

# CONTENTS Rearranged According to Subject Categories, Vol. 150, No. 1

## JB COMMENTARY

- Encountering unpredicted off-target effects of pharmacological inhibitors K. Miyazawa 1

## JB REVIEWS

- Featured article of the month.** Pregnancy-associated homeostasis and dysregulation: lessons from genetically modified animal models J. Ishida, T. Matsuoka, T. Saito-Fujita, S. Inaba, S. Kunita, F. Sugiyama, K.-i. Yagami and A. Fukamizu 5
- Featured article of the month.** Ectodomain shedding and remnant peptide signalling of EGFRs and their ligands S. Higashiyama, D. Nanba, H. Nakayama, H. Inoue and S. Fukuda 15
- Featured article of the month.** Impact of genetic insights into calpain biology H. Sorimachi, S. Hata and Y. Ono 23

## BIOCHEMISTRY

### Protein Structure

- The effects of an ideal  $\beta$ -turn on  $\beta$ -2 microglobulin fold stability M. Colombo, S. Ricagno, A. Barbiroli, C. Santambrogio, S. Giorgetti, S. Raimondi, F. Bonomi, R. Grandori, V. Bellotti and M. Bolognesi 39

### Protein Interaction and Recognition

- Electrostatic effects influence the formation of two-dimensional crystals of bacteriorhodopsin reconstituted into dimyristoylphosphatidylcholine membranes L. Negishi and S. Mitaku 113

### Neurochemistry

- The dynamics of cysteine, glutathione and their disulphides in astrocyte culture medium S. Yoshiba-Suzuki, J.-i. Sagara, S. Bannai and N. Makino 95

### Immunochemistry

- Monoclonal antibodies against human translation termination factor eRF3 and their utilization for sub-cellular localization of eRF3 M.-M. Delage, S. Dutertre, R. Le Guével, L. Frolova and N. Berkova 49

## MOLECULAR BIOLOGY

### Molecular Genetics

- Genetic interactions of ribosome maturation factors Yvh1 and Mrt4 influence mRNA decay, glycogen accumulation, and the expression of early meiotic genes in *Saccharomyces cerevisiae* M. Sugiyama, S. Nugroho, N. Iida, T. Sakai, Y. Kaneko and S. Harashima 103

## CELL

### Receptors and Signal Transduction

- Regulation of IGF-1/PI3K/Akt signalling by the phosphoinositide phosphatase pharbin F. Wang, T. Ijuin, T. Itoh and T. Takenawa 83

(Contents continued on inside of back cover)

**Differentiation, Development, and Aging**

Homeoprotein Hex is expressed in mouse developing chondrocytes	R. Morimoto, A. Yamamoto, Y. Akimoto and A. Obinata	61
--	---	----

**BIOTECHNOLOGY**

**Biotechnology General**

Statistical analysis of features associated with protein expression/solubility in an <i>in vivo Escherichia coli</i> expression system and a wheat germ cell-free expression system	S. Hirose, Y. Kawamura, K. Yokota, T. Kuroita, T. Natsume, K. Komiya, T. Tsutsumi, Y. Suwa, T. Isogai, N. Goshima and T. Noguchi	73
---	--	----

<b>Erratum</b>		121
----------------	--	-----