

Review Article

- 1765 Krüppel-like factors: potential roles in blood-brain barrier dysfunction and epileptogenesis
Ana Beatriz Santos, Andreia Carona, Miren Ettcheto, Antoni Camins, Amílcar Falcão, Ana Fortuna and Joana Bicker
- 1777 Insomnia-related rodent models in drug discovery
Ze-ka Chen, Yuan-yuan Liu, Ji-chuan Zhou, Gui-hai Chen, Chun-feng Liu, Wei-min Qu and Zhi-li Huang

Articles Molecular Pharmacology

- 1793 E3 ubiquitin ligase UBR5 modulates circadian rhythm by facilitating the ubiquitination and degradation of the key clock transcription factor BMAL1
Chun-yan Duan, Yue Li, Hao-yu Zhi, Yao Tian, Zheng-yun Huang, Su-ping Chen, Yang Zhang, Qing Liu, Liang Zhou, Xiao-gang Jiang, Kifayat Ullah, Qing Guo, Zhao-hui Liu, Ying Xu, Jun-hai Han, Jiajie Hou, Darran P O'Connor and Guoqiang Xu

Neuropharmacology

- 1809 PHLDA1 contributes to hypoxic ischemic brain injury in neonatal rats via inhibiting FUNDC1-mediated mitophagy
Xiao-lu Jiang, Zu-bin Zhang, Chen-xi Feng, Chen-jie Lin, Hui Yang, Lan-lan Tan, Xin Ding, Li-xiao Xu, Gen Li, Tao Pan, Zheng-hong Qin, Bin Sun, Xing Feng and Mei Li
- 1821 Sodium oligomannate activates the enteroendocrine-vagal afferent pathways in APP/PS1 mice
Hua-shan Gong, Jing-pei Pan, Fei Guo, Mei-mei Wu, Li Dong, Yang Li and Wei-fang Rong
- 1832 Thermoregulatory pathway underlying the pyrogenic effects of prostaglandin E2 in the lateral parabrachial nucleus of male rats
Jian-hui Xu, Tian-hui He, Nan-ping Wang, Wen-min Gao, Yong-jing Cheng, Qiao-feng Ji, Si-hao Wu, Yan-lin Wei, Yu Tang, Wen Z. Yang and Jie Zhang

Cardiovascular Pharmacology

- 1848 Vascular smooth muscle-specific LRRC8A knockout ameliorates angiotensin II-induced cerebrovascular remodeling by inhibiting the WNK1/FOXO3a/MMP signaling pathway
Feng-ting Lu, Cheng-cui Huang, Wen-yi Lai, Gui-yong Yang, Zhu-jun Liang, Zi-yi Zhang, Tanvi Chokshi, Kai-min Guo, Yu-bo Tang, Yuan Chen, Zhong-han Yang, Si-jia Liang, Rui-ping Pang, Jia-guo Zhou, Yong-yuan Guan, Xiao-fei Lv and Ming-ming Ma
- 1861 Canagliflozin alleviates pulmonary hypertension by activating PPAR γ and inhibiting its S225 phosphorylation *Open*
Xiu-chun Li, Xia-yan Zhu, Yang-yue Wang, Shuo-lan Tong, Zhi-li Chen, Zi-yi Lu, Jian-hao Zhang, Lan-lan Song, Xing-hong Wang, Chi Zhang, Yi-han Sun, Chu-yue Zhong, Li-huang Su, Liang-xing Wang and Xiao-ying Huang
- 1879 Cytosolic DNA initiates a vicious circle of aging-related endothelial inflammation and mitochondrial dysfunction via STING: the inhibitory effect of Cilostazol
Zhi-hua Zheng, Jiao-jiao Wang, Jiu-guo Lin, Wei-le Ye, Jia-mi Zou, Li-yin Liang, Ping-lian Yang, Wan-lu Qiu, Yuan-yuan Li, Si-jia Yang, Man Zhao, Qing Zhou, Cheng-zhi Li, Min Li, Zhuo-ming Li, Dong-mei Zhang, Pei-qing Liu and Zhi-ping Liu

