

**Biochemical Journal**  
**Volume 354, part 3**  
**15 March 2001**

First published on the Internet  
8 March 2001  
<http://www.BiochemJ.org>

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

**Research Papers**

Stopped-flow kinetics of locked nucleic acid (LNA)–oligonucleotide duplex formation: studies of LNA–DNA and DNA–DNA interactions	U. Christensen, N. Jacobsen, V.K. Rajwanshi, J. Wengel and T. Koch	481–484
Tyr <sup>199</sup> in transmembrane domain 5 of the $\beta_2$ -adrenergic receptor interacts directly with the pharmacophore of a unique fluorenone-based antagonist	Z. Wu, D.S. Thiriot and A.E. Ruoho	485–491
Epicatechin and its <i>in vivo</i> metabolite, 3'-O-methyl epicatechin, protect human fibroblasts from oxidative-stress-induced cell death involving caspase-3 activation	J.P.E. Spencer, H. Schroeter, G. Kuhnle, S.K.S. Srai, R.M. Tyrrell, U. Hahn and C. Rice-Evans	493–500
Human ornithine transcarbamylase: crystallographic insights into substrate recognition and conformational changes	D. Shi, H. Morizono, X. Yu, L. Tong, N.M. Allewell and M. Tuchman	501–509
Natural-resistance-associated macrophage protein 1 is an H <sup>+</sup> /bivalent cation antiporter	T. Goswami, A. Bhattacharjee, P. Babal, S. Searle, E. Moore, M. Li and J.M. Blackwell	511–519
Expression pattern and localization of $\beta,\beta$ -carotene 15,15'-dioxygenase in different tissues	A. Wyss, G.M. Wirtz, W.-D. Woggon, R. Brugger, M. Wyss, A. Friedlein, G. Riss, H. Bachmann and W. Hunziker	521–529
Perivenous expression of the mRNA of the three hypoxia-inducible factor $\alpha$ -subunits, HIF1 $\alpha$ , HIF2 $\alpha$ and HIF3 $\alpha$ , in rat liver	T. Kietzmann, Y. Cornesse, K. Brechtel, S. Modaressi and K. Jungermann	531–537
The effect of Mg <sup>2+</sup> on cardiac muscle function: is CaATP the substrate for priming myofibril cross-bridge formation and Ca <sup>2+</sup> reuptake by the sarcoplasmic reticulum?	G.A. Smith, J.I. Vandenberg, N.S. Freestone and H.B.F. Dixon	539–551
The pancreas-specific protein disulphide-isomerase PDip interacts with a hydroxyaryl group in ligands	P. Klappa, R.B. Freedman, M. Langenbuch, M.S. Lan, G.K. Robinson and L.W. Ruddock	553–559
Multiple endocytic signals in the C-terminal tail of the cystic fibrosis transmembrane conductance regulator	W. Hu, M. Howard and G.L. Lukacs	561–572
Thyrotropin modifies activation of nuclear factor $\kappa$ B by tumour necrosis factor $\alpha$ in rat thyroid cell line	T. Kikumori, F. Kambe, T. Nagaya, H. Funahashi and H. Seo	573–579
Comparative study of protein tyrosine phosphatase- $\epsilon$ isoforms: membrane localization confers specificity in cellular signalling	J.N. Andersen, A. Elson, R. Lammers, J. Rømer, J.T. Clausen, K.B. Møller and N.P.H. Møller	581–590
Cyclosporin A reduces canalicular membrane fluidity and regulates transporter function in rats	S. Yasumiba, S. Tazuma, H. Ochi, K. Chayama and G. Kajiyama	591–596
Molecular interaction of dihydropyridine receptors with type-1 ryanodine receptors in rat brain	J. Mouton, I. Marty, M. Villaz, A. Feltz and Y. Maulet	597–603
Roles of the forkhead in rhabdomyosarcoma (FKHR) phosphorylation sites in regulating 14-3-3 binding, transactivation and nuclear targeting	G. Rena, A.R. Prescott, S. Guo, P. Cohen and T.G. Unterman	605–612
Effect of human acetylcholinesterase subunit assembly on its circulatory residence	T. Chitlaru, C. Kronman, B. Velan and A. Shafferman	613–625
Affinity of mismatch-binding protein MutS for heteroduplexes containing different mismatches	J. Brown, T. Brown and K.R. Fox	627–633
Mitogen-stimulated TIS21 protein interacts with a protein-kinase-C $\alpha$ -binding protein rPICK1	W.-J. Lin, Y.-F. Chang, W.-L. Wang and C.-Y.F. Huang	635–643



---

Differential expression of chicken dimerization cofactor of hepatocyte nuclear factor-1 (DcoH) and its novel counterpart, DcoH $\alpha$	H. Kim, S. You, L.K. Foster, J. Farris, Y.-J. Choi and D.N. Foster	<b>645–653</b>
Identification of Cdc6 protein domains involved in interaction with Mcm2 protein and Cdc4 protein in budding yeast cells	S.-W. Jang, S. Elsasser, J.L. Campbell and J. Kim	<b>655–661</b>
Substrate-binding characteristics of proteins in the 90 kDa heat shock protein family	T.K. Nemoto, T. Ono and K.-i. Tanaka	<b>663–670</b>
Delivery of oligonucleotides into mammalian cells by anionic peptides: comparison between monomeric and dimeric peptides	I. Freulon, A.-C. Roche, M. Monsigny and R. Mayer	<b>671–679</b>
Phosphatidic acid–phosphatidylethanolamine interaction and apocytochrome c translocation across model membranes	Q. Miao, X. Han and F. Yang	<b>681–688</b>
'Shed' furin: mapping of the cleavage determinants and identification of its C-terminus	B. Plainauer, G. Mohr, W. Wernhart, M. Himmelspach, F. Dorner and U. Schlokat	<b>689–695</b>
Guanylate cyclase in <i>Dictyostelium discoideum</i> with the topology of mammalian adenylate cyclase	J. Roelofs, H. Snippe, R.G. Kleineidam and P.J.M. Van Haastert	<b>697–706</b>
Biochemical characterization of the 2-ketoacid reductases encoded by <i>ycdW</i> and <i>yiaE</i> genes in <i>Escherichia coli</i>	M.F. Nuñez, M.T. Pellicer, J. Badia, J. Aguilar and L. Baldoma	<b>707–715</b>
Increased inwardly rectifying potassium currents in HEK-293 cells expressing murine transient receptor potential 4	Z. Zhang, Y. Tang and M.X. Zhu	<b>717–725</b>

**Corrections**

Angiotensin II stimulates cyclic ADP-ribose formation in neonatal rat cardiac myocytes by H. Higashida, J.-S. Zhang, M. Hashii, M. Shintaku, C. Higashida and Y. Takeda (volume 352, 2000, pp. 197–202)	<b>727</b>
The neuronal calcium sensor family of Ca <sup>2+</sup> -binding proteins R.D. Burgoyne and J.L. Weiss (volume 353, 2001, pp. 1–12)	<b>727</b>
Oxidation of pyridine nucleotides during Fas- and ceramide-induced apoptosis in Jurkat cells: correlation with changes in mitochondria, glutathione depletion, intracellular acidification and caspase 3 activation P.X. Petit, M.-C. Gendron, N. Schrantz, D. Métivier, G. Kroemer, Z. Maciorowska, F. Sureau and S. Koester (volume 353, 2001, pp. 357–367)	<b>727</b>