

# CONTENTS

## Volume 231, No. 2, 1985

### REVIEW ARTICLE

The myosin alkali light chain proteins and their genes

P. J. R. BARTON & M. E. BUCKINGHAM 249-261

### FULL AND RAPID PAPERS

#### Proteins

Properties of cadmium-binding proteins in rat testes. Characteristics unlike metallothionein

J. T. DEAGEN & P. D. WHANGER 279-283

Physicochemical characterization of human S-protein and its function in the blood coagulation system

K. T. PREISSNER, R. WASSMUTH & G. MÜLLER-BERGHHAUS 349-355

Structural variations in actins. Biochemical and immunological tools for probing the structure of rabbit skeletal-muscle and bovine aortic actins

J. C. CAVADORE, C. ROUSTAN, Y. BENYAMIN, M. BOYER & J. HAIECH 363-368

Isolation and characterization of six human hepatic isometallothioneins

P. E. HUNZIKER & J. H. R. KÄGI 375-382

The sequence of two peptides isolated from the Ca<sup>2+</sup>-transporting ATPase of rabbit sarcoplasmic reticulum after cleavage at tryptophan

N. M. GREEN & E. J. TOMS 425-429

Binding of proteinases to human  $\alpha_2$ -macroglobulin with its thioester bonds claved by methylamine in the presence of a thiol-group-cyanylating reagent

I. BJÖRK 451-457

#### Enzymes

Kinetic independence of the subunits of cytosolic glutathione transferase from the rat

U. H. DANIELSON & B. MANNERVIK 263-267

Developmental changes of chicken liver AMP deaminase

J. SPYCHAŁA, K. KALETHA & W. MAKAREWICZ 329-333

Characterization of Ca<sup>2+</sup>-activated protein phosphatase activity in exocrine pancreas

D. B. BURNHAM 335-341

The metabolism of neuropeptides. Neurokinin A (substance K) is a substrate for endopeptidase-24.11 but not for peptidyl dipeptidase A (angiotensin-converting enzyme)

N. M. HOOPER, A. J. KENNY & A. J. TURNER 357-361

Formation and properties of flavoprotein-cytochrome hybrids by recombination of subunits from different species

S. C. KOERBER, D. J. HOPPER, W. S. MCINTIRE & T. P. SINGER 383-387

Developmental regulation of galactoglycerolipid and galactosphingolipid sulphation during mammalian spermatogenesis. Evidence for a substrate-selective inhibitor of testicular sulphotransferase activity in the rat

C. A. LINGWOOD 393-400

Deficiency in the regulation of testicular galactolipid sulphotransferase in rats carrying the growth-and-reproduction-complex (*grc*) gene

C. LINGWOOD, H. W. KUNZ & T. J. GILL III 401-405

Membrane-bound lactate dehydrogenases and mandelate dehydrogenases of *Acinetobacter calcoaceticus*. Purification and properties

N. ALLISON, M. J. O'DONNELL & C. A. FEWSON 407-416

Kinetics of the reaction of thrombin and  $\alpha_2$ -macroglobulin

R. D. FEINMAN, A. I. YUAN, S. R. WINDWER & D. WANG 417-423

The metabolism of neuropeptides. Phase separation of synaptic membrane preparations with Triton X-114 reveals the presence of aminopeptidase N

R. MATSAS, S. L. STEPHENSON, J. HRYSZKO, A. J. KENNY & A. J. TURNER 445-449

Comparative kinetic studies on the two interconvertible forms of *Streptococcus faecalis* inorganic pyrophosphatase

R. LAHTI & H. LÖNNBERG 485-488

Assay of protein kinase C with an *N*-bromosuccinimide-cleavage fragment of histone H1

B. GLYNN, J. COLLITON, J. McDERMOTT & L. A. WITTERS 489-492

#### Nucleic acids and molecular genetics

Determination of tissue-type plasminogen-activator mRNA in human and non-human cell lines by dot-blot hybridization

G. OPDENAKKER, A. BILLIAU, G. VOLCKAERT & P. DE SOMER 309-313

#### Synthesis and degradation of macromolecules

Simultaneous response of myocardial contractility and a major proteolytic process to  $\beta$ -adrenergic-receptor occupancy in the Langendorff isolated perfused rat heart

T. D. LOCKWOOD 299-308

## CONTENTS (continued)

### Intermediary metabolism and metabolic control

- Induction of spermidine/spermine *N*<sup>1</sup>-acetyltransferase in rat tissues by polyamines A. E. PEGG & B. G. ERWIN 285-289
- The effect of progesterone on prolactin stimulation of fatty acid synthesis, glycerolipid synthesis and lipogenic-enzyme activities in mammary glands of pseudopregnant rabbits, after explant culture or intraductal injection P. MARTYN & I. R. FALCONER 321-328
- Effects of incubation at physiological temperatures on the concentration-dependence of [2-<sup>14</sup>C]malonyl-CoA binding to rat liver mitochondria V. A. ZAMMIT & C. G. CORSTORPHINE 343-347
- Involvement of 3-dehydroecdysone in the 3-epimerization of ecdysone N. P. MILNER & H. H. REES 369-374
- $\beta$ -Adrenergic stimulation alters oligosaccharide pyrophosphoryl dolichol metabolism in rat parotid acinar cells S. R. GRANT, E. E. KOUSVELARI, D. K. BANERJEE & B. J. BAUM 431-438
- Elevated hepatic mitochondrial and peroxisomal oxidative capacities in fed and starved adult obese (*ob/ob*) mice L. J. BRADY, P. S. BRADY, D. R. ROMSOS & C. L. HOPPEL 439-444
- Increased activity of renal glycine-cleavage-enzyme complex in metabolic acidosis M. LOWRY, D. E. HALL & J. T. BROSNAN 477-480
- Tracer studies of the interconversion of *R*- and *S*-methylmalonic semialdehydes in man N. J. MANNING & R. J. POLLITT 481-484

### Bioenergetics and transport

- The putative electrogenic nitrate-proton symport of the yeast *Candida utilis*. Comparison with the systems absorbing glucose or lactate A. A. EDDY & P. G. HOPKINS 291-297
- Control by amino acids of the activity of system A-mediated amino acid transport in isolated rat hepatocytes P. FAFOURNOUX, C. RÉMÉSY & C. DEMIGNÉ 315-320

### Membranes and receptors

- The *de novo* phospholipid effect of insulin is associated with increases in diacylglycerol, but not inositol phosphates or cytosolic Ca<sup>2+</sup> R. V. FARESE, J. S. DAVIS, D. E. BARNES, M. L. STANDAERT, J. S. BABISCHKIN, R. HOCK, N. K. ROSIC & R. J. POLLET 269-278
- Evidence from the use of monoclonal antibody probes for structural heterogeneity of the growth hormone receptor R. BARNARD, P. G. BUNDESEN, D. B. RYLATT & M. J. WATERS 459-468
- Effects of temperature and ethanol on agonist and antagonist binding to rat heart muscarinic receptors in the absence and presence of GTP M. WAELBROECK, P. ROBBERECHT, P. CHATELAIN, P. DE NEEF & J. CHRISTOPHE 469-476

### Methods

- The preparation of tritiated insulin specifically labelled by semisynthesis at glycine-A1 J. G. DAVIES & R. E. OFFORD 389-392

### B J LETTERS

- Kinetics of protein modification and enzyme inactivation reactions: interpretation of reaction order E. T. RAKITZIS 493-494
- Fatty acids and the control of adipocyte glycerolphosphate acyltransferase by noradrenaline D. SAGGERSON & M. RIDER 495-496