

2025 APS Outstanding Contribution Awards

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APS Outstanding Paper Award

[Cell senescence induced by toxic interaction between \$\alpha\$ -synuclein and iron precedes nigral dopaminergic neuron loss in a mouse model of Parkinson's disease](#)

Qing-Qing Shen, Xian-Hui Ju, Xi-Zhen Ma, Chong Li, Lin Liu, Wen-Ting Jia, Le Qu, Lei-Lei Chen, Jun-Xia Xie

Acta Pharmacol Sin. 2024 Feb;45(2):268-281. doi: 10.1038/s41401-023-01153-z. Epub 2023 Sep 6.

[Predictive biomarkers of immunotherapy response with pharmacological applications in solid tumors](#)

Szonja Anna Kovács, János Tibor Fekete, Balázs Györfy

Acta Pharmacol Sin. 2023 Sep;44(9):1879-1889. doi: 10.1038/s41401-023-01079-6. Epub 2023 Apr 13.

[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, Ying Peng

Acta Pharmacol Sin. 2024 Feb;45(2):248-267. doi: 10.1038/s41401-023-01177-5. Epub 2023 Oct 13.

[Bergapten inhibits NLRP3 inflammasome activation and pyroptosis via promoting mitophagy](#)

Tong Luo, Xin Jia, Wan-di Feng, Jin-Yong Wang, Fang Xie, Ling-Dong Kong, Xue-Jiao Wang, Rui Lian, Xia Liu, Ying-Jie Chu, Yao Wang, An-Long Xu

Acta Pharmacol Sin. 2023 Sep;44(9):1867-1878. doi: 10.1038/s41401-023-01094-7. Epub 2023 May 4.

[Notoginsenoside R1 protects against myocardial ischemia/reperfusion injury in mice via suppressing TAK1-JNK/p38 signaling](#)

Jing-Jing Zeng, Han-Qing Shi, Fang-Fang Ren, Xiao-Shan Zhao, Qiao-Ying Chen, Dong-Juan Wang, Lian-Pin Wu, Mao-Ping Chu, Teng-Fang Lai, Lei Li

Acta Pharmacol Sin. 2023 Jul;44(7):1366-1379. doi: 10.1038/s41401-023-01057-y. Epub 2023 Jan 31.

[DrugRep: an automatic virtual screening server for drug repurposing](#)

Jian-Hong Gan, Ji-Xiang Liu, Yang Liu, Shu-Wen Chen, Wen-Tao Dai, Zhi-Xiong Xiao, Yang Cao

Acta Pharmacol Sin. 2023 Apr;44(4):888-896. doi: 10.1038/s41401-022-00996-2. Epub 2022 Oct 10.

[Direct cardio-protection of Dapagliflozin against obesity-related cardiomyopathy via NHE1/MAPK signaling](#)

Ke Lin, Na Yang, Wu Luo, Jin-Fu Qian, Wei-Wei Zhu, Shi-Ju Ye, Chen-Xin Yuan, Di-Yun Xu, Guang Liang, Wei-Jian Huang, Pei-Ren Shan

Acta Pharmacol Sin. 2022 Oct;43(10):2624-2635. doi: 10.1038/s41401-022-00885-8. Epub 2022 Feb 25.

[Aspirin triggers ferroptosis in hepatocellular carcinoma cells through restricting NF- \$\kappa\$ B p65-activated SLC7A11 transcription](#)

Yu-Fei Wang, Jin-Yan Feng, Li-Na Zhao, Man Zhao, Xian-Fu Wei, Yu Geng, Hong-Feng Yuan, Chun-Yu Hou, Hui-Hui Zhang, Guo-Wen Wang, Guang Yang, Xiao-Dong Zhang

Acta Pharmacol Sin. 2023 Aug;44(8):1712-1724. doi: 10.1038/s41401-023-01062-1. Epub 2023 Feb 24.

[Activating \$\alpha\$ 7nAChR ameliorates abdominal aortic aneurysm through inhibiting pyroptosis mediated by NLRP3 inflammasome](#)

Hui Fu, Qi-Rui Shen, Yi Zhao, Min Ni, Can-Can Zhou, Ji-Kuai Chen, Chen Chi, Dong-Jie Li, Guang Liang, Fu-Ming Shen

Acta Pharmacol Sin. 2022 Oct;43(10):2585-2595. doi: 10.1038/s41401-022-00876-9. Epub 2022 Feb 25.

[Long-term administration of salvianolic acid A promotes endogenous neurogenesis in ischemic stroke rats through activating Wnt3a/GSK3 \$\beta\$ / \$\beta\$ -catenin signaling pathway](#)

Sen Zhang, De-Wen Kong, Guo-Dong Ma, Cheng-di Liu, Yu-Jiao Yang, Shan Liu, Nan Jiang, Zi-Rong Pan, Wen Zhang, Ling-Lei Kong, Guan-Hua Du

Acta Pharmacol Sin. 2022 Sep;43(9):2212-2225. doi: 10.1038/s41401-021-00844-9. Epub 2022 Feb 25.

