Cellular Aspects

Contents of Volume 198, No. 2, 1981

Protein Biosynthesis/Molecular Genetics

Prolyl-tRNA-based rates of protein and collagen synthesis in human lung fibroblasts
Alterations in albumin secretion and total protein synthesis in livers of thyroidectomized rats

J. N. Hildebran, J. Airhart, W. S. Stirewalt & R. B. Low

Protein Turnover

Rapid decrease in thymidine kinase activity of mouse cell temperature-sensitive mutants at a non-permissive temperature

M. Hyodo & K. Suzuki

Metabolism, Regulation and Control Processes

Oxygen metabolism of mammalian spermatozoa. Generation of hydrogen peroxide by rabbit epididymal spermatozoa
Glucose-induced inactivation of mitochondrial enzymes in the yeast Saccharomyces cerevisiae
Tryptophan pyrrolase in haem regulation. The mechanism of the opposite effects of tryptophan on rat liver 5-amino-laevulinic synthase activity and the haem saturation of tryptophan pyrrolase
The biliary excretion of enterokinase in rats. Studies in normal, chronic ethanol-maintained and cirrhotic rats
Role of haem in the induction of cytochrome P-450 by phenobarbitone. Studies in chick embryos in vivo and in cultured chick embryo hepatocytes
Effect of tunicamycin on epidermal glycoprotein and glycosaminoglycan synthesis in vitro
Lutropin-dependent protein phosphorylation and steroidogenesis in rat tumour Leydig cells
Mechanism of 3-phenylpyruvate-induced insulin release from isolated pancreatic islets
Peptide-induced prostaglandin biosynthesis in the renal-vein-constricted kidney
Very-low-density-lipoprotein secretion by isolated hepatocytes of fat-fed rats

M. K. Holland & B. T. Storey
M. Takeda
A. A.-B. Badawy, A. N. Welch & C. J. Morgan
D. A. W. Grant, P. A. Jones & J. Hermon-Taylor
U. Giger & U. A. Meyer
I. A. King & A. Tabiowo
G. H. Bakker, J. W. Hoogerbrugge, F. F. G. Rommerts & H. J. Van der Molen
U. Panten & J. Langer
S. I. Myers, R. Zipser & P. Needelman
A.-D. Kalopissis, S. Griglio, M.-I. Malewiak, R. Rozen & X. Le Liepvre
P. F. Blackmore & J. H. Exton

α1-Adrenergic stimulation of Ca2+ mobilization without phosphorylase activation in hepatocytes from phosphorylase b kinase-deficient gsd/gsd rats
Stimulation of production of prostaglandin E in gingival cells exposed to products of human blood mononuclear cells
Differential responses to inducers of δ-aminolaevulinic synthase and haem oxygenase during pregnancy
Skeletal-muscle α-glucosidases in bovine generalized glycosogenosis type II
The effect of essential-fatty-acid deficiency on the activity of liver phosphatidate phosphatase in rats
Enhancement of rat brain tyrosine aminotransferase activity by cortisol

S. M. D’Souza, D. J. English, A. Clark & R. G. G. Russell
M. K. Sardana, S. Sassa & A. Kappas
P. R. Dorling, J. McC. Howell & J. M. Gawthorne
J. H. Stewart & G. M. Briggs
B. M. Snape & A. A.-B. Badawy

417–420
Cell Surfaces and Receptors
The nuclear oestrogen receptor in the female rat. Effects of oestradiol administration during the oestrous cycle on the uterus and contrasting effects of progesterone on the uterus and hypothalamus
The use of horseradish peroxidase–lectin conjugates to monitor the purity of plasma-membrane preparations obtained from isolated cells

Developmental Biochemistry
Ontogeny of the glucocorticoid receptor and its relationship to tyrosine aminotransferase induction in cultured foetal hepatocytes
Foetal glutamate as a possible precursor of placental glutamine in the guinea pig
Lipogenesis in vivo in maternal and foetal tissues during late gestation in the rat
Early dolichyl sugar synthesis during differentiation of non-growing brine-shrimp (Artemia salina) embryos

Membranes, Transport, Bioenergetics and Photosynthesis
Nuclear envelope of the seminal-vesicle epithelium
Partial purification of (Ca\(^{2+}\)+Mg\(^{2+}\))-dependent ATPase from pig smooth muscle and reconstitution of an ATP-dependent Ca\(^{2+}\)-transport system
The protonmotive potential difference across the vacuolar-lysosomal membrane of Hevea brasiliensis (rubber tree) and its modification by a membrane-bound adenosine triphosphatase

S. Thrower & L. Lim 385–389
J. P. Banga, P. Penfold & I. M. Roitt 421–423
M. H. Cake, G. C. T. Yeoh & I. T. Oliver 301–307
D. L. Bloxam, C. F. Tyler & M. Young 397–401
L. A. Quesada-Allue 429–432
F. Wuytack, G. De Schutter & R. Casteels 265–271
B. Marin, M. Marin-Lanza & E. Komor 365–372