

NEW FROM BUTTERWORTHS

Eukaryotic Genes: Their Structure, Activity and Regulation

Edited by N Maclean, S P Gregory and R A Flavell

The past few years have proved to be a period of immense revolution in genetics. This lucid and well illustrated account distils the vast amount of information on genes and gene structure into a relatively condensed format. The major part of the book gives in-depth consideration to the structure, activity and regulation of the most notable eukaryotic genes. The preceding sections cover chromatin and chromosome structure. The contributors have been chosen from among the leading authorities world-wide and a uniform approach adopted in each chapter. Geneticists, biologists and biochemists will find this an invaluable reference work.

Contents: Gene regulation • The organization of chromosomes • Experimental approaches • Expression of specific genes • Plant genes • Index

December 1983 *Illustrated* *Hardcover* 440 pages 0 408 10824 X £48.00

A leaflet giving full details of this title is available from the Sales Administration Department at the address below



Butterworths Borough Green, Sevenoaks, Kent TN15 8PH

BIOSCIENCE REPORTS

Short Papers and
Reviews in
Molecular and
Cellular Biology

Volume 3 in 1983

Short papers
and reviews —
f-a-s-t

Authors usually receive a response to a submitted paper in 2-3 weeks, and publication follows in about 2 months.

Honorary Advisory Editors

A Kornberg, Stanford
R R Porter, Oxford
F Sanger, Cambridge

Manuscripts (submitted by authors direct to a member of the Board of Editors) after acceptance are typeset on a word processor and are printed on glossy paper for high-quality reproduction of half-tones.

Board of Editors

C A Pasternak (Chairman), London
William J Lennarz (Deputy Chairman), Baltimore

R A Bradshaw, Irvine	E Lazarides, Pasadena
W J Brammar, Leicester	H J Müller-Eberhard, La Jolla
G H Dixon, Calgary	V Mutt, Stockholm
R F Doolittle, La Jolla	A Peterkofsky, Bethesda
A A Eddy, Manchester	K A Piez, Palo Alto
D M Engelman, New Haven	P-P Slonimski, Gif-sur-Yvette
J R Griffiths, London	R J P Williams, Oxford
F W Hemming, Nottingham	A R Williamson, Greenford
H-D Klenk, Giessen	

Subscriptions (annual rate £95.00/US\$215.00, 12 issues):
The Biochemical Society Book Depot, PO Box 32, Commerce Way, Colchester CO2 8HP, Essex, UK

For other details:
Ms Suzanne Miller, Editorial Secretary, Bioscience Reports, Department of Biochemistry, St George's Hospital Medical School, Cranmer Terrace, London SW17 0RE, UK (Tel 01-672 1255 X5010)
Professor William J Lennarz, Department of Physiological Chemistry, School of Medicine, The Johns Hopkins University, Baltimore, MD 21205, USA (Tel (301) 955-3818)

BIOTECHNOLOGY

Edited by C. F. PHELPS
and P. H. CLARKE

The fourteen contributions forming this volume were presented at a London meeting of the Biochemical Society including the Society's Forty-Eighth Symposium 'Biotechnology', in December 1982. With today's increasing pressures to develop latest laboratory findings into practical industrial processes as quickly as possible the chosen theme of this Symposium was a timely one. The papers represent up-to-date reports from international biochemists whose work is of direct relevance to the wide areas of interests concerned with biotechnology, together with glimpses of the early development of its techniques and a look at its exciting future.

List of contents and authors:

Preface. How Biotechnology Developed at University College London by **E. M. Crook**. *The Future of Biotechnology* by **P. Dunnill**. *Carbohydrate Transformations by Immobilized Cells* by **C. Bucke**. *Biological Halogenation and Epoxidation* by **S. L. Neidleman & J. Geigert**. *High-Productivity Alcohol Fermentations using Zymomonas mobilis* by **M. L. Skotnicki, R. G. Warr, A. E. Goodman, K. J. Lee & P. L. Rogers**. *The Problem of Lignin Biodegradation* by **L. Wallace, A. Paterson, A. McCarthy, U. Raeder, L. Ramsey, M. MacDonald, R. Haylock & P. Broda**. *Special Bacterial Polysaccharides and Polysaccharases* by **T. Harada**. *A New Era of Exploitation of Microbial Metabolites* by **A. L. Demain**. *Industrial Prospects for Thermophiles and Thermophilic Enzymes* by **B. S. Hartley & M. A. Payton**. *Anaerobic Fermentations – Some New Possibilities* by **J. G. Morris**. *Xenobiotic Degradation in Industrial Sewage: Haloaromatics as Target Substrates* by **H. J. Knackmuss**. *Genetic Analysis and Manipulation of Catabolic Pathways in Pseudomonas* by **P. R. Lehrbach & K. N. Timmis**. *Plant Cell Cloning and Culture Products* by **L. H. Jones**. *A Hybrid Promoter and Portable Shine–Dalgarno Regions of Escherichia coli* by **H. A. De Boer, L. J. Comstock, A. Hui, E. Wong & M. Vasser**. *Subject Index*.

