



ZHONGCAOYAO

Chinese Traditional and Herbal Drugs

第 55 卷 第 22 期 (总第 777 期)

2024 年 11 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 ·

- 7575 黔产草珊瑚中 1 个新的木脂素化合物及其抗神经炎活性
王冬雨, 张 妮, 姜华勇, 刘翰飞, 李金玉, 潘卫东
- 7583 玉米须化学成分研究 (II)
武二岩, 赵 明, 时志春, 李 军, 孙立秋, 王 丹, 赵英楠
- 7591 圆锥乌头中二萜生物碱类成分及其化学分类学研究
欧彦希, 李 梅, 梁文成, 马嘉仪, 文 婕, 王金秋, 朱晨莹
朱凌捷, 陈 琳, 周先礼
- 7601 质谱自动化注释 workflow 解析黄连-吴茱萸药对化学成分
夏俊杰, 田 港, 刘瑞娜, 徐琼芳, 唐 靓, 方 乐, 金桢寓
何佩佩, 曹 岗, 单琪媛

· 药剂与工艺 ·

- 7614 基于中药“数字身份证”的中药复方数字化鉴定方法研究
王献瑞, 张佳婷, 贺方良, 荆文光, 郭晓晗, 李明华
程显隆, 魏 锋
- 7625 基于缔合胶体稳态重构思路的中药多酚口服液稳定性改善研究: 以三勒浆口服液为例
江宇柔, 余 强, 李格菲, 李梦琪, 张定堃, 韩 丽, 樊三虎
郑有德, 许润春, 黄浩洲, 林俊芝
- 7633 基于 HPLC 指纹图谱特征的补中益气汤组方配伍规律研究
贺嫣然, 吉丽群, 吴子佳, 余锦宁, 明良山, 董子舒
刘红宁, 樊启猛
- 7644 基于不同算法对杏仁止咳颗粒中间体物料属性与颗粒溶解性的相关性研究
陶 振, 洪 韵, 安双凤, 汪盛华, 闫 明, 朱明岩, 章晨峰
王振中, 肖 伟
- 7653 基于物性表征-内在指标结合化学模式识别比较不同醋淬方法对醋鳖甲质量的影响
陈高源, 曹皇亮, 涂济源, 伍红菊, 刘艳菊
- 7663 活性氧响应型透明质酸修饰的鬼臼毒素纳米胶束的处方优化与体外评价
谷丽艳, 孙朝渭, 董禹何, 李学涛, 于 洋
- 7674 基于双模板磁性表面分子印迹技术高效靶向分离大豆素及柚皮素
饶青青, 王 彪, 李圆莲, 童 飞, 杨胜祥, 况 焱

· 药理与临床 ·

- 7684 制霜对千金子总蛋白结构及肠道毒性的影响
王慧楠, 魏晓彤, 姜明瑞, 马思媛, 胡宇峰, 朱海婷, 张俊丽
张新宁, 王英姿
- 7694 黄芪多糖-II 在小肠微褶皱细胞中的受体介导吸收转运机制研究
高秀华, 李晓飞, 吕弯弯, 李 科, 李震宇, 秦雪梅
- 7704 生姜鲜榨汁中纳米囊泡的离体肠吸收特点及体外吸收机制研究
张雨佳, 郭小萌, 王 琪, 赵 一, 郭彦晨, 王 婷, 秦 敏
李睿怡, 吴 莎, 李 静, 贺 蕊, 张 楠, 龚慕辛
- 7714 原儿茶醛对环磷酸胺所致急性肝损伤的保护作用及机制研究
杨世瑜, 高思齐, 肖 雨, 何继江, 邱昌龙, 李 沙, 齐亚娟
李继安, 储金秀
- 7724 左归降糖解郁方调控 SIRT1/c-Myc/LDHA 信号通路影响糖尿病并发抑郁症海马乳酸代谢的机制研究
杨 蕊, 孟 盼, 张秀丽, 韩远山, 雷诗卉, 李 薇, 刘 检, 王宇红



ZHONGCAOYAO

Chinese Traditional and Herbal Drugs

第 55 卷 第 22 期 (总第 777 期)

