



ZHONGCAOYAO

Chinese Traditional and Herbal Drugs

第 56 卷 第 20 期 (总第 799 期)

2025 年 10 月 28 日出版

半月刊

1970 年 1 月创刊

主 管

天津药物研究院

主 办

天津药物研究院 (www.tjpr.com)

中国药学会 (www.cpa.org.cn)

编辑出版

《中草药》杂志编辑部

地址: 天津市滨海新区滨海科技园

惠仁道 306 号

邮编: 300462

电话: 022-27474913 23006821

网址: www.tiprpress.com

www.中草药杂志社.中国

E-mail: zcy@tiprpress.com

国际标准连续出版物号

ISSN 0253-2670

国内统一连续出版物号

CN 12-1108/R

主 编 陈士林

执行主编 陈常青

目 次

· 化学成分 ·

- 7273 薰鲁香中 2 个新的齐墩果烷型三萜
方 文, 安学瑞, 赵志强, 李林洁, 李天智, 项文田, 刘 伟
- 7281 海洋真菌 *Penicillium* sp. MDW-627 次级代谢产物研究
徐 辉, 高文鹏, 杜为胜, 兰建洲, 李培海, 孔凡栋, 王 聪
- 7288 栀子内生真菌 *Chaetomium globosum* HL-3 的次级代谢产物及抗菌活性
阮涵威, 黎 唯, 张艳丽, 郭 婕, 邓 亮, 李洪涛
- 7297 基于 UPLC-Q-TOF-MS/MS 技术的补阳还五汤加减方共煎与单煎混合剂
差异研究
滕诗瑶, 程天阳, 刘娅萍, 张其新, 谢佳焰, 杨瑜婧, 王嘉平
曹 岗, 邝浩丹, 吕 强

· 药剂与工艺 ·

- 7309 基于智能感官技术结合多元统计分析的酒乌梢蛇炮制程度快速辨识
研究
万 毅, 吴杨倩, 张小兰, 李铭轩, 陆兔林, 赵晓莉
- 7321 基于 HPLC 指纹图谱与 UPLC-Q-Exactive Orbitrap MS/MS 的太子参
不同加工品的非挥发性成分研究
刘自强, 韩童童, 金梦蕾, 吴诗澳, 湛瑞林
- 7332 九蒸九制多花黄精化学成分、抗氧化活性及挥发性风味的动态变化
及其机制
郑梅霞, 刘 伟, 侯国华, 张龙涛, 方扬辉, 牛雨晴, 朱雁鸣
苏海兰, 朱育菁
- 7344 基于“表里关联”的酒柴胡炮制工艺优化及颜色与质量关联性分析
郑长辉, 马丽娜, 何 婷, 顾媛媛, 赵 薇, 汪红斌, 牛源菲
富 尧, 曹俊岭
- 7355 甘草查耳酮 A 柔性脂质体的制备及其抗炎活性研究
欧阳泽垚, 苗开元, 赵新颖, 陈欣妍, 石召华
- 7368 pH 敏感/叶酸修饰白藜芦醇脂质体的制备、表征及对子宫内膜癌荷瘤
小鼠肿瘤的抑制作用
高 娟, 李伟宏, 李秀芬, 董莹莹, 卢富栋, 郝海军, 王风云

· 药理与临床 ·

- 7384 柚皮苷通过肠道菌群代谢产物介导调控 AMPK/SIRT1/NF- κ B 信号通路
改善小鼠急性肺损伤
李雯雯, 许 虹, 张旭瑶, 齐育麟, 周凤洁, 李 琳, 赵 鑫
潘桂湘, 刘 蕊, 李玉红
- 7395 双氢青蒿素通过 FOXO1/HK2/G6PC 和 MyD88/NF- κ B 通路改善 2 型
糖尿病小鼠肝脏糖代谢紊乱和炎症反应
张 雨, 杨源民, 李 玉, 陈利娜, 刘 拓, 汪 坤, 李玉洁
- 7407 麻黄-苦杏仁药对通过调控巨噬细胞极化和 PI3K/Akt/mTOR 通路缓解
急性肺损伤
马玉玮, 李占涛, 贾孟辉, Judick Yap Wei Hoong, 崔高畅, 杨 早
- 7422 基于 Keap1/Nrf2/ARE 通路和铜稳态研究珠子参总皂苷对伊利司莫和
二水合氯化铜诱导肝细胞铜死亡的影响
张继红, 张艳丽, 李浩然, 石孟琼, 闵泽婷, 张 颖, 刘 杰
何毓敏, 潘朝旺, 许 杰, 周 刚
- 7437 基于序贯代谢和 UPLC-Q-OT-qIT MS 的一枝蒿入血成分分析
阿地娜·阿不都艾尼, 哈木拉提·哈斯木, 程江南, 王新堂
丁 曼, 毛 艳
- 7450 荆防颗粒通过抑制内质网应激改善急性肺损伤小鼠肠道屏障功能
王红伟, 杜汉文, 周恩宝, 刘天艺, 杨恩华, 孙成宏, 赵明沂



