
Contents

Volume 5, Part 5, 1977

570TH MEETING, CARDIFF

Colloquium: Blood Clotting Mechanisms	PAGE
The role of serine proteinases in the early phase of blood coagulation. <i>By</i> E. W. Davie & K. Fujikawa	1241
The prothrombin-converting complex. <i>By</i> M. P. Esnouf	1244
Vitamin K-dependent formation of γ -carboxyglutamic acid (<i>by title only</i>). <i>By</i> J. Stenflo	1247
Factor XIII: A study using polarization of fluorescence of the activation of the enzyme by calcium and by substrate. <i>By</i> J. J. Holbrook, B. A. Lewis, J.-M. Freyssinet, P. E. Bock & J. D. Shore	1247
Colloquium: Biosynthesis and Structure of Leaf Lipids	
Sterol alkylation in higher plants and micro-organisms. <i>By</i> T. W. Goodwin	1252
Lipid-soluble leaf pigments. <i>By</i> B. H. Davies	1256
Current problems in the synthesis of leaf acyl lipids. <i>By</i> J. L. Harwood	1259
Aspects of cutin structure and formation. <i>By</i> P. J. Holloway	1263
Biosynthesis and structure of leaf lipids: Lipid changes during plastid and leaf development. <i>By</i> B. M. Leese & R. M. Leech	1266
Colloquium: Mechanistic Aspects of Adenosine Triphosphatases	
The mechanism of action of the calcium pump from rabbit muscle sarcoplasmic reticulum. <i>By</i> D. W. Yates, V. C. Duance, A. R. Tebar & P. Buckberry	1270
The mechanism of adenosine triphosphate hydrolysis by myosin. <i>By</i> C. R. Bagshaw	1272
The actin-activated adenosine triphosphatase activity of myosin and its proteolytic subfragments. <i>By</i> A. G. Weeds	1274
Mechanism of cell-membrane (sodium plus potassium ion)-dependent adenosine triphosphatase studied with formycin nucleotides. <i>By</i> S. D. Karlish, D. W. Yates & I. M. Glynn	1278
Coupling-factor polymorphism, transphosphorylation, and the mechanism of adenosine triphosphate synthesis on oxidative and photosynthetic phosphorylation (<i>by title only</i>). <i>By</i> E. Moudrianakis	1278
Nucleotide-binding sites on the coupling adenosine triphosphatase from ox heart mitochondria. <i>By</i> D. A. Harris	1278

