

# CONTENTS

Volume 85, part I

July 1993

## RAPID COMMUNICATION

- Ventricular expression and circulating levels of immunoreactive dynorphin in heart transplant recipients *by* A. ATIONU, K. SORENSEN, B. WHITEHEAD, D. SINGER and N. CARTER 1-4

## PAPERS

- Dose-response effects of adrenergic and cholinergic stimulation on atrial natriuretic peptide secretion from beating isolated guinea-pig atria *by* P. F. SPEAKE, S. C. PIRIE, J. D. KIBBLE, A. MUNEEER, D. TAYLOR, S. BIRRING and R. GREEN 5-12
- Atrial natriuretic peptide-cyclic GMP relationships in normal humans: effect of dietary sodium intake *by* G. A. SAGNELLA, N. D. MARKANDU, M. G. BUCKLEY, D. R. J. SINGER and G. A. MACGREGOR 13-17
- Renal and hormonal effects of chronic inhibition of neutral endopeptidase (EC 3.4.24.11) in normal man *by* J. E. O'CONNELL, A. G. JARDINE, D. L. DAVIES, J. MCQUEEN and J. M. C. CONNELL 19-26
- Early increase in glomerular leucocyte number after a reduction in renal mass: implications for the pathogenesis of glomerulosclerosis *by* K. P. G. HARRIS, F. BAKER, J. BROWN and J. WALLS 27-31
- Separate effects of urinary chondroitin sulphate and heparan sulphate on the crystallization of urinary calcium oxalate: differences between stone formers and normal control subjects *by* D. K. Y. SHUM and M. D. I. GOHEL 33-39
- Abnormal urate transport in erythrocytes of patients with idiopathic calcium nephrolithiasis: a possible link with hyperuricosuria *by* G. GAMBARO, M. VICENTI, F. MARCHINI, A. D'ANGELO and B. BAGGIO 41-44
- Variability of cardiovascular and plasma noradrenaline responses to sustained isometric contraction in normal human subjects *by* M. VAZ, M. V. SHAILESH KUMAR, R. N. KULKARNI, D. RODRIGUES and P. S. SHETTY 45-49
- Effect of chronic smoking on endothelium-dependent vascular relaxation in humans *by* M.-C. JACOBS, J. W. M. LENDERS, J. A. KAPMA, P. SMITS and T. THIEN 51-55
- Mitogenic events induced by vasopressin in aortic fibroblasts from spontaneously hypertensive rats *by* D. L. ZHU, T. HEREMBERT and P. MARCHE 57-61
- Neutrophil platelet-activating factor in normal and hypertensive pregnancy and in pregnancy-induced hypertension *by* L. J. BEILIN, K. D. CROFT, C. A. MICHAEL, J. RITCHIE, L. SCHMIDT, R. VANDONGEN and B. N. J. WALTERS 63-70
- Pulmonary vascular reactivity and ischaemia-reperfusion injury in the rat *by* M. MESSENT, M. J. D. GRIFFITHS and T. W. EVANS 71-75
- Relationship between serum butyrylcholinesterase activity, hypertriglyceridaemia and insulin sensitivity in diabetes mellitus *by* C. A. ABBOTT, M. I. MACKNESS, S. KUMAR, A. O. OLUKOGA, C. GORDON, S. ARROL, D. BHATNAGAR, A. J. M. BOULTON and P. N. DURRINGTON 77-81
- Lipid metabolism after liver transplantation from a living related donor *by* K. SANO, A. TANAKA, S. UEMOTO, K. HONDA, K. TANAKA and K. OZAWA 83-88
- Venous blood arterialization and parameters from the minimal models of glucose disappearance and post-hepatic insulin delivery *by* I. F. GODSLAND, C. FELTON and V. WYNN 89-95
- Hyperproinsulinaemia in impaired glucose tolerance *by* A. J. KRENTZ, P. M. CLARK, L. COX and M. NATTRASS 97-100

Changes in the anterior chamber of the eye during acute hypoglycaemia in humans by D. A. HEPBURN, C. V. CLARK, A. C. H. PELL, B. McIVER and B. M. FRIER	101-104
Abnormalities in skeletal muscle metabolism in cyanotic patients with congenital heart disease: a <sup>31</sup> P nuclear magnetic resonance spectroscopy study by I. ADATIA, G. J. KEMP, D. J. TAYLOR, G. K. RADDA, B. RAJAGOPALAN and S. G. HAWORTH	105-109
Diffusion of polyethylene glycol-400 across lipid barriers <i>in vitro</i> by T. H. IQBAL, K. O. LEWIS and B. T. COOPER	111-115

