

**Review****Structure, function and mechanism of exocyclic DNA methyltransferases**

*Published on the Internet 27 September 2006,  
doi:10.1042/BJ20060854*

S. Bheemanaik, Y.V.R. Reddy and D.N. Rao

177–190

**Online Commentaries**

## Compatible solutes and fungal development

*Published on the Internet 27 September 2006,  
doi:10.1042/BJ20061229  
(see accompanying paper pp. 231–239)*

J. Dijksterhuis and R.P. de Vries

e3–e5

## Intricacies and surprises of nuclear–mitochondrial co-evolution

*Published on the Internet 27 September 2006,  
doi:10.1042/BJ20061241  
(see accompanying paper pp. 249–256)*

D.K. Willkomm and R.K. Hartmann

e7–e9

## The fructosamine 3-kinase knockout mouse: a tool for testing the glycation hypothesis of intracellular protein damage in diabetes and aging

*Published on the Internet 27 September 2006,  
doi:10.1042/BJ20061232  
(see accompanying paper pp. 257–264)*

V.M. Monnier

e11–e13

**Research Papers**

## Conformational transitions induced in heparin octasaccharides by binding with antithrombin III

*Published as BJ Immediate Publication 23 June 2006,  
doi:10.1042/BJ20060656*

M. Guerrini, S. Guglieri, D. Beccati, G. Torri, C. Viskov and P. Mourier

191–198

## Structural basis for non-competitive product inhibition in human thymidine phosphorylase: implications for drug design

*Published as BJ Immediate Publication 28 June 2006,  
doi:10.1042/BJ20060513*

K. El Omari, A. Bronckaers, S. Liekens, M.-J. Pérez-Pérez, J. Balzarini and D.K. Stammers

199–204

Statins inhibit the dimerization of  $\beta$ -secretase via both isoprenoid- and cholesterol-mediated mechanisms

*Published as BJ Immediate Publication 28 June 2006,  
doi:10.1042/BJ20060655*

R.B. Parsons, G.C. Price, J.K. Farrant, D. Subramaniam, J. Adeagbo-Sheikh and B.M. Austen

205–214

## Structure-guided design of a novel class of benzyl-sulfonate inhibitors for influenza virus neuraminidase

*Published as BJ Immediate Publication 16 June 2006,  
doi:10.1042/BJ20060447*

D. Platis, B.J. Smith, T. Huyton and N.E. Labrou

215–223

Human  $\alpha$ -defensins neutralize toxins of the mono-ADP-ribosyltransferase family


*Published as BJ Immediate Publication 3 July 2006,  
doi:10.1042/BJ20060425*

C. Kim, Z. Slavinskaya, A.R. Merrill and S.H.E. Kaufmann

225–229

- Mannitol is required for asexual sporulation in the wheat pathogen *Stagonospora nodorum* (glume blotch)  
Published as BJ Immediate Publication 24 July 2006,  
doi:10.1042/BJ20060891
- P.S. Solomon, O.D.C. Waters, C.I. Jörgens, R.G.T. Lowe, J. Rechberger, R.D. Trengove and R.P. Oliver
-   **231–239**
- Functional analysis of a group A streptococcal glycoside hydrolase Spy1600 from family 84 reveals it is a  $\beta$ -N-acetylglucosaminidase and not a hyaluronidase  
Published as BJ Immediate Publication 6 July 2006,  
doi:10.1042/BJ20060307
- W.L. Sheldon, M.S. Macauley, E.J. Taylor, C.E. Robinson, S.J. Charnock, G.J. Davies, D.J. Vocadlo and G.W. Black
-  **241–247**
- A protein extension to shorten RNA: elongated elongation factor-Tu recognizes the D-arm of T-armless tRNAs in nematode mitochondria  
Published as BJ Immediate Publication 21 July 2006,  
doi:10.1042/BJ20060781
- M. Sakurai, Y.-i. Watanabe, K. Watanabe and T. Ohtsuki
-   **249–256**
- Increased protein glycation in fructosamine 3-kinase-deficient mice  
Published as BJ Immediate Publication 5 July 2006,  
doi:10.1042/BJ20060684
- M. Veiga-da-Cunha, P. Jacquemin, G. Delpierre, C. Godfraind, I. Théate, D. Vertommen, F. Clotman, F. Lemaigre, O. Devuyst and E. Van Schaffingen
-  **257–264**
- Phosphorylation of the ARE-binding protein DAZAP1 by ERK2 induces its dissociation from DAZ  
Published as BJ Immediate Publication 19 July 2006,  
doi:10.1042/BJ20060681
- S. Morton, H.-T. Yang, N. Moleleki, D.G. Campbell, P. Cohen and S. Rousseau
- 265–273**
- Insulin induction of glucokinase and fatty acid synthase in hepatocytes: analysis of the roles of sterol-regulatory-element-binding protein-1c and liver X receptor  
Published as BJ Immediate Publication 12 July 2006,  
doi:10.1042/BJ20060811
- F. Hansmann, S. Mordier and P.B. Iynedjian
- 275–283**
- Hepatocyte nuclear factor-4 $\alpha$  contributes to carbohydrate-induced transcriptional activation of hepatic fatty acid synthase  
Published as BJ Immediate Publication 27 June 2006,  
doi:10.1042/BJ20060659
- A.W. Adamson, G. Suchankova, C. Rufo, M.T. Nakamura, M. Teran-Garcia, S.D. Clarke and T.W. Gettys
- 285–295**
- Recruitment of the SWI/SNF protein Brg1 by a multiprotein complex effects transcriptional repression in murine erythroid progenitors  
Published as BJ Immediate Publication 27 June 2006,  
doi:10.1042/BJ20060873
- Z. Xu, X. Meng, Y. Cai, M.J. Koury and S.J. Brandt
-  **297–304**
- Characterization of a novel cAMP-binding, cAMP-specific cyclic nucleotide phosphodiesterase (TcrPDEB1) from *Trypanosoma cruzi*  
Published as BJ Immediate Publication 16 June 2006,  
doi:10.1042/BJ20060757
- R. Díaz-Benjumea, S. Laxman, T.R. Hinds, J.A. Beavo and A. Rascón
-  **305–314**
- Conformational and functional characterization of trapped complexes of the P-glycoprotein multidrug transporter  
Published as BJ Immediate Publication 28 June 2006,  
doi:10.1042/BJ20060015
- P.L. Russell and F.J. Sharom
- 315–323**
- Aldolase potentiates DIDS activation of the ryanodine receptor in rabbit skeletal sarcoplasmic reticulum  
Published as BJ Immediate Publication 3 July 2006,  
doi:10.1042/BJ20060701
- I.-R. Seo, S.H. Moh, E.H. Lee, G. Meissner and D.H. Kim
-  **325–333**
- Cell cycle-dependent expression of cIAP2 at G2/M phase contributes to survival during mitotic cell cycle arrest  
Published as BJ Immediate Publication 3 July 2006,  
doi:10.1042/BJ20060612
- H.-S. Jin and T.H. Lee
- 335–342**

---

Free-energy profiles for catalysis by dual-specificity phosphatases <i>Published as BJ Immediate Publication 20 June 2006, doi:10.1042/BJ20060637</i>	G.M. Arantes		<b>343–350</b>
Transmembrane segment 7 of human P-glycoprotein forms part of the drug-binding pocket <i>Published as BJ Immediate Publication 3 July 2006, doi:10.1042/BJ20060715</i>	T.W. Loo, M.C. Bartlett and D.M. Clarke		<b>351–359</b>