

Review**PAK and other Rho-associated kinases – effectors with surprisingly diverse mechanisms of regulation**

*Published as BJ Immediate Publication 17 November 2004,
DOI 10.1042/BJ20041638*

Z.-s. Zhao and E. Manser

201–214

Online Commentary

More roles for selenoprotein P: local selenium storage and recycling protein in the brain

*Published on the Internet 22 February 2005,
DOI 10.1042/BJ20050149*

(see accompanying paper pp. 221–226)

D.R. Richardson

e5–e7

Accelerated Publications

Compartmental oxidation of thiol–disulphide redox couples during epidermal growth factor signalling

*Published as BJ Immediate Publication 13 January 2005,
DOI 10.1042/BJ20041829*

P.J. Halvey, W.H. Watson, J.M. Hansen, Y.-M. Go, A. Samali and D.P. Jones

215–219

Hepatically derived selenoprotein P is a key factor for kidney but not for brain selenium supply

*Published as BJ Immediate Publication 7 January 2005,
DOI 10.1042/BJ20041973*

U. Schweizer, F. Streckfuß, P. Pelt, B.A. Carlson, D.L. Hatfield, J. Köhrle and L. Schomburg

221–226

**Research Papers**

Human xylosyltransferase I: functional and biochemical characterization of cysteine residues required for enzymic activity

*Published as BJ Immediate Publication 4 October 2004,
DOI 10.1042/BJ20041206*

S. Müller, M. Schöttler, S. Schön, C. Prante, T. Brinkmann, J. Kuhn, C. Götting and K. Kleesiek

227–236

Stimulation of hepatocytic AMP-activated protein kinase by okadaic acid and other autophagy-suppressive toxins

*Published as BJ Immediate Publication 4 October 2004,
DOI 10.1042/BJ20040609*

H.R. Samari, M.T.N. Møller, L. Holden, T. Asmyhr and P.O. Seglen

237–244

Compartmentalization of transport and phosphorylation of glucose in a hepatoma cell line

*Published as BJ Immediate Publication 8 October 2004,
DOI 10.1042/BJ20040901*

R.R. Whitesell, H. Ardehali, J.M. Beechem, A.C. Powers, W. Van Der Meer, L.M. Perriott and D.K. Granner

245–253

Essential role of ATF-1 in induction of NOX1, a catalytic subunit of NADPH oxidase: involvement of mitochondrial respiratory chain

*Published as BJ Immediate Publication 18 October 2004,
DOI 10.1042/BJ20041180*

M. Katsuyama, C.Y. Fan, N. Arakawa, T. Nishinaka, M. Miyagishi, K. Taira and C. Yabe-Nishimura

255–261



Anomalous pH-dependence of the activity of human matrilysin (matrix metalloproteinase-7) as revealed by nitration and amination of its tyrosine residues

