



ZHONGCAOYAO

Chinese Traditional and Herbal Drugs

第 55 卷 第 11 期 (总第 766 期)

2024 年 6 月 12 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 刘昌孝

执行主编 陈常青

目 次

· 专 论 ·

3579 论中药性状学

康廷国, 张 慧, 李 峰, 王添敏, 许 亮, 张建逵, 李 娜
宋慧鹏, 李思雨

· 化学成分 ·

3588 马鞭草中 1 个新生物碱成分

王加文, 李 洁, 刘建群, 彭财英, 舒积成

3593 川西合耳菊中 1 个新的艾里莫芬烷倍半萜

蔡璐瑶, 于 涵, 李召辉, 康钦钊, 黎 坤, 尹 汐, 赵 琳
兰小中, 何小凤, 吕光华

3602 棒柄杯伞的化学成分研究

雷启军, 逯永满, 马国需, 孙照翠, 许旭东, 石磊岭, 吕 杰

3609 基于 HERB 数据库草药成分的新型冠状病毒多靶点新型抑制剂虚拟
筛选

沈文静, 饶青青, 王 星, 戚懿予, 杨胜祥

3620 基于 HPLC-Q-Exactive Orbitrap MS 和特征分子网络技术快速鉴定
滇白珠水提物化学成分

王 宇, 郑 媛, 任雪阳, 董 英, 马嘉慕, 邓清月, 和映玉
李仙仙, 王秀环, 折改梅

· 药剂与工艺 ·

3635 载雷公藤红素结肠靶向-酶敏感纳米粒的制备、表征及药效学研究

张唯唯, 刘小铜, 杨林星, 伍西溪, 王思雅, 何聪健
周玉金, 石金凤

3647 滇黄精炮制前后化学成分变化研究

管彦辉, 梁正维, 施 扬, 徐素素, 廖 谦, 王 藤, 伯年国
杨生超, 张广辉, 郭云胶, 党菱婧, 龚福明, 陈军文, 赵 明

3659 白藜芦醇-盐酸巴马汀共晶水合物的制备、晶体结构及溶解性研究

梁 玲, 李延广, 郭全虎, 姜本勇

3668 负载胡桃醌的白及多糖-维生素 E 琥珀酸酯聚合物胶束的制备及表征

凌延文, 白丹妮, 胡艳秋, 平 洋, 王丽红, 苏 瑾

3679 基于 UPLC 四神丸方中 19 种有效成分定量测定以及提取工艺优化
研究

杨秋琛, 张琼琼, 王桂群, 代丽萍, 李玲玲, 崔 瑛, 刘雅琳

3689 经典名方桃核承气汤的 UPLC 指纹图谱及多指标成分含量测定研究

刘艳梅, 黄小丹, 彭致铨, 朱德全, 李振雨, 陈向东, 孙冬梅

· 药理与临床 ·

3705 基于内质网自噬系统探究泽泻汤对高脂血症急性胰腺炎的防治作用

张荣展, 汤甜甜, 黄 芳, 宋 婧, 周 佳

3716 雷公藤红素促进小肠上皮细胞肝 X 受体 α 表达调控胆固醇代谢研究

赵谭军, 付可沁, 施树成, 卜兰兰

3726 基于 Akt/mTOR 通路研究地榆皂苷 II 诱导肝癌细胞凋亡和自噬作用
机制

朱晓敏, 钟 颖, 黄娜娜, 孙 蓉

3735 银杏二萜内酯葡胺注射液对缺血性脑卒中小鼠脑质脑区的调控机制
研究

刘子宇, 徐欣玉, 吕文欣, 郭志宏, 张新庄, 曹 亮, 王振中
田金洲, 王团结, 潘 贤, 武子寅, 肖 伟

3749 基于 PI3K/Akt 信号通路探讨白芷颗粒对糖尿病视网膜病变的影响

高彩玲, 朱玲玲, 邱 洁, 潘从清, 郭 俊

3759 芒柄花素磺酸钠调控线粒体凋亡通路改善脑缺血再灌注损伤的研究

李雅楠, 李思博, 白 月, 肖维刚, 陈 娟, 黄怀鹏



ZHONGCAOYAO

Chinese Traditional and Herbal Drugs

第 55 卷 第 11 期 (总第 766 期)

