

CONTENTS Vol. 152, No. 1

JB Commentary

- Roles of Dppa2 in the regulation of the present status and future of pluripotent stem cells T. Watabe 1

JB Review

- Featured article of the month.* Liver autophagy: physiology and pathology M. Komatsu 5

Regular Papers

- 2'-O,4'-C-ethylene bridged nucleic acid modification enhances pyrimidine motif triplex-forming ability under physiological condition H. Torigoe, N. Sato and N. Nagasawa 17
- Specific conformation and Ca²⁺-binding mode of yeast calmodulin: insight into evolutionary development K. Nakashima, H. Ishida, A. Nakatomi and M. Yazawa 27
- Reactive oxygen species production and activation mechanism of the rice NADPH oxidase OsRbohB S. Takahashi, S. Kimura, H. Kaya, A. Iizuka, H.L. Wong, K. Shimamoto and K. Kuchitsu 37
- The crystal structure of an intermediate dimer of aspergilloglutamic peptidase that mimics the enzyme-activation product complex produced upon autoproteolysis H. Sasaki, K. Kubota, W.C. Lee, J. Ohtsuka, M. Kojima, S. Iwata, A. Nakagawa, K. Takahashi and M. Tanokura 45
- Proinsulin C-peptide activates α -enolase: implications for C-peptide-cell membrane interaction T. Ishii, K. Fukano, K. Shimada, A. Kamikawa, Y. Okamatsu-Ogura, A. Terao, T. Yoshida, M. Saito and K. Kimura 53
- Gangliosides stimulate bradykinin B2 receptors to promote calmodulin kinase II-mediated neuronal differentiation Y. Kanatsu, N.H. Chen, J. Mitoma, T. Nakagawa, Y. Hirabayashi and H. Higashi 63
- Mitochondrial P5, a member of protein disulphide isomerase family, suppresses oxidative stress-induced cell death Y. Shitara, Y. Tonohora, T. Goto, Y. Yamada, T. Miki, H. Makino, M. Miwa and T. Komiya 73
- Crystal structure of the lectin of *Camptosema pedicellatum*: implications of a conservative substitution at the hydrophobic subsite C. Souza Teixeira, H. Colares da Silva, T. Rocha de Moura, F.N. Pereira-Júnior, K. Santiago do Nascimento, C. Shiniti Nagano, A. Holanda Sampaio, P. Delatorre, B.A. Matias Rocha and B. Sousa Cavada 87
- A half-site of the p53-binding site on the keratin 14 promoter is specifically activated by p63 B.-H. Cai, C.-F. Chao, M.-H. Lu, H.-C. Lin and J.-Y. Chen 99
- Expression of RASSF6 in kidney and the implication of RASSF6 and the Hippo pathway in the sorbitol-induced apoptosis in renal proximal tubular epithelial cells K. Withanage, K. Nakagawa, M. Ikeda, H. Kurihara, T. Kudo, Z. Yang, A. Sakane, T. Sasaki and Y. Hata 111