

Editorial*Biochemical Journal strengthens links in Asia**Published on the Internet 23 October 2014,
doi:10.1042/BJ20140874*

P.R. Shepherd

1

Online Commentaries

The structure of lipoyl synthase, a remarkable enzyme that performs the last step of an extraordinary biosynthetic pathway
*Published on the Internet 23 October 2014,
doi:10.1042/BJ20141061
(see accompanying paper, pp. 123–133)*

J.E. Cronan

e1–e3

The RED light is on! New tools for monitoring Ca^{2+} dynamics in the endoplasmic reticulum and mitochondria
*Published on the Internet 23 October 2014,
doi:10.1042/BJ20141183
(see accompanying paper, pp. 13–21)*

S. Marchi and P. Pinton

e5–e6

Research Papers

The antimicrobial peptide LL-37 facilitates the formation of neutrophil extracellular traps
*Published as BJ Immediate Publication 2 September 2014,
doi:10.1042/BJ20140778*

A. Neumann, E.T.M. Berends, A. Nerlich, E.M. Molhoek, R.L. Gallo, T. Meerloo, V. Nizet, H.Y. Naim and M. Von Köckritz-Blickwede

3–11

Red fluorescent genetically encoded Ca^{2+} indicators for use in mitochondria and endoplasmic reticulum
*Published as BJ Immediate Publication 28 August 2014,
doi:10.1042/BJ20140931*

J. Wu, D.L. Prole, Y. Shen, Z. Lin, A. Gnanasekaran, Y. Liu, L. Chen, H. Zhou, S.R.W. Chen, Y.M. Usachev, C.W. Taylor and R.E. Campbell

13–21



Nucleotide binding triggers a conformational change of the CBS module of the magnesium transporter CNNM2 from a twisted towards a flat structure
*Published as BJ Immediate Publication 3 September 2014,
doi:10.1042/BJ20140409*

M. Á. Corral-Rodríguez, M. Stuiver, G. Abascal-Palacios, T. Diercks, I. Oyenarte, J. Ereño-Orbea, A. Ibáñez de Opakua, F.J. Blanco, J.A. Encinar, V. Spiwok, H. Terashima, A. Accardi, D. Müller and L.A. Martínez-Cruz

23–34

MondoA deficiency enhances sprint performance in mice
*Published as BJ Immediate Publication 22 August 2014,
doi:10.1042/BJ20140530*

M. Imamura, B.H.-J. Chang, M. Kohjima, M. Li, B. Hwang, H. Taegtmeyer, R.A. Harris and L. Chan

35–48

Molecular and structural transmembrane determinants critical for embedding claudin-5 into tight junctions reveal a distinct four-helix bundle arrangement
*Published as BJ Immediate Publication 1 September 2014,
doi:10.1042/BJ20140431*

J. Rossa, J. Protze, C. Kern, A. Piontek, D. Günzel, G. Krause and J. Piontek

49–60

CYP-13A12 of the nematode *Caenorhabditis elegans* is a PUFA-epoxygenase involved in behavioural response to reoxygenation
*Published as BJ Immediate Publication 20 August 2014,
doi:10.1042/BJ20140848*

J. Keller, A. Ellieva, D.K. Ma, J. Ju, E. Nehk, A. Konkel, J.R. Falck, W.-H. Schunck and R. Menzel

61–71

TRPC1 contributes to the Ca^{2+} -dependent regulation of adenylate cyclases
*Published as BJ Immediate Publication 18 August 2014,
doi:10.1042/BJ20140766*

D. Willoughby, H.L. Ong, L.B. De Souza, S. Wachten, I.S. Ambudkar and D.M.F. Cooper

73–84

Contents

Specific aromatic foldamers potently inhibit spontaneous and seeded A β 42 and A β 43 fibril assembly <i>Published as BJ Immediate Publication 21 August 2014, doi:10.1042/BJ20131609</i>	K.M. Seither, H.A. McMahon, N. Singh, H. Wang, M. Cushman-Nick, G.L. Montalvo, W.F. DeGrado and J. Shorter	85–98
MEKK2 regulates paxillin ubiquitylation and localization in MDA-MB 231 breast cancer cells <i>Published as BJ Immediate Publication 5 September 2014, doi:10.1042/BJ20140420</i>	M. Ameka, M.P. Kahle, M. Perez-Neut, S. Gentile, A.A. Mirza and B.D. Cuevas	99–108
Ribosomal protein S19-binding domain provides insights into hantavirus nucleocapsid protein-mediated translation initiation mechanism <i>Published as BJ Immediate Publication 25 July 2014, doi:10.1042/BJ20140449</i>	S.S. Ganaie, A. Haque, E. Cheng, T.S. Bonny, N.N. Salim and M.A. Mir	109–121
Structures of lipoyl synthase reveal a compact active site for controlling sequential sulfur insertion reactions <i>Published as BJ Immediate Publication 6 August 2014, doi:10.1042/BJ20140895</i>	J.E. Harmer, M.J. Hiscox, P.C. Dinis, S.J. Fox, A. Iliopoulos, J.E. Hussey, J. Sandy, F.T. Van Beek, J.W. Essex and P.L. Roach	123–133
The structure of the Slrp-Trx1 complex sheds light on the autoinhibition mechanism of the type III secretion system effectors of the NEL family <i>Published as BJ Immediate Publication 3 September 2014, doi:10.1042/BJ20140587</i>	S. Zouhir, J. Bernal-Bayard, M. Cordero-Alba, E. Cardenal-Muñoz, B. Guimaraes, N. Lazar, F. Ramos-Morales and S. Nessler	135–144
PI4KII α phosphorylation by GSK3 directs vesicular trafficking to lysosomes <i>Published as BJ Immediate Publication 01 August 2014, doi:10.1042/BJ20140497</i>	J.W. Robinson, I. Leshchyns'ka, H. Farghaian, W.E. Hughes, V. Sytnyk, G.G. Neely and A.R. Cole	145–156
SIRT3 interactions with FOXO3 acetylation, phosphorylation and ubiquitinylolation mediate endothelial cell responses to hypoxia <i>Published as BJ Immediate Publication 27 August 2014, doi:10.1042/BJ20140213</i>	A.H.-H. Tseng, L.-H. Wu, S.-S. Shieh and D.L. Wang	157–168

