CONTENTS

Volume 90, part 1  
January 1996

Guidance for Authors 1996
Editorial

PAPERS
Increased inward passive permeability in vitro to sodium in uraemic erythrocytes  
by D. B. Corry, C. C. Ellis and M. L. Tuck 3–8
Low concentrations of ouabain increase cytosolic free calcium concentration in rat vascular  
smooth muscle cells by Z. Zhu, M. Tepel, M. Neusser and W. Zidek 9–12
Characteristics of the sodium/hydrogen exchange in non-insulin-dependent diabetic patients  
with microalbuminuria and hypertension by K. F. Zaidi and J. S. Yudkin 13–19
Effect of angiotensin-converting enzyme inhibitors on resistance artery structure and  
endothelium-dependent relaxation in two-kidney, one-clip Goldblatt hypertensive and  
sham-operated rats by M. A. Bennett and H. Thurston 21–29
Cardiomegaly and vasoactive hormones in rats with chronic myocardial infarction: long-term  
effects of chlorothiazide by M. Kohzuki, M. Kanazawa, K. Yoshida, E. Tsutsuki,  
Expression of endothelin peptides and mRNA in the human heart by C. Plumptre,  
M. J. Ashby, R. E. Kuc, G. O'Reilly and A. P. Davenport 37–46
Ischaemia–reperfusion injury in the rat is modulated by superoxide generation and leads to  
an augmentation of the hypoxic pulmonary vascular response by M. Messent,  
M. J. D. Griffiths, G. J. Quinlan, J. M. C. Gutteridge and T. W. Evans 47–54
Seasonal variation in blood pressure in normotensive women studied by home measurements  
by Y. Imai, M. Munakata, I. Tsuj, T. Ohkubo, H. Satoh, H. Yoshino, N. Watanabe,  
A. Nishiyama, N. Onodera, J. Kato, M. Sekino, A. Aihara, Y. Kasai and K. Abe 55–60
Effects of intermittent pressure-induced strain on the electrophysiology of cultured human  
chondrocytes: evidence for the presence of stretch-activated membrane ion channels by  
Bed rest decreases whole-body protein turnover in post-absorptive man by G. E. A. Bettany,  
B. C. Ang, S. N. Georgiannos, D. Halliday and J. Powell-Tuck 73–75
Plasma inhibitory activity against tumour necrosis factor in fulminant hepatic failure  
by H. M. Keane, N. Sheron, J. Goka, R. D. Hughes and R. Williams 77–80
Are Himalayan Sherpas better protected against brain damage associated with extreme  
alitude climbs? by E. Garrido, R. Segura, A. Capdevila, J. Pujol, C. Javierre and  
J. Li. Ventura 81–85

Volume 90, part 2  
February 1996

RAPID COMMUNICATION
Epoprostenol increases plasma level of atrial natriuretic peptide in humans by C. B. Nielsen,  
J. N. Bech and E. B. Pedersen 87–89
PAPERS

Unique response of human arteries to endothelin B receptor agonist and antagonist by J. J. Liu, J. R. Chen and B. F. Buxton 91-96


Effects of dobutamine on the relationship between oxygen consumption and delivery in healthy volunteers: comparison with sodium nitroprusside by D. de Backer, J. Berre, J. J. Moraine, C. Melot, J. Vanfraechem and J.-L. Vincent 105-111

Differences in microvascular fluid permeability between long-duration type I (insulin-dependent) diabetic patients with and without significant microangiopathy by A. J. Jaap, A. C. Shore and J. E. Tooke 113-117

Length-specific impairment of skeletal muscle contractile function after eccentric muscle actions in man by J. M. Saxton and A. E. Donnelly 119-125


Effects of depolarizing or non-depolarizing preservation solutions on human endothelial cells during cold hypoxia by M. A. Hidalgo, D. J. Mann, B. J. Fuller and C. J. Green 135-141

CORRESPONDENCE

Definitions of cardiac/ventricular and vascular/arterial compliance are different by E. D. Lehmann, K. D. Hopkins and R. G. Gosling 143-144

