

Cellular Aspects

Contents of Volume 140, No. 2, 1974

	PAGE		PAGE
Biosynthesis and Degradation		The isolation and subfractionation of plasma membrane from the cellular slime mould <i>Dictyostelium discoideum</i> .	
Microbial degradation of alkylbenzenesulphonates. Metabolism of homologues of short alkyl-chain length by an <i>Alcaligenes</i> sp.		By A. A. Green & P. C. Newell	313
By J. A. Bird & R. B. Cain	121	Cellular Interactions and Control Processes	
Role of membrane-bound and free polyribosomes in the synthesis of cytochrome <i>c</i> in rat liver.		The effect of nickel on secretory systems. Studies on the release of amylase, insulin and growth hormone.	
By N. F. González-Cadavid & C. S. de Córdova	157	By R. L. Dormer, A. L. Kerbey, M. McPherson, S. Manley, S. J. H. Ashcroft, G. Schofield & P. J. Randle	135
Lipogenesis in rat and guinea-pig isolated epididymal fat-cells.		The uptake and metabolism of [³² P]pyrophosphate by mouse calvaria <i>in vitro</i> .	
By E. D. Saggerson	211	By A. Jung, S. Bisaz, U. Gebauer, R. G. G. Russell, D. B. Morgan & H. Fleisch	175
Pathways of glyceride glycerol synthesis.		Effects of cytochalasin B, colchicine and vincristine on the metabolism of isolated fat-cells.	
By R. Rognstad, D. G. Clark & J. Katz	249	By E. G. Loten & B. Jeanrenaud	185
Microbial oxidation of amines. Partial purification of a trimethylamine mono-oxygenase from <i>Pseudomonas aminovorans</i> and its role in growth on trimethylamine.		Utilization of gluconate by <i>Escherichia coli</i> . Uptake of D-gluconate by a mutant impaired in gluconate kinase activity and by membrane vesicles derived therefrom.	
By C. A. Boulton, M. J. C. Crabbe & P. J. Large	253	By J. M. Pouysségur, P. Faik & H. L. Kornberg	193
Microbial metabolism of the pyridine ring. The hydroxylation of 4-hydroxypyridine to pyridine-3,4-diol (3,4-dihydroxypyridine) by 4-hydroxypyridine 3-hydroxylase.		Calcium and magnesium ions as effectors of adipose-tissue pyruvate dehydrogenase phosphate phosphatase.	
By G. K. Watson, C. Houghton & R. B. Cain	265	By D. L. Severson, R. M. Denton, H. T. Pask & P. J. Randle	225
Microbial metabolism of the pyridine ring. The metabolism of pyridine-3,4-diol (3,4-dihydroxypyridine) by <i>Agrobacterium</i> sp.		The response of the small intestine to vitamin D. Isolation and properties of chick intestinal polyribosomes.	
By G. K. Watson, C. Houghton & R. B. Cain	277	By J. S. Emtage, D. E. M. Lawson & E. Kodicek	239
Microbial metabolism of the pyridine ring. Metabolism of 2- and 3-hydroxypyridines by the maleamate pathway in <i>Achromobacter</i> sp.		Properties of a prolactin receptor from the rabbit mammary gland.	
By R. B. Cain, C. Houghton & K. A. Wright	293	By R. P. C. Shiu & H. G. Friesen	301
Glycogen metabolism in the liver of the foetal rat.		Comparative effect and fate of non-entrapped and liposome-entrapped neuraminidase injected into rats.	
By P. Devos & H.-G. Hers	331	By G. Gregoriadis, D. Putman, L. Louis & D. Neerunjun	323
Bioenergetics			
The inhibition of mitochondrial calcium transport by lanthanides and Ruthenium Red.			
By K. C. Reed & F. L. Bygrave	143		
Subcellular Structures			
Glutamate and aspartate transport in rat brain mitochondria.			
By M. D. Brand & J. B. Chappell	205		

	PAGE		PAGE
Development			
Leucyl-transfer ribonucleic acid synthetase in senescing tobacco leaves.		Aging effects on the liver aldolase of rabbits (<i>Short Communication</i>).	
<i>By</i> I. Nathan & A. Richmond	169	<i>By</i> P. J. Anderson	341