## SUPPLEMENT 29

Communications for the Spring Meeting of the Medical Research Society on 21 and 22 April 1993 at University College Hospital, Medical School	1P-42P
--	--------

## Volume 85, part 2

August 1993

### GLAXO/MRS YOUNG INVESTIGATOR PRIZE

A novel recombinant adenovirus vector expressing a flavivirus non-structural protein protects against lethal flavivirus challenge by S. C. JACOBS	117-122
---	---------

### PAPERS

Renal functional response to ischaemic renal failure in chronic hypoxic rats by C. F. CHEN	123-127
A novel computer-driven, servo-controlled fluid replacement technique and its application to renal function studies in conscious rats by W. J. BURGESS, M. SHALMI, J. S. PETERSEN, J. PLANGE-RHULE, R. J. BALMENT and J. C. ATHERTON	129-137
Reduced renal papillary plasma flow in non-ascitic cirrhotic rats by N. M. ATUCHA, T. QUESADA and J. GARCIA-ESTAN	139-145
Circulating angiotensin II and renal sodium handling in man: a dose-response study by A. R. A. RAHMAN, J. G. MOTWANI, C. C. LANG and A. D. STRUTHERS	147-156
Haemodynamic and hormonal responses to losartan (DuP753/MK954) infusion during cardiac catheterization in conscious salt-deplete dogs by R. J. MACFADYEN, M. TREE, A. F. LEVER and J. L. REID	157-163
Atrial natriuretic peptide in the pericardial fluid of patients with heart disease by J. AMANO, A. SUZUKI, M. SUNAMORI, M. SHICHIRI and F. MARUMO	165-168
Isolation of human cardiac endothelin receptors by a peptide-receptor mobility shift assay by A. PERSIDIS, A. A. HARCUMBE, A. P. DAVENPORT, R. E. KUC, C. PLUMPTON and P. L. WEISSBERG	169-173
Magnesium sulphate reverses the carotid vasoconstriction caused by endothelin-1, angiotensin II and neuropeptide-Y, but not that caused by N <sup>G</sup> -nitro-L-arginine methyl ester, in conscious rats by P. A. KEMP, S. M. GARDINER, T. BENNETT and P. C. RUBIN	175-181
Angiopeptin inhibition of myointimal hyperplasia after balloon angioplasty of large arteries in hypercholesterolaemic rabbits by M. H. HOWELL, M. M. ADAMS, M. S. WOLFE, M. L. FOGGH and P. W. RAMWELL	183-188
Independent, marked associations of alleles of the insulin receptor and dipeptidyl carboxypeptidase-1 genes with essential hypertension by B. J. MORRIS, R. Y. L. ZEE, L.-H. YING and L. R. GRIFFITHS	189-195
Influence of counterregulatory hormones, independently of hypoglycaemia, on cognitive function, warning symptoms and glucose kinetics by D. KERR, M. P. DIAMOND, W. V. TAMBORLANE, S. KERR and R. S. SHERWIN	197-202
Glutathione peroxidase activity and metabolism of arachidonic acid in peripheral blood mononuclear cells from elderly subjects by N. MESKINI, G. NEMOZ, P. CHAPUY, P. HAOND, J. F. PAGEAUX, E. VERICEL, M. LAGARDE and A. F. PRIGENT	203-211
Some pitfalls in the measurement of blood glutathione by D. SCHOFIELD, G. MEI and J. M. BRAGANZA	213-218
Serum sialic acid and acute-phase proteins in hypertriglyceridaemic patients showing the Frederickson's type IIB phenotype by S. HAQ, P. TUTT, M. HAQ and M. CROOK	219-222
Modulation of the anabolic effect of synthetic human parathyroid hormone fragment-(1-34) in the bone of growing rats by variations in the dosage regimen by J.-L. RIOND	223-228

- Comparison between continuous and discrete measurements of breathlessness during exercise in normal subjects using a visual analogue scale by H. R. HARTY, P. HEYWOOD and L. ADAMS 229-236
- Effect of glucocorticosteroid treatment on  $\beta$ -adrenoceptor subtype function in adipocytes from patients with asthma by S. REYNISDOTTIR, H. WAHRENBERG, G. BYLIN and P. ARNER 237-244