Compliance, a cardiologist's view? Author's reply by W. E. M. Kok, P. Sipkema and R. J. G. Peters 144-146

SUPPLEMENT 34

Communications for the Autumn Meeting of the Medical Research Society on 23 and 24 November 1995 in conjunction with the Science and Medicine Conference at the Royal College of Physicians, London 1p-34p

Volume 90, part 3 March 1996

REGIONAL FOCUS SERIES: progress of clinical science in Spain edited by J. Diez 147-171

Bridging basic science and clinical research by J. M. Matot 147-148

Immunology research by M. O. de Landazuri 148-153

Clinical neurosciences and Alzheimer’s disease by R. Cacabelos 153-156

Cardiac diseases by F. Navarro-López 156-158

Arterial hypertension and vascular medicine by L. M. Ruilo Pe 159-160

Renal diseases by J. Egido 161-162

Hepatology by J. I. Herrero and J. Prieto 162-167

Clinical research at the postgraduate school of haematology ‘Farreras-Valenti’ by C. Rozman and E. Montserrat 167-169

The growth hormone–insulin-like growth factor-1 axis by J. Rodriguez-Arnao, J. J. Diez and A. Gómez-Pan 169-171

EDITORIAL REVIEW

Microcirculation in sepsis: experimental methods and pathophysiological observations by M. Sair, C. P. Winlove and T. W. Evans 173-182

PAPERS


Alteration of atrial natriuretic peptide and brain natriuretic peptide gene expression associated with progression and regression of cardiac hypertrophy in renovascular hypertensive rats by H. KAWAKAMI, H. OKAYAMA, M. HAMADA and K. HIWADA 197–204

Renal effects of angiotensin 1-receptor blockade and angiotensin convertase inhibition in man by F. SCHMITT, S. NATOV, F. MARTINEZ, B. LACOUR and T. P. HANNEDOUCHE 205–213

Salvage of exogenous urea nitrogen enhances nitrogen balance in normal men consuming marginally inadequate protein diets by T. S. MEAKINS and A. A. JACKSON 215–225

Influence of treatment with beclomethasone, cromoglycate and theophylline on perception of bronchoconstriction in patients with bronchial asthma by C. M. B. HIGGS and G. LASZLO 227–234


Volume 90, part 4 April 1996

EDITORIAL REVIEW

Are increased plasma non-esterified fatty acid concentrations a risk marker for coronary heart disease and other chronic diseases? by K. N. FRAYN, C. M. WILLIAMS and P. ARNER 243–253

PAPERS


Effects of hypercholesterolaemia on physiological recruitment of coronary vascular reserve in swine by B. A. BERGELSON, T.-K. YU, and N. A. RUOCCO 261–268


Excessive gravitational blood pooling caused by impaired venous tone is the predominant non-cardiac mechanism of orthostatic intolerance by D. H. P. STREETEN and T. F. SCULLARD 277–285

Renal denervation prevents sodium retention and hypertension in salt-sensitive rabbits with genetic baroreflex impairment by M. WEINSTOCK, E. GORODETSKY and R. KALMAN 287–293

Investigation by polymerase chain reaction of enteroviral infection in patients with chronic fatigue syndrome by A. McARDLE, F. McARDLE, M. J. JACKSON, S. F. PAGE, I. FAHAL and R. H. T. EDWARDS 295–300


β-Oxidation in human alcoholic and non-alcoholic hepatic steatosis by S. EATON, A. M. ZAITOUN, C. O. RECORD and K. BARTLETT 307–313

Plasma lathosterol as a screening test for bile acid malabsorption due to ileal resection: correlation with 35SeH CAT test and faecal bile acid excretion by M. A. FARKKILÄ, K. J. KAIREMO, M. J. TAIVITSAINEN, T. A. STRANDBERG and T. A. MIETTINEN 315–319

