

it could be the first-released: this means that EP_2 must be a sulphatase B-phenol complex. The inhibition of sulphatase A by sulphate is, on the other hand, linear competitive (ref. 6 and personal communication from Dr. R. G. NICHOLLS) and therefore consistent with the last-released product being sulphate and EP_2 being a sulphosulphatase A. Confirmation of these postulated mechanisms could be obtained by determining the type of inhibition caused by the other product of the arylsulphatase reactions, a phenol (4-nitrocatechol in the present instance). Unfortunately this further information is unavailable because neither sulphatase A nor B is inhibited by 4-nitrocatechol at the highest concentration, 0.6 mM, practicable to use in a spectrophotometric assay.

These results nevertheless show that there is an important difference between the types of reaction catalysed by sulphatases A and B, and it seems that the difference between these enzymes may be more fundamental than has been suggested in the past^{3,7}.

*Department of Physical Biochemistry,
John Curtin School of Medical Research,
Australian National University, Canberra (Australia)*

A. B. ROY

- 1 A. B. ROY, *Biochem. J.*, 57 (1954) 465.
- 2 E. C. WEBB AND P. F. W. MORROW, *Biochem. J.*, 73 (1959) 7.
- 3 E. ALLEN AND A. B. ROY, *Biochim. Biophys. Acta*, 168 (1968) 243.
- 4 G. N. WILKINSON, *Biochem. J.*, 80 (1961) 324.
- 5 W. W. CLELAND, *Biochim. Biophys. Acta*, 67 (1963) 104, 173.
- 6 A. B. ROY, *Biochem. J.*, 55 (1953) 653.
- 7 H. BAUM AND K. S. DODGSON, *Biochem. J.*, 69 (1958) 573.

Received March 24th, 1970

Biochim. Biophys. Acta, 212 (1970) 365-366

TITLES OF RELATED PAPERS IN OTHER SECTIONS

The following papers that have recently appeared in other sections of BIOCHIMICA ET BIOPHYSICA ACTA may be of interest to the readers of this specialized section:

BBA-GENERAL SUBJECTS

- Enzymatic synthesis of glycerol 1-phosphate. Elevation in diabetic and fasted animals, compared with glucose-6-phosphatase and related enzyme activities (BBA 26349)
by M. R. STETTEN (New Brunswick, N.J.) 208 (1970) 394
- Glycogen-bound phosphorylase in *Cryptococcus laurentii* (BBA 26363)
by J. C. SCHULTZ AND H. ANKEL (Milwaukee, Wisc.) 215 (1970) 39
- The *in vivo* effect of vitamin E in experimental porphyria (BBA 26389)
by P. P. NAIR, H. S. MURTY AND N. R. GROSSMAN (Baltimore, Md.) . . . 215 (1970) 112
- The distribution of asparaginase activity in legumes (BBA 26351)
by E. M. LEES AND A. B. BLAKENEY (Sydney) 215 (1970) 145
- Amino-acid oxidase action on D- and L- α,γ -diaminobutyric acid (BBA 23597)
by C. H. CHEN AND R. E. KOEPPE (Stillwater, Okla.) 215 (1970) 184
- Lack of hydroxylation-induced migration with 4-iodophenylalanine (BBA 23598)
by R. E. COUNSELL, P. S. CHAN AND P. A. WEINHOLD (Ann Arbor, Mich.) 215 (1970) 187
- Enzymatic ethanolysis of uridine 5'-monophosphate (BBA 23590)
by J. BUCHOWICZ AND A. LEŚNIEWSKA (Warsaw) 215 (1970) 198

