

CELL**Biomembranes, Organelles, and Protein Sorting**

- Multiple organelle-targeting signals in the N-terminal portion of peroxisomal membrane protein PMP70 S. Iwashita, M. Tsuchida, M. Tsukuda, Y. Yamashita, Y. Emi, Y. Kida, M. Komori, Y. Kashiwayama, T. Imanaka and M. Sakaguchi 581

Receptors and Signal Transduction

- Context-dependent regulation of the expression of c-Ski protein by Arkadia in human cancer cells Y. Nagano, D. Koinuma, K. Miyazawa and K. Miyazono 545

Stress Proteins and Molecular Chaperones

- Molecular mechanisms of the LPS-induced non-apoptotic ER stress-CHOP pathway Y. Nakayama, M. Endo, H. Tsukano, M. Mori, Y. Oike and T. Gotoh 471

BIOTECHNOLOGY**Biotechnology General**

- Image analysis of α/β -tubulin rings in two-dimensional crystalline arrays of periodic mesoporous nanostructures N. Ishii, K. Okuro, K. Kinbara and T. Aida 555

Drug Delivery Systems

- Transdermal delivery of a readthrough-inducing drug: a new approach of gentamicin administration for the treatment of nonsense mutation-mediated disorders M. Shiozuka, A. Wagatsuma, T. Kawamoto, H. Sasaki, K. Shimada, Y. Takahashi, Y. Nonomura and R. Matsuda 463

JB REFLECTIONS AND PERSPECTIVES

- Esmond E. Snell—the pathfinder of B vitamins and cofactors H. Hayashi, S. Tanase and T. Yagi 451

BIOCHEMISTRY

Biochemistry General

- Upregulation of a non-heme iron-containing ferritin with dual ferroxidase and DNA-binding activities in *Helicobacter pylori* under acid stress C.-H. Huang, I.-L. Lee, I.-J. Yeh, J.-H. Liao, C.-L. Ni, S.-H. Wu and S.-H. Chiou 535
- Identification and characterization of nCLP2, a novel C1q family protein expressed in the central nervous system C. Shimono, R.-i. Manabe, T. Yamada, S. Fukuda, J. Kawai, Y. Furutani, K. Tsutsui, K. Ikenaka, Y. Hayashizaki and K. Sekiguchi 565

Protein Interaction and Recognition

- Protein phosphatase 1 α associates with protein tyrosine phosphatase-PEST inducing dephosphorylation of phospho-serine 39 K. Nakamura, H.E.F. Palmer, T. Ozawa and K. Mashima 493

Glycobiology and Carbohydrate Biochemistry

- Binding of sulphatide to recombinant haemagglutinin of influenza A virus produced by a baculovirus protein expression system T. Takahashi, H. Satoh, M. Takaguchi, S. Takafuji, H. Yokoyama, S. Fujii and T. Suzuki 459
- A comprehensive HPLC analytical system for the identification and quantification of hexoses that employs 2-aminobenzamide coupling K. Hasehira, S.-i. Nakakita, N. Miyanishi, W. Sumiyoshi, S. Hayashi, K. Takegawa and J. Hirabayashi 501

Enzymology

- Cloning and characterization of dihydrofolate reductases from deep-sea bacteria C. Murakami, E. Ohmae, S.-i. Tate, K. Gekko, K. Nakasone and C. Kato 591

Enzyme Inhibitors

- Function of activation loop tyrosine phosphorylation in the mechanism of c-Kit auto-activation and its implication in sunitinib resistance J.P. DiNitto, G.D. Deshmukh, Y. Zhang, S.L. Jacques, R. Coli, J.W. Worrall, W. Diehl, J.M. English and J.C. Wu 601

Biochemistry of Proteolysis

- The optimal activity of a pseudozymogen form of recombinant matriptase under the mildly acidic pH and low ionic strength conditions K. Inouye, M. Yasumoto, S. Tsuzuki, S. Mochida and T. Fushiki 485

MOLECULAR BIOLOGY

Molecular Biology General

- Cloning, expression and characterization of the catalase–peroxidase (KatG) gene from a fast-growing *Mycobacterium* sp. strain JC1 DSM 3803 H.-I. Lee, J.-H. Yoon, J.-S. Nam, Y.-M. Kim and Y.-T. Ro 511
- Identification and functional characterization of the NanH extracellular sialidase from *Corynebacterium diphtheriae* S. Kim, D.-B. Oh, O. Kwon and H.A. Kang 523

(Contents continued on inside of back cover)

