

Contents of Volume 134, No. 2, 1973

	PAGE		PAGE
Biosynthesis and Degradation			
The microbial metabolism of thiophen-2-carboxylate. By R. E. Cripps	353	Site of inhibition by 2-amino-1,1,3-tricyanopropene of photosynthetic oxygen evolution by spinach leaf chloroplasts (<i>Short Communication</i>). By E. M. Burden & A. A. Horton	663
Studies of cytochrome synthesis in rat liver. By R. Druyan, S. Jakovic & M. Rabinowitz	377	Subcellular Structures	
Biosynthesis of glycosaminoglycans by cultured mastocytoma cells. By R. G. Lewis, A. F. Spencer & J. E. Silbert	455	The distribution of ribosomes between different functional states in livers of fed and starved mice. By M. Norman, S. Gamulin & K. Clark	387
Biosynthesis of glycosaminoglycans by microsomal preparations from cultured mastocytoma cells. By R. G. Lewis, A. F. Spencer & J. E. Silbert	465	Isolation and properties of cholesterol ester-storage granules from ovarian tissues. By D. T. Armstrong & A. P. F. Flint	399
The biosynthesis of glucagon in perfused rat pancreas. By K. J. O'Connor, A. Gay & N. R. Lazarus	473	Amino acid production in isolated rat liver mitochondria. By W. Ferdinand, W. Bartley & V. Broomhead	431
Adenosine 5'-sulphatophosphate kinase activity in spinach leaf tissue. By J. N. Burnell & J. W. Anderson	565	The localization of enzymes of intermediary metabolism in <i>Astasia</i> and <i>Euglena</i> . By N. Bégin-Heick	607
Some aspects of carnitine metabolism in avocado (<i>Persea americana</i>) (<i>Short Communication</i>). By R. A. Panter & J. B. Mudd	655	Cellular Interactions and Control Processes	
Formation of ceramide phosphorylethanolamine from phosphatidylethanolamine in the rumen protozoon <i>Entodinium caudatum</i> (<i>Short Communication</i>). By T. E. Broad & R. M. C. Dawson	659	The effect of ethanol on drug oxidations <i>in vitro</i> and the significance of ethanol-cytochrome P-450 interaction. By D. L. Cinti, R. Grundin & S. Orrenius	367
Bioenergetics		Influence of luteinizing hormone and adenosine 3':5'-cyclic monophosphate on the metabolism of free and esterified cholesterol in mouse Leydig-cell tumours. By W. R. Moyle, R. L. Jungas & R. O. Greep	407
Xylitol metabolism in the isolated perfused rat liver. By H. F. Woods & H. A. Krebs	437	Metabolism of free and esterified cholesterol by Leydig-cell tumour mitochondria. By W. R. Moyle, R. L. Jungas & R. O. Greep	415
Metabolic alterations produced in the liver by chronic ethanol administration. Increased oxidative capacity. By L. Videla, J. Bernstein & Y. Israel	507	Effect of leucine on enzymes of the tryptophan-niacin metabolic pathway in rat liver and kidney. By Ghafoorunissa & B. S. Natasinga Rao	425
Metabolic alterations produced in the liver by chronic ethanol administration. Changes related to energetic parameters of the cell. By J. Bernstein, L. Videla & Y. Israel	515	Synthesis and degradation of phosphoenolpyruvate carboxylase in rat liver and adipose tissue. Changes during a starvation-re-feeding cycle. By M. F. Hopgood, F. J. Ballard, L. Reshef & R. W. Hanson	445
Metabolic alterations produced in the liver by chronic ethanol administration. Comparison between the effects produced by ethanol and by thyroid hormones. By Y. Israel, L. Videla, A. Macdonald & J. Bernstein	523		

	PAGE		
Regulation of insulin release from isolated islets of Langerhans of the rat in pregnancy. The role of adenosine 3':5'-cyclic monophosphate. By I. C. Green, S. L. Howell, W. Montague & K. W. Taylor	481	Effect of administration of the fructose on the glycogenolytic action of glucagon. An investigation of the pathogeny of hereditary fructose intolerance. By G. Van den Berghe, L. Hue & H. G. Hers	637
Relationship between plasma and muscle concentrations of ketone bodies and free fatty acids in fed, starved and alloxan-diabetic states. By O. E. Owen, H. Markus, S. Sarshik & M. Mozzoli	499	The uptake of [⁴⁵ Ca]calcium ions by matrix vesicles isolated from calcifying cartilage (<i>Short Communication</i>). By S. Y. Ali & L. Evans	647
Effect of phenylpyruvate on pyruvate dehydrogenase activity in rat brain mitochondria. By J. M. Land & J. B. Clark	539	Activation of pyruvate dehydrogenase in perfused rat heart by dichloroacetate (<i>Short Communication</i>). By S. Whitehouse & P. J. Randle	651
Effect of phenylpyruvate on enzymes involved in fatty acid synthesis in rat brain. By J. M. Land & J. B. Clark	545	Influence of cholecalciferol (vitamin D ₃) on the initial kinetics of the uptake of calcium ions by rat small-intestinal mucosa (<i>Short Communication</i>). By J. M. O'Donnell & M. W. Smith	667
Effects of azaserine and nicotinamide on insulin release and nicotinamide-adenine dinucleotide metabolism in isolated rat islets of Langerhans. By D. J. Deery & K. W. Taylor	557	Acceleration of gluconeogenesis from lactate by lysine (<i>Short Communication</i>). By N. W. Cornell, P. Lund, R. Hems & H. A. Krebs	671
A model study of the fructose diphosphatase-phosphofructokinase substrate cycle. By D. P. Bloxham, M. G. Clark, P. C. Holland & H. A. Lardy	581	Metabolism in Whole Organs	
<i>Appendix</i> : The theoretical estimation of substrate cycling <i>in vivo</i> . By D. P. Bloxham, M. G. Clark, D. M. Goldberg, P. C. Holland & H. A. Lardy	586	Utilization of gluconate by <i>Escherichia coli</i> . Induction of gluconate kinase and 6-phosphogluconate dehydratase activities. By H. L. Kornberg & A. K. Soutar	489
Estimation of the fructose diphosphatase-phosphofructokinase substrate cycle in the flight muscle of <i>Bombus affinis</i> . By M. G. Clark, D. P. Bloxham, P. C. Holland & H. A. Lardy	589	Exogenous cholesterol transport in rabbit plasma lipoproteins. By L. L. Rudel, J. M. Felts & M. D. Morris	531
Concentration of adenosine 3':5'-cyclic monophosphate in mouse pancreatic islets measured by a protein-binding radioassay. By R. H. Cooper, S. J. H. Ashcroft & P. J. Randle	599	Regulation of uptake of purines, pyrimidines and amino acids by <i>Candida utilis</i> . By R. W. Jones & D. G. Wild	617
		Determination and significance of L-tyrosine O-sulphate and its deaminated metabolites in normal human and mouse urine. By P. M. Hext, S. Thomas, F. A. Rose & K. S. Dodgson	629