- Increase of NAD glycohydrolase activity and decrease of NAD concentration in rat liver during fasting (BBA 23600)
by M. SHIMOYAMA, M. OHOTA, K. KAKEHI AND I. UEDA (Osaka) 215 (1970) 207
- Influence of biliary stasis on alkaline phosphatase in the small intestine (BBA 21285)
by R. COOK AND F. MOOG (St. Louis, Mo.) 215 (1970) 220
- β -Hydroxylation of tyramine by cockroach hemolymph (BBA 21286)
by C. R. LAKE, R. R. MILLS AND P. C. J. BRUNET (Oxford) 215 (1970) 226
- Synthesis of chicken liver pyruvate holocarboxylase *in vivo* and *in vitro* (BBA 26381)
by M. M. MADAPPALLY AND S. P. MISTRY (Urbana, Ill.) 215 (1970) 316
- Studies on the influence of thiamine on the synthesis of thiamine pyrophosphate-dependent enzymes in *Saccharomyces cerevisiae* (BBA 26383)
by I. WITT AND B. NEUFANG (Freiburg i. Br.) 215 (1970) 323
- Regulation of O-alkylhomoserine-forming enzyme involved in methionine biosynthesis in *Corynebacterium acetophilum* (BBA 26377)
by Y. MUROOKA AND T. HARADA (Osaka) 215 (1970) 333
- Studies on the mechanism of action of calciferol. III. Vitamin D-mediated increase of intestinal brush border alkaline phosphatase activity (BBA 26385)
by A. W. NORMAN, A. K. MIRCHEFF, T. H. ADAMS AND A. SPIELVOGEL (Riverside, Calif.) 215 (1970) 348
- The 220 MHz and 60 MHz ^1H NMR spectra of 5'-deoxyadenosylcobalamin and cobinamide coenzymes (BBA 21288)
by S. A. COCKLE, H. A. O. HILL, R. J. P. WILLIAMS, B. E. MANN AND J. M. PRATT (Oxford, Leeds and Runcorn) 215 (1970) 415

BBA-PROTEIN STRUCTURE

- Gel filtration of nitrogenase from soybean root nodule bacteroids (BBA 35604)
by F. J. BERGERSEN AND G. L. TURNER (Canberra) 214 (1970) 28
- Etude du mode d'action de la peptidase β de levure de brasserie sur la chaîne B d'insuline oxydée (BBA 35607)
par F. FELIX ET D. BRISSIEUX (Paris) 214 (1970) 148
- Pyridoxyl 5-phosphate-lysozyme: Physical studies (BBA 35594)
by J. E. CHURCHICH AND R. IRWIN (Knoxville, Tenn.) 214 (1970) 157
- Variations de la conformation de l'ATP:arginine phosphotransférase (BBA 35598)
par M. F. LANDON, C. ORIOLE ET N. V. THOAI (Paris) 214 (1970) 168
- Some size and charge properties of tomato pectin methylesterase (BBA 35589)
by H. DELINCÉE AND B. J. RADOLA (Karlsruhe) 214 (1970) 178
- Conformational changes of an enzyme protein by low concentration of mercuric ions (BBA 31079)
by K. B. AUGUSTINSSON (Stockholm) 214 (1970) 248

BBA-BIOENERGETICS

- Studies on a cytochrome oxidase actibody. I. Immunochemistry (BBA 45970)
by B. S. MOCHAN, R. W. LANG AND W. B. ELLIOTT (Buffalo, N.Y.) 216 (1970) 96
- Studies on a cytochrome oxidase antibody. II. Inhibition kinetics (BBA 45971)
by B. S. MOCHAN, R. W. LANG AND W. B. ELLIOTT (Buffalo, N.Y.) 216 (1970) 106
- The plastocyanin content of chloroplasts from some higher plants estimated by a sensitive enzymatic assay (BBA 45960)
by M. PLESNIČAR AND D. S. BENDALL (Cambridge) 216 (1970) 192

BBA-LIPIDS & LIPID METABOLISM

- Inhibition of prostaglandin biosynthesis by 8*cis*, 12*trans*, 14*cis*-eicosatrienoic acid and 5*cis*, 8*cis*, 12*trans*, 14*cis*-eicosatetraenoic acid (BBA 55721)
by D. H. NUGTEREN (Vlaardingen/Duiven) 210 (1970) 171
- Properties of the phospholipase D from peanut seeds (BBA 55717)
by M. HELLER AND R. ARAD (Jerusalem) 210 (1970) 276

