

Molecular Aspects

Contents of Volume 209, No. 1, 1983

NC-IUB and JCBN Newsletter 1983		I-IV
Policy of the Journal and Instructions to Authors		1-27
Review Article		
Biochemical dissection of the γ -aminobutyrate synapse	A. J. TURNER & S. R. WHITTLE	29-41
Peptide and Protein Structure		
Amino acid sequence of the Bb fragment from human complement Factor B. Alignment of the cyanogen bromide-cleavage peptides	J. GAGNON & D. L. CHRISTIE	51-60
Amino acid sequence of the Bb fragment from complement Factor B. Sequence of the major cyanogen bromide-cleavage peptide (CB-II) and completion of the sequence of the Bb fragment	D. L. CHRISTIE & J. GAGNON	61-70
Ligand binding, conformational change and plasma elimination of human, mouse and rat α -macroglobulin proteinase inhibitors	S. L. GONIAS, A. E. BALBER, W. J. HUBBARD & S. V. PIZZO	99-105
Covalent cross-linking of the bovine somatotropin dimer. Effects on growth-promoting, receptor-binding and immunological activities and preliminary characterization of the self-association	H. N. FERNÁNDEZ & J. M. DELFINO	107-115
Relations between high-affinity binding sites for L-tryptophan, diazepam, salicylate and Phenol Red on human serum albumin	U. KRAGH-HANSEN	135-142
Hydrophobic chromatography of proteins in urea solutions. The separations of apoproteins from a lipoprotein of avian egg yolk	R. W. BURLEY & R. W. SLEIGH	143-150
Carbohydrate is linked through ethanolamine to the C-terminal amino acid of <i>Trypanosoma brucei</i> variant surface glycoprotein	A. A. HOLDER	261-262
An Ehrlich chromogen in collagen cross-links	J. E. SCOTT, R.-G. QIAN, W. HENKEL & R. W. GLANVILLE	263-264
Ca ²⁺ -dependent high-affinity complex formation between calmodulin and melittin	M. COMTE, Y. MAULET & J. A. COX	269-272
Enzymes and Enzyme Kinetics		
Kinetic studies on cytochrome <i>c</i> oxidase inserted into liposomal vesicles. Effect of ionophores	P. SARTI, A. COLOSIMO, M. BRUNORI, M. T. WILSON & E. ANTONINI	81-89
Isolation and characterization of a specific enterokinase inhibitor from kidney bean (<i>Phaseolus vulgaris</i>)	R. T. JACOB, P. G. BHAT & T. N. PATTABIRAMAN	91-97
Purification and properties of guinea-pig submandibular-gland kallikrein	F. FIEDLER, M. J. C. LEMON, C. HIRSCHAUER, G. LEYSATH, F. LOTTSPEICH, A. HENSCHEN, W. GAU & K. D. BHOOLA	125-134
Purification and properties of tryptophan synthase from baker's yeast (<i>Saccharomyces cerevisiae</i>)	C. J. BAILEY & P. D. TURNER	151-157
Pulse-radiolysis studies on the interaction of one-electron-reduced species with ascorbate oxidase in aqueous solution	P. O'NEILL, E. M. FIELDEN, A. FINAZZI-AGRÓ & L. AVIGLIANO	167-174