## Volume 85, part 3

September 1993

- Editorial** 245
- TECHNIQUES IN CLINICAL RESEARCH**
- Assessment of adipose tissue metabolism in man: comparison of Fick and microdialysis techniques by P. ARNER and J. BÜLOW 247-256
- GLAXO/MRS YOUNG INVESTIGATOR PRIZE**
- Defective enzyme-mediated receptor protection: novel mechanisms in the pathophysiology of hypertension by B. R. WALKER 257-263
- RAPID COMMUNICATION**
- A possible role for protein kinase C in the regulatory differences between intra-abdominal and subcutaneous human adipose tissue by H.-L. VIKMAN, J. M. KAARTINEN, R. K. TUOMINEN and J. J. OHISALO 265-268
- PAPERS**
- Genetic variation associated with differences in the response of plasma apolipoprotein B levels to dietary fibre by R. A. HEGELE, G. ZAHARIADIS, A. L. JENKINS, P. W. CONNELLY, H. KASHTAN, H. STERN, R. BRUCE and D. J. A. JENKINS 269-275
- Bombesin reduces food intake after a preload in man by a cholecystokinin-independent mechanism by R. J. LIEVERSE, J. B. M. J. JANSEN, A. A. M. MASCLEE and C. B. H. W. LAMERS 277-280
- Plasma membrane form of phosphatidate phosphohydrolase: a possible role in signal transduction during liver fibrogenesis by C. P. DAY, A. D. BURT, A. STJ. M. BROWN, M. K. BENNETT, D. J. FARRELL, O. F. W. JAMES and S. J. YEAMAN 281-287
- Human pyruvate dehydrogenase complex as an autoantigen in primary biliary cirrhosis by J. M. PALMER, M. F. BASSENDINE, O. F. W. JAMES and S. J. YEAMAN 289-293
- Gene expression of metalloproteinases and their inhibitor in renal tissue of New Zealand Black/White F<sub>1</sub> mice by T. NAKAMURA, I. EBIHARA, S. OSADA, T. TAKAHASHI, M. YAMAMOTO, Y. TOMINO and H. KOIDE 295-301
- Dissolved urate promotes calcium oxalate crystallization: epitaxy is not the cause by P. K. GROVER, R. L. RYALL and V. R. MARSHALL 303-307
- Effects of oral and intravenous calcitriol on serum calcium oxalate saturation in dialysis patients by M. MARANGELLA, C. VITALE, D. COSSEDDU, M. PETRARULO and F. LINARI 309-314
- Ionized and total magnesium levels in cyclosporin-treated renal transplant recipients: relationship with cholesterol and cyclosporin levels by M. S. MARKELL, B. T. ALTURA, R. L. BARBOUR and B. M. ALTURA 315-318
- Potassium channels in hypokalaemic periodic paralysis: a key to the pathogenesis? by T. P. LINKS, A. J. SMIT, H. J. G. H. OOSTERHUIS and W. D. REITSMA 319-325
- Relationship between insulin release, antinatriuresis and hypokalaemia after glucose ingestion in normal and hypertensive man by A. NATALI, A. QUIÑONES GALVAN, D. SANTORO, N. PECORI, S. TADDEI, A. SALVETTI and E. FERRANNINI 327-335
- Responses of tissue protein synthesis to nutrient intake in rats exposed to interleukin-1 $\beta$  or turpentine by P. E. BALLMER, M. A. MCNURLAN, I. GRANT and P. J. GARLICK 337-342
- <sup>1</sup>H-nuclear magnetic resonance studies of human synovial fluid in arthritic disease states as an aid to confirming metabolic activity in the synovial cavity by J. M. DUFFY, J. GRIMSHAW, D. J. S. GUTHRIE, G. M. MCNALLY, R. A. B. MOLLAN, P. L. SPEDDING, J. TROCHA-GRIMSHAW, B. WALKER and E. WALSH 343-351
- Elevated serum superoxide dismutase levels correlate with disease severity and neutrophil degranulation in idiopathic pulmonary fibrosis by R. M. BORZI, B. GRIGOLO, R. MELICONI, L. FASANO, C. STURANI, M. FABBRI, T. PORSTMANN and A. FACCHINI 353-359

Vasodilatory action of the calcium antagonist amlodipine on large and resistance pulmonary arteries from normoxic and chronically hypoxic rats <i>by</i> P. A. WOODMANSEY, F. ZHANG, K. S. CHANNER and A. H. MORICE	361–366
Validity of peak expiratory flow rate variability for the diagnosis of asthma <i>by</i> J. P. JAMISON and R. K. MCKINLEY	367–371