	PAGE
Some aspects of adenosine triphosphatase mechanisms. <i>By</i> S. J. Ferguson	1281
The role of lipoic acid in adenosine triphosphatase synthases. <i>By</i> D. E. Griffiths	1283
 Communications	
Effects of fluoroacetate and (–)-hydroxycitrate on fatty acid synthesis in rat epididymal adipose tissue. <i>By</i> R. W. Brownsey, B. J. Bridges & R. M. Denton	1286
Regulation of fatty acid synthesis and esterification in rat epididymal adipose tissue: Effects of insulin, palmitate and 2-bromopalmitate. <i>By</i> G. L. Evans & R. M. Denton	1288
Some effects of ethanol <i>in vivo</i> and <i>in vitro</i> on lipid peroxidation. <i>By</i> A. M. B. Reid & T. F. Slater	1292
Fatty acid synthesis and metabolite fluctuations in meal-fed rats. <i>By</i> T. J. Hopkirk & D. Bloxham	1294
The role of lysosomes in phosphatidylinositol degradation. <i>By</i> R. F. Irvine, N. Hemington & R. M. C. Dawson	1297
The 'metabolic burst' in bovine blood polymorphonuclear leucocytes when stimulated by phagocytosis. <i>By</i> P. H. Beswick & T. F. Slater	1299
Catabolism of sulpholipid by an enzyme from the leaves of <i>Phaseolus multiflorus</i> . <i>By</i> D. D. Burns, T. Galliard & J. L. Harwood	1302
Steroid metabolism in thyroid tissue: Effect of compound SU 10'603 [3-(7-chloro-1,2,3,4-tetrahydro-4-oxonaph-2-yl)pyridine]. <i>By</i> C. Lyne & D. B. Gower	1304
Enhancement of glycogen synthesis in isolated perfused rat liver. <i>By</i> A. K. Walli	1307
The utilization of [³ H]leucine and [¹⁴ C]hexadecanoic acid by the isolated perfused rabbit lung for biosynthesis of radiolabelled pulmonary surfactant. <i>By</i> T. D. Tetley, R. Desai, J. L. Harwood, G. M. Powell, C. G. Curtis & R. J. Richards	1310
The metabolic characteristics of the ventilated and non-ventilated perfused rat lung. <i>By</i> W. A. Stubbs, D. M. Kelly, F. J. Walters & K. G. M. M. Alberti	1312
Effects of streptozotocin on the concentrations of rat liver nicotinamide-adenine dinucleotides (phosphates) and the activity of tryptophan pyrrolase. <i>By</i> A. A.-B. Badawy & M. Evans	1314
The metabolism of folates in the rat: Studies with ³ H- and ¹⁴ C-labelled folic acid in the presence and in the absence of methotrexate. <i>By</i> P. A. Barford, J. A. Blair, F. J. Staff & M. A. K. Malghani	1316
Isolation, purification, characterization and metabolism of high-molecular-weight folate from rat liver. <i>By</i> M. J. Connor, J. A. Blair & P. A. Barford	1319
The intermediary metabolism of <i>Mytilus edulis</i> (L.) and <i>Cerastoderma edule</i> (L.) during exposure to the atmosphere. <i>By</i> T. A. Ahmad & A. E. Chaplin	1320
The supply of glucogenic precursors from peripheral tissues during starvation. <i>By</i> K. Snell & D. A. Duff	1323
Binding of drugs to liposome-entrapped macromolecules prevents diffusion of drugs from liposomes <i>in vitro</i> and <i>in vivo</i> . <i>By</i> G. Gregoriadis, P. J. Davisson & S. Scott	1323
	1977

	PAGE
Incorporation of <i>cis</i> -dichlorobiscyclopentylamineplatinum(II) into liposomes enhances its uptake by ADJ/PC6A tumours implanted subcutaneously into mice. <i>By</i> G. Deliconstantinos, G. Gregoriadis, G. Abel, M. Jones & D. Robertson	1326
The process of milk coagulation by rennet. <i>By</i> M. L. Green, D. G. Hobbs & S. V. Morant	1328
Effect of experimental biliary obstruction on the plasma and erythrocyte lipids of the guinea pig and on plasma phosphatidylcholine-cholesterol acyltransferase activity. <i>By</i> J. S. Owen, K. R. Bruckdorfer & N. McIntyre	1330
A neutral proteinase from rat intestinal muscle. <i>By</i> R. J. Beynon & J. Kay	1333
The effects of ligands on the proteolysis of native phosphorylases <i>a</i> and <i>b</i> by a neutral proteinase from rat intestinal muscle. <i>By</i> I. T. Carney & J. Kay	1335
Properties of membrane-bound uridine diphosphate <i>N</i> -acetylglucosamine-asparagine sequon <i>N</i> -acetylglucosaminyltransferase in preparations of endoplasmic reticulum from rabbit liver and from regenerating rat liver. <i>By</i> Z. Khalkhali, F. Serafini-Cessi & R. D. Marshall	1337
Stability of lipoprotein lipase (clearing-factor lipase) in rat cardiac muscle. <i>By</i> P. Chohan & A. Cryer	1340
Inhibition of phosphatidylcholine-cholesterol acyltransferase activity by mercaptoethanol in mouse plasma. <i>By</i> J. S. Owen	1343
Effect of experimental schistosomiasis <i>mansoni</i> on plasma and erythrocyte lipids and on plasma phosphatidylcholine-cholesterol acyltransferase activity in the mouse. <i>By</i> J. S. Owen, J. C. M. Costa, V. Carvalho & M. P. T. Gillett	1346
Cyclic nucleotide phosphodiesterase activity in the mussel <i>Mytilus edulis</i> L. <i>By</i> F. A. Abreu-Grobois, R. P. Newton & C. J. Smith	1348
Adenylate cyclase activity in higher plants. <i>By</i> C. J. Smith, E. G. Brown, R. P. Newton, T. Al-Najafi & M. J. Edwards	1351
Aromatic amino acid decarboxylase: pH-dependence of substrates and inhibitors. <i>By</i> D. A. Bender & W. F. Coulson	1353
Deoxyribonucleic acid polymerase and deoxyribonuclease activities in pea seedlings. <i>By</i> S. M. Jenns & J. A. Bryant	1356
Influence of side-chain substitution on the metabolic fate of benzylhydrazines. <i>By</i> G. C. Bolton & L. A. Griffiths	1358
Production <i>in vitro</i> of paracetamol from phenacetin and [² H]acetanilide: A study with stable isotopes. <i>By</i> J. D. Baty & P. R. Robinson	1361
The fate of saccharin impurities toluene-2-sulphonamide and 2,3-dihydrobenz- <i>[d]</i> isothiazole 1,1-dioxide in the rat. <i>By</i> A. G. Renwick & L. M. Ball	1363
Interaction of autothiomalate and cystine. <i>By</i> C. J. Danpure & K. J. Lawson	1366
The metabolism of 4,5-dihydro-4,5-dihydroxybenzo[<i>a</i>]pyrene by short-term organ cultures of hamster trachea and lung. <i>By</i> B. P. Moore, G. M. Cohen, J. W. Bridges & D. V. Parke	1368
High-pressure liquid chromatographic and other assays for biphenyl hydroxylation compared. <i>By</i> M. D. Burke, D. J. Benford, J. W. Bridges & D. V. Parke	1370

