

## Molecular Aspects Contents of Volume 149, No. 2, 1975

### FULL PAPERS

	PAGE		PAGE
<b>Proteins</b>			
Affinity chromatography of immobilized actin and myosin. <i>By R. C. Bottomley &amp; I. P. Trayer</i>	365	Higher-plant cyclic nucleotide phosphodiesterases. Resolution, partial purification and properties of three phosphodiesterases from potato tuber. <i>By A. R. Ashton &amp; G. M. Polya</i>	329
The chemistry of the collagen cross-links. The mechanism of stabilization of the reducible intermediate cross-links. <i>By S. P. Robins &amp; A. J. Bailey</i>	381	Unidirectional inhibition and activation of 'malic' enzyme of <i>Solanum tuberosum</i> by meso-tartrate. <i>By K. H. do Nascimento, D. D. Davies &amp; K. D. Patil</i>	349
Stopped-flow fluorescence studies on saccharide binding to lysozyme. <i>By S. E. Halford</i>	411	Effects of anions on a monomeric and a dimeric arginine kinase. <i>By E. O. Anosike &amp; D. C. Watts</i>	387
The distribution and partial characterization of the serum apolipoproteins in the guinea pig. <i>By M. J. Chapman, G. L. Mills &amp; J. H. Ledford</i>	423	The active site of penicillinase from <i>Staphylococcus aureus</i> PC1. Isolation of a specific covalent complex with the substrate quinacillin. <i>By R. Virden, A. F. Bristow &amp; R. H. Pain</i>	397
Physicochemical properties of <i>Planorbis corneus</i> erythrocyruorin. <i>By E. J. Wood &amp; L. J. Mosby</i>	437	Glutamine and asparagine as nitrogen donors for reductant-dependent glutamate synthesis in pea roots. <i>By B. J. Mifflin &amp; P. J. Lea</i>	403
X-ray photoelectron spectra of iron-sulphur proteins. <i>By P. T. Andrews, C. E. Johnson, B. Wallbank, R. Cammack, D. O. Hall &amp; K. K. Rao</i>	471	Kinetic studies on the hydroxylation of <i>p</i> -coumaric acid by spinach-beet phenolase. <i>By R. J. McIntyre &amp; P. F. T. Vaughan</i>	447
<b>Small Molecules</b>			
The reaction of penicillin with proteins. <i>By P. H. Corran &amp; S. G. Waley</i>	357	Studies of the acetylcholinesterase from houseflies ( <i>Musca domestica</i> L.) resistant and susceptible to organophosphorus insecticides. <i>By A. L. Devonshire</i>	463
<b>Enzymology</b>			
The use of the direct linear plot for determining initial velocities. <i>By A. Cornish-Bowden</i>	305	<b>Intermolecular Organization</b>	
Sigmoid curves, non-linear double-reciprocal plots and allosterism. <i>By W. G. Bardsley &amp; R. E. Childs</i>	313	Properties of protein-chlorophyll complexes from pea ( <i>Pisum sativum</i> L.) leaves. The organization of chlorophyll. <i>By B. Scott &amp; R. P. F. Gregory</i>	341

### SHORT COMMUNICATIONS

	PAGE		PAGE
<b>Proteins</b>			
Analysis, by two-dimensional gel electrophoresis, of ribosome crystal proteins. <i>By P. G. Dondi</i>	475	The identification of a peptide in human parotid saliva particularly active in enhancing the glycolytic activity of the salivary microorganisms. <i>By I. B. Holbrook &amp; P. C. Molan</i>	489

	PAGE		PAGE
The amino acid sequence of troponin I from rabbit skeletal muscle.		<b>Enzymology</b>	
By J. M. Wilkinson & R. J. A. Grand	493	Secondary alkylsulphatases in a strain of <i>Comamonas terrigena</i> .	
<b>Carbohydrates</b>		By J. W. Fitzgerald, K. S. Dodgson & G. W. J. Matcham	477
Acetyl groups in cell-wall preparations from higher plants.		Discrimination of antigenic site and thiol-inhibitor-sensitive site of hexokinase isoenzymes.	
By J. S. D. Bacon, A. H. Gordon, E. J. Morris & V. C. Farmer	485	By M. Ouchi & S. Ishibashi	481

