

JB COMMENTARY

- Production of H₂S by 3-mercaptopyruvate sulphurtransferase K. Tanizawa 357

JB REVIEWS

- Featured article of the month.** Mammalian Hippo pathway: from development to cancer and beyond Y. Bao, Y. Hata, M. Ikeda and K. Withanage 361

- Featured article of the month.** Two sides of lifespan regulating genes: pro-longevity or anti-longevity? S. Honjoh and E. Nishida 381

BIOCHEMISTRY

Biochemistry General

- Synthesis of a novel fluorescent non-nucleotide ATP analogue and its interaction with myosin ATPase K. Tanaka, T. Kimura and S. Maruta 395

Protein Interaction and Recognition

- Conformation of the calmodulin-binding domain of metabotropic glutamate receptor subtype 7 and its interaction with calmodulin N. Isozumi, Y. Iida, A. Nakatomi, N. Nemoto, M. Yazawa and S. Ohki 463

Glycobiology and Carbohydrate Biochemistry

- Calystegine B₃ as a specific inhibitor for cytoplasmic α -mannosidase, Man2C1 A. Kato, L. Wang, K. Ishii, J. Seino, N. Asano and T. Suzuki 415

Enzymology

- Different consequences of reactions with hydrogen peroxide and *t*-butyl hydroperoxide in the hyperoxidative inactivation of rat peroxiredoxin-4 Y. Ikeda, M. Nakano, H. Ihara, R. Ito, N. Taniguchi and J. Fujii 443

Metabolism and Bioenergetics

- Structural basis of species differences between human and experimental animal CYP1A1s in metabolism of 3,3',4,4',5-pentachlorobiphenyl K. Yamazaki, M. Suzuki, T. Itoh, K. Yamamoto, M. Kanemitsu, C. Matsumura, T. Nakano, T. Sakaki, Y. Fukami, H. Imaishi and H. Inui 487

Biochemical Pharmacology

- Arginine increases the solubility of alkyl gallates through interaction with the aromatic ring R. Ariki, A. Hirano, T. Arakawa and K. Shiraki 389

MOLECULAR BIOLOGY

Gene Expression

- Stabilization of cGMP-dependent protein kinase G (PKG) expression in vascular smooth muscle cells: contribution of 3'UTR of its mRNA H. Sellak, T.M. Lincoln and C.-S. Choi 433

DNA-Protein Interaction

- Mode of DNA binding by SopA protein of *Escherichia coli* F plasmid M. Komai, M. Umino and R. Hanai 455

(Contents continued on inside of back cover)

Molecular Genetics

- Characterization of the locus of genes encoding enzymes producing heptadepsipeptide micropeptin in the unicellular cyanobacterium *Microcystis* T. Nishizawa, A. Ueda, T. Nakano, A. Nishizawa, T. Miura, M. Asayama, K. Fujii, K.-i. Harada and M. Shirai 475

CELL

Biomembranes, Organelles, and Protein Sorting

- Isolation and characterization of novel mutations in *CDC50*, the non-catalytic subunit of the Drs2p phospholipid flippase Y. Takahashi, K. Fujimura-Kamada, S. Kondo and K. Tanaka 423

Tumor and Immunology

- TGF- β 1-induced PI3K/Akt/NF- κ B/MMP9 signalling pathway is activated in Philadelphia chromosome-positive chronic myeloid leukaemia hemangioblasts X. Zhu, L. Wang, B. Zhang, J. Li, X. Dou and R.C. Zhao 405