	PAGE
Possible pitfalls of the biphenyl test for chemical carcinogens. <i>By</i> S. Tong, C. Ioannides & D. V. Parke	1372
Enhancement of 2-hydroxylation <i>in vitro</i> of biphenyl by organochlorine insecticides. <i>By</i> S. Tong, C. Ioannides & D. V. Parke	1374
The detection and quantification of an experimental steroid drug in dog plasma. <i>By</i> S. J. Gaskell, C. J. W. Brooks & S. B. Matin	1378
Fate of a liposome-associated agent injected into normal and tumour-bearing rodents: Attempts to improve localization in tumour tissues. <i>By</i> E. D. Neerunjun, R. Hunt & G. Gregoriadis	1380
The effect of liposomal lipid composition on the fate and effect of liposome-entrapped insulin and tubocurarine. <i>By</i> G. Dapergolas & G. Gregoriadis	1383
The metabolic effects of sodium dichloroacetate in experimental hepatitis in the rat. <i>By</i> G. A. H. Johnson & K. G. M. M. Alberti	1387
Isolation and partial characterization of polyribosomal messenger ribonucleo-proteins from embryonic-chick tendon cells. <i>By</i> N. M. Standart & R. Harwood	1389
A region of the troponin C molecule involved in interaction with troponin I. <i>By</i> R. A. Weeks & S. V. Perry	1391
The binding of myosin subfragment 1 to immobilized actin and nucleotide matrices. <i>By</i> M. A. Winstanley, D. A. P. Small & I. P. Trayer	1392
Studies on limited proteolysis and degradation of lipotropin C-fragment. <i>By</i> B. M. Austen & D. G. Smyth	1394
Proteolysis of lipotropin C-fragment takes place extracellularly to form γ -endorphin and [methionine]enkephalin. <i>By</i> D. G. Smyth & C. R. Snell	1397
Solubilization and partial characterization of the human thyrotropin receptor. <i>By</i> V. B. Petersen, P. J. Dawes, B. R. Smith & R. Hall	1399
The location of prekallikrein in the rat pancreas. <i>By</i> D. Proud, G. S. Bailey, T. B. Ørstavik & K. Nustad	1402
Effect of glutathione on the activity of bilirubin-binding proteins from rat liver cytosol. <i>By</i> J. A. T. P. Meuwissen, M. Zeegers, K. S. Srai & B. Ketterer	1404
A novel method of coenzyme immobilization. <i>By</i> P. Gacesa & W. J. Whish	1407
Solvent media and conformation of Folch-Pi apoprotein. <i>By</i> B. de Foresta, F. Lavielle, C. Nicot & A. Alfsen	1408
Lipoprotein complexes between glucagon and dimyristoylglycerophosphocholine (dimyristoyl phosphatidylcholine). <i>By</i> A. J. S. Jones & R. M. Epand	1410
Protein-mediated transfer of phosphatidylcholine to myelin. <i>By</i> E. M. Carey & P. C. Foster	1412
A micro-electrophoretic investigation of the surface of isolated myelin (<i>by title only</i>). <i>By</i> N. A. Gregson	1414
Changes in the metabolism of high-molecular-weight ribonucleic acid in hypothalamic and cortical regions of the developing female rat brain. <i>By</i> C. Hall & L. Lim	1414
	1977