[The small molecule chemical compound cinobufotalin attenuates resistance to DDP by inducing ENKUR expression to suppress MYH9-mediated c-Myc deubiquitination in lung adenocarcinoma](#)

Jia-Hao Liu, Hui-Ling Yang, Shu-Ting Deng, Zhe Hu, Wei-Feng Chen, Wei-Wei Yan, Ren-Tao Hou, Yong-Hao Li, Rui-Ting Xian, Ying-Ying Xie, Yun Su, Li-Yang Wu, Ping Xu, Zhi-Bo Zhu, Xiong Liu, Yu-Ling Deng, Yu-Bing Wang, Zhen Liu, Wei-Yi Fang

Acta Pharmacol Sin. 2022 Oct;43(10):2687-2695. doi: 10.1038/s41401-022-00890-x. Epub 2022 Mar 16.

[Hernandezine induces autophagic cell death in human pancreatic cancer cells via activation of the ROS/AMPK signaling pathway](#)

Chang-Feng Song, Yu-Heng Hu, Zhi-Guo Mang, Zeng Ye, Hai-di Chen, De-Sheng Jing, Gui-Xiong Fan, Shun-Rong Ji, Xian-Jun Yu, Xiao-Wu Xu, Yi Qin

Acta Pharmacol Sin. 2023 Apr;44(4):865-876. doi: 10.1038/s41401-022-01006-1. Epub 2022 Oct 25.

[Fisetin treatment alleviates kidney injury in mice with diabetes-exacerbated atherosclerosis through inhibiting CD36/fibrosis pathway](#)

Ting-Feng Zou, Zhi-Gang Liu, Pei-Chang Cao, Shi-Hong Zheng, Wen-Tong Guo, Tian-Xiang Wang, Yuan-Li Chen, Ya-Jun Duan, Qing-Shan Li, Chen-Zhong Liao, Zhou-Ling Xie, Ji-Hong Han, Xiao-Xiao Yang

Acta Pharmacol Sin. 2023 Oct;44(10):2065-2074. doi: 10.1038/s41401-023-01106-6. Epub 2023 May 24.

[Tetramethylpyrazine prevents liver fibrotic injury in mice by targeting hepatocyte-derived and mitochondrial DNA-enriched extracellular vesicles](#)

Ya-Jing Li, Run-Ping Liu, Ming-Ning Ding, Qi Zheng, Jian-Zhi Wu, Xiao-Yong Xue, Yi-Qing Gu, Bo-Ning Ma, Ya-Jie Cai, Shuo Li, Sheng Lin, Lu-Yong Zhang, Xiaojiaoyang Li
Acta Pharmacol Sin. 2022 Aug;43(8):2026-2041. doi: 10.1038/s41401-021-00843-w. Epub 2022 Jan 13.

[Urolithin A ameliorates obesity-induced metabolic cardiomyopathy in mice via mitophagy activation](#)

Jian-Rong Huang, Ming-Hua Zhang, Ying-Jie Chen, Yu-Ling Sun, Zhi-Min Gao, Zhuo-Jia Li, Gui-Ping Zhang, Yuan Qin, Xiao-Yan Dai, Xi-Yong Yu, Xiao-Qian Wu
Acta Pharmacol Sin. 2023 Feb;44(2):321-331. doi: 10.1038/s41401-022-00919-1. Epub 2022 Jun 2.

[Pramipexole inhibits astrocytic NLRP3 inflammasome activation via Drd3-dependent autophagy in a mouse model of Parkinson's disease](#)

An-Qi Dong, Ya-Ping Yang, Shu-Min Jiang, Xiao-Yu Yao, Di Qi, Cheng-Jie Mao, Xiao-Yu Cheng, Fen Wang, Li-Fang Hu, Chun-Feng Liu
Acta Pharmacol Sin. 2023 Jan;44(1):32-43. doi: 10.1038/s41401-022-00951-1. Epub 2022 Jul 27.

[Mitochondrial-derived damage-associated molecular patterns amplify neuroinflammation in neurodegenerative diseases](#)

Miao-Miao Lin, Na Liu, Zheng-Hong Qin, Yan Wang
Acta Pharmacol Sin. 2022 Oct;43(10):2439-2447. doi: 10.1038/s41401-022-00879-6. Epub 2022 Mar 1.

[Mesenchymal stem cells in fibrotic diseases-the two sides of the same coin](#)

Lei Qin, Nian Liu, Chao-le-Meng Bao, Da-Zhi Yang, Gui-Xing Ma, Wei-Hong Yi, Guo-Zhi Xiao, Hui-Ling Cao
Acta Pharmacol Sin. 2023 Feb;44(2):268-287. doi: 10.1038/s41401-022-00952-0. Epub 2022 Jul 27.

[Therapeutic potential of colchicine in cardiovascular medicine: a pharmacological review](#)

Fan-Shun Zhang, Qing-Ze He, Chengxue Helena Qin, Peter J Little, Jian-Ping Weng, Suo-Wen Xu
Acta Pharmacol Sin. 2022 Sep;43(9):2173-2190. doi: 10.1038/s41401-021-00835-w. Epub 2022 Jan 19.