ZHONGCAOYAO

Chinese Traditional and Herbal Drugs

第 56 卷 第 20 期 (总第 799 期)

2025 年 10 月 28 日出版

广告合作

中草药杂志社媒体运营部

电话: 022-23006868 23006895

印刷

天津市恒远印刷有限公司

国内发行

天津市邮政局

订 阅

全国各地邮政局

国外发行

中国国际图书贸易集团有限公司

(100044 北京 399 信箱)

国内邮发代号

6-77

国外邮发代号

M221

定价

每期 60.00 元 全年 1440.00 元

封面图片提供

周 磊

英文责任编辑

王祎然

本期责任编辑

李亚楠

• 数据挖掘与循证医学 •

- 7461 基于专利数据挖掘与转录组学的肌萎缩侧索硬化症中药复方精准治疗策略及机制预测
关 双, 王思村, 石峻力, 冷媛媛, 于亚南, 王 忠, 刘 骏
- 7472 基于 GEO 数据库的多发性硬化症进展相关潜在药物靶点系统分析及靶向中药成分预测
黄佳丽, 岳利峰, 孙 乐, 马 培, 刘海波, 许利嘉, 肖培根
- 7485 基于数据整合及网络医学的参麦注射液治疗低灌注性脑梗死的有效性评价
马鹏珍, 谢晓霞, 庞华鑫, 沈翊康, 胡晓楠, 刘明睿
梁笑笑, 赵玉凤
- 7498 基于 CiteSpace 可视化图谱分析川芎的研究动态及热点
龚恒佩, 颜 梅, 徐菲拉, 龚雪媛, 赵静芳

• 药材与资源 •

- 7512 七叶树 R2R3-MYB 转录因子基因家族鉴定及表达分析
解雪华, 秦 晨, 管崧淳, 孟祥霄, 曹 雪, 陈伟强, 王飞飞
万会花, 孙 伟
- 7526 金钱草全长转录组测序及 bHLH 基因家族分析
韩蓉蓉, 赵 鑫, 唐祥友, 刘燕琴, 曹 敏, 张瀚月
胡开治, 杨小玉
- 7540 基于虚拟筛选-成分敲除-效应成分指数联合的通关藤质量评价研究
李思雨, 王安鑫, 陈 杰, 李 娜, 张大川, 王添敏, 裴志东, 张 慧
- 7549 基于指纹图谱和化学成分结合化学计量学对不同产地茺蔚子的质量评价
万欣亚, 邢益添, 何民友, 马懿飞, 丘 娴, 陈向东, 孙冬梅
- 7556 基于多指标结合多元统计分析研究藤茶药材贮藏稳定性及成分变化规律
石依姗, 万 青, 汪秋兰, 方建国, 王文清, 熊 微