	PAGE
Lysosomal involvement in the pathogenesis of multiple sclerosis. <i>By</i> S. R. McKeown & I. V. Allen	1416
'Anti-myelin antibodies' and myelin degradation in experimental Border disease of lambs. <i>By</i> D. S. P. Patterson & D. Sweasey	1418
Inhibition and enhancement of allergic encephalomyelitis in guinea pigs by some poly(amino acids) (<i>by title only</i>). <i>By</i> E. A. Caspary, A. B. Keith & D. Hughes	1420
Effect of vasoactive and β -blocking drugs on the clinical course of allergic encephalomyelitis in guinea pigs (<i>by title only</i>). <i>By</i> D. Hughes, A. B. Keith & E. A. Caspary	1420
Serum immune complex in multiple sclerosis. <i>By</i> P. A. Powis, M. L. Cuzner & A. N. Davison	1420
Radioimmunoassay for human myelin basic protein in biological fluids and tissue extract. <i>By</i> J. W. Palfreyman, D. G. T. Thomas & J. G. Ratcliffe	1422
Proteolytic activity in cerebrospinal fluid. <i>By</i> P. T. Richards, M. L. Cuzner & A. N. Davison	1424
Measurement of the rate of incorporation <i>in vivo</i> of amino acid into brain protein. <i>By</i> W. F. Coulson & B. Hart	1425
The action of antimetabolic agents and 5-bromodeoxyuridine on remyelination in the peripheral nervous system (<i>by title only</i>). <i>By</i> S. M. Hall & N. A. Gregson	1428
The response to an intraneural injection of particulate myelin in normal and sensitized mice (<i>by title only</i>). <i>By</i> M. D. Stringer, S. M. Hall & N. A. Gregson	1428
Development and application of a method to assay calcium and magnesium in isolated myelin-sheath preparations. <i>By</i> S. M. Pritchett & M. G. Rumsby	1429
Molecular organization of lipid and protein in the myelin sheath. <i>By</i> A. J. Crang & M. G. Rumsby	1431
Reaction of the covalently binding probes trinitrobenzenesulphonic acid and fluorodinitrobenzene with isolated myelin-sheath preparations. <i>By</i> M. G. Rumsby & J. M. Grainger	1434
The influence of Factor XIII activity on the rate of lysis of fibrin. <i>By</i> M. W. Rampling	1438
Electrophoretic studies of human Factor VIII-related antigen. <i>By</i> H. Eckert & S. I. Chavin	1439
The binding of plasminogen, plasmin and streptokinase-plasminogen activator to fibrin. <i>By</i> S. A. Cederholm-Williams	1441
The effect of heparin adsorbed on Sepharose-lysine on the inactivation of thrombin by anti-thrombin III. <i>By</i> M. W. C. Hatton, H. Kaur & E. Regoeczi	1443
The assay of prothrombin in the plasma of rodents and birds. <i>By</i> M. G. Townsend, P. Kyprianou & D. R. Smith	1446
The effect of the proteinase from rat peritoneal mast cells on prothrombin and Factor X. <i>By</i> A. R. G. Wylie, J. D. Lonsdale-Eccles, N. L. Blumson & D. T. Elmore	1449

