



1906–2006  
Centenary

**Subscribing organizations are encouraged to copy and distribute this table of contents for non-commercial purposes**

**Biochemical Journal**  
**Volume 396, part 1**  
**15 May 2006**

<http://www.BiochemJ.org>

### Accelerated Publication

The increase in mitochondrial association with actin precedes Bax translocation in apoptosis

*Published as BJ Immediate Publication 15 March 2006,  
doi:10.1042/BJ20060241*

H.L. Tang, A.-H.P. Le and H.L. Lung

1–5

### Online Commentary

Cardiac ryanodine receptor phosphorylation: target sites and functional consequences

*Published on the Internet 26 April 2006,  
doi:10.1042/BJ20060377  
(see accompanying paper pp. 7–16)*

D.M. Bers

e1–e3

### Research Papers

Ser-2030, but not Ser-2808, is the major phosphorylation site in cardiac ryanodine receptors responding to protein kinase A activation upon  $\beta$ -adrenergic stimulation in normal and failing hearts

*Published as BJ Immediate Publication 17 February 2006,  
doi:10.1042/BJ20060116*

B. Xiao, G. Zhong, M. Obayashi, D. Yang, K. Chen, M.P. Walsh, Y. Shimoni, H. Cheng, H. ter Keurs and S.R.W. Chen

7–16



Temperature-dependences of the kinetics of reactions of papain and actininidin with a series of reactivity probes differing in key molecular recognition features

*Published as BJ Immediate Publication 31 January 2006,  
doi:10.1042/BJ20051501*

S. Gul, G.W. Mellor, E.W. Thomas and K. Brocklehurst

17–21

RanBP associates with CD39 and modulates ecto-nucleotidase activity

*Published as BJ Immediate Publication 14 February 2006,  
doi:10.1042/BJ20051568*

Y. Wu, X. Sun, E. Kaczmarek, K.M. Dwyer, E. Bianchi, A. Usheva and S.C. Robson

23–30

Localization of GRP78 to mitochondria under the unfolded protein response

*Published as BJ Immediate Publication 24 January 2006,  
doi:10.1042/BJ20051916*

F.-C. Sun, S. Wei, C.-W. Li, Y.-S. Chang, C.-C. Chao and Y.-K. Lai

31–39

Analysis of the cross-reactivity and of the 1.5 Å crystal structure of the *Malassezia sympodialis* Mal a 6 allergen, a member of the cyclophilin pan-allergen family

*Published as BJ Immediate Publication 16 February 2006,  
doi:10.1042/BJ20051708*

A.G. Glaser, A. Limacher, S. Flückiger, A. Scheynius, L. Scapozza and R. Crameri

41–49

A proteomic approach reveals transient association of reticulocalbin-3, a novel member of the CREC family, with the precursor of subtilisin-like proprotein convertase, PACE4

*Published as BJ Immediate Publication 24 January 2006,  
doi:10.1042/BJ20051524*

A. Tsuji, Y. Kikuchi, Y. Sato, S. Koide, K. Yuasa, M. Nagahama and Y. Matsuda

51–59

Homocysteine- and cysteine-mediated growth defect is not associated with induction of oxidative stress response genes in yeast

*Published as BJ Immediate Publication 24 January 2006,  
doi:10.1042/BJ20051411*

