

CONTENTS Vol. 146, No. 5

JB Minireviews—Quality Control of the Cellular Protein Systems

Disulfide Bond Formation System in <i>Escherichia coli</i>	K. Inaba	591
Disulphide Bond Formation in the Intermembrane Space of Mitochondria	M. Deponte and K. Hell	599
Quality Control Against Misfolded Proteins in the Cytosol: A Network for Cell Survival	H. Kubota	609

Rapid Communications

Functional Enhancement by Single-residue Substitution of <i>Streptomyces coelicolor</i> A3(2) H ⁺ -translocating Pyrophosphatase	M. Hirono and M. Maeshima	617
Vascular Endothelium Expresses 3-Mercaptopyruvate Sulfurtransferase and Produces Hydrogen Sulfide	N. Shibuya, Y. Mikami, Y. Kimura, N. Nagahara and H. Kimura	623
Vimentin Intermediate Filaments as a Template for Silica Nanotube Preparation	R. Gohara, D. Liu, K. Nakashima, Y. Takasaki and S. Ando	627

Regular Papers

Characterization and Application of Carbohydrate-binding Modules of β -1,3-xylanase XYL4	M. Kiyohara, K. Sakaguchi, K. Yamaguchi, T. Araki and M. Ito	633
Mutational Analysis of the GTP-binding Motif of FlhF which Regulates the Number and Placement of the Polar Flagellum in <i>Vibrio alginolyticus</i>	A. Kusumoto, N. Nishioka, S. Kojima and M. Homma	643
Importance of the Hydrogen Bonding Network Including Asp52 for Catalysis, as Revealed by Asn59 Mutant Hen Egg-white Lysozymes	T. Ose, K. Kuroki, M. Matsushima, K. Maenaka and I. Kumagai	651
Mycolyltransferase from <i>Mycobacterium leprae</i> Excludes Mycolate-containing Glycolipid Substrates	H. Nakao, I. Matsunaga, D. Morita, T. Aboshi, T. Harada, Y. Nakagawa, N. Mori and M. Sugita	659
NMR Solution Structure of HP0827 (O25501_HELPY) from <i>Helicobacter pylori</i> : Model of the Possible RNA-binding Site	S.-B. Jang, C. Ma, J.-Y. Lee, J.-H. Kim, S.J. Park, A.-R. Kwon and B.-J. Lee	667
Production of <i>n</i> -octanoyl-modified Ghrelin in Cultured Cells Requires Prohormone Processing Protease and Ghrelin O-acyltransferase, as well as <i>n</i> -octanoic Acid	T. Takahashi, T. Ida, T. Sato, Y. Nakashima, Y. Nakamura, A. Tsuji and M. Kojima	675
Angiotensin II Stimulates KLF5 Phosphorylation and its Interaction with c-Jun Leading to Suppression of p21 Expression in Vascular Smooth Muscle Cells	M. He, M. Han, B. Zheng, Y.-N. Shu and J.-K. Wen	683
Differential Usage of the Transport Systems for Folic acid and Methotrexate in Normal Human T-Lymphocytes and Leukemic Cells	B.K. Biswal and R.S. Verma	693

Importance of Polarisome Proteins in Reorganization of Actin Cytoskeleton at Low pH in <i>Saccharomyces cerevisiae</i>	M. Motizuki and Z. Xu	705
Expression, Purification and Characterization of Soluble Recombinant Periostin Protein Produced by <i>Escherichia coli</i>	I. Takayama, I. Kii and A. Kudo	713
Association of a Novel Mitochondrial Protein M19 with Mitochondrial Nucleoids	M. Sumitani, K. Kasashima, E. Ohta, D. Kang and H. Endo	725
Differential Assembly Properties of <i>Escherichia coli</i> FtsZ and <i>Mycobacterium tuberculosis</i> FtsZ: An Analysis Using Divalent Calcium	R. Jaiswal and D. Panda	733