	PAGE
Evolutionary and functional observations on the primary structure of the non-thrombin region (residues 1–273) of human prothrombin. <i>By</i> D. Hewett-Emmett, D. A. Walz & W. H. Seegers	1452
Lysis of normal and reduced glutathione-deficient sheep erythrocytes by tellurite and selenite. <i>By</i> C. Crowley, J. D. Young & E. M. Tucker	1455
Analytical fractionation of subcellular organelles from the pulmonary alveolar macrophages of normal and BCG-vaccinated rabbits. <i>By</i> B. B. Lowrie, P. W. Andrew & T. J. Peters	1458
Effects of 3,3-dimethylcysteine (D-penicillamine) on serum copper in subjects with malignant disease. <i>By</i> P. A. Light, A. W. Preece & P. A. Evans	1460
Partial purification of a fibrinolytic acid proteinase from human plasma. <i>By</i> J. A. Law & G. Kemp	1463
Is porphobilinogen deaminase activity a secondary control mechanism in haem biosynthesis in humans? <i>By</i> M. J. Brodie, M. R. Moore, G. G. Thompson, B. C. Campbell & A. Goldberg	1466
The effect of 4-ethyl-5-hydroxy-3,5-dimethyl- Δ^3 -pyrrolin-2-one on haem metabolism in the rat. <i>By</i> D. J. M. Graham, G. G. Thompson, M. R. Moore, M. J. Brodie & A. Goldberg	1468
Uroporphyrinogen decarboxylase activity of human tissues. <i>By</i> G. H. Elder & J. A. Tovey	1470
Porphyryns found in urine of patients with symptomatic porphyria. <i>By</i> S. G. Smith	1472
The effect of certain anaesthetic agents on the activity of rat hepatic δ -aminolaevulinate synthase. <i>By</i> M. R. Moore & R. K. Parikh	1473
Cyclical oscillations in the activity of δ -aminolaevulinate synthase and porphyrin synthesis in the Harderian gland during the oestrous cycle of the golden hamster (<i>Mesocricetus auratus</i>). <i>By</i> M. R. Moore, G. G. Thompson, A. P. Payne & J. McGadey	1475
Oxygen-binding properties of the multiple haemoglobins of the blood clam <i>Anadara senilis</i> (L.). <i>By</i> J. S. Djangmah & E. J. Wood	1478
Free-radical production from acetylphenylhydrazine and haemoglobin. <i>By</i> C. C. Winterbourn & J. K. French	1480
The effect of fluoroacetate on acetylene reduction by <i>Gloeocapsa</i> . <i>By</i> D. Tözüm, M. I. Ul-Haque, A. E. Chaplin & J. R. Gallon	1482
The intermediary metabolism of the unicellular blue-green alga <i>Gloeocapsa</i> sp. LB795. <i>By</i> M. I. Ul-Haque, J. R. Gallon & A. E. Chaplin	1484
Non- α -tocopherols in the unicellular blue-green alga <i>Gloeocapsa</i> . <i>By</i> R. P. Newton, T. J. Walton & C. D. Moyle	1486
Frameshift mutagenicity of certain naturally occurring phenolic compounds in the 'Salmonella/microsome' test: Activation of anthraquinone and flavonol glycosides by gut bacterial enzymes. <i>By</i> J. P. Brown, P. S. Dietrich & R. J. Brown	1489
Desaturation of fatty acids by the psychrophilic bacterium <i>Micrococcus cryophilus</i> . <i>By</i> N. J. Russell	1492
	1977