• 综 述 •

- 7564 逍遥散及其核心加减方治疗恶性肿瘤的作用机制及临床应用进展
朱燃培, 马清海, 张萍心, 王颖睿, 郑玉玲
- 7581 含硬角蛋白的动物类中药功效物质基础研究与应用展望
黄潇正, 武文星, 包旺林, 唐胜明, 葛 慧, 卿睿梓, 潘欣好
袁 昊, 刘 睿, 段金威
- 7594 淫羊藿在保健食品中的应用研究进展
徐 敏, 陈嘉俊, 张赫玲, 邱 红, 吴应梅, 周 浓
- 7605 人参皂苷及其制剂治疗脓毒症的研究进展
史若愚, 庞树朝, 肖 璐, 王 凯, 王 双, 张亚乾, 刘 毅
- 7614 红芪活性成分及其抗氧化作用机制研究进展
刘淑宁, 李明轩, 王晓彤, 孙焕焕, 谢耀慧, 李成义
- 7623 远志的药理作用研究进展
高冕晟, 叶梦雨, 刘英波, 柴 欣, 张成玉, 王跃飞, 钱桂英
- 7633 山银花的基原、成分、生物效应质量评控研究进展及 I 类质控指标预测
申 蕾, 宋立亚, 汪舒琦, 耿朴玉, 朱梦琴, 孔雨朦, 肖小河
刘文龙, 张喜利
- 7645 基于多组学的中医药治疗功能性消化不良作用机制研究进展
叶瑞银, 翟淑婷, 李勺玄, 沈华丹, 白 云, 岳苏红, 刘 婷
马越兴, 叶耀辉
- 7657 天麻育种研究进展
崔丽丽, 金美伶, 罗 婧, 陈 曦, 王继阳, 常 彤, 冯志伟, 赵 卉

本刊投稿须知见《中草药》2025, 56(1): 374-376.

期刊基本参数: CN 12-1108 R * 1970 * sm * A4 * 240 * zh * P * ¥ 60.00 * 3000 * 34 * 2025-20

CHINESE TRADITIONAL AND HERBAL DRUGS

Vol. 56 No. 20 Oct. 2025

Chinese Traditional and Herbal Drugs

(Semimonthly)

Founded in January, 1970

Supervised by

Tianjin Institute of Pharmaceutical Research

Sponsored by

Tianjin Institute of Pharmaceutical Research

(www.tjipr.com)

Chinese Pharmaceutical Association

(www.cpa.org.cn)

Edited and Published by

Editorial Office of Chinese Traditional

and Herbal Drugs

Address: 306# Huirendao, Binhai District,
Tianjin, China

Post Code: 300462

Tel: +86-22-27474913

Fax: +86-22-23006821

http: // www.中草药杂志社.中国

www.tiprpress.com

E-mail: zcy@tiprpress.com

Standard Number

ISSN 0253-2670

CN 12-1108/R

CODEN CTYAD8

Editor-in-chief

CHEN Shilin

Executive Editor-in-chief

CHEN Changqing

Contents

• Chemical Constituents •

- 7273 Two new oleanane-type triterpenoids from *Pistacia lentiscus*
FANG Wen, AN Xuerui, ZHAO Zhiqiang, LI Linjie, LI Tianzhi, XIANG Wentian, LIU Wei
- 7281 Secondary metabolites of marine-derived *Penicillium* sp. MDW-627
XU Hui, GAO Wenpeng, DU Weisheng, LAN Jianzhou, LI Peihai, KONG Fandong, WANG Cong
- 7288 Secondary metabolites of endophytic *Chaetomium globosum* HL-3 from *Gardenia jasminoides* and antimicrobial activity
RUAN Hanwei, LI Wei, ZHANG Yanli, GUO Jie, DENG Liang, LI Hongtao
- 7297 Comparative study on differences between co-decoction and individually decocted-mixed preparations of Buyang Huanwu Decoction and its modified formulations based on UPLC-Q-TOF-MS/MS technology
TENG Shiyao, CHENG Tianyang, LIU Yaping, ZHANG Qixin, XIE Jiayan, YANG Yujing, WANG Jiaping, CAO Gang, KUANG Haodan, LYU Qiang

• Pharmaceutics and Technology •

- 7309 Research on rapid identification of yellow rice wine-processing *Ptyas* with different processing degrees based on intelligent sensory technology combined with multivariate statistical analysis
WAN Yi, WU Yangqian, ZHANG Xiaolan, LI Mingxuan, LU Tulin, ZHAO Xiaoli
- 7321 Study on non-volatile components of different processed products of *Pseudostellariae Radix* based on HPLC fingerprint and UPLC-Q-Exactive Orbitrap MS/MS
LIU Ziqiang, HAN Tongtong, JIN Menglei, WU Shiao, CHEN Ruilin
- 7332 Chemical constituents, antioxidant activity and dynamic changes of volatile flavor and its mechanism of nine-steaming and nine-processing *Polygonatum cyrtoneura*
ZHENG Meixia, LIU Wei, HOU Guohua, ZHANG Longtao, FANG Yanghui, NIU Yuqing, ZHU Yanming, SU Hailan, ZHU Yujing
- 7344 Optimization of processing technology of wine-fried *Bupleuri Radix* based on "exterior-interior correlation" and correlation analysis of color and quality
ZHENG Changhui, MA Lina, HE Ting, GU Yuanyuan, ZHAO Wei, WANG Hongbin, NIU Yuanfei, FU Yao, CAO Junling
- 7355 Preparation of licochalcone A-loaded elastic liposomes and evaluation of their anti-inflammatory activity
OUYANG Zeyao, MIAO Kaiyuan, ZHAO Xinying, CHEN Xinyan, SHI Zhaohua
- 7368 Preparation, characterization of pH-sensitive/folic acid-modified resveratrol liposomes and its inhibitory effects on tumor of endometrial cancer-bearing mice
GAO Juan, LI Weihong, LI Xiufen, DONG Yingying, HU Fudong, HAO Haijun, WANG Fengyun

