

Molecular Aspects

Contents of Volume 161, No. 2, 1977

FULL PAPERS

	PAGE		PAGE
Proteins		Carbohydrates	
The use of gadolinium as a probe in the Fc region of a homogeneous anti-(type-III pneumococcal polysaccharide) antibody. <i>By K. J. Willan, K. H. Wallace, J.-C. Jaton & R. A. Dwek</i>	205	The isolation of minimally degraded hyaluronate from rat skin. <i>By J. M. Mathieson & R. H. Pearce</i>	419
Inhibition of the reconstitution of the haemolytic activity of the first component of human complement by a pepsin-derived fragment of subcomponent C1q. <i>By K. B. M. Reid, R. B. Sim & A. P. Faiers</i>	239	Small Molecules	
Amino acid sequence of the <i>N</i> -terminal forty-two amino acid residues of the C chain of subcomponent C1q of the first component of human complement. <i>By K. B. M. Reid</i>	247	Bile salts of the lungfishes <i>Lepidosiren</i> , <i>Neoceratodus</i> and <i>Protopterus</i> and those of the coelacanth <i>Latimeria chalumnae</i> Smith. <i>By B. Amos, I. G. Anderson, G. A. D. Haslewood & L. Tökes</i>	201
Biochemical and physicochemical characterization of pepsin-solubilized type-II collagen from bovine articular cartilage. <i>By D. Herbage, J. Bouillet & J.-C. Bernengo</i>	303	Molar absorption coefficients of porphyrin esters in chloroform determined by copper titration. <i>By T. K. With & J. S. Pedersen</i>	425
The phosphorylation sites of troponin T from white skeletal muscle and the effects of interaction with troponin C on their phosphorylation by phosphorylase kinase. <i>By A. J. G. Moir, H. A. Cole & S. V. Perry</i>	371	Enzymology	
The proteins in the Z line of insect flight muscle. <i>By B. Bullard & G. M. Sainsbury</i>	399	Purification and properties of rabbit spermatozoal acrosomal neuraminidase. <i>By P. N. Srivastava & H. Abou-Issa</i>	193
The disulphide-bonded nature of procollagen and the role of the extension peptides in the assembly of the molecule. <i>By R. Harwood, A. H. Merry, D. E. Woolley, M. E. Grant & D. S. Jackson</i>	405	Guanosine cyclic monophosphate-dependent protein kinase from foetal calf heart. Purification, general properties and catalytic subunit. <i>By M. Shoji, J. G. Patrick, C. W. Davis & J. F. Kuo</i>	213
Lipids		Mechanism of anticholinesterase activities of cardiotoxin, protamine and polylysine. <i>By S.-Y. S. Lin, C. Liao & C. Y. Lee</i>	229
Labelling of egg phosphatidylcholine vesicles and myelin membrane with a photoreactive lipophilic reagent. <i>By K. M. Abu-Salah & J. B. C. Findlay</i>	223	Biospecific-elution chromatography with 'imphilytes' as stationary phases. <i>By R. J. Yon</i>	233
Properties of rat liver microsomal stearyl-coenzyme A desaturase. <i>By R. Jeffcoat, P. R. Brawn, R. Safford & A. T. James</i>	431	Purification of glycolytic enzymes by using affinity-elution chromatography. <i>By R. K. Scopes</i>	253
		Multiple enzyme purifications from muscle extracts by using affinity-elution chromatographic procedures. <i>By R. K. Scopes</i>	265
		Properties of the multiple forms of the soluble 17 α -hydroxy steroid dehydrogenase of rabbit liver. <i>By S. Hasnain & D. G. Williamson</i>	279

	PAGE		PAGE
Improved non-parametric statistical methods for the estimation of Michaelis–Menten kinetic parameters by the direct linear plot. By W. R. Porter & W. F. Trager	293	L-Serine dehydratase from <i>Arthrobacter globiformis</i> . By F. Gannon, E. S. Bridgeland & K. M. Jones	345
Partial purification and properties of <i>Halobacterium cutirubrum</i> L-alanine dehydrogenase. By E. K. Kim & P. S. Fitt	313	Solubilization, partial purification and properties of N-methylglutamate dehydrogenase from <i>Pseudomonas aminovorans</i> . By C. W. Bamforth & P. J. Large	357
Optical properties and denaturation by guanidinium chloride and urea of the adenosine triphosphatase of <i>Micrococcus lysodeikticus</i> . A comparison of four molecular forms of the enzyme. By M. Nieto & J. A. Ayala	321	Interaction of difluoro-oxaloacetate with aspartate transaminase. By P. A. Briley, R. Eisenthal, R. Harrison & G. D. Smith	383
Purification and properties of the methane mono-oxygenase enzyme system from <i>Methylosinus trichosporium</i> OB3b. By G. M. Tonge, D. E. F. Harrison & I. J. Higgins	333	Isolation and characterization of sheep pepsin. By P. F. Fox, J. R. Whitaker & P. A. O'Leary	389
		Intermolecular Organization	
		Structural investigation of loose connective tissue by using a series of dextran fractions as non-interacting macromolecular probes. By F. A. Meyer, M. Koblenz & A. Silberberg	285

RAPID PAPERS

	PAGE		PAGE
Enzymology			
Preparation and properties of nylon-tube-supported nicotinamide–adenine dinucleotide kinase. By P. V. Sundaram & D. K. Apps	441	Mechanism of 'L'-type pyruvate kinase from rabbit liver. Evidence against phosphoenzyme formation. By L. G. Dann & H. G. Britton	445

