

CONTENTS Vol. 141, No. 5

JB Minireviews—Genome Decoding Systems

- Phosphorylation of the C-terminal Domain of RNA Polymerase II Plays Central Roles in the Integrated Events of Eucaryotic Gene Expression Y. Hirose and Y. Ohkuma 601

- Role of Histone Modification in Chromatin Dynamics T. Ito 609

- Crucial Roles for Chromatin Dynamics in Cellular Memory S. Hirose 615

Regular Papers

- c-Abl Tyrosine Kinase Activates p21 Transcription Via Interaction with p53 Y. Jing, M. Wang, W. Tang, T. Qi, C. Gu, S. Hao and X. Zeng 621
- Active Site Mapping of Amylo- α -1,6-glucosidase in Porcine Liver Glycogen Debranching Enzyme Using Fluorogenic 6-O- α -Glucosyl-maltooligosaccharides E. Yamamoto, Y. Makino and K. Omichi 627
- Characterization of the PC4 Binding Domain and its Interactions with HNF4 α H. Guo, C. Gao, Z. Mi, J. Zhang and P. C. Kuo 635
- Human Telomerase Exists in Two Distinct Active Complexes *In Vivo* H. Mizuno, S. Khurts, T. Seki, Y. Hirota, S. Kaneko and S. Murakami 641
- Stimulation of Hepatocyte Growth Factor Production by Heparin-derived Oligosaccharides R. Sakiyama, K. Fukuta, K. Matsumoto, M. Furukawa, Y. Takahashi and T. Nakamura 653
- The Nuclear Actin-related Protein of *Saccharomyces cerevisiae*, Arp4, Directly Interacts with the Histone Acetyltransferase Esa1p F. Steinboeck, A. Bogusch, A. Kaufmann and E. Heidenreich 661
- Effects of Triethylene Tetraamine on the G-quadruplex Structure in the Human c-myc Promoter F. Yin, J. Liu, X. Deng and J. Wang 669
- Novel Mutation Assay with High Sensitivity based on Direct Measurement of Genomic DNA Alterations: Comparable Results to the Ames Test M. Futakami, M. Salimullah, T. Miura, S. Tokita and K. Nishigaki 675
- Depolarization-induced Rapid Generation of 2-Arachidonoylglycerol, an Endogenous Cannabinoid Receptor Ligand, in Rat Brain Synaptosomes S. Oka, S. Arai, K. Waku, A. Tokumura and T. Sugiura 687
- Stable Supply of Large Amounts of Human Fab from the Inclusion Bodies in *E. coli* T. Fujii, T. Ohkuri, R. Onodera and T. Ueda 699
- Molecular Anatomy of the Alkaliphilic Xylanase from *Bacillus halodurans* C-125 M. Nishimoto, S. Fushinobu, A. Miyanaga, M. Kitaoka and K. Hayashi 709
- Co-repressor SMRT and Class II Histone Deacetylases Promote Bach2 Nuclear Retention and Formation of Nuclear Foci that are Responsible for Local Transcriptional Repression H. Hoshino, T. G. Nishino, S. Tashiro, M. Miyazaki, Y. Ohmiya, K. Igarashi, S. Horinouchi and M. Yoshida 719

<i>In vitro</i> Mineralization by Mesenchymal Stem Cells Cultured on Titanium Scaffolds	M. Maeda, M. Hirose, H. Ohgushi and T. Kirita	729
p53 Stabilization can be Uncoupled from its Role in Transcriptional Activation by Loss of PTTG1/Securin	J. A. Bernal and A. Hernández	737
Membrane Perturbations of Erythrocyte Ghosts by Spectrin Release	T. Yamaguchi, S. Ozaki, T. Shimomura and S. Terada	747
Structure, Interactions and Effects on Activity of the 5'-terminal Region of Human telomerase RNA	X. Li, H. Nishizuka, K. Tsutsumi, Y. Imai, Y. Kurihara and S. Uesugi	755
Corrigenda		767