• Pharmacological Studies and Clinical Observations •

- 7384 Naringin improves acute lung injury in mice by mediating regulation of AMPK/SIRT1/NF- κ B signaling pathway through gut microbiota metabolites
LI Wenwen, XU Hong, ZHANG Xuyao, QI Yulin, ZHOU Fengjie, LI Lin, ZHAO Xin, PAN Guixiang, LIU Rui, LI Yuhong
- 7395 Dihydroartemisinin ameliorates hepatic glucose metabolism disorder and inflammatory response in mice with type 2 diabetes mellitus through FOXO1/HK2/G6PC and MyD88/NF- κ B pathways
ZHANG Yu, YANG Yuanmin, LI Yu, CHEN Lina, LIU Tuo, WANG Kun, LI Yujie
- 7407 *Ephedrae Herba-Armeniacae Semen Amarum* drug pair alleviates acute lung injury by regulating macrophage polarization and PI3K/Akt/mTOR pathway
MA Yuwei, LI Zhantao, JIA Menghui, JUDICK YAP Wei Hoong, CUI Gaochang, YANG Zao
- 7422 Effect of total saponins of *Panax japonicus* on elesclomol-CuCl₂·2H₂O-induced cuproptosis in hepatocytes based on Keap-1/Nrf2/ARE signaling pathway and copper homeostasis
ZHANG Jihong, ZHANG Yanli, LI Haoran, SHI Mengqiong, MIN Zeting, ZHANG Ying, LIU Jie, HE Yumin, PAN Chaowang, XU Jie, ZHOU Gang
- 7437 Analysis of components absorbed into blood of *Artemisia rupestris* based on sequential metabolism and UPLC-Q-OT-qIT MS
Adina ABUDUAINI, Hamulati HASIMU, CHENG Jiangnan, WANG Xintang, DING Man, MAO Yan
- 7450 Jingfang Granules improve intestinal barrier function in mice with acute lung injury by inhibiting endoplasmic reticulum stress
WANG Hongwei, DU Hanwen, ZHOU Enbao, LIU Tianyi, YANG Enhua, SUN Chenghong, ZHAO Mingyi

Chinese Traditional and Herbal Drugs

(Semimonthly)

Founded in January, 1970

Advertising cooperation

Department of Media Operations, Tianjin

Press of Chinese Herbal Medicines

Tel: (022)23006868 23006895

Printed by

Tianjin Hengyuan Printing Co., Ltd.

Distribution

Tianjin Post Office

Subscription Domestic

Local Post Office

Subscription Overseas

China International Book Trading Corporation,

PO Box 399, Beijing 100044, China

Publication Date

Oct. 28, 2025

Editor in Charge of English

WANG Yiran

Editor in Charge of This Issue

LI Yanan

· Data Mining and Evidence-Based Medicine ·

- 7461** Precision therapeutic strategies and mechanism prediction of traditional Chinese medicine compound prescriptions for amyotrophic lateral sclerosis based on patent data mining and transcriptomics
GUAN Shuang, WANG Sicun, SHI Yinli, LENG Yuanyuan, YU Yanan, WANG Zhong, LIU Jun
- 7472** Systematic analysis of druggable targets associated with multiple sclerosis progression based on GEO database and prediction of targeted traditional Chinese medicine components
HUANG Jiali, YUE Lifeng, SUN Le, MA Pei, LIU Haibo, XU Lijia, XIAO Peigen
- 7485** Evaluation of effectiveness of Shenmai Injection in treatment of hypoperfusion cerebral infarction based on data integration and network medicine
MA Pengzhen, XIE Xiaoxia, PANG Huaxin, SHEN Yikang, HU Xiaonan, LIU Mingrui, LIANG Xiaoxiao, ZHAO Yufeng
- 7498** Analysis of research trends and hotspots of *Chuanxiong Rhizoma* based on CiteSpace visualization map
GONG Hengpei, YAN Mei, XU Feila, GONG Xueyuan, ZHAO Jingfang