	PAGE
Isolation of mitochondrial mutant of <i>Saccharomyces cerevisiae</i> resistant to Rhodamine 6G. <i>By</i> W. W. Nichols, C. Briggs, J. R. Woodrow & J. M. Haslam	1494
Cell-wall studies of <i>Pseudomonas aeruginosa</i> and its carbenicillin-induced L-form. <i>By</i> C. J. Branford White, P. S. Rowe, M. R. Horsman & A. B. Spicer	1496
Isolation and characterization of respiratory-deficient mutants of <i>Kluyveromyces lactis</i> , a <i>petite</i> -negative yeast. <i>By</i> B. M. Allmark, S. M. Danks & P. A. Whittaker	1498
Isolation and biochemical characteristics of <i>petite</i> mutants of <i>Kluyveromyces lactis</i> . <i>By</i> J. Heritage & P. A. Whittaker	1500
Inhibition by nalidixic acid of nucleic acid and protein synthesis in <i>Saccharomyces cerevisiae</i> . <i>By</i> P. A. Whittaker & F. Carnevali	1503
Studies on the flavodoxins from a cyanobacterium and a red alga. <i>By</i> M. P. Fitzgerald, A. Husain, G. N. Hutber & L. J. Rogers	1505
NADPH-dependent lipid peroxidation in mitochondria from livers of young and old rats and from rat hepatoma D30. <i>By</i> T. J. Payer, D. J. Mills & A. A. Horton	1506
Energy conservation in isolated mung-bean (<i>Phaseolus aureus</i> L.) mitochondria in the presence of cyanide. <i>By</i> S. B. Wilson	1508
A reiteration of the equation derived by Easson & Stedman (1936) and its application to the inhibition of mitochondrial energy-linked functions by the aurovertins. <i>By</i> P. E. Linnett, A. D. Mitchell, R. B. Beechey & H. Baum	1510
Specific photolabelling of ox heart mitochondrial adenosine triphosphatase by 8-azidoadenosine triphosphate. <i>By</i> R. J. Wagenvoord, I. Van der Kraan & A. Kemp, Jr.	1512
The binding of aurovertin to isolated β -subunit of the mitochondrial adenosine triphosphatase (component F_1): Stoichiometry of β -subunit in component F_1 . <i>By</i> G. J. Verschoor, P. R. Van der Sluis & E. C. Slater	1514
Effects of freezing, thawing and storage cycles on the choline oxidase and succinate oxidase systems of liver mitochondria: Differential extents of anaerobic cytochrome reduction. <i>By</i> M. C. Barrett, D. J. Mills & A. A. Horton	1516
Interaction of the trichlorobenzenes with cytochrome <i>P</i> -450. <i>By</i> K. B. Egyankor & C. S. Franklin	1519
Rapid and economical production of microsomal cytochrome <i>P</i> -450 in yeast resuspended in 20% glucose medium: Relationship to the biosynthesis of mitochondrial cytochromes. <i>By</i> A. Wiseman & L. F. J. Woods	1520
A continuous assay for hepatic microsomal azo reductase. <i>By</i> A. K. Mallett, L. J. King & R. Walker	1522
The inhibitor-sensitivity of the plasma-membrane adenosine triphosphatase of <i>Paracoccus denitrificans</i> : Comparison with the mitochondrial adenosine triphosphatase. <i>By</i> S. J. Ferguson & P. John	1525
Inhibition of the proton-translocating adenosine triphosphatase from chromatophores of photosynthetic bacteria by free bivalent cations and adenosine triphosphate. <i>By</i> G. D. Webster, P. A. Edwards & J. B. Jackson	1527
Changes in dipteran flight-muscle mitochondria after temperature acclimation. <i>By</i> S. M. Danks & M. A. Tribe	1529