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

Cellular Aspects
Contents of Volume 162, No. 1, 1977

FULL PAPERS

	PAGE		PAGE
Biosynthesis and Degradation			
Polyamines and their biosynthetic decarboxylases in various tissues of the young rat during recovery from undernutrition. By P. A. McAnulty & J. P. G. Williams	109	Alloxan cytotoxicity <i>in vitro</i> . Inhibition of rubidium ion pumping in pancreatic β -cells. By L.-Å. Idahl, Å. Lernmark, J. Sehlin & I.-B. Täljedal	9
Studies on the biosynthesis, assembly and secretion of vitellogenin, an oestrogen-induced multicomponent protein. By T. M. Penning, A. H. Merry, K. A. Munday & M. Akhtar	157	Alloxan cytotoxicity <i>in vitro</i> . Microscope photometric analyses of Trypan Blue uptake by pancreatic islet cells in suspension. By K. Grankvist, Å. Lernmark & I.-B. Täljedal	19
Bioenergetics			
Substrate specificity of amino acid transport in sheep erythrocytes. By J. D. Young & J. C. Ellory	33	Factors controlling the activities of phosphatidate phosphohydrolase and phosphatidate cytidyltransferase. The effects of chlorpromazine, demethylimipramine, cinchocaine, norfenfluramine, mepyramine and magnesium ions. By R. G. Sturton & D. N. Brindley	25
Mitochondrial adenosine triphosphatase of the fission yeast, <i>Schizosaccharomyces pombe</i> 972 ⁻ . Changes in activity and oligomycin-sensitivity during the cell cycle of catabolite-repressed and -de-repressed cells. By S. W. Edwards & D. Lloyd	39	Inhibition of lipogenesis by halothane in isolated rat liver cells. By J. P. Mapes	47
An oligomycin-resistant adenosine triphosphatase and its effects on cellular growth, mitochondrial oxidative phosphorylation and respiratory proton translocation in <i>Saccharomyces cerevisiae</i> . By M. Somlo, R. A. Reid & M. Krupa	51	Acetylcholine increases the breakdown of triphosphoinositide of rabbit iris muscle prelabelled with [³² P]phosphate. By A. A. Abdel-Latif, R. A. Akhtar & J. N. Hawthorne	61
The oxidation-reduction potential of the reaction-centre chlorophyll (P700) in Photosystem I. Evidence for multiple components in electron-paramagnetic-resonance signal 1 at low temperature. By M. C. W. Evans, C. K. Sihra & A. R. Slabas	75	Deoxyribonucleic acid and polyamine synthesis in rat ventral prostate. Effects of age of the intact rat and androgen stimulation of the castrated rat with testosterone, 5 α -dihydrotestosterone and 5 α -androstane-3 β ,17 β -diol. By E. E. K. Takyi, D. J. M. Fuller, L. J. Donaldson & G. H. Thomas	87
Proton uptake linked to the 3-deoxy-2-oxo-D-gluconate-transport system of <i>Escherichia coli</i> . By A. E. Lagarde & B. A. Haddock	183	Studies on sex-organ development. The hormonal regulation of steroidogenesis and adenosine 3':5'-cyclic monophosphate in embryonic-chick ovary. By C. T. Teng & C. S. Teng	123
Cellular Interactions and Control Processes			
Effects of prostaglandin on substrate uptake and cell division in human diploid fibroblasts. By P. Polgar & L. Taylor		Hormonal and ionic control of the glycogenolytic cascade in rat liver. By G. van de Werve, L. Hue & H.-G. Hers	135
		The effect of insulin on the glycogenolytic cascade and on the activity of glycogen synthase in the liver of anaesthetized rabbits By G. van de Werve, W. Stalmans & H.-G. Hers	143

(continued overleaf)

(continued from preceding page)

	PAGE		PAGE
Factors influencing the activity of ornithine aminotransferase in isolated rat liver mitochondria		Metabolism in Whole Organisms	
By J. D. McGivan, N. M. Bradford & A. D. Beavis	147	The metabolism of benzyl isothiocyanate and its cysteine conjugate.	
Phosphorylation of rat thymus histones, its control and the effects thereon of γ -irradiation.		By G. Brüsewitz, B. D. Cameron, L. F. Chasseaud, K. Görler, D. R. Hawkins, H. Koch & W. H. Mennicke	99
By A. Fónagy, M. G. Ord & L. A. Stocken	171		

RAPID PAPERS

	PAGE		PAGE
Biosynthesis and Degradation		Subcellular Structures	
Age-related changes in protein turnover and ribonucleic acid of the diaphragm muscle of normal and dystrophic hamsters.		Collagenase is a component of the specific granules of human neutrophil leucocytes.	
By D. F. Goldspink & G. Goldspink	191	By G. Murphy, J. J. Reynolds, U. Bretz & M. Baggiolini	195
Inhibition of haem synthesis caused by cobalt in rat liver. Evidence for two different sites of action.		The phosphorylation of an acidic protein of the large ribosomal subunit of Krebs II ascites cells.	
By F. De Matteis & A. H. Gibbs	213	By D. P. Leader & A. A. Coia	199
Bioenergetics		Cellular Interactions and Control Processes	
The effects of bathophenanthroline, bathophenanthrolinesulphonate and 2-thenoyltri-fluoroacetone on mung-bean mitochondria and submitochondrial particles.		The turnover of hamster fibroblast lysosomal β -D-glucuronidase.	
By P. R. Rich, A. L. Moore & W. D. Bonner, Jr.	205	By M. J. Warburton & C. H. Wynn	201
		Metabolism in Whole Organisms	
		The effects of inhibition of gluconeogenesis in suckling newborn rats.	
		By P. Ferre, J.-P. Pegorier & J. Girard	209