

CONTENTS

Volume 233, No. 1, 1986

NC-IUB and JCBN Newsletter 1986	I-III
Policy of the Journal and Instructions to Authors	1-24
REVIEW ARTICLE	
Infra-red and Raman spectroscopic studies of enzyme structure and function	C. W. WHARTON 25-36
FULL AND RAPID PAPERS	
Proteins	
Identification and characterization of a calcium-binding protein in the mouse chorioallantoic placenta	R. S. TUAN & S. T. CAVANAUGH 41-49
Specific proteolytic modification of creatine kinase isoenzymes. Implication of C-terminal involvement in enzymic activity but not in subunit-subunit recognition	H. G. LEBHERZ, T. BURKE, J. E. SHACKELFORD, J. E. STRICKLER & K. J. WILSON 51-56
The kinetics of bivalent metal ion dissociation from myosin subfragments	A. J. BENNETT & C. R. BAGSHAW 173-177
The mechanism of regulatory light chain dissociation from scallop myosin	A. J. BENNETT & C. R. BAGSHAW 179-186
Structural variations in actins. A study of the immunological reactivity of the N-terminal region	C. ROUSTAN, Y. BENYAMIN, M. BOYER & J.-C. CAVADORE 193-197
Purification and partial sequence analysis of insulin-like growth factor-1 from bovine colostrum	G. L. FRANCIS, L. C. READ, F. J. BALLARD, C. J. BAGLEY, F. M. UPTON, P. M. GRAVESTOCK & J. C. WALLACE 207-213
Comparative binding of bovine, human and rat insulin-like growth factors to membrane receptors and to antibodies against human insulin-like growth factor-1	L. C. READ, F. J. BALLARD, G. L. FRANCIS, R. C. BAXTER, C. J. BAGLEY & J. C. WALLACE 215-221
Binding properties and biological potencies of insulin-like growth factors in L6 myoblasts	F. J. BALLARD, L. C. READ, G. L. FRANCIS, C. J. BAGLEY & J. C. WALLACE 223-230
Iron mobilization from ferritin using α -oxohydroxy heteroaromatic chelators	G. J. KONTOGHORGHES 299-302
Enzymes	
Interrelationship of active and latent secreted human cathepsin B precursors	J. S. MORT & A. D. RECKLIES 57-63
Purification and comparison of the structures of human liver acidic α -D-mannosidases A and B	S. H. CHENG, S. MALCOLM, S. PEMBLE & B. WINCHESTER 65-72
Detection by low-temperature magnetic circular-dichroism spectroscopy of optical absorption bands due to molybdenum(V) in the form of xanthine oxidase giving the Desulpho Inhibited e.p.r. signal	J. PETERSON, C. GODFREY, A. J. THOMSON, G. N. GEORGE & R. C. BRAY 107-110
Chymopapain A. Purification and investigation by covalent chromatography and characterization by two-protonic-state reactivity-probe kinetics, steady-state kinetics and resonance Raman spectroscopy of some dithioacyl derivatives	B. S. BAINES, K. BROCKLEHURST, P. R. CAREY, M. JARVIS, E. SALIH & A. C. STORER 119-129
Characteristics of rat liver microsomal 3-hydroxy-3-methylglutaryl-coenzyme A reductase	G. C. NESS, C. E. SAMPLE, M. SMITH, L. C. PENDLETON & D. C. EICHLER 167-172
Reaction of cyanide with cytochrome aa_3 in isolated perfused rat head <i>in situ</i>	K. KARIMAN & D. S. BURKHART 187-191
Discrimination of distinct proteinases at the four structural levels of rat liver mitochondria	M. C. DUQUE-MAGALHÃES & P. RÉGNIER 283-286
Inactivation of wheat-germ aspartate transcarbamoylase by the arginine-specific reagent phenylglyoxal	S. C. J. COLE, P. A. YAGHMAIE, P. J. BUTTERWORTH & R. J. YON 303-306
Carbohydrates	
Purification and characterization of human platelet proteoglycan	M. OKAYAMA, K. OGURI, Y. FUJIWARA, H. NAKANISHI, H. YONEKURA, T. KONDO & N. UI 73-81
The acceleration of the inhibition of platelet prothrombinase complex by heparin	V. ELLIS, M. F. SCULLY & V. V. KAKKAR 161-165

CONTENTS (continued)