2024 年 11 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

黎 舒

英文责任编辑

王祎然

本期责任编辑

赵慧亮

- 7736 基于代谢组学探索小檗碱对 APC^{min/+}小鼠结直肠腺瘤的作用机制
杨庆万, 周 松, 陈春兰, 张海波, 肖政华

• 数据挖掘与循证医学 •

- 7746 基于数据挖掘的半夏-乌头类反药组合临床同方使用规律分析
曹 灿, 徐向楠, 吴美晶, 廖文勇, 张继文, 吴英豪, 刘晓庆
任或娜, 田 颐, 董 肖, 柳海艳, 修琳琳, 陈绍红, 钟赣生
- 7756 《中国药典》2020 年版中药制剂关键信息挖掘
严鹏应, 张喜武
- 7773 基于生物信息学的变应性鼻炎易感基因筛选及潜在干预中药分析
田心语, 唐心浩, 李梓墨, 陈小宇, 袁海洲, 沙志荣, 史 军
- 7786 基于 CiteSpace 和 VOSviewer 的药食同源中药抗衰老研究进展可视化分析
曾凡沐辰, 叶贤龙, 于 伟, 熊凤敏, 陈英莉, 杨慧林, 姜 旋

• 药材与资源 •

- 7799 掌叶覆盆子查耳酮合成酶基因家族鉴定及表达分析
应宇鑫, 许张婷, 陈俊宇, 郑飞雄, 邹小维, 沈晓霞, 俞振明
- 7812 基于 ITS2 序列和特征图谱的天冬质量评价
钟婧婷, 殷洪林, 张 桐, 鄢 贵, 张复中, 谭庆当, 沈 刚, 韩 丽
- 7820 不同基质和施肥量对桃儿七幼苗成活、植株生长及活性物质积累的影响
谢雕雕, 苏红彦, 赵巧竹, 韩光雅, 付锦平, 韩江媛
董妙音, 栗孟飞
- 7828 基于 HPLC 指纹图谱和一测多评法的升麻饮片质量评价
余 武, 丁 婵, 彭思源, 龚 婕, 厉 晓, 浦子牛
王 炜, 崔培梧
- 7837 基于 UPLC 指纹图谱及多指标成分定量和化学计量学的白前质量评价
刘世红, 张红杨, 冯书敏, 黄必胜, 陈 诚, 刘大会, 雷 咪

• 综 述 •

- 7847 基于多维整合策略的中药复方制剂质量评价研究
吕 昀, 程文倩, 牛可敬, 于卉娟, 王跃飞
- 7857 中药通过调节肠道微生物-肠免疫轴治疗溃疡性结肠炎研究进展
王 尧, 陈 果, 张仕杰, 文姬媛, 蔡维维, 朱雪雪, 侯 豹
孙海建, 邱丽颖
- 7870 中药药对抗癫痫药理作用的研究进展
钟佳霖, 张茂福, 高 旅, 冯 鹏, 黄 洁, 郭 佩, 康璧君
姚景曦, 栾文燕, 史正刚
- 7880 中药对脑小血管病的治疗作用及相关机制研究进展
王 鹏, 罗 霜, 何 雯
- 7889 中药复方调控肠道菌群改善腹泻的作用及机制研究进展
叶桂芳, 于舒婷, 胡英还, 秦雪梅
- 7897 刺五加抗肿瘤活性成分作用机制及其临床应用
于 淼, 刘玉龙, 王 冰, 陈 刚, 薛沁冰, 李超宇, 王 昊
刘 婷, 陈思宇
- 7907 药食同源当归中农药残留及膳食暴露评估研究现状
李金娟, 李 婷, 陶自为, 白 滨, 栗孟飞
- 7914 小檗碱对骨缺损的修复作用及机制研究进展
李梦琦, 吴蔡王尘, 付晶晶, 郑延延, 刘 英, 刘吕花

本刊投稿须知见《中草药》2024, 55(1): 354-356.

期刊基本参数: CN 12-1108 R * 1970 * sm * A4 * 240 * zh * P * ¥ 60.00 * 3000 * 34 * 2024-22

CHINESE TRADITIONAL AND HERBAL DRUGS

Vol. 55 No. 22 Nov. 2024

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 •

- 7575 One new lignan from *Sarcandra glabra* with anti-neuroinflammatory activities
WANG Dongyu, ZHANG Ni, LOU Huayong, LIU Hanfei, LI Jinyu, PAN Weidong
- 7583 Chemical constituents from styles and stigmas of *Zea mays* (II)
WU Eryan, ZHAO Ming, SHI Zhichun, LI Jun, SUN Liqiu, WANG Dan, ZHAO Yingnan
- 7591 Diterpenoid alkaloids with chemotaxonomic significance from *Aconitum paniculigerum*
OU Yanxi, LI Mei, LIANG Wencheng, MA Jiayi, WEN Jie, WANG Jinqiu, ZHU Chenying, ZHU Lingjie, CHEN Lin, ZHOU Xianli
- 7601 Identification of chemical components from *Coptidis Rhizoma - Evodiae Fructus* herbal pair based on automated mass spectrometry annotation workflow
XIA Junjie, TIAN Gang, LIU Ruina, XU Qiongfang, TANG Jing, FANG Le, JIN Zhenyu, HE Peipei, CAO Gang, SHAN Qiyuan