CORRESPONDENCE

Psycho-neuro-immune-endocrine system, vascular endothelium and heart failure by L. LORENTE, M.-A. ALLER and J. ARIAS 321–322
EDITORIAL REVIEW
Getting rid of carbon dioxide during exercise by N. L. Jones and G. J. F. Heigenhauser 323–335

PAPERS
Differential effects of low- and high-intensity lower body negative pressure on noradrenaline and adrenaline kinetics in humans by M.-C. Jacobs, D. S. Goldstein, J. J. Willemsen, P. Smits, T. Thienn and J. W. M. Lenders 337–343
Role for the endogenous natriuretic peptide system in the control of basal coronary vascular tone in dogs by T. Supaporn, P. W. Wennberg, C.-M. Wei, M. Kinoshita, Y. Matsuda and J. C. Burnett 357–362
Failure of thrombin inhibition to prevent intracoronary thrombosis in the dog by P. R. Belcher, A. J. Drake-Holland, J. W. Hynd and M. I. M. Noble 363–368
Action of endothelin-I on glomerular haemodynamics in the dog: lack of direct effects on glomerular ultrafiltration coefficient by J. Heller, H. J. Kramer and V. Horacek 385–391
Antiproteinuric effect predicts renal protection by angiotensin-converting enzyme inhibition in rats with established adriamycin nephrosis by F. H. Wapstra, H. van Goor, G. Navis, P. E. de Jong and D. de Zeeuw 393–401
Enhanced phospholipase A2 activity in cultured cardiomyocytes from newborn spontaneously hypertensive rat by E. Millanvoye-van Brussel and M.-A. Devynck 403–407
Chemical characterization and quantification of proteoglycans in human post-burn hypertrophic and mature scars by P. G. Scott, C. M. Dodd, E. E. Tredget, A. Ghahary and F. Rahemtulla 417–425
Luminal epithelial growth factor preserves mucosal mass of small bowel in fasting rats by M. H. Ulshen and R. H. Raasch 427–431

CORRESPONDENCE
Multiple definitions of 'compliance' by E. D. Lehmann, K. D. Hopkins and R. G. Gosling 433–434

Volume 90, part 6 May 1996

EDITORIAL REVIEW
Gene targeting and its application to basic hypertension research by A. F. Clark, M. G. F. Sharp and J. J. Mullins 435–446

GLAXO/MRS YOUNG INVESTIGATOR PRIZE
New insights into myocardial arrhythmogenesis: distribution of gap-junctional coupling in normal, ischaemic and hypertrophied human hearts by N. S. Peters 447–452

RAPID COMMUNICATION
Interstitial glycerol concentration in human skeletal muscle and adipose tissue is close to the concentration in blood by J. S. Samra, C. L. Ravell, S. L. Giles, P. Arner and K. N. Frayn 453–456
PAPERS


Fasting increases the extent of muscle necrosis in the mdx mouse by T. R. Helliwell, P. A. MacLennan, A. McArdle, R. H. T. Edwards and M. J. Jackson 467–472

Central and peripheral haemodynamic responses to high carbohydrate and high fat meals in human cardiac transplant recipients by M. T. Kearney, A. J. Cowley, T. A. Stubbs, A. J. Perry and I. A. Macdonald 473–483

Effects of facial cooling on elderly and young subjects: interactions with breath-holding and lower body negative pressure by K. J. Collins, T. A. Abdel-Rahman, J. C. Easton, P. Sacco, J. Ison and C. J. Doré 485–492


Angiotensin receptors in myometrium and myometrial vessels from uteri of women during the follicular and luteal phases of the menstrual cycle and in late pregnancy by C. Bing, I. R. Johnson and F. Broughton Pipkin 499–505

Use of continuous haemofiltration to assess the rate of lactate metabolism in acute renal failure by D. A. Wright, L. G. Forni, P. Carr, D. F. Treacher and P. J. Hilton 507–510

Endogenous versus exogenous lithium clearance for evaluation of dopamine-induced changes in renal tubular function by N. V. Olsen, N. Fogh-Andersen, S. Strandgaard and P. P. Leyssac 511–515


AUTHOR INDEX

SUBJECT INDEX