



Acta Biochimica et Biophysica Sinica

Vol. 44 No. 8 August 2012

Contents

Privileged Communication

629 PTEN, energy metabolism and tumor suppression

Juan Liu and Zhaohui Feng

Review

632 Phoenix rising: gene therapy makes a comeback Maria P. Limberis

Original Articles

- Identification and subcellular localization of molecular complexes of $G_{q/11}\alpha$ protein in HEK293 cells Zdenka Drastichova and Jiri Novotny
- 650 Metabolite profiles of rice cultivars containing bacterial blight-resistant genes are distinctive from susceptible rice

Jiao Wu, Haichuan Yu, Haofu Dai, Wenli Mei, Xin Huang, Shuifang Zhu, and Ming Peng

660 Sox11 modulates neocortical development by regulating the proliferation and neuronal differentiation of cortical intermediate precursors

Yongzhe Li, Jianjiao Wang, Yongri Zheng, Yan Zhao, Mian Guo, Yang Li, Qiuli Bao, Yu Zhang, Lizhuang Yang, and Qingsong Li

669 Three-dimensional dynamic culture of pre-osteoblasts seeded in HA-CS/Col/nHAP composite scaffolds and treated with α-ZAL

Lu Liu, Yong Guo, Xuezhong Chen, Ruixin Li, Zhihong Li, Liang Wang, Zongming Wan, Jianyu Li, Qingxin Hao, Hao Li, and Xizheng Zhang

678 A novel multifunctional nanocomposite C225-conjugated ${\rm Fe_3O_4/Ag}$ enhances the sensitivity of nasopharyngeal carcinoma cells to radiotherapy

Di Zhao, Xinchen Sun, Jinglong Tong, Jun Ma, Xiaodong Bu, Ruizhi Xu, and Renhua Fan

- 685 MDM2 inhibitor Nutlin-3a suppresses proliferation and promotes apoptosis in osteosarcoma cells Bo Wang, Liming Fang, Hui Zhao, Tong Xiang, and Dechun Wang
- 692 Characterization of acetyl-CoA and propionyl-CoA carboxylases encoded by Leptospira interrogans serovar Lai: an initial biochemical study for leptospiral gluconeogenesis via anaplerotic CO₂ assimilation Nanqiu Peng, Yi Zhong, Qing Zhang, Mingyue Zheng, Wei Zhao, Hualiang Jiang, Chen Yang, Xiaokui Guo, and Guoping Zhao
- 703 Effects of macromolecular crowding on the structural stability of human α-lactalbumin De-Lin Zhang, Ling-Jia Wu, Jie Chen, and Yi Liang

Short Communication

712 Association of TNF-α promoter polymorphisms with the outcome of persistent HBV infection in a northeast Chinese Han population

Bing Qiu, Xi Wang, Peiyi Zhang, Chunlin Shi, Jiye Zhang, Wenliang Qiu, Wenduo Wang, and Dongfu Li

Acta Biochim Biophys Sin is indexed in Science Citation Index-ExpandedTM, PubMed, MEDLINE, Biochemistry & Biophysics Citation IndexTM, Biological Abstracts, Bioscience Citation IndexTM, Chemical Abstracts, Research AlertTM, etc. Acta Biochim Biophys Sin is supported by the grants from the Science Publishing Foundation of the Chinese Academy of Sciences, the National Natural Science Foundation of China, and WANG Ying-Lai Foundation.