BBA-BIOMEMBRANES

- The nucleotide phosphohydrolase activity of chick embryo fibroblasts (BBA 75471)
by J. F. PERDUE (Madison, Wisc.) 211 (1970) 184
- Mg^{2+} -dependent (Na^+ + K^+)-stimulated ATPase of human platelets. Properties and inhibition by ADP (BBA 75461)
by J. L. MOAKE, K. AHMED, N. R. BACHUR AND D. E. GUTFREUND (Baltimore, Md.) 211 (1970) 337

Solubilization of guinea pig kidney ($\text{Na}^+ + \text{K}^+$)-ATPase with Lubrol W and Triton X-100
(BBA 75465)

by S. P. BANERJEE, I. L. DWOSH, V. K. KHANNA AND A. K. SEN (Toronto) 211 (1970) 345

BBA-NUCLEIC ACIDS & PROTEIN SYNTHESIS

Preparation and properties of active, insoluble alkaline phosphatase (BBA 96577)

by R. A. ZINGARO AND M. UZIEL (Oak Ridge, Tenn.) 213 (1970) 371

A purification procedure for small amounts of radioactive *Escherichia coli* RNA polymerase
(BBA 93526)

by G. M. IHLE (Cambridge, Mass.) 213 (1970) 525

VOLUME CODING FOR BBA-ENZYMOLGY

BBA is published according to a volume-numbering scheme that embraces all sections of the journal: for 1970 the scheme—covering the volumes 196–224—is to be found on the inside cover of this issue. The seven individual sections are distinguished by a colour code. In addition to the colour code each section is given its own sequential volume numbers. This system runs parallel to the overall BBA scheme: for the ENZYMOLOGY section the correspondence is indicated in the Table below. This issue is therefore BIOCHIMICA ET BIOPHYSICA ACTA, Vol. 212/2 or BBA-ENZYMOLGY E31/2.

Parallel volume coding for BBA-Enzymology

<i>Biochimica et Biophysica Acta</i> Volume No.	<i>Enzymology</i> Volume No.	<i>Biochimica et Biophysica Acta</i> Volume No.	<i>Enzymology</i> Volume No.
Vol. 48/1 + 50/1 } =	E 1 (1961)	Vol. 118 =	E16 (1966)
Vol. 52/1 + 54/1 } =		Vol. 121 =	E17 (1966)
Vol. 56/3 + 59/3 =	E 2 (1962)	Vol. 128 =	E18 (1966)
Vol. 62/2 + 64/1 } =	E 3 (1962)	Vol. 132 =	E19 (1967)
Vol. 65/2 } =		Vol. 139 =	E20 (1967)
Vol. 67 =	E 4 (1963)	Vol. 146 =	E21 (1967)
Vol. 73 =	E 5 (1963)	Vol. 151 =	E22 (1968)
Vol. 77 =	E 6 (1963)	Vol. 159 =	E23 (1968)
Vol. 81 =	E 7 (1964)	Vol. 167 =	E24 (1968)
Vol. 85 =	E 8 (1964)	Vol. 171 =	E25 (1969)
Vol. 89 =	E 9 (1964)	Vol. 178 =	E26 (1969)
Vol. 92 =	E10 (1964)	Vol. 185 =	E27 (1969)
Vol. 96 =	E11 (1965)	Vol. 191 =	E28 (1969)
Vol. 99 =	E12 (1965)	Vol. 198 =	E29 (1970)
Vol. 105 =	E13 (1965)	Vol. 206 =	E30 (1970)
Vol. 110 =	E14 (1965)	Vol. 212 =	E31 (1970)
Vol. 113 =	E15 (1966)	Vol. 220 =	E32 (1970)

A subscription to the ENZYMOLOGY section of BBA for 1970 (4 volumes) is Dfl. 259.20. Supplementary charge for airmailing to U.S.A. and Canada is US\$ 1.80. Back volumes (according to their E numbers) are available: rates will be supplied on request.