## Volume 85, part 4

October 1993

### EDITORIAL REVIEW

Interpretation of oxygen and carbon dioxide exchange across tissue beds <i>in vivo</i> <i>by</i> K. N. FRAYN, P. LUND and M. WALKER	373–384
---	---------

### RAPID COMMUNICATION

A new calcitonin-receptor-like sequence in rat pulmonary blood vessels <i>by</i> F. NJUKI, C. G. NICHOLL, A. HOWARD, J. C. W. MAK, P. J. BARNES, S. I. GIRGIS and S. LEGON	385–388
--	---------

### PAPERS

Effect of inhalation of 30% nitrous oxide on spectral components of heart rate variability in conscious man <i>by</i> D. C. GALLETLY, P. D. TOBIN, B. J. ROBINSON and T. CORFIATIS	389–392
Is receptor cross-regulation in human heart caused by alterations in cardiac guanine nucleotide-binding proteins? <i>by</i> A. FERRO, C. PLUMPTON and M. J. BROWN	393–399
Cardiovascular and sympatho-adrenal responses to mental stress in primary hypertension <i>by</i> M. LINDQVIST, T. KAHAN, A. MELCHER and P. HJEMDAHL	401–409
Plasma levels of brain natriuretic peptide in healthy subjects and patients with essential hypertension: response to posture <i>by</i> G. LA VILLA, S. VENA, A. CONTI, C. FRONZAROLI, A. BRAT, C. LAZZERI, C. TOSTI GUERRA, S. MADIAL, N. MARRA and F. FRANCHI	411–416
Expression of the three endothelin genes and plasma levels of endothelin in pre-eclamptic and normal gestations <i>by</i> L. P. MCMAHON, C. W. G. REDMAN and J. D. FIRTH	417–424
Concentration-dependent effects of insulin on Ca <sup>2+</sup> influx in vascular smooth muscle cells of normotensive and spontaneously hypertensive rats <i>by</i> Z. ZHU, M. TEPEL, M. NEUSSER, N. MEHRING and W. ZIDEK	425–429
Effects of angiotensin II on insulin sensitivity: a placebo-controlled study <i>by</i> A. D. MORRIS, J. R. PETRIE, J. ANDERSON, J. M. C. CONNELL and R. DONNELLY	431–436
Effects of decreased glutamine supply on gut and liver metabolism <i>in vivo</i> in rats <i>by</i> S. HEENEMAN and N. E. P. DEUTZ	437–444
Effects of acid loading on serum amino acid profiles and muscle composition in normal fed rats <i>by</i> A. CUPISTI, F. BAKER, J. BROWN, C. LOCK, A. BEVINGTON, K. P. G. HARRIS and J. WALLS	445–449
Determination of free polyamines in human bile by high-performance liquid chromatography <i>by</i> A. HALLAK, R. ROSENBERG, T. GILAT and G. J. SÖMJEN	451–454
Acetyl-CoA:lyso-platelet-activating factor acetyltransferase activity in neutrophils from asthmatic patients and normal subjects <i>by</i> N. L. A. MISSO, R. L. GILLON, M. L. TAYLOR, G. A. STEWART and P. J. THOMPSON	455–463
Effect of chronic low-dose arginine vasopressin infusion on body fluid homeostasis during adaptation from a high- to a low-sodium diet in normal man <i>by</i> M. SUTTERS, D. J. S. CARMICHAEL, S. L. LIGHTMAN and W. S. PEART	465–470
Natriuretic response to head-out immersion in humans with recent kidney transplants <i>by</i> T. J. RABELINK, K. A. VAN TILBORG, R. J. HENÉ and H. A. KOOMANS	471–477
Determinants of the renal clearance of exogenous lithium in a large sample of a white male working population <i>by</i> F. P. CAPPuccio and P. STRAZZULLO	479–485
Effect of noradrenaline on renal sodium and water handling in euhydrated and overhydrated man <i>by</i> C. C. LANG, A. R. RAHMAN, D. J. K. BALFOUR and A. D. STRUTHERS	487–494
Can ultrafiltration occur with a hypo-osmolar solution in peritoneal dialysis?: the role for 'colloid' osmosis <i>by</i> C. D. MISTRY and R. GOKAL	495–500

**TECHNIQUES IN CLINICAL RESEARCH**

- Culture techniques and their applications to studies of vascular smooth muscle *by* J. H. CAMPBELL and G. R. CAMPBELL 501-513

**GLAXO/MRS YOUNG INVESTIGATOR PRIZE**

- CD45RA<sup>+</sup> T cells: not simple virgins *by* L. LIGHTSTONE and J. MARVEL 515-519

