



Supported by the National Natural
Science Foundation of China

Acta Biochimica et Biophysica Sinica

Vol. 43 No. 7 July 2011

Contents

Review

501 mTOR and the differentiation of mesenchymal stem cells

Xinxin Xiang, Jing Zhao, Geyang Xu, Yin Li, and Weizhen Zhang

Original Articles

511 A novel recombinant *Mycobacterium bovis* bacillus Calmette–Guerin strain expressing human granulocyte macrophage colony-stimulating factor and *Mycobacterium tuberculosis* early secretory antigenic target 6 complex augments Th1 immunity

Xiaoling Yang, Lang Bao, and Yihao Deng

519 GhHyPRP4, a cotton gene encoding putative hybrid proline-rich protein, is preferentially expressed in leaves and involved in plant response to cold stress

Gengqing Huang, Siying Gong, Wenliang Xu, Peng Li, Dejing Zhang, Lixia Qin, Wen Li, and Xuebao Li

528 Protein expression and fucosylated glycans of the serum haptoglobin- β subunit in hepatitis B virus-based liver diseases

Hong Shu, Shu Zhang, Xiaonan Kang, Shan Li, Xue Qin, Chun Sun, Haojie Lu, and Yinkun Liu

535 Differential gene expression during atrial structural remodeling in human left and right atrial appendages in atrial fibrillation

Hui Zhu, Wei Zhang, Ming Zhong, Gong Zhang, and Yun Zhang

542 Proteomic profiling of hepatitis B virus-related hepatocellular carcinoma with magnetic bead-based matrix-assisted laser desorption/ionization time-of-flight mass spectrometry

Taotao Liu, Ruyi Xue, Xiaowu Huang, Danying Zhang, Ling Dong, Hao Wu, and Xizhong Shen

551 Hybridization kinetics analysis of an oligonucleotide microarray for microRNA detection

Botao Zhao, Shuo Ding, Wei Li, and Youxin Jin

556 Cucurbitacin B induces rapid depletion of the G-actin pool through reactive oxygen species-dependent actin aggregation in melanoma cells

Yanting Zhang, Dongyun Ouyang, Lihui Xu, Yuhua Ji, Qingbing Zha, Jiye Cai, and Xianhui He

568 Purification, cDNA cloning, and recombinant expression of chymotrypsin C from porcine pancreas

Haibo Wang, Duoduo Yuan, Rong Xu, and Cheng-Wu Chi

Short Communication

576 Association of human cytomegalovirus viremia with human leukocyte antigens in liver transplantation recipients

Jianhua Hu, Xueqin Meng, Hong Zhao, Xuan Zhang, Hainv Gao, Meifang Yang, Yadan Ma, Minhuan Li, Weihang Ma, and Jun Fan

Acta Biochim Biophys Sin is indexed in Science Citation Index-Expanded™, PubMed, MEDLINE, Biochemistry & Biophysics Citation Index™, Biological Abstracts, Bioscience Citation Index™, Chemical Abstracts, Research Alert™, 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.