBER 1, AUGUST 1985

#### CONTENTS

TAKAHASHI, MIHOKO, HAGA, NOBUYUKI, HENNESSEY, TODD,	
HINRICHSEN, ROBERT D. and HARA, RITSUO. A gamma	
ray-induced non-excitable membrane mutant in Paramecium	
caudatum: a behavioural and genetic analysis	page 1
JACKSON, ELIZABETH A., HOLT, LINDA M. and PAYNE, PETER I. Glu-B2, a storage protein locus controlling the D group of LMW	
glutenin subunits in bread wheat (Triticum aestivum)	11
PRASAD-SINHA, JAYASHREE and MUKHERJEE, A. S. Cellular autonomy of hyperactivity in segmental X chromosomal	
aneuploids of <i>Drosophila</i> and dosage compensation	19
RIPOLL, PEDRO and KENNISON, JAMES A. Cell autonomy of two	
DNA-repair mutations in Drosophila melanogaster	31
WEST, JOHN D. and FISHER, GRAHAM. Inherited cataracts in inbred mice	45
	40
BISHOP, S. C. and HILL, W. G. Effects of selection on growth, body composition, and food intake in mice. III. Correlated responses: growth, body composition, food intake and efficiency and	
catabolism	57
ISHII, KAZUSHIGE and MATSUDA, HIROTSUGU. Extension of the Haldane–Muller principle of mutation load with application for	
estimating a possible range of relative evolution rate	75
MIKAMI, HITOSHI and ONISHI, AKIRA. 'Heterosis' in litter size of chimaeric mice	85
LYON, MARY F., FISHER, G. and GLENISTER, P. H. A recessive allele of the mouse agouti locus showing lethality with yellow, $A^{y}$	95
	00.00

Continued inside back cover

© Cambridge University Press 1985

#### CAMBRIDGE UNIVERSITY PRESS

The Pitt Building, Trumpington Street, Cambridge CB2 1RP 32 East 57th Street, New York, NY 10022, USA 10 Stamford Road, Oakleigh, Melbourne 3166, Australia

Printed in Great Britain by the University Press, Cambridge

https://doi.org/10.1017/S0016672300022394 Published online by Cambridge University Press