¹ H, ¹³ C and ³¹ P n.m.r. spectra and molecular conformation of <i>myo</i> -inositol 1,4,5-trisphosphate	J. C. LINDON, D. J. BAKER, R. D. FARRANT & J. M. WILLIAMS	275-277
Presence of fucosamine in teichuronic acid of the alkalophilic <i>Bacillus</i> strain C-125	R. AONO & M. URAMOTO	291-294
Lipids		
Induction of intra- and extra-cellular phospholipids in the lungs of rats exposed to silica	L. A. DETHLOFF, L. B. GILMORE, A. R. BRODY & G. E. R. HOOK	111-118
Regulation of macrophage eicosanoid production by hydroperoxy- and hydroxy-eicosatetraenoic acids	J. L. HUMES, E. E. OPAS, M. GALAVAGE, D. SODERMAN & R. J. BONNEY	199-206
Synthesis and degradation of macromolecules		
The effect of metabolic acidosis on the synthesis and turnover of rat renal phosphate-dependent glutaminase	J. TONG, G. HARRISON & N. P. CURTHOYS	139-144
A comparison of rates of protein turnover in rat diaphragm <i>in vivo</i> and <i>in vitro</i>	V. R. PREEDY, D. M. SMITH & P. H. SUGDEN	279-282
Intermediary metabolism and metabolic control		
Host zinc metabolism and the Ehrlich ascites tumour. Zinc redistribution during tumour-related stress	B. UJJANI, G. KRAKOWER, G. BACHOWSKI, S. KREZOSKI, C. F. SHAW, III & D. H. PETERING	99-105
Effects of dexamethasone and insulin on the synthesis of triacylglycerols and phosphatidylcholine and the secretion of very-low-density lipoproteins and lysophosphatidylcholine by monolayer cultures of rat hepatocytes	E. H. MANGIAPANE & D. N. BRINDLEY	151-160
The effects of stress and injury on the activity of phosphoenolpyruvate carboxykinase in the liver of the rat	J. G. ROSE & D. F. HEATH	239-244
First-pass hepatic uptake and utilization of glucose in the rat	M. MURATOGLU, J. KUYUMJIAN & N. KALANT	245-248
Glucose utilization <i>in vivo</i> and insulin-sensitivity of rat brown adipose tissue in various physiological and pathological conditions	P. FERRÉ, A.-F. BURNOL, A. LETURQUE, J. TERRETAZ, L. PENICAUD, B. JEANRENAUD & J. GIRARD	249-252
The inhibition of parathyroid-hormone actions on gluconeogenesis and phosphate transport by 3-mercaptopycolinate in rabbit renal proximal tubules	N. YANAGAWA & O. D. JO	271-273
Enhancement of glucagon secretion from isolated rat islets of Langerhans by phorbol 12-myristate 13-acetate	C. S. T. HILL, J. STUTCHFIELD & S. L. HOWELL	287-289
Bioenergetics and transport		
Membrane transport in relation to net uptake of glucose in the perfused rat hindlimb. Stimulatory effect of insulin, hypoxia and contractile activity	J.-P. IDSTRÖM, M. J. RENNIE, T. SCHERSTÉN & A.-C. BYLUND-FELLENIS	131-137
K ⁺ -stimulated <i>p</i> -nitrophenyl phosphatase is not a partial reaction of the gastric (H ⁺ + K ⁺)-transporting ATPase. Evidence supporting a new model for the univalent-cation-transporting ATPase systems	T. K. RAY & J. NANDI	231-238
<i>trans</i> -Stimulation and <i>trans</i> -inhibition of uridine efflux from human erythrocytes by permeant nucleosides	S. M. JARVIS	295-297
Membranes and receptors		
A bovine epithelial membrane protein that binds polymeric immunoglobulin and has a structure related to that of bovine secretory component	D. BEALE & J. HOPLEY	37-40
Activation of V ₁ -receptors by vasopressin stimulates inositol phospholipid hydrolysis and arachidonate metabolism in human platelets	W. SIESS, M. STIFEL, H. BINDER & P. C. WEBER	83-91
The use of monoclonal antibodies to quantify the levels of sialoglycoproteins α and δ and variant sialoglycoproteins in human erythrocyte membranes	A. H. MERRY, C. HODSON, E. THOMSON, G. MALLINSON & D. J. ANSTEE	93-98
Translocation of phospholipid/Ca ²⁺ -dependent protein kinase in B-lymphocytes activated by phorbol ester or cross-linking of membrane immunoglobulin	A. E. NEL, M. W. WOOTEN, G. E. LANDRETH, P. J. GOLDSCHMIDT-CLERMONT, H. C. STEVENSON, P. J. MILLER & R. M. GALBRAITH	145-149

CONTENTS (continued)

Haemocyanin mRNA from arthropod and mollusc origin. Evidence for a multi-unit structure in mollusc haemocyanin mRNA	I. AVISSAR, E. DANIEL & V. DANIEL	253-257
The γ -aminobutyrate/benzodiazepine receptor from pig brain. Enhancement of γ -aminobutyrate-receptor binding by the anaesthetic propanidid	E. F. KIRKNESS & A. J. TURNER	259-264
The γ -aminobutyrate/benzodiazepine receptor from pig brain. Purification and characterization of the receptor complex from cerebral cortex and cerebellum	E. F. KIRKNESS & A. J. TURNER	265-270
BJ LETTER		
Dicyclohexylamine is not an inhibitor of spermidine synthase	K. W. BATCHELOR, R. A. SMITH & N. S. WATSON	307-308