A. Kumar, L. John, Md. M. Alam, A. Gupta, G. Sharma, B. Pillai and S. Sengupta

61–69



IκB is a sensitive target for oxidation by cell-permeable chloramines: inhibition of NF-κB activity by glycine chloramine through methionine oxidation <i>Published as BJ Immediate Publication 12 January 2006, doi:10.1042/BJ20052026</i>	R.G. Midwinter, F.-C. Cheah, J. Moskovitz, M.C. Vissers and C.C. Winterbourn	71–78
The epidermal growth factor receptor (EGFR)-S442F mutant displays increased affinity for neuregulin-2 $\beta$ and agonist-independent coupling with downstream signalling events <i>Published as BJ Immediate Publication 31 January 2006, doi:10.1042/BJ20051687</i>	J.L. Gilmore, R.M. Gallo and D.J. Riese, II	79–88
Src-family kinases mediate an outside-in signal necessary for $\beta$ 2 integrins to achieve full activation and sustain firm adhesion of polymorphonuclear leucocytes tethered on E-selectin <i>Published as BJ Immediate Publication 24 January 2006, doi:10.1042/BJ20051924</i>	L. Totani, A. Piccoli, S. Manarini, L. Federico, R. Pecce, N. Martelli, C. Cerletti, P. Piccardoni, C.A. Lowell, S.S. Smyth, G. Berton and V. Evangelista	89–98
Identification of Ebp1 as a component of cytoplasmic <i>bcl-2</i> mRNP (messenger ribonucleoprotein particle) complexes <i>Published as BJ Immediate Publication 6 January 2006, doi:10.1042/BJ20051548</i>	S.K. Bose, T.K. Sengupta, S. Bandyopadhyay and E.K. Spicer	99–107
Identification of mouse orthologue of endogenous secretory receptor for advanced glycation end-products: structure, function and expression <i>Published as BJ Immediate Publication 28 February 2006, doi:10.1042/BJ20051573</i>	A. Harashima, Y. Yamamoto, C. Cheng, K. Tsuneyama, K.M. Myint, A. Takeuchi, K. Yoshimura, H. Li, T. Watanabe, S. Takasawa, H. Okamoto, H. Yonekura and H. Yamamoto	109–115
Characterization of yeast pyruvate kinase 1 as a protein kinase A substrate, and specificity of the phosphorylation site sequence in the whole protein <i>Published as BJ Immediate Publication 20 January 2006, doi:10.1042/BJ20051642</i>	P. Portela, S. Moreno and S. Rossi	117–126
Participation of a galactose-specific C-type lectin in <i>Drosophila</i> immunity <i>Published as BJ Immediate Publication 13 February 2006, doi:10.1042/BJ20051921</i>	T. Tanji, A. Ohashi-Kobayashi and S. Natori	127–138
The allosteric enhancer PD81,723 increases chimaeric A <sub>1</sub> /A <sub>2A</sub> adenosine receptor coupling with G <sub>s</sub> <i>Published as BJ Immediate Publication 3 January 2006, doi:10.1042/BJ20051422</i>	S. Bhattacharya, R.L. Youkey, K. Ghartey, M. Leonard, J. Linden and A.L. Tucker	139–146
Cellular cholesterol controls TRPC3 function: evidence from a novel dominant-negative knockdown strategy <i>Published as BJ Immediate Publication 31 January 2006, doi:10.1042/BJ20051246</i>	A. Graziani, C. Rosker, S.D. Kohlwein, M.X. Zhu, C. Romanin, W. Sattler, K. Groschner and M. Poteser	147–155
Folate synthesis in plants: purification, kinetic properties, and inhibition of aminodeoxychorismate synthase <i>Published as BJ Immediate Publication 8 February 2006, doi:10.1042/BJ20051851</i>	T. Sahr, S. Ravanel, G. Basset, B.P. Nichols, A.D. Hanson and F. Rébeillé	157–162
TEF-1 and C/EBP $\beta$ are major p38 $\alpha$ MAPK-regulated transcription factors in proliferating cardiomyocytes <i>Published as BJ Immediate Publication 21 February 2006, doi:10.1042/BJ20051502</i>	C. Ambrosino, T. Iwata, C. Scafoglio, M. Mallardo, R. Klein and A.R. Nebreda	163–172
Mitochondria maintain maturation and secretion of lipoprotein lipase in the endoplasmic reticulum <i>Published as BJ Immediate Publication 8 February 2006, doi:10.1042/BJ20060099</i>	K. Osibow, S. Frank, R. Malli, R. Zechner and W.F. Graier	173–182

---

Activation of the superoxide-producing phagocyte NADPH oxidase requires co-operation between the tandem SH3 domains of p47 <sup>phox</sup> in recognition of a polyproline type II helix and an adjacent $\alpha$ -helix of p22 <sup>phox</sup>	I. Nobuhisa, R. Takeya, K. Ogura, N. Ueno, D. Kohda, F. Inagaki and H. Sumimoto	183–192
<i>Published as BJ Immediate Publication 6 February 2006, doi:10.1042/BJ20051899</i>		
G <sub>i</sub> -coupled receptors mediate phosphorylation of CPI-17 and MLC <sub>20</sub> via preferential activation of the PI3K/ILK pathway	J. Huang, S. Mahavadi, W. Sriwai, W. Hu and K.S. Murthy	193–200
<i>Published as BJ Immediate Publication 10 February 2006, doi:10.1042/BJ20051772</i>		

