

## **BIOCHEMICAL JOURNAL**

Volume 404, part 3

15 June 2007

# http://www.BiochemJ.org

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

### Review

The protective and destructive roles played by molecular chaperones during ERAD (endoplasmic-reticulum-associated degradation) Published on the Internet 29 May 2007, doi:10.1042/BJ20061890

J.L. Brodsky



353-363

#### **Online Commentary**

Collagen pretzels revealed by electron microscopy Published on the Internet 29 May 2007, doi:10.1042/BJ20070416

e7-e8

365-372

373-381

### **Research Papers**

Chemical structure of the cell-wall mannan of Candida albicans serotype A and its difference in yeast and hyphal forms

Published as BJ Immediate Publication 1 March 2007, doi:10.1042/BJ20070081

Bystin in human cancer cells: intracellular localization and function in ribosome biogenesis Published as BJ Immediate Publication 23 March 2007, doi:10.1042/BJ20061597

The inositol 1,4,5-trisphosphate receptor (Itpr) gene family in Xenopus: identification of type 2 and type 3 inositol 1,4,5-trisphosphate receptor subtypes

Published as BJ Immediate Publication 6 March 2007. doi:10.1042/BJ20070101

Fragment length influences affinity for Cu<sup>2+</sup> and Ni<sup>2+</sup> binding to His<sup>96</sup> or His<sup>111</sup> of the prion protein and spectroscopic evidence for a multiple histidine binding only at low pH

Published as BJ Immediate Publication 2 March 2007, doi:10.1042/BJ20061893

Intracellular catalysis of disulfide bond formation by the human sulfhydryl oxidase, QSOX1 Published as BJ Immediate Publication 1 March 2007. doi:10.1042/BJ20061510

A vasopressin/oxytocin-related conopeptide with γ-carboxyglutamate at position 8 Published as BJ Immediate Publication 2 March 2007, doi:10.1042/BJ20061480

Catalytic mechanism of Zn<sup>2+</sup>-dependent polyol dehydrogenases: kinetic comparison of sheep liver sorbitol dehydrogenase with wild-type and Glu<sup>154</sup> → Cys forms of yeast xylitol dehydrogenase Published as BJ Immediate Publication 8 March 2007, doi:10 1042/BJ20061384

K201 (JTV519) suppresses spontaneous Ca<sup>2+</sup> release and [3H]ryanodine binding to RyR2 irrespective of FKBP12.6 association Published as BJ Immediate Publication 22 February 2007, doi:10.1042/BJ20070135

K. Kadler

N. Shibata, A. Suzuki, H. Kobayashi and Y. Okawa

M. Miyoshi, T. Okajima, T. Matsuda, M.N. Fukuda and D. Nadano

D. Zhang, M.J. Boulware, M.R. Pendleton, T. Nogi and J.S. Marchant

M. Klewpatinond and J.H. Viles

S. Chakravarthi, C.E. Jessop, M. Willer, C.J. Stirling and N.J. Bulleid

C. Möller and F. Marí

M. Klimacek, H. Hellmer and B. Nidetzky

D.J. Hunt, P.P. Jones, R. Wang, W. Chen, J. Bolstad, K. Chen, Y. Shimoni and S.R.W. Chen

431-438

383-391

online data

393-402

403-411

413-419

421-429

| Phosphoethanolamine <i>N</i> -methyltransferase (PMT-1) catalyses the first reaction of a new pathway for phosphocholine biosynthesis in <i>Caenorhabditis elegans Published as BJ Immediate Publication 22 February 2007, doi:10.1042/BJ20061815</i> | K.M. Brendza, W. Haakenson, R.E. Cahoon, L.M. Hicks,<br>L.H. Palavalli, B.J. Chiapelli, M. McLaird, J.P. McCarter,<br>D.J. Williams, M.C. Hresko and J.M. Jez |                   | 439–448 |
|---|---|-------------------|---------|
| Evidence for functional redundancy of class IA PI3K isoforms in insulin signalling Published as BJ Immediate Publication 16 March 2007, doi:10.1042/BJ20070003  | C. Chaussade, G.W. Rewcastle, J.D. Kendall, W.A. Denny,<br>K. Cho, L.M. Grønning, M.L. Chong, S.H. Anagnostou,<br>S.P. Jackson, N. Daniele and P.R. Shepherd  |                   | 449–458 |
| Nrf2 Neh5 domain is differentially utilized in the transactivation of cytoprotective genes Published as BJ Immediate Publication 21 February 2007, doi:10.1042/BJ20061611   | J. Zhang, T. Hosoya, A. Maruyama, K. Nishikawa,<br>J.M. Maher, T. Ohta, H. Motohashi, A. Fukamizu,<br>S. Shibahara, K. Itoh and M. Yamamoto                   |                   | 459–466 |
| The reductase NCB5OR is responsive to the redox status in β-cells and is not involved in the ER stress response  Published as BJ Immediate Publication 7 March 2007,  doi:10.1042/BJ20061859  | K. Larade, Zg. Jiang, A. Dejam, H. Zhu and H.F. Bunn  |                   | 467–476 |
| The mechanism of addition of pyridoxal 5'-phosphate to <i>Escherichia coli</i> apo-serine hydroxymethyltransferase <i>Published as BJ Immediate Publication 6 March 2007, doi:10.1042/BJ20061681</i>  | F. Malerba, A. Bellelli, A. Giorgi, F. Bossa and<br>R. Contestabile   |                   | 477–485 |
| Autophosphorylation-dependent degradation of Pak1, triggered by the Rho-family GTPase, Chp Published as BJ Immediate Publication 13 March 2007, doi:10.1042/BJ20061696  | M. Weisz Hubsman, N. Volinsky, E. Manser, D. Yablonski and A. Aronheim  |                   | 487–497 |
| AMP-activated protein kinase-independent inhibition of hepatic mitochondrial oxidative phosphorylation by AICA riboside Published as BJ Immediate Publication 27 February 2007, doi:10.1042/BJ20070105  | B. Guigas, N. Taleux, M. Foretz, D. Detaille, F. Andreelli, B. Viollet and L. Hue   | online data       | 499–507 |
| Transient arrest in proteasomal degradation during inhibition of translation in the unfolded protein response Published as BJ Immediate Publication 5 March 2007, doi:10.1042/BJ20061854  | M. Shenkman, S. Tolchinsky, M. Kondratyev and G.Z. Lederkremer  |                   | 509–516 |
| Artificially evolved <i>Synechococcus</i> PCC6301<br>Rubisco variants exhibit improvements in folding<br>and catalytic efficiency<br><i>Published as BJ Immediate Publication 21 March 2007</i> ,<br>doi:10.1042/BJ20070071                           | D.N. Greene, S.M. Whitney and I. Matsumura  | online data       | 517–524 |
| Synaptophysin I selectively specifies the exocytic pathway of synaptobrevin 2/VAMP2 Published as BJ Immediate Publication 2 March 2007, doi:10.1042/BJ20061907  | D. Bonanomi, L. Rusconi, C.A. Colombo, F. Benfenati and F. Valtorta   | online data       | 525–534 |
| The molecular structure of human tissue type XV presents a unique conformation among the collagens Published as BJ Immediate Publication 13 March 2007, doi:10.1042/BJ20070201  | J.C. Myers, P.S. Amenta, A.S. Dion, J.P. Sciancalepore, C. Nagaswami, J.W. Weisel and P.D. Yurchenco  | Online commentari | 535–544 |