## The following papers appeared in the last issue of the Biochemical Journal

### Cellular Aspects Contents of Volume 150, No. 1, 1975

#### FULL PAPERS

	PAGE		PAGE
<b>Biosynthesis and Degradation</b>		The accumulation of aspartate in the presence of ethanol in rat liver.	
The role of intermediates in mitochondrial fatty acid oxidation.		By M. Stubbs & H. A. Krebs	41
By K. K. Stanley & P. K. Tubbs	77	Stimulation of phosphoenolpyruvate carboxykinase (guanosine triphosphate) activity by low concentrations of circulating glucose in perfused rat liver.	
Properties of 5-aminolaevulinate synthetase and its relationship to microsomal mixed-function oxidation in the southern armyworm ( <i>Spodoptera eridania</i> ).		By F. J. Moreno, L. Sánchez-Urrutia, J. M. Medina, F. Sánchez-Medina & F. Mayor	51
By L. B. Brattsten & C. F. Wilkinson	97	Influence of anti-oestrogens on the specific binding <i>in vitro</i> of [ <sup>3</sup> H]oestradiol by cytosol of rat mammary tumours and human breast carcinomata.	
<b>Bioenergetics</b>		By W. Powell-Jones, D. A. Jenner, R. W. Blamey, P. Davies & K. Griffiths	71
<i>Salmonella typhimurium</i> HfrA, a mutant in which adenosine triphosphate can drive amino acid transport but not energy-dependent nicotinamide nucleotide transhydrogenation.		Insulin and glucagon secretion from isolated islets of Langerhans. The effects of calcium ionophores.	
By W. W. Kay & P. D. Bragg	21	By J. P. Ashby & R. N. Speake	89
<b>Subcellular Structures</b>		Activities of citrate synthase, NAD <sup>+</sup> -linked and NADP <sup>+</sup> -linked isocitrate dehydrogenases, glutamate dehydrogenase, aspartate aminotransferase and alanine aminotransferase in nervous tissues from vertebrates and invertebrates.	
Subcellular localization of superoxide dismutase in rat liver.		By P. H. Sugden & E. A. Newsholme	105
By C. Peeters-Joris, A.-M. Vandevoorde & P. Baudhuin	31	The effects of ammonium, inorganic phosphate and potassium ions on the activity of phosphofructokinases from muscle and nervous tissues of vertebrates and invertebrates.	
Surface labelling of human KB cells. Iodination and fractionation of membrane glycoproteins.		By P. H. Sugden & E. A. Newsholme	113
By T. D. Butters & R. C. Hughes	59	Utilization of gluconate by <i>Escherichia coli</i> . A role of adenosine 3':5'-cyclic monophosphate in the induction of gluconate catabolism.	
<b>Cellular Interactions and Control Processes</b>		By B. Bächli & H. L. Kornberg	123
Metabolic regulation of $\beta$ -galactosidase synthesis in <i>Escherichia coli</i> . A test for constitutive ribosome synthesis.		<b>General Methods</b>	
By D. G. Dalbow & H. Bremer	1	Rapid separation of isolated hepatocytes or similar tissue fragments for analysis of cell constituents.	
Regulatory state of ribosomal genes and physiological changes in the concentration of free ribonucleic acid polymerase in <i>Escherichia coli</i> .		By R. Hems, P. Lund & H. A. Krebs	47
By H. Bremer & D. G. Dalbow	9		(continued overleaf)
Synthesis time of $\beta$ -galactosidase in <i>Escherichia coli</i> B/r as a function of growth rate.			
By D. G. Dalbow & R. Young	13		

(continued from preceding page)

## SHORT COMMUNICATIONS

	PAGE		PAGE
<b>Biosynthesis and Degradation</b>			
Regulation of citrate synthase activity in methylotrophs by reduced nicotinamide-adenine dinucleotide, adenine nucleotides and 2-oxoglutarate.		The early enhancement of rat liver deoxyribonucleic acid-dependent ribonucleic acid polymerase II activity by tri-iodothyronine.	
By J. Colby & L. J. Zatman	141	By S. Jothy, J.-L. Bilodeau, H. Champsaur & H. Simpkins	133
<b>Cellular Interactions and Control Processes</b>			
Specific binding sites for 5-hydroxytryptamine on rat blood platelets.		Effect of 3-mercaptopycolinic acid on gluconeogenesis and gluconeogenic metabolite concentrations in the isolated perfused rat liver.	
By A. H. Drummond & J. L. Gordon	129	By M. N. Goodman	137