# Index of Authors

PAGE	PAGE	PAGE	PAGE
Alam, Md. M.	61	Hanson, A. D.	157
Ambrosino, C.	163	Harashima, A.	109
		Hu, W.	193
Bandyopadhyay, S.	99	Huang, J.	193
Basset, G.	157	Inagaki, F.	183
Bers, D. M.	e1	Iwata, T.	163
Berton, G.	89	John, L.	61
Bhattacharya, S.	139	Kaczmarek, E.	23
Bianchi, E.	23	Kikuchi, Y.	51
Bose, S. K.	99	Klein, R.	163
Brocklehurst, K.	17	Kohda, D.	183
Cerletti, C.	89	Kohlwein, S. D.	147
Chang, Y.-S.	31	Koide, S.	51
Chao, C.-C.	31	Kumar, A.	61
Cheah, F.-C.	71	Lai, Y.-K.	31
Chen, K.	7	Le, A.-H. P.	1
Chen, S. R. W.	7	Leonard, M.	139
Cheng, C.	109	Li, C.-W.	31
Cheng, H.	7	Li, H.	109
Cramer, R.	41	Limacher, A.	41
Dwyer, K. M.	23	Linden, J.	139
Evangelista, V.	89	Lowell, C. A.	89
Federico, L.	89	Lung, H. L.	1
Flückiger, S.	41	Mahavadi, S.	193
Frank, S.	173	Mallardo, M.	163
Gallo, R. M.	79	Malli, R.	173
Ghartey, K.	139	Manarini, S.	89
Gilmore, J. L.	79	Martelli, N.	89
Glaser, A. G.	41	Matsuda, Y.	51
Graier, W. F.	173	Mellor, G. W.	17
Graziani, A.	147	Midwinter, R. G.	71
Groschner, K.	147	Moreno, S.	117
Gul, S.	17	Moskovitz, J.	71
Gupta, A.	61	Myint, K. M.	109
		Nagahama, M.	51
		Natori, S.	127
		Nebreda, A. R.	163
		Nichols, B. P.	157
		Nobuhisa, I.	183
		Obayashi, M.	7
		Ogura, K.	183
		Ohashi-Kobayashi, A.	127
		Okamoto, H.	109
		Osibow, K.	173
		Pecce, R.	89
		Piccardoni, P.	89
		Piccoli, A.	89
		Pillai, B.	61
		Portela, P.	117
		Poteser, M.	147
		Ravanel, S.	157
		Rébeillé, F.	157
		Riese, II, D. J.	79
		Robson, S. C.	23
		Romanin, C.	147
		Rosker, C.	147
		Rossi, S.	117
		Sahr, T.	157
		Sato, Y.	51
		Sattler, W.	147
		Scafoglio, C.	163
		Scapozza, L.	41
		Scheynius, A.	41
		Sengupta, S.	61
		Sengupta, T. K.	99
		Sharma, G.	61
		Shimoni, Y.	7
		Smyth, S. S.	89
		Spicer, E. K.	99
		Sriwai, W.	193
		Sumimoto, H.	183
		Sun, F.-C.	31
		Sun, X.	23
		Takasawa, S.	109
		Takeuchi, A.	109
		Takeya, R.	183
		Tang, H. L.	1
		Tanji, T.	127
		ter Keurs, H.	7
		Thomas, E. W.	17
		Totani, L.	89
		Tsuji, A.	51
		Tsuneyama, K.	109
		Tucker, A. L.	139
		Ueno, N.	183
		Usheva, A.	23
		Vissers, M. C.	71
		Walsh, M. P.	7
		Watanabe, T.	109
		Wei, S.	31
		Winterbourn, C. C.	71
		Wu, Y.	23
		Xiao, B.	7
		Yamamoto, H.	109
		Yamamoto, Y.	109
		Yang, D.	7
		Yonekura, H.	109
		Yoshimura, K.	109
		Youkey, R. L.	139
		Yuasa, K.	51