Inhibition of reverse transcriptases by seminalplasmin	E. S. P. REDDY, M. R. DAS, E. P. REDDY & P. M. BHARGAVA	183–188
Phosphorylation of cardiac troponin inhibitory subunit (troponin I) and tropomyosin-binding subunit (troponin T) by cardiac phospholipid-sensitive Ca ²⁺ -dependent protein kinase	N. KATOH, B. C. WISE & J. F. KUO	189–195
Medium-chain fatty acid synthesis by goat mammary-gland fatty acid synthetase. The effect of limited proteolysis	I. GRUNNET & J. KNUDSEN	215–222
The inhibition of class C β -lactamases by boronic acids	T. BEESLEY, N. GASCOYNE, V. KNOTT-HUNZIKER, S. PETURSSON, S. G. WALEY, B. JAURIN & T. GRUNDSTRÖM	229–233
The enzyme-activated irreversible inhibition of type-B monoamine oxidase by 3-[4-[(3-chlorophenyl)methoxy]phenyl]-5-[(methylamino)methyl]-2-oxazolidinone methanesulphonate (compound MD 780236) and the enzyme-catalysed oxidation of this compound as competing reactions	K. F. TIPTON, C. J. FOWLER, J. M. MCCRODDEN & M. STROLIN BENEDETTI	235–242
An investigation of the properties of ornithine aminotransferase after inactivation by the 'suicide' inhibitor aminohexynoate and use of the compound as a probe of intracellular protein turnover	E. D. JONES, J. M. BASFORD & R. A. JOHN	243–249
Certain mouse strains are deficient in a kidney brush-border metalloendopeptidase activity	J. S. BOND, J. D. SHANNON & R. J. BEYNON	251–255
Fluorogenic method for the assay of proteinase activity with the use of 4-methylumbelliferyl-casein	H. KHALFAN, R. ABUKNESHA & D. ROBINSON	265–267
Errors in the evaluation of Arrhenius and van't Hoff plots	T. KELETI	277–280
Metalloproteins		
Purification and characterization of the inactive MoFe protein (NifB Kp1) of the nitrogenase from <i>nifB</i> mutants of <i>Klebsiella pneumoniae</i>	T. R. HAWKES & B. E. SMITH	43–50
Characterization of isoprotein patterns in tissue extracts and isolated samples of metallothioneins by reverse-phase high-pressure liquid chromatography	S. KLAUSER, J. H. R. KÄGI & K. J. WILSON	71–80
Reactions of cytochrome <i>c</i> oxidase with sodium dithionite	G. D. JONES, M. G. JONES, M. T. WILSON, M. BRUNORI, A. COLOSIMO & P. SARTI	175–182
Evidence on intramolecular transfer in the MoFe protein of nitrogenase from <i>Klebsiella pneumoniae</i> from rapid-freeze electron-paramagnetic-resonance studies of its oxidation by ferricyanide	B. E. SMITH, D. J. LOWE, G.-X. CHEN, M. J. O'DONNELL & T. R. HAWKES	207–213
Gene Structure and Function		
Differential effects of polyamines on the phosphorylation of chromatin-associated proteins	K. AHMED, A. T. DAVIS & S. A. GOUELI	197–205
Lipids		
A simple assay to study protein-mediated lipid exchange by fluorescence polarization	Y.-H. XÜ, K. GIETZEN, H.-J. GALLA & E. SACKMANN	257–260
Membranes		
The Wr ^b antigen, a receptor for <i>Plasmodium falciparum</i> malaria, is located on a helical region of the major membrane sialoglycoprotein of human red blood cells	K. RIDGWELL, M. J. A. TANNER & D. J. ANSTEE	273–276

Carbohydrates and Complex Carbohydrates

Heterogeneity of rat goblet-cell mucin before and after reduction R .E. F. FAHIM, G. G. FORSTNER & J. F. FORSTNER 117-124

The alpha particulate liver glycogen. A morphometric approach to the kinetics of its synthesis and degradation P. DEVOS, P. BAUDHUIN, F. VAN HOOF & H.-G. HERS 159-165

Physical Biochemistry

Fluorographic detection of radioactivity in polyacrylamide gels with 2,5-diphenyloxazole in acetic acid and its comparison with existing procedures M. K. SKINNER & M. D. GRISWOLD 281-284

General Methods

Gel-permeation high-performance liquid chromatography as a powerful technique for rapid analysis of calcitriol (1,25-dihydroxycholecalciferol) receptors J.-L. DANAN & H. MATHIEU 223-227