



Scan to view this journal on your mobile device



# ACTA BIOCHIMICA ET BIOPHYSICA SINICA

VOLUME 49, NUMBER 10  
OCTOBER 2017

## Contents

### Review

- Effects of cannabidiol interactions with Wnt/ $\beta$ -catenin pathway and PPAR $\gamma$  on oxidative stress and neuroinflammation in Alzheimer's disease  
*Alexandre Vallée, Yves Lecarpentier, Rémy Guillevin, and Jean-Noël Vallée* . . . . . 853

### Original Articles

- Emodin promotes the osteogenesis of MC3T3-E1 cells via BMP-9/Smad pathway and exerts a preventive effect in ovariectomized rats  
*Xiaojing Chen, Shuang Zhang, Xiaoting Chen, Yan Hu, Jin Wu, Shuyan Chen, Jing Chang, Genfa Wang, and Yanhong Gao* . . . . . 867
- Mixed lineage kinase domain-like protein induces RGC-5 necroptosis following elevated hydrostatic pressure  
*Lvshuang Liao, Lei Shang, Na Li, Shuchao Wang, Mi Wang, Yanxia Huang, Dan Chen, Jufang Huang, and Kun Xiong* . . . . . 879
- Inhibitory effect of pyrvinium pamoate on uveal melanoma cells involves blocking of Wnt/ $\beta$ -catenin pathway  
*Lei Zheng, Yizhi Liu, and Jingxuan Pan* . . . . . 890
- DKK4-knockdown enhances chemosensitivity of A549/DTX cells to docetaxel  
*Xueliang Yang, Yang Liu, Weina Li, Aimin Li, and Quan Sun* . . . . . 899
- High-mobility group box 1 protein is involved in the protective effect of Saquinavir on ventilation-induced lung injury in mice  
*Xin Wang, Renlingzi Zhang, Yao Tong, Xibing Ding, Shuqing Jin, Xiang Zhao, Jiaying Zong, Zhixia Chen, Timothy R. Billiar, and Quan Li* . . . . . 907
- D-amino acid substitution enhances the stability of antimicrobial peptide polybia-CP  
*Fengjing Jia, Jiayi Wang, Jinxiu Peng, Ping Zhao, Ziqing Kong, Kairong Wang, Wenjin Yan, and Rui Wang* . . . . . 916
- Knockdown of SLC39A7 inhibits cell growth and induces apoptosis in human colorectal cancer cells  
*Nengquan Sheng, Li Yan, Weiqiang You, Gewen Tan, Jianfeng Gong, Hongqi Chen, Yi Yang, Landian Hu, and Zhigang Wang* . . . . . 926
- Osteoclast stimulatory transmembrane protein induces a phenotypic switch in macrophage polarization suppressing an M1 pro-inflammatory state  
*Huimin Yuan, Jiangping He, Guangya Zhang, Dandan Zhang, Xiangxin Kong, and Fengling Chen* . . . . . 935

## Short Communications

- Inhibition of collagenase and melanogenesis by ethanol extracts of *Orostachys japonicus* A. Berger: possible involvement of Erk and Akt signaling pathways in melanoma cells  
*Dai Sig Im, Jong-Min Lee, Jongsung Lee, Hye Jin Shin, Kyoung Tai No, See-Hyoung Park, and Kiyoung Kim* . . . . . 945
- An individual 12-h shift of the light–dark cycle alters the pancreatic and duodenal circadian rhythm and digestive function  
*Liang Xu, Tao Wu, Haifeng Li, Yinhua Ni, and Zhengwei Fu* . . . . . 954

## Lab Note

- Application of fusion PCR to the amplification of full-length ORF sequences of different splicing variants of *NuMA1* from HeLa cells  
*Jin Wu, Guanting Lu, Jianwei Wu, Hua Yang, Zhicao Yu, Shijie Mu, and Hongmei Zhang* . . . . . 962

*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 Project for Enhancing International Impact of China STM Journals, and the WANG Ying-Lai Foundation.