

Review Article	223	Paraptosis: a non-classical paradigm of cell death for cancer therapy Chun-cao Xu, Yi-fan Lin, Mu-yang Huang, Xiao-lei Zhang, Pei Wang, Ming-qing Huang and Jin-jian Lu
	238	Development of PI3K γ selective inhibitors: the strategies and application Dong-yan Gu, Meng-meng Zhang, Jia Li, Yu-bo Zhou and Rong Sheng
Articles Neuropharmacology	248	Caffeic acid alleviates cerebral ischemic injury in rats by resisting ferroptosis via Nrf2 signaling pathway Xin-nan Li, Nian-ying Shang, Yu-ying Kang, Ning Sheng, Jia-qi Lan, Jing-shu Tang, Lei Wu, Jin-lan Zhang and Ying Peng
	268	Cell senescence induced by toxic interaction between α -synuclein and iron precedes nigral dopaminergic neuron loss in a mouse model of Parkinson's disease Qing-qing Shen, Xian-hui Jv, Xi-zhen Ma, Chong Li, Lin Liu, Wen-ting Jia, Le Qu, Lei-lei Chen and Jun-xia Xie
	282	Adapting the endoplasmic reticulum proteostasis rescues epilepsy-associated NMDA receptor variants Pei-pei Zhang, Taylor M. Benske, Lucie Y. Ahn, Ashleigh E. Schaffer, James C. Paton, Adrienne W. Paton, Ting-wei Mu and Ya-juan Wang
	298	Neuron-derived exosomes mediate sevoflurane-induced neurotoxicity in neonatal mice via transferring lncRNA Gas5 and promoting M1 polarization of microglia Li-li Xu, Jia-qian Xie, Jian-jun Shen, Mei-dan Ying and Xin-zhong Chen
Cardiovascular Pharmacology	312	Sphingosylphosphorylcholine alleviates pressure overload-induced myocardial remodeling in mice via inhibiting CaM-JNK/p38 signaling pathway Fang-fang Ren, Lin Zhao, Xian-yun Jiang, Jing-jing Zhang, Jia-min Gou, Xiao-yu Yu, Shu-jin Wu and Lei Li
Endocrine Pharmacology	327	Protective effects of curcumin on desipramine-induced islet β -cell damage via AKAP150/PKA/PP2B complex Min Hu, Jia-ying Cai, Yao He, Kui Chen, Feng Hao, Jin-sen Kang, Yan Pan, Lu Tie and Xue-jun Li
Gastrointestinal, Hepatic, and Renal Pharmacology	339	A dual role of lysophosphatidic acid type 2 receptor (LPAR2) in nonsteroidal anti-inflammatory drug-induced mouse enteropathy <i>Open</i> Barbara Hutka, Anett Várallyay, Szilvia B. László, András S. Tóth, Bálint Scheich, Sándor Paku, Imre Vörös, Zoltán Pócs, Zoltán V. Varga, Derek D. Norman, Andrea Balogh, Zoltán Benyó, Gábor Tigyi, Klára Gyires and Zoltán S. Zádori
	354	Hesperetin derivative 2a inhibits lipopolysaccharide-induced acute liver injury in mice via downregulation of circDcbl2 Li-jiao Sun, Xin Chen, Sai Zhu, Jin-jin Xu, Xiao-feng Li, Shao-xi Diao, Ying-li Yang, Jin-yu Liu, Jia-nan Wang, Ying-yin Sun, Cheng Huang, Xiao-ming Meng, Hua Wang, Xiong-wen Lv and Jun Li
	366	Acetyl-CoA synthetase 2 promotes diabetic renal tubular injury in mice by rewiring fatty acid metabolism through SIRT1/ChREBP pathway Jian Lu, Xue-qi Li, Pei-pei Chen, Jia-xiu Zhang, Liang Li, Gui-hua Wang, Xiao-qi Liu, Chun-ming Jiang and Kun-ling Ma
Chemotherapy	378	Pentapeptide PYRAE triggers ER stress-mediated apoptosis of breast cancer cells in mice by targeting RHBDF1-BiP interaction SungJu Ryu, Hui Long, Xin-ling Zheng, Yuan-yuan Song, Yan Wang, Yu-jie Zhou, Xiao-jing Quan, Lu-yuan Li and Zhi-song Zhang

- 391 Deep learning enables the discovery of a novel cuproptosis-inducing molecule for the inhibition of hepatocellular carcinoma
Fan Yang, Lin Jia, Hong-chao Zhou, Jing-nan Huang, Meng-yun Hou, Feng-ting Liu, Nayana Prabhu, Zhi-jie Li, Chuan-bin Yang, Chang Zou, Pär Nordlund, Ji-gang Wang and Ling-yun Dai
- 405 Targeting PRSS23 with tipranavir induces gastric cancer stem cell apoptosis and inhibits growth of gastric cancer via the MKK3/p38 MAPK-IL24 pathway
Ji-xian Xiong, Yu-ting Li, Xiang-yu Tan, Tie Chen, Bao-hua Liu and Li Fu
- 422 A novel selective ERK1/2 inhibitor, Laxiflorin B, targets EGFR mutation subtypes in non-small-cell lung cancer
Cheng-Yao Chiang, Min Zhang, Junrong Huang, Juan Zeng, Chunlan Chen, Dongmei Pan, Heng Yang, Tiantian Zhang, Min Yang, Qiangqiang Han, Zou Wang, Tian Xiao, Yangchao Chen, Yongdong Zou, Feng Yin, Zigang Li, Lizhi Zhu and Duo Zheng
- 436 ¹²⁴I-labeled anti-CD147 antibody for noninvasive detection of CD147-positive pan-cancers: construction and preclinical studies
Xiao-kun Ma, Te-li Liu, Ya-nan Ren, Xiao-pan Ma, Yuan Yao, Xing-guo Hou, Jin Ding, Feng Wang, Hai-feng Huang, Hua Zhu and Zhi Yang

Cover

Schematic illustration of possible mechanisms contributing to curcumin against desipramine-induced apoptosis and insulin secretion impairment. Curcumin could inhibit the binding of AKAP150 to PP2B and the phosphorylation of synapsin 1 induced by desipramine, and suppress desipramine-induced insulin secretion impairment. Moreover, curcumin could inhibit desipramine-induced apoptosis through PI3K/AKT/FOXO1 signaling pathway. See the article in pages 327–338.

EXECUTIVE EDITOR FOR THIS ISSUE XU, Jia (Shanghai)

ACTA PHARMACOLOGICA SINICA (Monthly)

2024 February; Volume 45 Number 2

(Founded in September, 1980)

Sponsored by

Chinese Pharmacological Society
Shanghai Institute of Materia Medica, Chinese Academy of Sciences

Supervised by

China Association for Science and Technology

Editor-in-chief

DING, Jian

Edited by

Editorial Board of Acta Pharmacologica Sinica
294 Tai-yuan Road, Shanghai 200031, China
[Http://www.chinaphar.com](http://www.chinaphar.com)
E-mail aps@simm.ac.cn
Phn 86-21-5492-2821, 5492-2822; Fax 86-21-5492-2823

Published jointly by

Editorial Office of Acta Pharmacologica Sinica
Springer Nature

Publication date

5th every month

Printed by

Shanghai Shengtong Times Printing Co Ltd
568 Guang-ye Road, Shanghai 201506, China

Copyright © 2024 Shanghai Institute of Materia Medica, Chinese Academy of Sciences and Chinese Pharmacological Society