Acta Pharmacologica Sinica

Contents

Monthly 2020 January; 41 (1)

Review Article

1 Neural circuits and nicotinic acetylcholine receptors mediate the cholinergic regulation of midbrain dopaminergic neurons and nicotine dependence ***Open***
Cheng Xiao, Chun-yi Zhou, Jin-hong Jiang, Cui Yin

Article

Neuropharmacology

10 6-*O*-angeloylplenolin exerts neuroprotection against lipopolysaccharide-induced neuroinflammation in vitro and in vivo
Yi-le Zhou, Yong-ming Yan, Si-yi Li, Dan-hua He, Sha Xiong, Su-fen Wei, Wei Liu, Ling Hu, Qi Wang, Hua-feng Pan, Yong-xian Cheng, Yong-qiang Liu

22 The lncRNA Malat1 functions as a ceRNA to contribute to berberine-mediated inhibition of HMGB1 by sponging miR-181c-5p in poststroke inflammation
Ding-wen Cao, Man-man Liu, Rui Duan, Yi-fu Tao, Jun-shan Zhou, Wei-rong Fang, Jun-rong Zhu, Li Niu, Jian-guo Sun

Cardiovascular Pharmacology

34 TSPO ligands prevent the proliferation of vascular smooth muscle cells and attenuate neointima formation through AMPK activation
Lian-pan Wu, Zheng-fan Gong, He Wang, Zhong-shu Zhou, Ming-ming Zhang, Chao Liu, Hong-mei Ren, Jian Yang, Yu Han, Chun-yu Zeng

47 Shikonin attenuates hyperhomocysteinemia-induced $CD4^+$ T cell inflammatory activation and atherosclerosis in $ApoE^{-/-}$ mice by metabolic suppression
Si-lin Lü, Guo-hui Dang, Jia-cheng Deng, Hui-ying Liu, Bo Liu, Juan Yang, Xiao-long Ma, Yu-tong Miao, Chang-tao Jiang, Qing-bo Xu, Xian Wang, Juan Feng

Hepatic Pharmacology

56 Rifampicin induces clathrin-dependent endocytosis and ubiquitin–proteasome degradation of MRP2 via oxidative stress-activated PKC-ERK/JNK/p38 and PI3K signaling pathways in HepG2 cells
Bao-yan Xu, Xu-dong Tang, Jing Chen, Hong-bo Wu, Wen-sheng Chen, Lei Chen

Renal Pharmacology

65 A thienopyridine, CB-20, exerts diuretic activity by inhibiting urea transporters
Min Li, Yan Zhao, Shun Zhang, Yue Xu, Shu-yuan Wang, Bo-wen Li, Jian-hua Ran, Run-tao Li, Bao-xue Yang

Immunopharmacology

73 Rebalancing of the gut flora and microbial metabolism is responsible for the anti-arthritis effect of kaempferol
Li-xiang Aa, Fei Fei, Qi Qi, Run-bin Sun, Sheng-hua Gu, Zi-zhen Di, Ji-ye Aa, Guang-ji Wang, Chang-xiao Liu

Chemotherapy

82 Garcinol inhibits esophageal cancer metastasis by suppressing the p300 and TGF-β1 signaling pathways
Jing Wang, Man Wu, Dan Zheng, Hong Zhang, Yue Lv, Li Zhang, Hong-sheng Tan, Hua Zhou, Yuan-zhi Lao, Hong-xi Xu

93 Somatic and germline mutations in the tumor suppressor gene *PARK2* impair PINK1/Parkin-mediated mitophagy in lung cancer cells
Zeng-li Zhang, Na-na Wang, Qi-lian Ma, Yang Chen, Li Yao, Li Zhang, Qiu-shi Li, Min-hua Shi, Hong-feng Wang, Zheng Ying

101 Evaluation of a novel monoclonal antibody mAb109 by immuno-PET/fluorescent imaging for noninvasive lung adenocarcinoma diagnosis
Hua Zhu, Te-li Liu, Chang-hao Liu, Jing Wang, Hong Zhang, Bin Dong, Jing Shen, Chuan-ke Zhao, Zhen-fu Li, Zhen Cheng, Zhi Yang

Acta Pharmacologica Sinica

Contents

Monthly 2020 January; 41 (1)

110 Ouabain impairs cancer metabolism and activates AMPK-Src signaling pathway in human cancer cell lines
Jia-jia Shen, Yue-chen Zhan, Hui-ying Li, Zhen Wang

Pharmaceutics

119 Silicone elastomer gel impregnated with 20(S)-protopanaxadiol-loaded nanostructured lipid carriers for ordered diabetic ulcer recovery
Di Sun, Shi-yan Guo, Li Yang, Ya-ru Wang, Xiao-hui Wei, Sha Song, Yi-wei Yang, Yong Gan, Zheng-tao Wang

Absorption, Distribution, Metabolism, Excretion

129 Leflunomide increased the renal exposure of acyclovir by inhibiting OAT1/3 and MRP2
Xiao-ying Liao, Qiang-qiang Deng, Li Han, Zhi-tao Wu, Zhao-liang Peng, Yuan Xie, Guang-ji Wang, Ji-ye Aa, Guo-yu Pan

Drug Discovery

138 CB-Dock: a web server for cavity detection-guided protein–ligand blind docking
Yang Liu, Maximilian Grimm, Wen-tao Dai, Mu-chun Hou, Zhi-xiong Xiao, Yang Cao

Information for authors

i-viii

Cover: **Nicotine orchestrates activation of distinct repertoire of nicotinic acetylcholine receptor subtypes in midbrain GABAergic and dopaminergic neurons and striatal dopaminergic terminals, drives burst firing in dopaminergic neurons, and gates phasic release of dopamine in the striatum. These processes constitute the signaling pathway that conveys rewarding effects of nicotine. See the article in pages 1–9.**

ACTA PHARMACOLOGICA SINICA (Monthly)
2020 January; Volume 41 Number 1
(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
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 or aps@sibs.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,
268 Jin-shui Road, Shanghai 201506, China

《中国药理学报》编辑部出版
国内外公开发行
国内统一连续出版物号
CN 31-1347/R
国内邮发代号 4-295
国内每期 100.00 元

Project for Enhancing International Impact of China STM Journals

Supported by SPFCAS

ISSN 1671-4083