

Cellular Aspects

Contents of Volume 170, No. 2, 1978

FULL PAPERS

	PAGE		PAGE
Biosynthesis and Degradation		Quantitative electron-paramagnetic-resonance measurements of the electron-transfer components of the photosystem-I reaction centre. The reaction-centre chlorophyll (P700), the primary electron acceptor X and bound iron-sulphur centre A.	
Effect of potassium deficiency on mouse kidney lysosomal enzymes. By C. E. Cleveland & R. T. Swank	249	By P. Heathcote, D. L. Williams-Smith & M. C. W. Evans	373
Uptake and metabolism of adenosine by pig aortic endothelial and smooth-muscle cells in culture. By J. D. Pearson, J. S. Carleton, A. Hutchings & J. L. Gordon	265	The oxidative activities of membrane vesicles from <i>Bacillus caldolyticus</i> . Energy-dependence of succinate oxidation. By A. G. Dawson & J. B. Chappell	395
The formation of lipid-linked sugars as intermediates in glycoprotein synthesis in rabbit mammary gland. By B. K. Speake & D. A. White	273	Cellular Interactions and Control Processes	
The mechanism of haem catabolism. Bilirubin formation in living rats by [¹⁸ O]oxygen labelling. By S. B. Brown & R. F. G. J. King	297	Androgenic regulation of elongation of polyribonucleotide chains on rat ventral-prostate chromatin. By P. Thomas, P. Davies & K. Griffiths	211
Evidence from mycelial studies for differences in the sterol biosynthetic pathway of <i>Rhizoctonia solani</i> and <i>Phytophthora cinnamomi</i> . By S. G. Wood & D. Gottlieb	343	Induction of cadmium-thionein in isolated rat liver cells. By H. A. Hidalgo, V. Koppa & S. E. Bryan	219
Evidence from cell-free systems for differences in the sterol biosynthetic pathway of <i>Rhizoctonia solani</i> and <i>Phytophthora cinnamomi</i> . By S. G. Wood & D. Gottlieb	355	Effects of pent-4-enoate on cellular redox state, glycolysis and fatty acid oxidation in isolated perfused rat heart. By J. K. Hiltunen, V. P. Jauhonen, M. J. Savolainen & I. E. Hassinen	235
Synthesis of ophthalmic acid in liver and kidney <i>in vivo</i> . By M. Orlowski & S. Wilk	415	Metabolic effects of pent-4-enoate in isolated perfused rat heart. By J. K. Hiltunen	241
Labelling of glycerolipids in the cotyledons of developing oilseeds by [¹⁻¹⁴ C]acetate and [²⁻³ H]glycerol. By C. R. Slack, P. G. Roughan & N. Balasingham	421	Studies on secretion and endocytosis of macromolecules by cultivated skin fibroblasts. Effects of anti-microtubular agents on secretion and endocytosis of lysosomal hydrolases and of sulphated glycosaminoglycans. By K. von Figura, H. Kresse, U. Meinhard & D. Holtfreich	313
Bioenergetics		Oestrogen induction of riboflavin-binding protein in immature chicks. Nature of the secretory protein. By U. S. Murthy & P. R. Adiga	331
Quantitative electron-paramagnetic-resonance measurements of the electron-transfer components of the photosystem-I reaction centre. The free-radical signal I and the bound iron-sulphur centre A. By D. L. Williams-Smith, P. Heathcote, C. K. Sihra & M. C. W. Evans	365	Interrelations between ureogenesis and gluconeogenesis in isolated hepatocytes. The role of anion transport and the competition for energy. By A. B. Wojtczak, E. I. Wałajtys-Rode & M. J. H. Geelen	379

	PAGE		PAGE
Poly(adenosine diphosphate ribose) metabolism and regulation of myocardial cell growth by oxygen.		Intestinal neuraminidase activity of suckling rats and other mammals. Relationship to the sialic acid content of milk.	
<i>By</i> Q. P. Ghani & M. Hollenberg	387	<i>By</i> J. J. Dickson & M. Messer	407
Development			
Changes in the lactate dehydrogenase isoenzyme pattern during differentiation of rabbit bone-marrow erythroid cells.		Metabolism in Whole Organisms	
<i>By</i> M. S. Setchenska & H. R. V. Arnstein	193	Vitamin D metabolism and expression in rats fed on low-calcium and low-phosphorus diets.	
Studies on sex-organ development. Changes in chromatin structure during spermatogenesis in maturing rooster testis as demonstrated by the initiation pattern of ribonucleic acid synthesis <i>in vitro</i> .		<i>By</i> S. Edelstein, D. Noff, L. Sinai, A. Harell, J. B. Puschett, E. E. Golub & F. Bronner	227
<i>By</i> C. Mezquita & C. S. Teng	203	The metabolism of shikimate in the rat.	
Lipid oxidation by heart mitochondria from young adult and senescent rats.		<i>By</i> D. Brewster, R. S. Jones & D. V. Parke	257
<i>By</i> R. G. Hansford	285	Inter-organ relationships between glucose, lactate and amino acids in rats fed on high-carbohydrate or high-protein diets.	
		<i>By</i> C. Rémésy, C. Demigné & J. Aufrère	321
		The effects of hypoglycin on glucose metabolism in the rat. A kinetic study <i>in vivo</i> with [$U\text{-}^{14}\text{C}$, $2\text{-}^3\text{H}$]glucose.	
		<i>By</i> H. Osmundsen, D. Billington, J. R. Taylor & H. S. A. Sherratt	337

RAPID PAPERS

	PAGE		PAGE
Biosynthesis and Degradation			
Transformation of arachidonate into 6-oxo-prostaglandin $F_{1\alpha}$, thromboxane B_2 and prostaglandin E_2 by sheep lung microsomal fraction.		Cellular Interactions and Control Processes	
<i>By</i> H.-H. Tai, B. Yuan & A. T. Wu	441	Rapid temperature-induced changes in the fatty acid composition of certain lipids in developing linseed and soya-bean cotyledons.	
		<i>By</i> C. R. Slack & P. G. Roughan	437
		Calcitonin-mediated changes in plasma tryptophan and brain 5-hydroxytryptamine and acetylcholinesterase activity in rats.	
		<i>By</i> A. M. Nakhla & A. P. Nandi Majumdar	445