Hepatic and Gastrointestinal Pharmacology

- 1898 Restoration of HMGCS2-mediated ketogenesis alleviates tacrolimus-induced hepatic lipid metabolism disorder
Sen-lin Li, Hong Zhou, Jia Liu, Jian Yang, Li Jiang, Hui-min Yuan, Meng-heng Wang, Ke-shan Yang and Ming Xiang
- 1912 Methionine-choline deficient diet deteriorates DSS-induced murine colitis through disturbance of gut microbes and infiltration of macrophages
Mo-ting Liu, Yao Zhang, Cai-gui Xiang, Tao Yang, Xiao-han Wang, Qiu-kai Lu, Hui-min Lu, Chen Fan, Chun-lan Feng, Xiao-qian Yang, Duo-wu Zou, Heng Li and Wei Tang

Inflammation

- 1926 Iguratimod suppresses plasma cell differentiation and ameliorates experimental Sjögren's syndrome in mice by promoting TEC kinase degradation
Ya-qi Yang, Yi-jun Liu, Wen-xuan Qiao, Wei Jin, Shun-wei Zhu, Yu-xi Yan, Qiong Luo and Qiang Xu

- Chemotherapy**
- 1937 GPC3-targeted CAR-T cells expressing GLUT1 or AGK exhibit enhanced antitumor activity against hepatocellular carcinoma
Rui-xin Sun, Yi-fan Liu, Yan-sha Sun, Min Zhou, Yi Wang, Bi-zhi Shi, Hua Jiang and Zong-hai Li
- 1951 Bevacizumab induces ferroptosis and enhances CD8⁺ T cell immune activity in liver cancer via modulating HAT1 and increasing IL-9
Chun-yu Hou, Pan Lv, Hong-feng Yuan, Li-na Zhao, Yu-fei Wang, Hui-hui Zhang, Guang Yang and Xiao-dong Zhang
- Drug Discovery**
- 1964 Discovery and pharmacological characterization of 1,2,3,4-tetrahydroquinoline derivatives as ROR γ inverse agonists against prostate cancer
Xi-shan Wu, Xiao-yu Luo, Cheng-chang Li, Xiao-fan Zhao, Cheng Zhang, Xiao-shan Chen, Zhi-fang Lu, Tong Wu, Hao-nan Yu, Chao Peng, Qing-qing Hu, Hui Shen, Yong Xu and Yan Zhang
- 1978 A potent new-scaffold androgen receptor antagonist discovered on the basis of a MIEC-SVM model
Xin-yue Wang, Xin Chai, Lu-hu Shan, Xiao-hong Xu, Lei Xu, Ting-jun Hou, Hui-yong Sun and Dan Li
- Correction**
- 1992 Author Correction: Small molecule LX2343 ameliorates cognitive deficits in AD model mice by targeting both amyloid β production and clearance
Xiao-dan Guo, Guang-long Sun, Ting-ting Zhou, Xin Xu, Zhi-yuan Zhu, Vatcharin Rukachaisirikul, Li-hong Hu and Xu Shen
- 1995 Author Correction: Ginsenoside Rg1 protects against ischemic/reperfusion-induced neuronal injury through miR-144/Nrf2/ARE pathway
Shi-feng Chu, Zhao Zhang, Xin Zhou, Wen-bin He, Chen Chen, Piao Luo, Dan-dan Liu, Qi-di Ai, Hai-fan Gong, Zhen-zhen Wang, Hong-shuo Sun, Zhong-ping Feng and Nai-hong Chen
- Cover**
- Methionine-choline deficient diet (MCD) has been widely illustrated in inducing persistent alterations of gut microbiota and metabolome during hepatitis. Given the close interaction between gut and liver disorders, this study further highlights that intake of MCD predisposes to experimental colitis and enhances its pathogenesis via modulating gut microbes and macrophages. See the article in pages 1912–1925.

EXECUTIVE EDITOR FOR THIS ISSUE ZHU, Qian-rong (Shanghai)

ACTA PHARMACOLOGICA SINICA (Monthly)

2024 September; Volume 45 Number 9

(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
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