257 pp. ISBN 0 904498 15 8 £25.00 (US \$57.50)

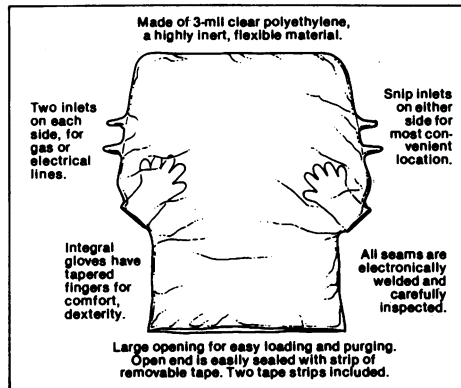


Order from
THE BIOCHEMICAL SOCIETY BOOK DEPOT
PO Box 32, Commerce Way, Colchester CO2 8HP, Essex, U.K.

Create a controlled-atmosphere system with the ethylene-oxide-treated Aldrich AtmosBag™

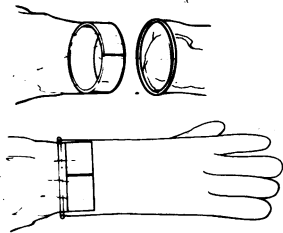
The popular AtmosBag™, a polyethylene bag which can be sealed, purged, and inflated with an appropriate gas, has proven to be a convenient and inexpensive alternative to the glove box for handling air- and moisture-sensitive and toxic* reagents. With the ethylene-oxide-treated AtmosBag, the versatility may be extended to biological experiments including controlled habitat, immunological studies, and microbiological incubations.

Size	Dimensions when uninflated (in.)			Ethylene-oxide-treated		Untreated	
	W	L		Cat. No.	Price	Cat. No.	Price
L	36	51	58	Z11,835-4	\$25.00	Z10,608-9	\$23.00
M	24	39	48	Z11,836-2	\$20.40	Z11,282-8	\$18.40
S	12	27	30	Z11,837-0	\$15.80	Z11,283-6	\$13.80



Select-a-glove AtmosBag

Equipped with rings instead of gloves, this AtmosBag enables one to use the gloves of choice by simply taping the gloves onto the rings (1 1/2" wide, 3 1/2" diam.).



For example, one can use surgical gloves for better feel or Viton gloves for greater protection. NBR rubber, premium white rubber, and neoprene gloves may also be used.

Z11,284-4 Gloveless AtmosBag (L)
\$27.60

Four-Hand AtmosBag

This AtmosBag has four built-in gloves and is slightly smaller than the large two-hand AtmosBag. It is completely symmetrical and is designed so that cutting off the sealed end enables attachment of AtmosBags in series, using semi-rigid ring connectors. It also enables construction of an air-lock, using the AtmosBag divider.

Z10,840-5 Four-Hand AtmosBag \$27.50
Z10,852-9 AtmosBag Connector \$4.00
Z10,866-9 AtmosBag Divider \$7.50

Accessories

Floor Base. Rigid polyethylene, 1/2" thick. Keeps AtmosBag in place.

L 22 X 32" Z10,691-7 \$40.00
M 20 X 16" Z11,285-2 \$30.00
S 11 X 15" Z11,286-0 \$28.00

Sealing Tape. 3" X 60yd.
Z10,692-5 \$7.50

Glove Liners. White cotton-knit gloves.

Women's Z11,833-8 \$12.00/12pr.
Men's Z11,834-6 \$12.00/12pr.

™Trademark of Aldrich Chemical Co., Inc.

*CAUTION. When handling toxic materials use only in a hood or other controlled system to prevent and protect against exposure in case of leakage. All products made of polyethylene may tear, break or puncture. To assure that air-sensitive materials do not become exposed to air, follow instructions on package; also test and monitor AtmosBag for leaks before and during use.



chemists helping chemists in research & industry

aldrich chemical co.

® P.O. Box 355, Milwaukee, Wisconsin 53201 USA · (414) 273-3850