

CONTENTS

Annual Review Prize Lecture

ROTHWELL N. J. (from 514, 3–17)
Cytokines – killers in the brain?

1 R

Topical Reviews

HOET J. J. & HANSON M. A. (from 514, 617–627)
Intrauterine nutrition: its importance during critical periods for cardiovascular and endocrine development

DUCHEN M. R. (from 516, 1–17)
Contributions of mitochondria to animal physiology: from homeostatic sensor to calcium signalling and cell death

BOUCHER R. C. (from 516, 631–638)
Molecular insights into the physiology of the ‘thin film’ of airway surface liquid

BÜNEMANN M. & HOSEY M. M. (from 517, 5–23)
G-protein coupled receptor kinases as modulators of G-protein signalling

MA T. & VERKMAN A. S. (from 517, 317–326)
Aquaporin water channels in gastrointestinal physiology

JUEL C. & HALESTRAP A. P. (from 517, 633–642)
Lactate transport in skeletal muscle – role and regulation of the monocarboxylate transporter

ROLFS A. & HEDIGER M. A. (from 518, 1–12)
Metal ion transporters in mammals: structure, function and pathological implications

DOCKRAY G. J. (from 518, 315–324)
Gastrin and gastric epithelial physiology

SMIT A. A. J., HALLIWILL J. R., LOW P. A. & WIELING W. (from 519, 1–10)
Pathophysiological basis of orthostatic hypotension in autonomic failure

KIVELÄ J., PARKKILA S., PARKKILA A.-K., LEINONEN J. & RAJANIEMI H. (from 520, 315–320)
Salivary carbonic anhydrase isoenzyme VI

BENOS D. J. & STANTON B. A. (from 520, 631–644)
Functional domains within the degenerin/epithelial sodium channel (Deg/ENaC) superfamily of ion channels

Perspectives

POWELL D. W. (from 514, 1)
Water transport revisited

CONNELLY C. A. (from 514, 303)
Microdialysis update: optimizing the advantages

HILFiker S. & AUGUSTINE G. J. (from 515, 1)
Regulation of synaptic vesicle fusion by protein kinase C

LYNN B. (from 515, 629)
Surprising diversity in axonal properties between the different functional classes of neurone in peripheral nerves

LENG G. & RUSSELL J. A. (from 516, vi)
Coming to term with GABA

EKEROT C.-F. (from 516, 629)
Climbing fibres – a key to cerebellar function

SOMLYO A. P. (from 516, 630)
Kinases, myosin phosphatase and Rho proteins: curiouser and curiouser

SWANSON G. T. (from 517, 1)
Developing roles for kainate receptors in the cerebellum

BOLSOVER S., ASHWORTH R. & ARCHER F. (from 517, 2)
Activator of calcium influx proves a slippery customer

FARMER S. F. (from 517, 3)
Pulsatile central nervous control of human movement

CHU S. & MONTROSE M. H. (from 517, 315)
The glow of the colonic pH microclimate kindled by short-chain fatty acids, chloride and bicarbonate

KAREMAKER J. M. (from 517, 316)
Autonomic integration: the physiological basis of cardiovascular variability

PARNAS I. & PARNAS H. (from 517, 629)
Different mechanisms control the amount and time course of neurotransmitter release

CASAGRANDE V. A. (from 517, 630)
The mystery of the visual system K pathway

DAY B. L. (from 517, 631)
Galvanic vestibular stimulation: new uses for an old tool

OBERHOLTZER J. C. (from 518, 629)
Frequency tuning of cochlear hair cells by differential splicing of BK channel transcripts

JONES S. W. (from 518, 630)
Inactivation of N-type Ca²⁺ channels: Ca²⁺ vs. voltage

KOUTALOS Y. (from 519, 629)
Intracellular spreading of second messengers

ROBERTSON B. & SOUTHAN A. (from 520, 1)
K⁺ channel blockers and Ca²⁺ signals in basket cell terminals

OKADA Y. (from 520, 2)
A scaffolding for regulation of volume-sensitive Cl[−] channels

RÜEGG J. C. (from 520, 3)
Smooth muscle: PKC-induced Ca²⁺ sensitisation by myosin phosphatase inhibition

PITTMAN Q. J. (from 520, 629)
The action is at the terminal

LOGOTHETIS D. E. & ZHANG H. (from 520, 630)
Gating of G protein-sensitive inwardly rectifying K⁺ channels through phosphatidylinositol 4,5-bisphosphate

RENNIE M. J. (from 521, 1)
Teasing out the truth about collagen

EDGLEY S. A. & LEMON R. N. (from 521, 565)
Experiments using transcranial magnetic brain stimulation in man could reveal important new mechanisms in motor control

When citing any of these articles please use the original reference details, given in parentheses.