• Pharmaceutics and Technology •

- 7614 Research on digital identification method of traditional Chinese medicine prescriptions based on “digital identity card” of traditional Chinese medicine
WANG Xianrui, ZHANG Jiating, HE Fangliang, JING Wenguang, GUO Xiaohan, LI Minghua, CHENG Xianlong, WEI Feng
- 7625 Improvement of stability of polyphenol oral solution of traditional Chinese medicine based on idea of homeostatic remodeling of conjugated colloids: A case study of Sanajon Oral Liquid
JIANG Yurou, YU Qiang, LI Gefei, LI Mengqi, ZHANG Dingkun, HAN Li, FAN Sanhu, ZHENG Youde, XU Runchun, HUANG Haozhou, LIN Junzhi
- 7633 Compatible theory of Buzhong Yiqi Decoction based on HPLC fingerprint characteristics
HE Yanran, JI Liqun, WU Zijia, YU Jinning, MING Liangshan, DONG Zishu, LIU Hongning, FAN Qimeng
- 7644 Correlation between material properties and particle solubility of intermediate of Xingbei Zhike Granules based on different algorithms
TAO Zhen, HONG Yun, AN Shuangfeng, WANG Shenghua, YAN Ming, ZHU Mingyan, ZHANG Chenfeng, WANG Zhenzhong, XIAO Wei
- 7653 Comparison of effects of different vinegar quenching methods on quality of vinegar *Trionycis Carapax* based on physical property characterization-intrinsic index combined with chemical pattern recognition
CHEN Gaoyuan, CAO Huangliang, TU Jiyuan, WU Hongju, LIU Yanju
- 7663 Optimization of formulation and *in vitro* evaluation of reactive oxygen species-responsive hyaluronic acid-modified podophyllotoxin nano-micelles
GU Liyan, SUN ZhaoWei, DONG Yuhe, LI Xuetao, YU Yang
- 7674 Efficient selective separation of daidzein and naringenin based on dual-template magnetic surface molecularly imprinted technology
RAO Qingqing, WANG Biao, LI Yuanlian, TONG Fei, YANG Shengxiang, KUANG Yi

• Pharmacological Studies and Clinical Observations •

- 7684 Effect of frosting on structure and intestinal toxicity of total protein from *Euphorbiae Semen*
WANG Huinan, WEI Xiaotong, JIANG Mingrui, MA Siyuan, HU Yufeng, ZHU Haiting, ZHANG Junli, ZHANG Xinning, WANG Yingzi
- 7694 Research on receptor-mediated absorptive transport mechanism of *Astragalus* polysaccharide-II in intestinal microfold cells
GAO Xiuhua, LI Xiaofei, LYU Wanwan, LI Ke, LI Zhenyu, QIN Xuemei
- 7704 Intestinal absorption characteristics and absorption mechanism *in vitro* of nano vesicles from fresh *Zingiber officinale* juice
ZHANG Yujia, GUO Xiaomeng, WANG Qi, ZHAO Yi, GUO Yanchen, WANG Ting, QIN Min, LI Ruiyi, WU Sha, LI Jing, HE Rui, ZHANG Nan, GONG Muxin
- 7714 Prophylactic effect and mechanism of protocatechuic aldehyde on cyclophosphamide-induced acute liver injury
YANG Shiyu, GAO Siqi, XIAO Yu, HE Jijiang, QIU Changlong, LI Sha, QI Yajuan, LI Ji'an, CHU Jinxiu
- 7724 Mechanism of Zuogui Jiangtang Jieyu Formula on treatment of hippocampal lactate metabolism in diabetes-related depression based on SIRT1/c-Myc/LDHA signaling pathway
YANG Hui, MENG Pan, ZHANG Xiuli, HAN Yuanshan, LEI Shihui, LI Wei, LIU Jian, WANG Yuhong

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

Nov. 28, 2024

Editor in Charge of English

WANG Yiran

Editor in Charge of This Issue

ZHAO Huiliang

- 7736 Mechanisms of berberine on APC^{min/+} colorectal adenoma mice based on metabolomics
YANG Qingwan, ZHOU Song, CHEN Chunlan, ZHANG Haibo, XIAO Zhenghua

