2026 年 1 月　第 45 卷　第 1 期
月刊
1982 年 7 月创刊

药　学　研　究
JOURNAL OF PHARMACEUTICAL RESEARCH

《药学研究》第十三届编辑委员会

学 术 顾 问:陈凯先　管华诗　丁　健
岳建民　顾　宁　陈士林

编 委 会 主 任:李　涛

编委会副主任:(按姓氏笔画排序)
丁丽霞　王凤山　卢秀莲　杜冠华　李　波
李　燕　杨　勇　邱　峰　邵　蓉　郑家晴
胡立宏　柳　红　娄红祥　姚庆强　屠鹏飞

主　编:王维剑

副主编:林永强　程春雷　魏　霞　孙　铜

编　委:(按姓氏笔画排序)
丁　克　丁丽霞　于　沛　于荣敏　马　杰
马　国　王凤山　王永军　王戌梅　王荣梅
王淑敏　王　鹏　王　磊　尤启冬　方莲花
尹莉芳　邓仕任　卢秀莲　卢　燕　卢　懿
田海妍　皮荣标　朱　平　朱冬青　乔善义
刘玉璇　刘安昌　刘继华　刘焕香　刘景根
刘新泳　齐宪荣　安林坤　许风国　许　婧
孙成鹏　孙国祥　严春艳　杜冠华　李　华
李孝栋　李芸霞　李卓荣　李明玉　李　波
李　燕　杨　柯　杨　勇　吴亚林　吴　伟
吴艳芬　邱　峰　何祥久　何琪杨　何蓉蓉
余　蓉　沈　雁　宋　超　张东明　张冬梅
张兰英　张　伟　张庆英　张　杰　张相林
张晓琦　张培成　张　海　张　翱　陈士林
陈艳芬　邵　蓉　范　源　罗海彬　金少鸿
金　晶　周建平　郑忠辉　郑　彧　郑家晴
孟宪生　赵龙山　赵桂森　赵　维　赵渤年
胡立宏　胡昌勤　胡金锋　柳　红　娄红祥
姚庆强　姚美村　夏　星　徐　伟　徐志南
徐　峻　凌沛学　高分飞　高　昊　郭远强
郭志睿　郭　颖　唐　蕾　黄鸣清　黄容琴
盛　亮　寇俊萍　屠鹏飞　景　明　程　刚
傅俊杰　鲁　桂　温　清　游雪甫　窦明金
窦桂芳　蔡　圣　臧恒昌

JOURNAL OF PHARMACEUTICAL RESEARCH

目　次

·实验研究·

蓝萼香茶菜提取物通过抑制 IRE1α-TRAF2-ASK1-JNK1 通路缓解小鼠非酒精性脂肪性肝炎 …… 张伊凡,胡馨一,盛亮(1)

基于代谢组学和网络药理学探讨鸡骨草抗胆汁淤积的作用机制 …… 彭应珍,孙惠,赵静玉,周倩,吴芳芳,张宁(9)

LAG3 剪接变异体对肝癌细胞增殖及索拉非尼耐药的影响 …… 陈帅,梁燕文,林建梭,苏均宇,任建卫,刘义(17)

基于 Nrf2/HO-1 信号通路探讨藁本内酯衍生物对 H9c2 细胞 OGD/R 损伤模型的保护作用 …… 柳娜,刘仁憨,石露萍,马燕,蒲红利(22)

江苏省芡实及其生长水域沉积物重金属污染特征与风险评估 …… 丁爱华,支荣荣,李阳,郭焱,罗雨,卞海雯(27)

帕利哌酮缓释片溶出曲线方法研究 …… 张继新,常罡,黄翠苹,张勤,张娜,魏妲(36)

·药品监管科学研究·

我国细胞基因治疗领域监管科学研究产出特征与优化路径分析 …… 孙潭霖(40)

中药注册新政背景下蒙药新药开发策略 …… 岳思雨,齐晓,梁国栋,嘎鲁,高鑫,布仁,赵东敏,马宇衡,刘斌(47)

·综　述·

氧化应激系统在药物肝脏毒理学中的作用与调控机制 …… 申卫双,江振洲(55)