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

Molecular Aspects Contents of Volume 139, No. 2, 1974

	PAGE		PAGE
Proteins		Isolation and structure of nocobactin NA, a lipid-soluble iron-binding compound from <i>Nocardia asteroides</i> . By C. Ratledge & G. A. Snow	407
The specificity of chain interactions among immunoglobulins. Combinations of γ chains with κ chains of the same subgroup as in the parent immunoglobulin G. By G. T. Stevenson & L. E. Mole	369	Enzymology	
An investigation by dielectric methods of hydration in myoglobin solutions. By E. H. Grant, B. G. R. Mitton, G. P. South & R. J. Sheppard	375	Pig liver pyruvate carboxylase. Purification, properties and cation specificity. By G. B. Warren & K. F. Tipton	297
Navy (haricot)-bean (<i>Phaseolus vulgaris</i>) lectin. Isolation and characterization of two components from a toxic agglutinating extract. By A. T. Andrews	421	Pig liver pyruvate carboxylase. The reaction pathway for the carboxylation of pyruvate. By G. B. Warren & K. F. Tipton	311
Carcinoembryonic antigen-like substances of human urothelial carcinomas. Isolation of components from pathological urine and comparison with colorectal carcinoma antigens. By R. Nery, A. L. Barsoum, H. Bullman & A. M. Neville	431	Pig liver pyruvate carboxylase. The reaction pathway for the decarboxylation of oxaloacetate. By G. B. Warren & K. F. Tipton	321
The purification and amino acid sequence of cytochrome <i>c</i> -552 from <i>Euglena gracilis</i> . By G. W. Pettigrew	449	Kinetic and molecular properties of citraconyl-aldolase. The reversible denaturation and hybridization of the native and modified enzymes. By I. Gibbons & R. N. Perham	331
Age-related variations in hydroxylation of lysine and proline in collagen. By M. J. Barnes, B. J. Constable, L. F. Morton & P. M. Royce	461	Subunit interactions in hybrids of native, carboxypeptidase-treated and citraconylated rabbit muscle aldolase. By I. Gibbons	343
Lipids		Specific inhibition of the enzymic decarboxylation of <i>S</i> -adenosylmethionine by methylglyoxal bis(guanylhydrazone) and related substances. By A. Corti, C. Dave, H. G. Williams-Ashman, E. Mihich & A. Schenone	351
Endogenous steroid concentrations in human breast tumours determined by high-resolution mass fragmentography (<i>Short Communication</i>). By D. Millington, D. Jenner, T. Jones & K. Griffiths	473	The interaction of α_2 -macroglobulin with proteinases. Binding and inhibition of mammalian collagenases and other metal proteinases. By Z. Werb, M. C. Burleigh, A. J. Barrett & P. M. Starkey	359
Carbohydrates		Inhibitors of rabbit plasma prostaglandin A isomerase. By R. L. Jones	381
Identification of <i>N</i> -acetyl-4- <i>O</i> -acetylneuraminyl-lactose in echidna milk. By M. Messer	415	A comparison of purified valyl-transfer ribonucleic acid synthetase from <i>Bacillus stearothermophilus</i> and from <i>Escherichia coli</i> . By S. Wilkinson & J. R. Knowles	391
Small Molecules			
Useful agents for the study of glutathione metabolism in erythrocytes. Organic hydroperoxides. By S. K. Srivastava, Y. C. Awasthi & E. Beutler	289		

(continued overleaf)

(continued from preceding page)

	PAGE		PAGE
Purification and properties of malyl-coenzyme A lyase from <i>Pseudomonas</i> AM1. By A. J. Hacking & J. R. Quayle	399	Purification of α -mannosidase from jack-bean meal suitable for use as reagent (<i>Short Communication</i>). By C. Y. T. Chu & M. D. Turner	469
Biospecific affinity chromatography of an adenosine 3':5'-cyclic monophosphate-stimulated protein kinase (protamine kinase from trout testis) by using immobilized adenine nucleotides. By B. Jergil, H. Guilford & K. Mosbach	441	Studies on glucarate catabolism: the oxodeoxy-glucarate aldolase activity of glucarate hydrolyase from <i>Pseudomonas acidovorans</i> (<i>Short Communication</i>). By R. Jeffcoat	477