

Reviews

- Pancreatic β -cell identity, glucose sensing and the control of insulin secretion** G.A. Rutter, T.J. Pullen, D.J. Hodson and A. Martinez-Sanchez **203–218**
Published on the Internet 20 February 2015, doi:10.1042/BJ20141384
- Comparative structural analysis of the caspase family with other clan CD cysteine peptidases** K. McLuskey and J.C. Mottram **219–232**
Published on the Internet 20 February 2015, doi:10.1042/BJ20141324

Accelerated Publication

- Trehalose-6-phosphate synthase 1 is not the only active TPS in *Arabidopsis thaliana* I. Delorge, C.M. Figueroa, R. Feil, J.E. Lunn and P. Van Dijck **283–290**
Published as BJ Immediate Publication 12 December 2014, doi:10.1042/BJ20141322

Research Papers

- Cu^{2+} accentuates distinct misfolding of $\text{A}\beta_{(1-40)}$ and $\text{A}\beta_{(1-42)}$ peptides, and potentiates membrane disruption C.J. Matheou, N.D. Younan and J.H. Viles **233–242**
Published as BJ Immediate Publication 4 December 2014, doi:10.1042/BJ20141168
- Kinetic characterization of a cocaine hydrolase engineered from mouse butyrylcholinesterase X. Chen, X. Huang, L. Geng, L. Xue, S. Hou, X. Zheng, S. Brimijoin, F. Zheng and C.-G. Zhan **243–251**
Published as BJ Immediate Publication 8 December 2014, doi:10.1042/BJ20141266
- Catalytic surface radical in dye-decolorizing peroxidase: a computational, spectroscopic and site-directed mutagenesis study D. Linde, R. Pogni, M. Cañellas, F. Lucas, V. Guallar, M. Camilla Baratto, A. Sinicropi, V. Sáez-Jiménez, C. Coscollín, A. Romero, F. Javier Medrano, F.J. Ruiz-Dueñas and A.T. Martínez **253–262**
Published as BJ Immediate Publication 11 December 2014, doi:10.1042/BJ20141211
- The sigma-1 receptors are present in monomeric and oligomeric forms in living cells in the presence and absence of ligands A.K. Mishra, T. Mavlyutov, D.R. Singh, G. Biener, J. Yang, J.A. Oliver, A. Ruoho and V. Raicu **263–271**
Published as BJ Immediate Publication 15 December 2014, doi:10.1042/BJ20141321
- Proline dehydrogenase 2 (PRODH2) is a hydroxyproline dehydrogenase (HYPDH) and molecular target for treating primary hyperoxaluria C.B. Summitt, L.C. Johnson, T.J. Jönsson, D. Parsonage, R.P. Holmes and W. Todd Lowther **273–281**
Published on the Internet 20 February 2015, doi:10.1042/BJ20141159
- FoxO1 negatively regulates leptin-induced POMC transcription through its direct interaction with STAT3 W. Ma, G. Fuentes, X. Shi, C. Verma, G.K. Radda and W. Han **291–298**
Published as BJ Immediate Publication 16 December 2014, doi:10.1042/BJ20141109
- The solution structure of the MANEC-type domain from hepatocyte growth factor activator inhibitor-1 reveals an unexpected PAN/apple domain-type fold Z. Hong, M. Nowakowski, C. Spronk, S.V. Petersen, P.A. Andreasen, W. Koźmiński, F.A.A. Mulder and J.K. Jensen **299–309**
Published as BJ Immediate Publication 16 December 2014, doi:10.1042/BJ20141236
- Conserved proline-directed phosphorylation regulates SR protein conformation and splicing function M.M. Keshwani, B.E. Aubol, L. Fattet, C.-T. Ma, J. Qiu, P.A. Jennings, X.-D. Fu and J.A. Adams **311–322**
Published as BJ Immediate Publication 22 December 2014, doi:10.1042/BJ20141373

Contents

- Expression of different bacterial cytotoxins is controlled by two global transcription factors, CRP and Fis, that co-operate in a shared-recruitment mechanism
Published as BJ Immediate Publication 8 December 2014, doi:10.1042/BJ20141315 **323–335**
A.E. Rossiter, R.E. Godfrey, J.A. Connolly, S.J. W. Busby, I.R. Henderson and D.F. Browning
- Observed bromodomain flexibility reveals histone peptide- and small molecule ligand-compatible forms of ATAD2
Published as BJ Immediate Publication 8 December 2014, doi:10.1042/BJ20140933 **337–346**
G. Poncet-Montange, Y. Zhan, J.P. Bardenhagen, A. Petrocchi, E. Leo, X. Shi, G.R. Lee IV, P.G. Leonard, M.K. Geck Do, M.G. Cardozo, J.N. Andersen, W.S. Palmer, P. Jones and J.E. Ladbury
- The regulatory role of *Streptomyces coelicolor* TamR in central metabolism
Published as BJ Immediate Publication 11 December 2014, doi:10.1042/BJ20130838 **347–358**
H. Huang, S. Sivapragasam and A. Grove
- The function of phosphatidylinositol 5-phosphate 4-kinase γ (PI5P4K γ) explored using a specific inhibitor that targets the PI5P-binding site
Published as BJ Immediate Publication 11 December 2014, doi:10.1042/BJ20141333 **359–367**
J.H. Clarke, M.-L. Giudici, J.E. Burke, R.L. Williams, D.J. Maloney, J. Marugan and R.F. Irvine
- C/EBP homologous protein (CHOP) contributes to hepatocyte death via the promotion of ERO1 α signalling in acute liver failure
Published as BJ Immediate Publication 11 November 2014, doi:10.1042/BJ20140412 **369–378**
J. Rao, C. Zhang, P. Wang, L. Lu, X. Qian, J. Qin, X. Pan, G. Li, X. Wang and F. Zhang
- Steatosis inhibits liver cell store-operated Ca²⁺ entry and reduces ER Ca²⁺ through a protein kinase C-dependent mechanism
Published as BJ Immediate Publication 24 November 2014, doi:10.1042/BJ20140881 **379–390**
C.H. Wilson, E.S. Ali, N. Scrimgeour, A.M. Martin, J. Hua, G.A. Tallis, G.Y. Rychkov and G.J. Barritt
- Bombyx mori* prothoracicostatic peptide receptor is allosterically activated via a G $\alpha_{i/o}$ -protein-biased signalling cascade by *Drosophila* sex peptide
Published as BJ Immediate Publication 25 November 2014, doi:10.1042/BJ20141146 **391–400**
X. He, J. Zang, H. Yang, H. Huang, Y. Shi, C. Zhu and N. Zhou
- Iron alters cell survival in a mitochondria-dependent pathway in ovarian cancer cells
Published on the Internet 20 February 2015, doi:10.1042/BJ20140878 **401–413**
K. Bauckman, E. Haller, N. Taran, S. Rockfield, A. Ruiz-Rivera and M. Nanjundan
- Andrographolide activates the canonical Wnt signalling pathway by a mechanism that implicates the non-ATP competitive inhibition of GSK-3 β : autoregulation of GSK-3 β *in vivo*
Published as BJ Immediate Publication 25 November 2014, doi:10.1042/BJ20140207 **415–430**
C. Tapia-Rojas, A. Schüller, C.B. Lindsay, R.C. Ureta, C. Mejías-Reyes, J. Hancke, F. Melo and N.C. Inestrosa