天然化合物调节铁死亡在代谢相关脂肪性肝病中的作用研究进展 …… 唐怡,颜楚林,戴欣黎,曾奕臻,瞿邦宸,陶亮(63)

RNA 药物递送系统的研究进展 …… 刘砚清,何东升,杨孟云,王佳敏,涂家生(72)

两性霉素 B 在毛霉病治疗中的应用与研究进展 …… 阚敏,吴园园,邵华(82)

硫酸软骨素制备方法的研究进展 …… 孙萌萌,赵淑雯,陈苇一,刘玉璇(90)

·临床药学·

贝伐珠单抗生物类似药与原研药治疗晚期 NSCLC 的临床综合评价 …… 刘艳鑫,吕晓霖,于宸,刘安昌(96)

皮肤黏膜患者病原微生物分布与耐药性分析
——以保定市第一中心医院为例 …… 李倩,孟庆彩(103)

·药学教育·

“从 0 到 1”创新中药研发的拔尖人才培养模式构建与实践 …… 马骁,彭成,韩波(110)

DeepSeek 赋能中医药教育:应用、风险及应对 …… 于钦明,王启帆,郭宏伟(115)

《药学研究》杂志 2026 年度征订启事 …… (109)

期刊基本参数:CN37-1493/R * 1982 * m * A4 * 120 * zh * P * ￥30.00 * * 17 * 2026-01
本期责任编辑:戴文婷

2026 January Volume 45 Number 1
Monthly
Founded in July, 1982

药 学 研 究
JOURNAL OF PHARMACEUTICAL RESEARCH

Academic Advisor: CHEN Kaixian GUAN Huashi DING Jian YUE Jianmin GU Ning CHEN Shilin

Director of Editorial Board: LI Tao

Associate Director of Editorial Board:

DING Lixia WANG Fengshan LU Xiulian
DU Guanhua LI Bo LI Yan
YANG Yong QIU Feng SHAO Rong
ZHENG Jiaqing HU Lihong LIU Hong
LOU Hongxiang YAO Qingqiang TU Pengfei

Editor-in-Chief: WANG Weijian

Associate Editors-in-Chief: LIN Yongqiang CHENG Chunlei WEI Xia SUN Tong

Members of Editoriol Board:

DING Ke DING Lixia YU Pei
YU Rongmin MA Jie MA Guo
WANG Fengshan WANG Yongjun WANG Xumei
WANG Rongmei WANG Shumin WANG Peng
WANG Lei YOU Qidong FANG Lianhua
YIN Lifang DENG Shiren LU Xiulian
LU Yan LU Yi TIAN Haiyan
PI Rongbiao ZHU Ping ZHU Dongqing
QIAO Shanyi LIU Yuxuan LIU Anchang
LIU Jihua LIU Huanxiang LIU Jinggen
LIU Xinyong QI Xianrong AN Linkun
XU Fengguo XU Jing SUN Chengpeng
SUN Guoxiang YAN Chunyan DU Guanhua
LI Hua LI Xiaodong LI Yunxia
LI Zhuorong LI Mingyu LI Bo
LI Yan YANG Ke YANG Yong
WU Yalin WU Wei WU Yanfen
QIU Feng HE Xiangjiu HE Qiyang
HE Rongrong YU Rong SHEN Yan
SONG Chao ZHANG Dongming ZHANG Dongmei
ZHANG Lanying ZHANG Wei ZHANG Qingying
ZHANG Jie ZHANG Xianglin ZHANG Xiaoqi
ZHANG Peicheng ZHANG Hai ZHANG Ao
CHEN Shilin CHEN Yanfen SHAO Rong
FAN Yuan LUO Haibin JIN Shaohong
JIN Jing ZHOU Jianping ZHENG Zhonghui
ZHENG Yu ZHENG Jiaqing MENG Xiansheng
ZHAO Longshan ZHAO Guisen ZHAO Wei
ZHAO Bonian HU Lihong HU Changqin
HU Jinfeng LIU Hong LOU Hongxiang
YAO Qingqiang YAO Meicun XIA Xing
XU Wei XU Zhinan XU Jun
LING Peixue GAO Fenfei GAO Hao
GUO Yuanqiang GUO Zhirui GUO Ying
TANG Lei HUANG Mingqing HUANG Rongqin
SHENG Liang KOU Junping TU Pengfei
JING Ming CHENG Gang FU Junjie
LU Gui WEN Qing YOU Xuefu
DOU Mingjin DOU Guifang CAI Sheng
ZANG Hengchang

