2026 年 4 月　第 45 卷　第 4 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·

炎琥宁对脂多糖诱导急性肺损伤的防治作用及机制
…… 孔学礼,胡颖玥,孙亚茹,杨浩鑫,张旋(361)

茯苓水提物对抗柴胡皂苷 A 引起的肝损伤机制
…… 胡馨一,周武柳,盛亮,吴静晓(367)

麻黄-桂枝水煎液对慢性脑缺血大鼠焦虑样行为及病理损伤的影响
…… 李一圣,陈飞瑜,许楷杭,邓小玉,卫平(374)

基于 UPLC-Q-TOF-MS 的泽兰体内外化学成分解析及其抗卵巢癌的网络药理学机制研究 …… 焦柱铖,包永睿,王帅,李天娇,孟宪生(381)

整合转录组学与分子对接预测次大风子素抗结直肠癌的多靶点机制
…… 张玫倩,梁艳妮,张艺萱,徐胜,辛乔艺,孙驭,周静(388)

浅表局麻镇痛的中药面膜的制备及作用机制初探
…… 岳艳然,姜山,张亚轩,焦丽萍,宫登科,刘飞,徐巍(395)

柳叶沙棘黄酮的绿色提取及抗氧化活性分析
…… 王谦,董洋宏,张莹(402)

泡桐果皮中碳取代香叶基二氢黄酮含量的检测方法与提取工艺研究
…… 谷文宇,王文君,柴君恒,贾献慧,肖成梅,唐文照(411)

·综　述·

强直性脊柱炎的发病机制与药物选择
…… 成文静,刘义,许碧莲,李文德(416)

三维荧光技术在药物研究中的应用
…谢凌云,汪冰,于雅萌,徐兴燕,牛艳,尹雪,薛菲,李世文,林永强,焦阳(424)

雷公藤肝毒性及其减毒策略研究进展
…… 张丛惠,张辉,朱宗敏,曹广尚,鞠建峰,马传江,朱日然(434)

微透析技术在生物医药领域的应用进展
…… 赵智荣,宁夏(442)

八角茴香精油研究与应用进展
…… 何静金,朱紫琪,余昆莹,钟海艺(449)

附子的毒理学、炮制方法及质量控制方法研究进展
…… 张晓惠,李文伟,李玉璀,刘志荣,谢楠,马潇(458)

·药学教育·

人工智能赋能中医药高等教育的文献计量学研究
…… 李梦圆,李洋(464)

新质生产力视阈下药学拔尖创新人才培养的实践与探索
…… 李琰,任克柏,秦勇,李成容,范瑾,章程,唐培,何勤(471)

·药事管理·

国内外药品生产清洁验证法规指南对比研究
…… 曹鸿雁,赵杰,胡敬峰,李武超,韩莹,刘荣(476)

《药学研究》关于抵制学术不端行为的声明 …… (480)

期刊基本参数:CN37-1493/R * 1982 * m * A4 * 120 * zh * P * ￥30.00 * * 17 * 2026-04
本期责任编辑:戴文婷

2026 April Volume 45 Number 4
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

Preventive effects and mechanisms of Yanhuning on lipopolysaccharide-induced acute lung injury ····· *KONG Xueli, HU Yingyue, SUN Yaru, YANG Haoxin, ZHANG Xuan* (361)

Mechanism of water extract of *Poria cocos* against liver injury caused by saikosaponin A ····· *HU Xinyi, ZHOU Wuliu, SHENG Liang, WU Jingxiao* (367)

Effects of *Ephedra-Cinnamon* Twig decoction on anxiety-like behavior and pathological damage in rats with chronic cerebral ischemia ····· *LI Yisheng, CHEN Feiyu, XU Kaihang, DENG Xiaoyu, WEI Ping* (374)

Investigation of the chemical components of *Lycopus lucidus in vitro* and *in vivo* based on UPLC-Q-TOF-MS and the network pharmacology mechanism against ovarian cancer ····· *JIAO Zhucheng, BAO Yongrui, WANG Shuai, LI Tianjiao, MENG Xiansheng* (381)

Integrating transcriptomics with molecular docking to predict the multi-target mechanism of hydnocarpin D against colorectal cancer ····· *ZHANG Meiqian, LIANG Yanni, ZHANG Yixuan, XU Sheng, XIN Qiaoyi, SUN Yu, ZHOU Jing* (388)

Fabrication of a topical anesthetic facial mask from traditional Chinese medicine and insights into its mechanism of action ····· *YUE Yanran, JIANG Shan, ZHANG Yaxuan, JIAO Liping, GONG Dengke, LIU Fei, XU Wei* (395)

Green extraction and antioxidant activity analysis of *Hippophae rhamnoides* flavonoids ····· *WANG Qian, DONG Yanghong, ZHANG Ying* (402)

Study on the content determination and extraction process of C-geranylflavanones from *Paulownia* pericarp ····· *GU Wenyu, WANG Wenjun, CHAI Junheng, JIA Xianhui, XIAO Chengmei, TANG Wenzhao* (411)

Pathogenesis and drug selection in ankylosing spondylitis ····· *CHENG Wenjing, LIU Yi, XU Bilian, LI Wende* (416)

Translation of three-dimensional fluorescence technology in pharmaceutical research ····· *XIE Lingyun, WANG Bing, YU Yameng, XU Xingyan, NIU Yan, YIN Xue, XUE Fei, LI Shiwen, LIN Yongqiang, JIAO Yang* (424)

Research progress of *Tripterygium wilfordii* hepatotoxicity and its attenuation strategy ····· *ZHANG Conghui, ZHANG Hui, ZHU Zongmin, CAO Guangshang, JU Jianfeng, MA Chuanjiang, ZHU Riran* (434)

Application of microdialysis technology in biomedical field ····· *ZHAO Zhirong, NING Xia* (442)

Research and application progress of star anise essential oil ····· *HE Jingjin, ZHU Ziqi, YU Kunying, ZHONG Haiyi* (449)

Research progress on the toxicology, processing methods and quality control of aconite ····· *ZHANG Xiaohui, LI Wenwei, LI Yucui, LIU Zhirong, XIE Nan, MA Xiao* (458)

Bibliometric analysis of artificial intelligence in higher education of traditional Chinese medicine ····· *LI Mengyuan, LI Yang* (464)

Implementation and exploration on cultivating top-notch innovative pharmacy talents from the perspective of new quality productive forces ····· *LI Yan, REN Kebai, QIN Yong, LI Chengrong, FAN Jin, ZHANG Cheng, TANG Pei, HE Qin* (471)

Comparative study on cleaning validation guidelines in domestic and international pharmaceutical production ····· *CAO Hongyan, ZHAO Jie, HU Jingfeng, LI Wuchao, HAN Ying, LIU Rong* (476)

Journal Primary Parameter: CN37-1493/R * 1982 * m * A4 * 120 * zh * P * ￥30.00 * * 17 * 2026-04