*Published as BJ Immediate Publication 15 October 2004,
DOI 10.1042/BJ20040985*

Y. Muta, H. Oneda and K. Inouye

263–270

Quantitative determination of the binding of β_2 -glycoprotein I and prothrombin to phosphatidylserine-exposing blood platelets <i>Published as BJ Immediate Publication 2 November 2004, DOI 10.1042/BJ20041167</i>	E.M. Bevers, M.P. Janssen, P. Comfurius, K. Balasubramanian, A.J. Schroit, R.F.A. Zwaal and G.M. Willems	271–279
Subtype-specific regulation of equilibrative nucleoside transporters by protein kinase CK2 <i>Published as BJ Immediate Publication 25 October 2004, DOI 10.1042/BJ20041571</i>	M. Stolk, E. Cooper, G. Vilks, D.W. Litchfield and J.R. Hammond	281–289
Activation of ryanodine receptors induces calcium influx in a neuroblastoma cell line lacking calcium influx factor activity <i>Published as BJ Immediate Publication 14 October 2004, DOI 10.1042/BJ20040900</i>	D.D. Bose, R. Rahimian and D.W. Thomas	291–296
The roles of Sp1, Sp3, USF1/USF2 and NRF-1 in the regulation and three-dimensional structure of the Fragile X mental retardation gene promoter <i>Published as BJ Immediate Publication 13 October 2004, DOI 10.1042/BJ20041124</i>	D. Kumari, A. Gabrielian, D. Wheeler and K. Usdin	297–303
Steady-state kinetics and inhibition of anaerobically purified human homogentisate 1,2-dioxygenase <i>Published as BJ Immediate Publication 13 October 2004, DOI 10.1042/BJ20041370</i>	E.J.A. Veldhuizen, F.H. Vaillancourt, C.J. Whiting, M.M.-Y. Hsiao, G. Gingras, Y. Xiao, R.M. Tanguay, J. Boukouvalas and L.D. Eltis	305–314
Kinetic investigation of human dipeptidyl peptidase II (DPPII)-mediated hydrolysis of dipeptide derivatives and its identification as quiescent cell proline dipeptidase (QPP)/dipeptidyl peptidase 7 (DPP7) <i>Published as BJ Immediate Publication 18 October 2004, DOI 10.1042/BJ20041156</i>	M.-B. Maes, A.-M. Lambeir, K. Gilany, K. Senten, P. Van der Veken, B. Leiting, K. Augustyns, S. Scharpé and I. De Meester	315–324
Mapping residues of SUMO precursors essential in differential maturation by SUMO-specific protease, SENP1 <i>Published as BJ Immediate Publication 18 October 2004, DOI 10.1042/BJ20041210</i>	Z. Xu and S.W.N. Au	325–330
Cephalopod vision involves dicarboxylic amino acids: D-aspartate, L-aspartate and L-glutamate <i>Published as BJ Immediate Publication 18 October 2004, DOI 10.1042/BJ20041070</i>	S. D'Aniello, P. Spinelli, G. Ferrandino, K. Peterson, M. Tsesarskia, G. Fisher and A. D'Aniello	331–340
Regulation of adenylyl cyclase type VIII splice variants by acute and chronic $G_{i/o}$ -coupled receptor activation <i>Published as BJ Immediate Publication 10 November 2004, DOI 10.1042/BJ20041670</i>	D. Steiner, T. Avidor-Reiss, E. Schallmach, E. Butovsky, N. Lev and Z. Vogel	341–348
Characterization of a new family of cyclin-dependent kinase activators <i>Published as BJ Immediate Publication 1 December 2004, DOI 10.1042/BJ20041779</i>	A. Dinarina, L.H. Perez, A. Davila, M. Schwab, T. Hunt and A.R. Nebreda	349–355
<i>Drosophila melanogaster</i> NEP2 is a new soluble member of the neprilysin family of endopeptidases with implications for reproduction and renal function <i>Published as BJ Immediate Publication 22 November 2004, DOI 10.1042/BJ20041753</i>	J.E. Thomas, C.M. Rylett, A. Carhan, N.D. Bland, R.J. Bingham, A.D. Shirras, A.J. Turner and R.E. Isaac	357–366
Zebrafish (<i>Danio rerio</i>) matrilins: shared and divergent characteristics with their mammalian counterparts <i>Published as BJ Immediate Publication 9 December 2004, DOI 10.1042/BJ20041486</i>	Y.-P. Ko, B. Kobbe, M. Paulsson and R. Wagener	367–379

Examination of mitochondrial protein targeting of haem synthetic enzymes: <i>in vivo</i> identification of three functional haem-responsive motifs in 5-aminolaevulinic synthase <i>Published as BJ Immediate Publication 14 October 2004, DOI 10.1042/BJ20040570</i>	T.A. Dailey, J.H. Woodruff and H.A. Dailey	381–386
Direct oxidation of polymeric substrates by multifunctional manganese peroxidase isoenzyme from <i>Pleurotus ostreatus</i> without redox mediators <i>Published as BJ Immediate Publication 4 October 2004, DOI 10.1042/BJ20040968</i>	H. Kamitsuji, T. Watanabe, Y. Honda and M. Kuwahara	387–393
Analysis of normal and mutant iduronate-2-sulphatase conformation <i>Published as BJ Immediate Publication 25 October 2004, DOI 10.1042/BJ20040739</i>	E. Parkinson-Lawrence, C. Turner, J. Hopwood and D. Brooks	395–400