**RAPID COMMUNICATION**

- A novel antiserum specific to apolipoprotein B-48: application in the investigation of postprandial lipidaemia in humans *by* A. S. PEEL, A. ZAMPELAS, C. M. WILLIAMS and B. J. GOULD 521-524

**PAPERS**

- Insulin resistance of stress: sites and mechanisms *by* L. S. BRANDI, D. SANTORO, A. NATALI, F. ALTOMONTE, S. BALDI, S. FRASCERRA and E. FERRANNINI 525-535
- Effect of acute mild hypoglycaemia on counterregulatory responses to moderate hypoglycaemia induced immediately afterwards in healthy men *by* K. T. MORIARTY, E. J. SIMPSON, N. S. BROWN, I. A. MACDONALD and R.B. TATTERSALL 537-542
- Antecedent insulin level and pattern of induction of acute hypoglycaemia do not affect subsequent counterregulatory responses in healthy subjects *by* K. T. MORIARTY, E. J. SIMPSON, R. N. MULLINGER, I. A. MACDONALD and R.B. TATTERSALL 543-548
- Free-radical activity after reperfusion in diabetic and non-diabetic patients with acute myocardial infarction *by* R. P. GRAY, D. G. WICKENS, D. L. H. PATTERSON and J. S. YUDKIN 549-555
- Relationship between markers of endothelial dysfunction, oxidant injury and tubular damage in patients with insulin-dependent diabetes mellitus *by* M. YAQOUB, A. W. PATRICK, P. MCCLELLAND, A. STEVENSON, H. MASON, M. C. WHITE and G. M. BELL 557-562
- Tumour necrosis factor- $\alpha$ , resting energy expenditure and cachexia in cystic fibrosis *by* J. S. ELBORN, S. M. CORDON, P. J. WESTERN, I. A. MACDONALD and D. J. SHALE 563-568
- Induction of enhanced responsiveness of human articular chondrocytes to extracellular ATP by tumour necrosis factor- $\alpha$  *by* W. S. LEONG, R. G. G. RUSSELL and A. M. CASWELL 569-575
- Impact of treatment with acetylsalicylic acid on the proaggregatory effects of adrenaline *in vitro* in patients with stable angina pectoris: influence of the anticoagulant *by* N. H. WALLÉN, C. HELD, N. REHNQVIST and P. HJEMDAHL 577-583
- Cell membrane microviscosity and Ca<sup>2+</sup>-Mg<sup>2+</sup>-ATPase activity do not contribute to hypertension in the spontaneously hypertensive rat model *by* R. I. NORMAN and N. ACHALL 585-591
- Rat renal, aortic and pulmonary endothelin-1 receptors: effects of changes in sodium and water intake *by* H. MICHEL, A. BÄCKER, H. MEYER-LEHNERT, I. MIGAS and H. J. KRAMER 593-597
- Control of sodium excretion in patients with cranial diabetes insipidus maintained on desamino-[8-D-arginine]vasopressin *by* M. SUTTERS, C. BRACE, E. HATFIELD, A. WHITEHURST, S.L. LIGHTMAN and W. S. PEART 599-606
- A comparison of the renal and neuroendocrine effects of two 5-hydroxytryptamine renal prodrugs in normal man *by* T. C. LI KAM WA, S. FREESTONE, R. R. SAMSON, N. R. JOHNSON and M. R. LEE 607-614
- Changes in renal function in acute experimental pancreatitis in rats: a therapeutic role for somatostatin *by* M. GONZÁLEZ-RUBIO, C. GARCÍA-ESCRIBANO, M. L. DIEZ-MARQUÉS, I. ARRIBAS, P. MARTÍNEZ-ONSURBE, M. RODRÍGUEZ-PUYOL and D. RODRÍGUEZ-PUYOL 615-621
- Sulphide impairment of substrate oxidation in rat colonocytes: a biochemical basis for ulcerative colitis? *by* W. E. W. ROEDIGER, A. DUNCAN, O. KAPANIRIS and S. MILLARD 623-627
- Modulation of small-intestinal secretion and absorption in chronic vitamin E deficiency: studies in rat jejunum *in vitro* *by* K. J. LINDLEY, D. P. R. MULLER and P. J. MILLA 629-635
- Physiological determinants of inspiratory effort sensation during CO<sub>2</sub> rebreathing in normal subjects *by* J. E. CLAGUE, J. CARTER, M. G. PEARSON and P. M. A. CALVERLEY 637-642
- Extracellular volume expansion inhibits antidiuretic hormone increase during positive end-expiratory pressure in conscious dogs *by* G. KACZMARCZYK, D. JÖRRES, R. ROSSAINT, M. KREBS, V. UNGER and K. FALKE 643-649
- Agonist-induced desensitization of  $\beta$ -adrenoceptors of bovine bronchial epithelial cells *by* M. NOGAMI, D. J. ROMBERGER, S. I. RENNARD and M. L. TOEWS 651-657