JOURNAL OF PHARMACEUTICAL RESEARCH

CONTENTS

Rabdosia japonica extract alleviate non-alcoholic steatohepatitis in mice by inhibiting the IRE1α-TRAF2-ASK1-JNK1 pathway ····· *ZHANG Yifan, HU Xinyi, SHENG Liang* (1)

The mechanism of *Abrus cantoniensis* against cholestasis based on metabolomics and network pharmacology ····· *PENG Yingzhen, SUN Hui, ZHAO Jingyu, ZHOU Qian, WU Fangfang, ZHANG Ning* (9)

The impact of LAG3 splice variants on hepatocellular carcinoma cell proliferation and sorafenib resistance ····· *CHEN Shuai, LIANG Yanwen, LIN Jiansuo, SU Junyu, REN Jianwei, LIU Yi* (17)

Exploring the protective effect of ligustilide cycloprolactam on H9c2 cell OGD/R injury model based on Nrf2/HO-1 signaling pathway ····· *LIU Na, LIU Renhan, SHI Louping, MA Yan, PU Hongli* (22)

Characteristics and risk assessment of heavy metal pollution in Euryales Semen and sediments of its growing waters in Jiangsu Province ····· *DING Aihua, ZHI Rongrong, LI Yang, GUO Yan, LUO Yu, BIAN Haiwen* (27)

Study on the dissolution curves of Paliperidone Sustained-release Tablets ····· *ZHANG Jixin, CHANG Gang, HUANG Cuiping, ZHANG Qin, ZHANG Na, WEI Da* (36)

Analysis of the characteristics and optimization path of regulatory scientific research in the field of cell gene therapy in China ····· *SUN Tanlin* (40)

The R&D strategy analysis for Mongolian medicines under the new Chinese medicine registration policy ····· *YUE Siyu, QI Xiao, LIANG Guodong, GA Lu, GAO Xin, BU Ren, ZHAO Dongmin, MA Yuheng, LIU Bin* (47)

The role and regulatory mechanism of oxidative stress system in drug hepatotoxicity ····· *SHEN Weishuang, JIANG Zhenzhou* (55)

Research progress on the rale of natural compounds in regulating ferroptosis in metabolic associated fatty liver disease ····· *TANG Yi, YAN Chulin, DAI Xinli, ZENG Yizhen, QU Bangchen, TAO Liang* (63)

Research progress of RNA delivery system ····· *LIU Yanqing, HE Dongsheng, YANG Mengyun, WANG Jiamin, TU Jiasheng* (72)

Application and research progress of amphotericin B for the treatment of mucormycosis ····· *KAN Min, WU Yuanyuan, SHAO Hua* (82)

Research progress on preparation of chondroitin sulfate ····· *SUN Mengmeng, ZHAO Shuwen, CHEN Weiyi, LIU Yuxuan* (90)

Comprehensive clinical evaluation of a Bevacizumab biosimilar and the originator drug for advanced non-small cell lung cancer ····· *LIU Yanxin, LYU Xiaolin, YU Chen, LIU Anchang* (96)

Distribution and drug resistance of pathogenic microorganisms in dermatology patients ——taking Baoding No.1 Central Hospital as an example ····· *LI Qian, MENG Qingcai* (103)

Construction and practiceof top talent cultivation model for "From 0 to 1" innovative traditional Chinese medicine research and development ····· *MA Xiao, PENG Cheng, HAN Bo* (110)

DeepSeek empowers traditional Chinese medicine education: Applications, risks, and countermeasures ····· *YU Qinming, WANG Qifan, GUO Hongwei* (115)

Journal Primary Parameter: CN37-1493/R * 1982 * m * A4 * 120 * zh * P * ￥30.00 * * 17 * 2026-01