· Medicinal Materials ·

- 7512** Identification and expression analysis of R2R3-MYB transcription factor gene family in *Aesculus chinensis*
XIE Xuehua, QIN Chen, GUAN Songchun, MENG Xiangxiao, CAO Xue, CHEN Weiqiang, WANG Feifei, WAN Huihua, SUN Wei
- 7526** Full-length transcriptome sequencing and *bHLH* gene family analysis of *Lysimachia christinae*
HAN Rongrong, ZHAO Xin, TANG Xiangyou, LIU Yanqin, CAO Min, ZHANG Hanyue, HU Kaizhi, YANG Xiaoyu
- 7540** Establishing quality evaluation of *Marsdenia tenacissima* based on combination of virtual screening-component knockout-efficacy component index
LI Siyu, WANG Anxin, CHEN Jie, LI Na, ZHANG Dachuan, WANG Tianmin, PEI Zhidong, ZHANG Hui
- 7549** Quality evaluation of *Leonuri Fructus* from different origins based on fingerprint spectra and chemical composition combined with chemometrics
WAN Xinya, XING Yitian, HE Minyou, MA Yifei, QIU Xian, CHEN Xiangdong, SUN Dongmei
- 7556** Study on storage stability and component variation of vine tea medicinal materials based on multi-indicator combined with multivariate statistical analysis
SHI Yishan, WAN Qing, WANG Qiulan, FANG Jianguo, WANG Wenqing, XIONG Wei

· Reviews ·

- 7564** Mechanism of action and clinical application progress of Xiaoyao San and its core modified prescriptions in treatment of malignant tumors
ZHU Ranpei, MA Qinghai, ZHANG Pingxin, WANG Yingrui, ZHENG Yuling
- 7581** Research on bioactive material basis of animal-derived traditional Chinese medicines with hard keratin and prospects for their development and application
HUANG Xiaozheng, WU Wenxing, BAO Wanglin, TANG Shengming, GE Hui, QING Ruizi, PAN Xinyu, YUAN Hao, LIU Rui, DUAN Jinao
- 7594** Research progress on application of *Epimedii Folium* in health food
XU Min, CHEN Jiajun, ZHANG Heling, QIU Hong, WU Yingmei, ZHOU Nong
- 7605** Research progress on ginsenosides and their preparations in treatment of sepsis
SHI Ruoyu, PANG Shuchao, XIAO Lu, WANG Kai, WANG Shuang, ZHANG Yaqian, LIU Yi
- 7614** Research progress on active components of *Hedysari Radix* and their antioxidant mechanisms
LIU Shuning, LI Mingxuan, WANG Xiaotong, SUN Huanhuan, XIE Yaohui, LI Chengyi
- 7623** Research progress on pharmacological effects of *Polygalae Radix*
GAO Miansheng, YE Mengyu, LIU Yingbo, CHAI Xin, ZHANG Chengyu, WANG Yuefei, QIAN Guiying
- 7633** Research progress on quality evaluation based on origin, component, biological effect of *Lonicerae Flos* and prediction of its class I quality control indicators
SHEN Lei, SONG Liya, WANG Shuqi, GENG Puyu, ZHU Mengqin, KONG Yumeng, XIAO Xiaohe, LIU Wenlong, ZHANG Xili
- 7645** Research progress on mechanism of action of traditional Chinese medicine in treatment of functional dyspepsia based on multi-omics
YE Ruiyin, ZHAI Shuting, LI Shaoxuan, SHEN Huadan, BAI Yun, YUE Suhong, LIU Ting, MA Yuexing, YE Yaohui
- 7657** Research advances in breeding research of *Gastrodia elata*
CUI Lili, JIN Meiling, LUO Jing, CHEN Xi, WANG Jiyang, CHANG Tong, FENG Zhiwei, ZHAO Hui