• Data Mining and Evidence-Based Medicine •

- 7746 Analysis on use rule of *Pinelliae Rhizoma* and *Aconitum carmichaelii* contrary drug combinations in clinical same formula based on data mining
CAO Can, XU Xiangnan, WU Meijing, LIAO Wenyong, ZHANG Jiwen, WU Yinghao, LIU Xiaoqing, REN Yuna, TIAN Yi, DONG Xiao, LIU Haiyan, XIU Linlin, CHEN Shaohong, ZHONG Gansheng
- 7756 Key information mining of traditional Chinese medicine preparations in *Chinese Pharmacopoeia* 2020 edition
YAN Pengying, ZHANG Xiwu
- 7773 Screening of susceptible genes of allergic rhinitis based on bioinformatics and analysis of potential intervention of traditional Chinese medicine
TIAN Xinyu, TANG Xinhao, LI Zimo, CHEN Xiaoning, YUAN Haizhou, SHA Zhirong, SHI Jun
- 7786 Visual analysis of research progress on anti-aging effect of traditional Chinese medicine with medicine food homology based on CiteSpace and VOSviewer
ZENG Fanmuchen, YE Xianlong, YU Wei, XIONG Fengmin, CHEN Yingli, YANG Huilin, JIANG Xuan

• Medicinal Materials •

- 7799 Identification and expression profiles of chalcone synthase gene family in *Rubus chingii*
YING Yuxin, XU Zhangting, CHEN Junyu, ZHENG Feixiong, ZOU Xiaowei, SHEN Xiaoxia, YU Zhenming
- 7812 Quality evaluation of *Asparagus cochinchinensis* based on ITS2 sequence and characteristic chromatogram
ZHONG Jingping, YIN Honglin, ZHANG Tong, YAN Gui, ZHANG Fuzhong, TAN Qingchu, SHEN Gang, HAN Li
- 7820 Effect of different substrates and fertilization amounts on seedling survival, plant growth and bioactive metabolite accumulation in *Sinopodophyllum hexandrum*
XIE Diaodiao, SU Hongyan, ZHAO Qiaozhu, HAN Guangya, FU Jinping, HAN Jiangyuan, DONG Miaoyin, LI Mengfei
- 7828 Quality evaluation of *Cimicifugae Rhizoma* decoction pieces based on HPLC fingerprint and quantitative analysis of multicomponents by single-marker method
YU Wu, DING Chan, PENG Siyuan, GONG Jie, LI Xiao, PU Ziniu, WANG Wei, CUI Peiwu
- 7837 Quality evaluation of *Cynanchum stauntonii* by UPLC fingerprint combined with multi-component quantification and chemometrics
LIU Shihong, ZHANG Hongyang, FENG Shumin, HUANG Bisheng, CHEN Cheng, LIU Dahui, LEI Mi

• Reviews •

- 7847 Research review on quality evaluation of traditional Chinese medicine compound preparations based on multidimensional integration strategy
LYU Yun, CHENG Wenqian, NIU Kejing, YU Huijuan, WANG Yuefei
- 7857 Research progress on traditional Chinese medicine in treatment of ulcerative colitis by regulating intestinal microbiota-gut immune axis
WANG Yao, CHEN Guo, ZHANG Shijie, WEN Yuanyuan, CAI Weiwei, ZHU Xuexue, HOU Bao, SUN Haijian, QIU Liying
- 7870 Research progress on anti-epileptic pharmacological effect of herb pair in traditional Chinese medicine
ZHONG Jialin, ZHANG Maofu, GAO Lyu, FENG Peng, HUANG Jie, GUO Pei, KANG Bijun, YAO Jingxi, LUAN Wenyan, SHI Zhenggang
- 7880 Research progress on therapeutic effect and related mechanisms of traditional Chinese medicine on cerebral small vessel disease
WANG Peng, LUO Shuang, HE Wen
- 7889 Research progress on effect and mechanism of traditional Chinese herbal compounds in treatment of diarrhea by regulating intestinal flora
YE Guifang, YU Shuting, HU Yinghuan, QIN Xuemei
- 7897 Research progress on mechanism of action of antitumor active ingredients and clinical application of *Acanthopanax senticosus*
YU Miao, LIU Yulong, WANG Bing, CHEN Gang, XUE Qinbing, LI Chaoyu, WANG Hao, LIU Ting, CHEN Siyu
- 7907 Research status of pesticide residues and dietary exposure assessment in medicinal and edible *Angelica sinensis*
LI Jinjuan, LI Ting, TAO Ziwei, BAI Bin, LI Mengfei
- 7914 Repair effect and mechanism of berberine on bone defect
LI Mengqi, WU Caiwangchen, FU Jingjing, ZHENG Yanyan, LIU Ying, LIU Lyuhua