	PAGE
Spectroscopic studies on the folding and unfolding of α -lactalbumin in the presence of small ligands. <i>By</i> P. N. Robinson, M. Dean & M. P. Tombs	1532
The effect of modification of lysine and histidine residues on the potential activity of pig pepsinogen. <i>By</i> C. W. Dykes & J. Kay	1535
Superoxide dismutase from <i>Bacillus stearothermophilus</i> : Reversible removal of manganese and its replacement by other metals. <i>By</i> C. J. Brock & J. I. Harris	1537
Interaction of mitochondrial adenosine triphosphatase with nucleotides and with glycerol. <i>By</i> J. P. Shaughnessy, S. J. Ferguson, D. A. Harris & G. K. Radda	1539
The nature of the random experimental error encountered when the kinetics of acetylcholine hydrolase are determined. <i>By</i> S. F. Mabood, P. F. J. Newman & I. A. Nimmo	1540
The enzymic activity of transient sodium dodecyl sulphate-protein complexes of rat intestinal maltase-glucoamylase formed during dissociation. <i>By</i> P. R. Flanagan & G. G. Forstner	1542
Pyruvate carboxylase: The amino acid sequence at the biotin-attachment site of the enzymes isolated from chicken, turkey and sheep liver. <i>By</i> D. B. Rylatt, D. B. Keech & J. C. Wallace	1544
Immunological comparison of human pyruvate kinase isoenzymes. <i>By</i> E. Corcoran, G. O'Cuinn & P. F. Fottrell	1546
Proton-magnetic-resonance studies of the interaction of thromboplastin apoprotein with lipids. <i>By</i> H. Rezvan & R. M. Howell	1549
Circular-dichroic studies of thromboplastin (Factor III) from pig brain. <i>By</i> R. M. Howell & H. Rezvan	1552
A conformational change in pig Factor X induced by calcium ions. <i>By</i> R. M. Howell & S. L. M. Deacon	1554
Progesterone receptors of the mature rat uterus. <i>By</i> J. Y. Brodie & B. Green	1557
The oestrogen receptor of the female rat hypothalamus: Relationship between nuclear content and oligothymidylate-cellulose binding of cytosol receptor. <i>By</i> J. O. White, S. Thrower & L. Lim	1558
Uterine oestrogen receptor translocation during the oestrous cycle of rats: Relation to the cytosol activation factor. <i>By</i> S. Thrower, J. O. White & L. Lim	1560
The rat uterine oestrogen receptor in relation to intra-uterine devices and the oestrous cycle. <i>By</i> L. Myatt, M. G. Elder, G. Chaudhuri & L. Lim	1563

IMMUNOGLOBULIN A COLLOQUIUM, BRISTOL

Colloquium: Immunoglobulin A and Mucosal Protection

The secretory immunoglobulin A response in the gut. <i>By</i> J. J. Cebra, P. J. Gearhart, R. Kamat, S. M. Robertson & J. Tseng	1565
Immunohistological localization of the secretory component in rodents. <i>By</i> I. Lemaitre-Coelho, M. Naccache-Corbic, C. André & J. P. Vaerman	1569
Oral feeding of ovalbumin can make rats tolerant to an intraperitoneal injection of dinitrophenylated ovalbumin and <i>Bordetella pertussis</i> vaccine. <i>By</i> H. Bazin & B. Platteau	1571
	1977

	PAGE
Induction of tolerance after oral feeding of soluble protein antigen. <i>By</i> C. R. Stokes & E. T. Swarbrick	1573
The immune response of the intestinal tract immune system of the pig to oral antigen. <i>By</i> T. J. Newby, J. Huntley, P. A. Evans & F. J. Bourne	1574
Mucosal immunity in the respiratory tract of sheep. <i>By</i> P. W. Wells, W. D. Smith, C. Burrells, A. McL. Dawson & J. M. Sharp	1574
The clearance of MOPC-315-tumour immunoglobulin A from the serum of BALB/c mice. <i>By</i> G. D. F. Jackson, I. Lemaître-Coelho & V. P. Vaerman	1576
The relationship between secretory immunoglobulin A and mucus. <i>By</i> J. R. Clamp	1579
Migration pathways of lymphoid cells with reference to the gut, immunoglobulins and lymphomata. <i>By</i> J. G. Hall, J. Hopkins & E. Orlans	1581
Secretory immunoglobulin A in the chicken and its role in antimicrobial immunity in relation to <i>Escherichia coli</i> and coccidia. <i>By</i> S. H. Parry, P. J. Davis & P. Porter	1583
BOOK REVIEWS	1589
BIOCHEMICAL REVIEWS	
The stoichiometric relationships between electron transport, proton translocation and adenosine triphosphate synthesis and hydrolysis in mitochondria. <i>By</i> M. D. Brand	1615
Model membranes and transport systems. <i>By</i> M. J. Selwyn & A. P. Dawson	1621