

Hoppe-Seyler's Zeitschrift für Physiologische Chemie

Begründet 1877 · Fortgeführt von A. Kossel, F. Knoop und K. Thomas

Editors in Chief:

A. BUTENANDT · F. LYNEN · G. WEITZEL

Subscription Rates:

For one volume (12 parts) DM 480,—

Vol. 355 No. 9

Contents

September 1974

Modification of histidine residue in yeast pyruvate kinase by diethylpyrocarbonate
L. Bornmann and B. Hess

Isolation of elastase-like and chymotrypsin-like neutral proteases from human granulocytes
W. Schmidt and K. Havemann

Chemistry and mechanism of new angiotensin II antagonists: 8-C-phenylglycine analogues of [5-isoleucine]angiotensin
H. Wissmann, B. Schoelkens, E. Lindner and R. Geiger

Fluorometric histamine determination in canine plasma under normal conditions, following application of exogenous histamine, and during histamine release by Haemacel
W. Lorenz, H. Barth, M. Thermann, A. Schmal, P. Dormann and I. Niemeyer

An investigation of the microheterogeneity and the subunit structure of carboxylesterases by the quantitative determination of the terminal amino acids
E. Heymann and J. Iglesias

Membranes of glyoxysomes from castor bean endosperm; Further investigations on the membrane bound enzymes of fatty acid degradation and of the glyoxylate cycle
Ch. Bieglmayer, G. Nahler and H. Ruis

Enzymatic cleavage of the N^ε-acetyl protecting group from lysine in proteins (Kunitz trypsin-kallikrein inhibitor) in vitro and in vivo
H. Jering, G. Schorp and H. Tschesche

Binding of calcium ions by amino acids and peptides, especially by poly- α -L-glutamate
W. Dirscherl and H. Dohr

Activity of 8-C-bromo-derivatives of ATP and ADP in the mitochondrial adenine nucleotide translocation system
E. Schlimme and K.-W. Stahl

Excretion of isotopically labeled metabolites of testosterone in the bile of male rats
W.-D. Hetzel, R. Kiehnscherf and W. Staib

Influence of L-ascorbate on the concentrations microsomal cytochrome P-450 and cytochrome b₅ in adrenals, kidneys and spleen of guinea pigs
E. Degkwitz, S. Walsch and M. Dubberstein

Short Communications

Dependence of increased iron absorption by iron-deficient rats on an elutable component of jejunal mucosa
H. Huebers, E. Huebers and W. Rummel

Antamanide protects hepatocytes from phalloidin destruction
H. Faulstich, Th. Wieland, A. Walli and K. Birkmann

The primary structure of a monoclonal immunoglobulin L-chain of κ -type, subgroup IV (Bence-Jones protein Len.). A new subgroup of the κ -type L chain
M. Schneider and N. Hilschmann

Indexed in Current Contents



Walter de Gruyter · Berlin · New York

ADVERTISING RATES

| | |
|--------------------------------|-----|
| Cover and Special Positions | £90 |
| Full Page | £70 |
| Half Page | £40 |
| Quarter Page | £25 |
| Agency Commission | 10% |
| Publisher's Discount | 10% |

All communications regarding advertising matters should be addressed to:

Advertisement Section,
Biochemical Society,
7 Warwick Court,
London WC1R 5DP
Telephone: 01-242 1076
(4 lines)

THE BIOCHEMICAL JOURNAL

The Biochemical Journal Cumulative Indices

Save Research Time

Busy researchers and authors find that these multi-volume indices are invaluable. Where time is money the cost is recovered quickly. Produced as a service to subscribers and priced accordingly.

| Volumes | £ p | U.S.\$ |
|---------|------|--------|
| 21-30 | 0.75 | 2.50 |
| 31-40 | 2.00 | 5.50 |
| 41-65 | 2.75 | 7.50 |
| 66-90 | 3.25 | 9.00 |
| 91-115 | 5.25 | 13.00 |
| 116-130 | 5.50 | 15.00 |

All prices include postage (by surface mail to overseas)

Available from:

The Biochemical Society
(Publications)

PO BOX 32 Commerce Way
Whitehall Industrial Estate
Colchester CO2 8HP Essex

CLINICAL SCIENCE AND MOLECULAR MEDICINE

Formerly *Clinical Science*

EDITORIAL BOARD

For the Biochemical Society

J. A. OWEN, *Deputy Chairman*

B. H. BILLING, A. M. BRECKENRIDGE, C. N. HALES, T. D. R. HOCKADAY,
R. G. HUNTSMAN, G. H. LATHE, J. LIDDELL, I. MACINTYRE,
K. L. MANCHESTER, R. W. E. WATTS

