

# CONTENTS Rearranged According to Subject Categories, Vol. 148, No. 6

## JB REFLECTIONS AND PERSPECTIVES

- Featured article of the month.** Professor Tatsuo Miyazawa:  
from molecular structure to biological function G. Kawai and S. Yokoyama 631

## BIOCHEMISTRY

### Protein Structure

- Characterization and heterologous expression of a new matrix attachment region binding protein from the unicellular green alga *Dunaliella salina* T. Wang, G. Hou, Y. Wang and L. Xue 651

### Glycobiology and Carbohydrate Biochemistry

- Intracellular and extracellular free *N*-glycans produced by plant cells: occurrence of unusual plant complex-type free *N*-glycans in extracellular spaces M. Maeda, M. Kimura and Y. Kimura 681

### Enzymology

- Catalysis and oxygen binding of *Ec* DOS: a haem-based oxygen-sensor enzyme from *Escherichia coli* K. Kobayashi, A. Tanaka, H. Takahashi, J. Igarashi, Y. Ishitsuka, N. Yokota and T. Shimizu 693
- Purification, characterization and amino acid sequence of a novel enzyme, *D-threo*-3-hydroxyaspartate dehydratase, from *Delftia* sp. HT23 T. Maeda, Y. Takeda, T. Murakami, A. Yokota and M. Wada 705

### Metabolism and Bioenergetics

- Quantitative image analysis reveals that phosphorylation of liver-type isozyme of fructose-6-phosphate 2-kinase/fructose-2,6-bisphosphatase does not affect nuclear translocation of glucokinase in rat primary hepatocytes F. Watanabe and E. Furuya 713

### Biochemistry in Diseases and Aging

- Potential cytotoxic effect of hydroxypyruvate produced from *D*-serine by astroglial *D*-amino acid oxidase S.P. Chung, K. Sogabe, H.K. Park, Y. Song, K. Ono, R.M. Abou El-Magd, Y. Shishido, K. Yorita, T. Sakai and K. Fukui 743

## CELL

### Cell General

- Featured article of the month.** A recombinant catalytic domain of matriptase induces detachment and apoptosis of small-intestinal epithelial IEC-6 cells cultured on laminin-coated surface S. Mochida, S. Tsuzuki, K. Inouye and T. Fushiki 721

### Biomembranes, Organelles, and Protein Sorting

- Dual role of the carboxyl-terminal region of pig liver *L*-kynurenine 3-monooxygenase: mitochondrial-targeting signal and enzymatic activity K. Hirai, H. Kuroyanagi, Y. Tatebayashi, Y. Hayashi, K. Hirabayashi-Takahashi, K. Saito, S. Haga, T. Uemura and S. Izumi 639
- COOH-terminal isoleucine of lysosome-associated membrane protein-1 is optimal for its efficient targeting to dense secondary lysosomes K. Akasaki, M. Suenobu, M. Mukaida, A. Michihara and I. Wada 669

(Contents continued on inside of back cover)



**Receptors and Signal Transduction**

- |  |   |     |
|--|---|-----|
| Arkadia complexes with clathrin adaptor AP2 and regulates EGF signalling | A. Mizutani, M. Saitoh, T. Imamura, K. Miyazawa and K. Miyazono | 733 |
|--|---|-----|

**Stress Proteins and Molecular Chaperones**

- |  |   |     |
|--|---|-----|
| Functional proteomic analysis of promyelocytic leukaemia nuclear bodies in irradiation-induced MCF-7 cells | J. Liu, Y. Song, B. Tian, J. Qian, Y. Dong, J. Liu, B. Liu and Z. Sun | 659 |
|--|---|-----|