**CORRESPONDENCE**

- Endothelin peptides as local hormones and their roles in health and disease? *by* A. HAQ 659

**EDITORIAL REVIEW**

- Non-angiotensin effects of angiotensin-converting enzyme inhibitors *by* W. SUNMAN and P. S. SEVER 661-670

**GLAXO/MRS YOUNG INVESTIGATOR PRIZE**

- Role of  $\alpha_2$ -adrenoceptors and imidazoline-binding sites in the control of insulin secretion *by* S. L. F. CHAN 671-677

**PAPERS**

- Indomethacin stimulates basal glucose production in humans without changes in concentrations of glucoregulatory hormones *by* E. P. M. CORSSMIT, J. A. ROMIJN, E. ENDERT and H. P. SAUERWEIN 679-685
- Inhibition of nitric oxide synthesis in forearm vasculature of insulin-dependent diabetic patients: blunted vasoconstriction in patients with microalbuminuria *by* T. G. ELLIOTT, J. R. COCKCROFT, P.-H. GROOP, G. C. VIBERTI and J. M. RITTER 687-693
- Occurrence of presyncope in subjects without ventricular innervation *by* J. T. LIGHTFOOT, S. A. ROWE and S. M. FORTNEY 695-700
- Brisk walking and serum lipoprotein variables in formerly sedentary men aged 42-59 years *by* D. J. STENSEL, A. E. HARDMAN, K. BROOKE-WAVELL, D. VALLANCE, P. R. M. JONES, N. G. NORGAN and A. F. WINDER 701-708
- Hydrogen peroxide generation in a model paediatric parenteral amino acid solution *by* V. BRAWLEY, J. BHATIA and W. B. KARP 709-712
- Renal uric acid handling in non-insulin-dependent diabetic patients with elevated glomerular filtration rates *by* A. GOLIK, J. WEISSGARTEN, D. COTARIU, N. COHEN, R. ZAIDENSTEIN, Y. RAMOT, Z. AVERBUKH and D. MODAI 713-716
- Role of haematocrit in mediating the actions of chronic erythropoietin treatment on blood pressure and renal haemodynamics in the rat *by* C. HUANG, G. DAVIS and E. J. JOHNS 717-724
- Effects of haemodialysis and continuous ambulatory peritoneal dialysis on abnormalities of ion transport *in vivo* in patients with chronic renal failure *by* C. J. BREARLEY, J. K. ARONSON, N. A. BOON and A. E. G. RAINE 725-731
- Renal tubular protein degradation of radiolabelled aprotinin (Trasylol) in patients with chronic renal failure *by* R. RUSTOM, J. S. GRIME, P. MALTBY, H. R. STOCKDALE, M. J. JACKSON, M. CRITCHLEY and J. M. BONE 733-736
- Change in macromolecular composition of interstitial fluid from swollen arms after breast cancer treatment, and its implications *by* D. O. BATES, J. R. LEVICK and P. S. MORTIMER 737-746
- Interactions of hydrogen peroxide with interleukin-6 and platelet-derived growth factor in determining mesangial cell growth: effect of repeated oxidant stress *by* R. J. D'SOUZA, H. M. PHILLIPS, P. W. JONES, R. C. STRANGE and G. M. ABER 747-751
- Viral infection of bovine bronchial epithelial cells induces increased neutrophil chemotactic activity and neutrophil adhesion *by* M. RAZ, R. A. ROBBINS, C. L. KELLING L. C. STINE, G. D. LEIKAUF, S. I. RENNARD and J. R. SPURZEM 753-760

**CORRESPONDENCE**

- Repeatability testing for transcranial Doppler sonography *by* D. G. GROSSET, I. B. SQUIRE, D. GEORGIADIS and K. R. LEES 761
- Repeatability testing for transcranial Doppler sonography: authors' reply *by* P. DÉMOLIS, S. CHALON and J.-F. GUIDICELLI 761-762

**AUTHOR INDEX****SUBJECT INDEX**