[Regulated cell death pathways in cardiomyopathy](#)

Shu-Yuan Sheng, Jia-Min Li, Xin-Yang Hu, Yibin Wang
Acta Pharmacol Sin. 2023 Aug;44(8):1521-1535. doi: 10.1038/s41401-023-01068-9. Epub 2023 Mar 13.

[Regulation of toll-like receptor \(TLR\) signaling pathways in atherosclerosis: from mechanisms to targeted therapeutics](#)

Mei Jin, Jian Fang, Jiao-Jiao Wang, Xin Shao, Suo-Wen Xu, Pei-Qing Liu, Wen-Cai Ye, Zhi-Ping Liu
Acta Pharmacol Sin. 2023 Dec;44(12):2358-2375. doi: 10.1038/s41401-023-01123-5. Epub 2023 Aug 7.

[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, Jin-Jian Lu
Acta Pharmacol Sin. 2024 Feb;45(2):223-237. doi: 10.1038/s41401-023-01159-7. Epub 2023 Sep 15.

[FXR: structures, biology, and drug development for NASH and fibrosis diseases](#)

Si-Yu Tian, Shu-Ming Chen, Cheng-Xi Pan, Yong Li

Acta Pharmacol Sin. 2022 May;43(5):1120-1132. doi: 10.1038/s41401-021-00849-4. Epub 2022 Feb 25.

[Immune-based combination therapy to convert immunologically cold tumors into hot tumors: an update and new insights](#)

Jiao-Jiao Ni, Zi-Zhen Zhang, Ming-Jie Ge, Jing-Yu Chen, Wei Zhuo

Acta Pharmacol Sin. 2023 Feb;44(2):288-307. doi: 10.1038/s41401-022-00953-z. Epub 2022 Aug 4.

[Novel insights into NOD-like receptors in renal diseases](#)

Juan Jin, Tao-Jie Zhou, Gui-Ling Ren, Liang Cai, Xiao-Ming Meng

Acta Pharmacol Sin. 2022 Nov;43(11):2789-2806. doi: 10.1038/s41401-022-00886-7. Epub 2022 Apr 1.

[Function and structure of bradykinin receptor 2 for drug discovery](#)

Jin-Kang Shen, Hai-Tao Zhang

Acta Pharmacol Sin. 2023 Mar;44(3):489-498. doi: 10.1038/s41401-022-00982-8. Epub 2022 Sep 8.

[Extracellular vesicles in vascular remodeling](#)

Chao Ye, Fen Zheng, Nan Wu, Guo-Qing Zhu, Xiu-Zhen Li

Acta Pharmacol Sin. 2022 Sep;43(9):2191-2201. doi: 10.1038/s41401-021-00846-7. Epub 2022 Jan 12.

[Chemotherapy-induced metastasis: molecular mechanisms and clinical therapies](#)

Jin-Xuan Su, Si-Jia Li, Xiao-Feng Zhou, Zhi-Jing Zhang, Yu Yan, Song-Lin Liu, Qi Qi

Acta Pharmacol Sin. 2023 Sep;44(9):1725-1736. doi: 10.1038/s41401-023-01093-8. Epub 2023 May 11.

[Neuronal K⁺-Cl⁻ cotransporter KCC2 as a promising drug target for epilepsy treatment](#)

Erin McMoneagle, Jin Zhou, Shiyao Zhang, Weixue Huang, Sunday Solomon Josiah, Ke Ding, Yun Wang, Jinwei Zhang

Acta Pharmacol Sin. 2024 Jan;45(1):1-22. doi: 10.1038/s41401-023-01149-9. Epub 2023 Sep 13.

[Current strategies and progress for targeting the "undruggable" transcription factors](#)

Jing-Jing Zhuang, Qian Liu, Da-Lei Wu, Lu Tie

Acta Pharmacol Sin. 2022 Oct;43(10):2474-2481. doi: 10.1038/s41401-021-00852-9. Epub 2022 Feb 7.

APS Outstanding Reviewer Award

Chang, Junlei	Fu, Li-wu	Mao, Xin-liang	Cheng, Jianjun
He, Qiao-jun	Zhang, Xiangnan	Hu, Wei-wei	Shen, Xu
Ji, Yong	Shen, Ying	Shao, Zhenhua	Chen, Shu-zhen
Jiang, Wei	Chen, Xiao-qian	Ma, Kun-Ling	Liu, Bo
Sun, Wu-Yi	Wu, Ying-li	Chen, Jian-guo	Hu, Shijun
Li, Chunling	Zhang, Yong	Zhang, Cun-Jin	Tang, Hailin
Yi, Fan	Zhang, Jian	Liu, Xin-an	Yang, Bo
Liu , Yu	Shi, Zhi	Liang, Si-Jia	Xu, Yiming
Zhang, Chun	Ouyang, Dong-yun	Ma, Liang	Zhao, Ying-Yong
Guo, Jian-You	Bi, Hui-chang	Wang, Junjian	Fang, Marong