

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)

Differentiation, Development, and Aging

- | | | |
|---|---|-----|
| Dynamic Expression of Peptidylarginine Deiminase 2 in Human Monocytic Leukaemia THP-1 Cells During Macrophage Differentiation | I. Hojo-Nakashima, R. Sato, K. Nakashima, T. Hagiwara and M. Yamada | 471 |
|---|---|-----|

BIOTECHNOLOGY

Biotechnology General

- | | | |
|---|--|-----|
| Photocontrol of Calmodulin Interaction with Target Peptides using Azobenzene Derivative | H. Shishido, M.D. Yamada, K. Kondo and S. Maruta | 581 |
|---|--|-----|

RNA Technology

- | | | |
|--|---|-----|
| RNA Interference Targeted to the Conserved Dimerization Initiation Site (DIS) of HIV-1 Restricts Virus Escape Mutation | R. Sugiyama, Y. Habu, A. Ohnari, N. Miyano-Kurosaki and H. Takaku | 481 |
|--|---|-----|

CONTENTS Rearranged According to Subject Categories, Vol. 146, No. 4

JB MINIREVIEWS—Quality Control of the Cellular Protein Systems

Quality Control of Cytoplasmic Membrane Proteins in <i>Escherichia coli</i>	Y. Akiyama	449
Protein Quality Control in Mitochondria	T. Tatsuta	455
Protein Quality Control in Chloroplasts: A Current Model of D1 Protein Degradation in the Photosystem II Repair Cycle	Y. Kato and W. Sakamoto	463

BIOCHEMISTRY

Biochemistry General

Enzymatic Characterization and Comparison of Various Poaceae UDP-GlcA 4-Epimerase Isoforms	X. Gu, C.J. Wages, K.E. Davis, P.J. Guyett and M. Bar-Peled	527
--	---	-----

Protein Structure

Crystal Structure of Hypothetical Protein HP0062 (O24902_HELPY) from <i>Helicobacter pylori</i> at 1.65Å Resolution	S.-B. Jang, A.-R. Kwon, W.-S. Son, S.J. Park and B.-J. Lee	535
Structural Insights into the Enzymatic Mechanism of Serine Palmitoyltransferase from <i>Sphingobacterium multivorum</i>	H. Ikushiro, M.M. Islam, A. Okamoto, J. Hoseki, T. Murakawa, S. Fujii, I. Miyahara and H. Hayashi	549
Glutamate64 to Glycine Substitution in G1 β -bulge of Ubiquitin Impairs Function and Stabilizes Structure of the Protein	P. Mishra, S. Volety, C.M. Rao and C.R. Prabha	563

Protein Interaction and Recognition

Insights into the Enzyme–Substrate Interaction in the Norovirus 3C-like Protease	Y. Someya and N. Takeda	509
--	-------------------------	-----

Metabolism and Bioenergetics

Polymyxin B Identified as an Inhibitor of Alternative NADH Dehydrogenase and Malate: Quinone Oxidoreductase from the Gram-positive Bacterium <i>Mycobacterium smegmatis</i>	T. Mogi, Y. Murase, M. Mori, K. Shiomi, S. Ōmura, M.P. Paranagama and K. Kita	491
Membrane Localization of Protein-Tyrosine Phosphatase 1B is Essential for its Activation of Sterol Regulatory Element-Binding Protein-1 Gene Expression and Consequent Hypertriglyceridaemia	S. Ugi, K. Shi, Y. Nishio, S. Shimizu, B. Guo, O. Sekine, K. Ikeda, K. Egawa, T. Yoshizaki, Y. Nagai, D. Koya, T. Takada, R. Torii, H. Kimura, A. Kashiwagi and H. Maegawa	541

Reactive Oxygen and Nitrogen Species

Identification of Radicals Formed in the Reaction Mixture of Bovine Kidney Microsomes with NADPH	K. Kumamoto, T. Hirai, S. Kishioka and H. Iwahashi	571
--	--	-----

MOLECULAR BIOLOGY

DNA-Protein Interaction

Changes in the Conformation of the Vsr Endonuclease Amino-terminal Domain Accompany DNA Cleavage	Y.Y. Polosina and C.G. Cupples	523
--	--------------------------------	-----

CELL

Cytoskeletons, Cell Motility, and Cell Shape

Overexpression of Plk3 causes Morphological Change and Cell Growth Suppression in Ras Pathway-activated Cells	M. Iida, T. Sasaki and H. Komatani	501
---	------------------------------------	-----