

EDITORIAL BOARD

Editor-in-Chief

Naoyuki TANIGUCHI (Suita)

Editors

<i>JB Reviews</i>	Sen-itiroh HAKOMORI (Seattle) Atsushi MIYAJIMA (Tokyo)
<i>Biochemistry</i>	Gerald W. HART (Baltimore) Seiki KURAMITSU (Toyonaka) Bettie Sue MASTERS (San Antonio) Akemi SUZUKI (Hiratsuka)
<i>Molecular Biology</i>	Walter NEUPERT (München) Yoshihide TSUJIMOTO (Suita)
<i>Cell</i>	Frank D. BÖHMER (Jena) Kohei MIYAZONO (Tokyo)
<i>Biotechnology</i>	Chris Y. H. TAN (Vancouver, Canada) Takuya UEDA (Tokyo)

Managing Editors

Kensaku MIZUNO (Sendai) Yoshinobu NAKANISHI (Kanazawa)

Associate Editors

<i>JB Reviews</i>	Anindya DUTTA (Charlottesville) Tatsuro IRIMURA (Tokyo) Shigeaki KATO (Tokyo)	Hisao MASAI (Tokyo) Hiroshi OHNO (Yokohama)
<i>Biochemistry</i>	Fumio ARISAKA (Yokohama) Vytas A. BANKAITIS (Chapel Hill) Junichi FUJII (Yamagata) Yuji GOTO (Suita) Koichi HONKE (Nankoku) Shoichi ISHIURA (Tokyo) Johannis P. KAMERLING (Utrecht)	Nobuo KAMIYA (Osaka) Makoto KIMURA (Fukuoka) Ken KITAJIMA (Nagoya) Katsuyuki TANIZAWA (Ibaraki) Masato UMEDA (Uji) Yuriko YAMAGATA (Kumamoto) Takehiko YOKOMIZO (Fukuoka) Pradman K. QASBA (Frederick) Takashi SUDA (Kanazawa) Takeshi TODO (Suita)
<i>Molecular Biology</i>	Yukio FUJIKI (Fukuoka) Kenji KOHNO (Ikoma) Bok Luel LEE (Busan) Shoko NISHIHARA (Hachioji) Suk-Chul BAE (Gaesindong) Nils BROSE (Gottingen) Yutaka HATA (Tokyo) Shigeki HIGASHIYAMA (Toon)	Eunjoon KIM (Daejeon) Tohru KOZASA (Chicago) Aristidis MOUSTAKAS (Uppsala) Atsuko SEHARA-FUJISAWA (Kyoto) Toshiyuki TAKAI (Sendai)
<i>Cell</i>	Takeshi IWATSUBO (Tokyo) Akira KIKUCHI (Hiroshima) Yo KIKUCHI (Toyohashi) Sunghoon KIM (Seoul) Włodzimierz J. KRZYŻOSIAK (Poznan) Keiko MIZUTA (Higashihiroshima)	Ken-ichi NISHIYAMA (Tokyo) Kouhei TSUMOTO (Kashiwa) Kazuo YAMAMOTO (Tokyo)
<i>Biotechnology</i>		

Advisory Board

<i>Biochemistry</i> Junken AOKI (Sendai) Jin Won CHO (Seoul) Catherine E. COSTELLO (Boston) Jeffrey D. ESKO (La Jolla) Jianguo GU (Sendai) Yann GUÉRARDEL (Villeneuve d'Ascq) Robert S. HALTIWANGER (Stony Brook) Toshiharu HASE (Suita) Yasuhiro HASHIMOTO (Fukushima) Kihachiro HORIIKE (Otsu) Yoshizumi ISHINO (Fukuoka) Makoto ITO (Fukuoka) Kenji KADOMATSU (Nagoya)	Reiji KANNAGI (Nagoya) Shun-ichiro KAWABATA (Fukuoka) Ikuro KAWAGISHI (Koganei) Gota KAWAI (Narashino) Hiroshi KITAGAWA (Kobe) Masayasu KOJIMA (Kurume) Hiroki KONDO (Iizuka) Michiko KONNO (Tokyo) Yasunori KOZUTSUMI (Kyoto) Ryoji MASUI (Toyonaka) Catharina Taiko MIGITA (Yamaguchi) Toru NAKAYAMA (Sendai) Hisashi NARIMATSU (Tsukuba)	Takeshi NIKAWA (Tokushima) Haruko OGAWA (Tokyo) Toshihisa OHSHIMA (Fukuoka) Michael PIERCE (Athens) Yoshihiro SAMBONGI (Higashi-Hiroshima) Ryo TAGUCHI (Tokyo) Yoshinao WADA (Izumi) Keisuke WAKASUGI (Tokyo) Akihiko YOSHIMURA (Tokyo) Tohru YOSHIMURA (Nagoya) Junn YANAGISAWA (Tsukuba)
<i>Molecular Biology</i> Masato ENARI (Tokyo) Toshiya ENDO (Nagoya) Masatoshi FUJITA (Tokyo) Tetsuro KOKUBO (Yokohama) Won-Jae LEE (Seoul) Roland LILL (Marburg)	Katsuyoshi MIHARA (Fukuoka) Masayuki MIURA (Tokyo) Masamichi MURAMATSU (Kanazawa) Kazuhiro NAGATA (Kyoto) Kunihiro OHTA (Tokyo) Takashi OSUMI (Hyogo)	Kazuhiro SAKAMAKI (Kyoto) Shigeomi SHIMIZU (Tokyo) Kaoru SUGASAWA (Kobe) Minoru TAKATA (Kyoto) Tohru YOSHIHISA (Nagoya)