For the Medical Research Society

R. D. COHEN, *Chairman*

G. CUMMING, D. C. FLENLEY, N. F. JONES, D. M. MATTHEWS,
M. E. M. NOBLE, D. K. PETERS, A. POLAK, J. I. S. ROBERTSON,
B. ROBINSON, J. D. M. SLATER

VOL. 47, No. 5

NOVEMBER 1974

CONTENTS

- Neutral protease from the polymorphonuclear leucocytes of human rheumatoid synovial fluid.
By R. H. PRYCE-JONES, J. SAKLATVALA and G. C. WOOD
- Unesterified fatty acids and the binding of tryptophan in human plasma. By G. CURZON,
JUNE FRIEDEL, BHARATI D. KATAMANENI, H. GREENWOOD and M. H. LADER
- Influence of deoxycholic acid feeding on the elimination of cholesterol in normolipaeamic subjects.
By K. EINARSSON, K. HELISTROM and M. KALLNER
- Blood pressure changes produced by kidney cross-transplantation between spontaneously hyper-
tensive rats and normotensive rats. By G. BIANCHI, U. FOX, G. F. DI FRANCESCO, A. M.
GIOVANETTI and D. PAGETTI.
- Vitamin E protection of the liver from paracetamol in the rat. By B. E. WALKER, J. KELLEHER
M. F. DIXON and M. S. LOSOWSKY
- Studies of the peripheral vasodilator response to acute insulin-induced hypoglycaemia in man.
By W. G. MIDDLETON and E. B. FRENCH
- The inhibition of renin secretion by alpha-adrenergic stimulation in the isolated rat kidney. By
R. VANDONGEN and W. S. PEART
- The effects of exogenous parathyroid hormone on plasma and urinary adenosine 3',5'-cyclic
monophosphate in man. By S. TOMLINSON, P. M. BARLING, J. D. M. ALBANO, B. L. BROWN
and J. L. H. O'RIORDAN
- Muscle metabolism during exercise in patients with Parkinson's disease. By S. LANDIN,
L. HAGENFELDT, B. SALTIN and J. WAHREN
- Platelet survival in acute proliferative glomerulonephritis. By J. A. CARRUTHERS, I. RALFS,
T. N. D. GIMLETTE and R. FINN

SHORT COMMUNICATION

Human erythrocyte glutathione reductase and glucose 6-phosphate dehydrogenase activities in
normal subjects and in persons exposed to lead. By J. K. HOWARD

MEDICAL RESEARCH SOCIETY (Meeting on 27 and 28 September 1974)

Demonstrations
Communications

Subscription: £2.00 (\$7.50) per part; £20.00 (\$70.00) per year.

Orders may be placed with your bookseller, or sent direct to the publishers.

BLACKWELL SCIENTIFIC PUBLICATIONS LTD

5 ALFRED STREET, OXFORD OX1 4HB, ENGLAND

**NO HIDDEN EXTRAS
MANY EXTRAS INCLUDED**

Boehringer Mannheim

Benefits

for you

- Confidence through Quality Control – probably the most exacting in the world
- Generics – first class, unequalled
- Efficacy – first competitive especially when related to performance
- Innovation – constant developments through progressive research

A few of our latest examples

| Preparation | Pack Size | Catalogue Number |
|---|-------------------|------------------|
| α -amanitin | 1 mg. | 15063 |
| Colchicine | 2 g. | 15573 |
| Cholesterol esterase | 5 mg. (2.5 ml.) | 15625 |
| 1,N ⁶ Etheno-A-3 : 5-MP | 25 mg. | 15117 |
| Kasugamycin sulphate | 10 g. | 15125 |
| Phospholipase A ₂ (pig pancreas) | 10 mg. (1 ml.) | 15059 |
| Poly (dI). Poly (dC) | 10 O.D. 260 units | 15038 |
| 2'-O-Succinyl-G-3 : 5-MP | 25 mg. | 15123 |
| Thermolysin | 250 mg. | 15060 |

For full details
of biochemicals
please contact:



The Boehringer Corporation (London) Ltd.,
Silchester Road, Silchester, Reading, London W5 2TZ.
Telephone: 01-479-6541 (7 lines) Telex: 934289
In all countries other than Great Britain your
local Boehringer Representative Office.