

BIOCHEMICAL JOURNAL

Volume 454, part 1

15 August 2013

http://www.BiochemJ.org

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

_	_	
D	aviau	10
n	eview	19

Insulin resistance and atherosclerosis: convergence between metabolic pathways and inflammatory nodes

Published on the Internet 26 July 2013, doi:10.1042/BJ20130121

SOCK, MiSTs, MASK and STicKs: the GCKIII (germinal centre kinase III) kinases and their heterologous protein–protein interactions

Published on the Internet 26 July 2013, doi:10.1042/BJ20130219

R. Stöhr and M. Federici

P.H. Sugden, L.J. McGuffin and A. Clerk



13-30

31-38

39-47

49-57

59-68

69-77

79-89

1-11

Research Papers

Vesicular uptake of *N*-acetylaspartylglutamate is catalysed by sialin (SLC17A5) *Published on the Internet 26 July 2013,*

doi:10.1042/BJ20130300

Crystal structures of S6K1 provide insights into the regulation mechanism of S6K1 by the hydrophobic motif

Published as BJ Immediate Publication 3 June 2013, doi:10.1042/BJ20121863

Evolutionarily conserved structural changes in phosphatidylinositol 5-phosphate 4-kinase (PI5P4K) isoforms are responsible for differences in enzyme activity and localization

Published as BJ Immediate Publication 12 June 2013, doi:10.1042/BJ20130488

Structural insights into the inhibition of type VI effector Tae3 by its immunity protein Tai3 *Published as BJ Immediate Publication 3 June 2013, doi:10.1042/BJ20130193*

Trafficking defects in PAS domain mutant $K_V 11.1$ channels: roles of reduced domain stability and altered domain—domain interactions Published as BJ Immediate Publication 31 May 2013, doi:10.1042/BJ20130328

The type III TGF β receptor regulates filopodia formation via a Cdc42-mediated IRSp53–N-WASP interaction in epithelial cells *Published as BJ Immediate Publication 10 June 2013*,

Cell cycle regulation of purine synthesis by phosphoribosyl pyrophosphate and inorganic phosphate

Published as BJ Immediate Publication 4 June 2013, doi:10.1042/BJ20130153

doi:10.1042/BJ20121701

Pharmacological characteristics of Kv1.1- and Kv1.2-containing channels are influenced by the stoichiometry and positioning of their α subunits Published as BJ Immediate Publication 31 May 2013, doi:10.1042/BJ20130297

J. Lodder-Gadaczek, V. Gieselmann and M. Eckhardt

J. Wang, C. Zhong, F. Wang, F. Qu and J. Ding

J.H. Clarke and R.F. Irvine

C. Dong, H. Zhang, Z.-Q. Gao, W.-J. Wang, Z. She, G.-F. Liu, Y.-Q. Shen, X.-D. Su and Y.-H. Dong

Y. Ke, C.A. Ng, M.J. Hunter, S.A. Mann, J. Heide, A.P. Hill and J.I. Vandenberg $\,$

S.Y. Oh, E.H. Knelson, G.C. Blobe and K. Mythreye

A. Fridman, A. Saha, A. Chan, D.E. Casteel, R.B. Pilz and G.R. Boss

A. Al-Sabi, S.K. Kaza, J.O. Dolly and J. Wang

online data

91–99

online date

101-108

Contents

formation

CD25 and CD69 induction by $\alpha 4\beta 1$ outside-in signalling requires TCR early signalling complex proteins Published as BJ Immediate Publication 11 June 2013, doi:10.1042/BJ20130485	AM. Cimo, Z. Ahmed, B.W. McIntyre, D.E. Lewis and J.E. Ladbury		109–121
The CPVT-associated RyR2 mutation G230C enhances store overload-induced Ca ²⁺ release and destabilizes the N-terminal domains <i>Published as BJ Immediate Publication 7 June 2013, doi:10.1042/BJ20130594</i>	Y. Liu, L. Kimlicka, F. Hiess, X. Tian, R. Wang, L. Zhang, P.P. Jones, F. Van Petegem and S.R.W. Chen		123–131
Roles of EXTL2, a member of the EXT family of tumour suppressors, in liver injury and regeneration processes Published as BJ Immediate Publication 4 June 2013, doi:10.1042/BJ20130323	S. Nadanaka, S. Kagiyama and H. Kitagawa	online date	133–145
Copper chaperone Atox1 interacts with the metal-binding domain of Wilson's disease protein in cisplatin detoxification Published as BJ Immediate Publication 11 June 2013, doi:10.1042/BJ20121656	N.V. Dolgova, S. Nokhrin, C.H. Yu, G.N. George and O.Y. Dmitriev	online data	147–156
Single residues dictate the co-evolution of dual esterases: MCP hydrolases from the α/β hydrolase family Published as BJ Immediate Publication 10 June 2013, doi:10.1042/BJ20130552	M. Alcaide, J. Tornés, P.J. Stogios, X. Xu, C. Gertler, R. Di Leo, R. Bargiela, Á. Lafraya, ME. Guazzaroni, N. López-Cortés, T.N. Chernikova, O.V. Golyshina, T.Y. Nechitaylo, I. Plumeier, D.H. Pieper, M.M. Yakimov, A. Savchenko, P.N. Golyshin and M. Ferrer	online days	157–166
Correction			
Structural characterization of amorphous calcium carbonate-binding protein: an insight into the mechanism of amorphous calcium carbonate	J. Su, X. Liang, Q. Zhou, G. Zhang, H. Wang, L. Xie and R. Zhang		167