Metabolism and Bioenergetics

- | | | |
|--|--|-----|
| Biochemical and Spectroscopic Properties of Cyanide-Insensitive Quinol Oxidase from <i>Gluconobacter oxydans</i> | T. Mogi, Y. Ano, T. Nakatsuka, H. Toyama, A. Muroi, H. Miyoshi, C.T. Migita, H. Ui, K. Shiomi, S. Ōmura, K. Kita and K. Matsushita | 263 |
|--|--|-----|

MOLECULAR BIOLOGY

Molecular Biology General

- | | | |
|---|--|-----|
| An Fe Deficiency Responsive Element with a Core Sequence of TGGCA Regulates the Expression of <i>FEA1</i> in <i>Chlamydomonas reinhardtii</i> | X. Fei, M. Eriksson, J. Yang and X. Deng | 157 |
| A Novel Virtual Spectrometry: Visualized Regulatory Motifs on <i>ADM</i> , <i>rPolβ</i> and <i>CD83</i> mRNAs in Human-friendly Manners | S. Nakamura | 251 |

CONTENTS Rearranged According to Subject Categories, Vol. 146, No. 2

JB REFLECTIONS AND PERSPECTIVES

Tamio Yamakawa: Dawn of Glycobiology	A. Suzuki	149
--------------------------------------	-----------	-----

BIOCHEMISTRY

Biochemistry General

Effect of Metal Ion on the Structural Stability of Tumour Suppressor Protein p53 DNA-Binding Domain	Y. Xue, S. Wang and X. Feng	193
---	-----------------------------	-----

CEL-I, an <i>N</i> -Acetylgalactosamine (GalNAc)-Specific C-Type Lectin, Induces Nitric Oxide Production in RAW264.7 Mouse Macrophage Cell Line	T. Yamanishi, T. Hatakeyama, K. Yamaguchi and T. Oda	209
---	--	-----

Common Skate (<i>Raja kenoei</i>) Secretes Pentraxin into the Cutaneous Secretion: The First Skin Mucus Lectin in Cartilaginous Fish	S. Tsutsui, M. Yamaguchi, A. Hirasawa, O. Nakamura and T. Watanabe	295
--	--	-----

Protein Structure

Fast Binding Kinetics and Conserved 3D Structure Underlie the Antagonistic Activity of Mutant TNF: Useful Information for Designing Artificial Proteo-Antagonists	Y. Mukai, T. Nakamura, Y. Yoshioka, H. Shibata, Y. Abe, T. Nomura, M. Tanai, T. Ohta, S. Nakagawa, S.-i. Tsunoda, H. Kamada, Y. Yamagata and Y. Tsutsumi	167
---	--	-----

The peptidoglycan-binding (PGB) Domain of the <i>Escherichia coli</i> Pal Protein can also Function as the PGB Domain in <i>E. coli</i> Flagellar Motor Protein MotB	Y. Hizukuri, J.F. Morton, T. Yakushi, S. Kojima and M. Homma	219
--	--	-----

Protein Interaction and Recognition

Analyses of Conditions for KMSSS Loop in Tyrosyl-tRNA Synthetase by Building a Mutant Library	S. Kamijo, A. Fujii, K. Onodera and K. Wakabayashi	241
---	--	-----

Nucleic Acid and Peptide Biochemistry

Thermodynamic and Kinetic Effects of Morpholino Modification on Pyrimidine Motif Triplex Nucleic Acid Formation under Physiological Condition	H. Torigoe, K. Sasaki and T. Katayama	173
---	---------------------------------------	-----

Reinvestigation of the Molecular Influence of Hypoxanthine on the DNA Cleavage Efficiency of Restriction Endonucleases BglII, EcoRI and BamHI	A. Doi, S.P. Pack, T. Kodaki and K. Makino	201
---	--	-----

Glycobiology and Carbohydrate Biochemistry

Distribution of Receptor Glycolipids for <i>Lactobacilli</i> in Murine Digestive Tract and Production of Antibodies Cross-reactive with them by Immunization of Rabbits with <i>Lactobacilli</i>	M. Iwamori, T. Shibagaki, Y. Nakata, S. Adachi and T. Nomura	185
--	--	-----

The Presence of OMP Inclusion Bodies in a <i>Escherichia coli</i> K-12 Mutated Strain is not Related to Lipopolysaccharide Structure	M.M. Corsaro, E. Parrilli, R. Lanzetta, T. Naldi, G. Pieretti, B. Lindner, A. Carpentieri, M. Parrilli and M.L. Tutino	231
--	--	-----

Lipid Biochemistry

Lysophosphatidylmethanol is a pan lysophosphatidic acid receptor agonist and is produced by autotaxin in blood	T. Endo, K. Kano, R. Motoki, K. Hama, S. Okudaira, M. Ishida, H. Ogiso, M. Tanaka, N. Matsuki, R. Taguchi, M. Kanai, M. Shibasaki, H. Arai and J. Aoki	283
--	--	-----

Enzymology

Activation of a Membrane-Bound Serine Protease Matriptase on the Cell Surface	Y. Miyake, M. Yasumoto, S. Tsuzuki, T. Fushiki and K. Inouye	273
---	--	-----