2024 年 6 月 12 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

英文责任编辑

陈雨虹

本期责任编辑

郑礼胜

3768 清咳平喘颗粒治疗慢性阻塞性肺疾病急性加重(痰热郁肺证)的临床疗效及对血清 IL-6、PCT 的影响

于向艳, 闫红倩, 宿英豪, 聂 佳, 马蕴蕾, 刘 云, 康增路
郭勇英, 刘新发, 耿立梅

• 数据挖掘与循证医学 •

3774 基于单细胞转录组探讨新型冠状病毒感染后慢性疲劳综合征与炎症反应、氧化应激、细胞凋亡之间分子机制及其潜在干预中药预测

黎祖鸣, 封杰妮, 陈雪如, 卢 月, 黄涛亮, 李际强, 杨荣源
陈剑坤, 刘云涛

3789 基于 CiteSpace 的雷公藤红素知识图谱分析

温乐乐, 叶 梓, 江丽洁, 胡琳娜, 孔伟华, 王 璐, 沈晓霞
刘巨钊, 秦路平, 崔 琦

3805 基于 CiteSpace 和 VOSviewer 的白芍研究现状及研究热点可视化分析

鄢 贵, 龚普阳, 张复中, 谭庆台, 宋启瑞, 沈 刚

3816 基于超图的中药方剂超网络中药材群组信息挖掘

单雨濛, 张 科, 胡文军, 何 英, 郑泽宇

• 药材与资源 •

3825 基于 ITS 条形码及机器学习的黄檀属物种分子鉴别研究

邝家荣, 刘巧珍, 代江鹏, 谭智杰, 林月霞, 高晓霞, 朱 爽

3835 百合属药用植物叶绿体基因组密码子偏好性及系统发育研究

代国娜, 尚明越, 王嘉乐, 郑加梅, 廖彬彬, 刘颖琳, 段宝忠

3845 不同生长年限巴戟天萜醌类含量差异比较及转录组学挖掘萜醌类生物合成相关基因

梁 雪, 黄 鼎, 黄雪慧, 黄 勇, 张超裕, 王素娥, 田 慧

3855 UPLC-QQQ-MS/MS 指纹图谱结合一测多评法的不同品种苦荞麦质量评价

王 迪, 杨洁丽, 聂 佳, 何悦月, 李 维, 李 杰, 李阳倩

3866 基于变异系数的模糊物元模型评价不同基原甘草药材质量及快速判别研究

李瑞华, 林 夏, 罗京超, 陈雨竹, 张永超, 李执栋, 闫逸伦
候化蕊, 童 枫, 张 欣, 王振中

• 综 述 •

3874 芦荟治疗便秘的研究进展

黄炜锐, 余祥彬, 余 越

3886 基于化学成分、药理作用及网络药理学的血府逐瘀胶囊质量标志物(Q-Marker)预测

贺木兰, 王 玺, 何成峙, 余河水, 宋 纹, 张 营, 王跃飞
李 正, 李文龙

3898 补肾活血中药治疗膝骨性关节炎与骨质疏松症“共病”机制研究进展

杨浩宇, 王世坤, 杨东元, 尹润宇, 邹远超, 李远栋

3906 红芪黄酮类成分药理作用及机制研究进展

符凯润, 李昕蓉, 魏小成, 何军刚, 贾妙婷, 李 岩, 燕羽婷
谢鑫明, 李成义

3916 苍术中有效成分抗肿瘤作用机制研究进展

严世豪, 黎 红, 赵蓓蓓, 龚文慧, 辛 力, 郭静英
郑郁清, 张金莲

• 药事管理 •

3927 基于 INCOPAT 数据库的彝族医药发明专利信息分析

冯毅翀, 郑 林, 胡奇志, 李悦鸣, 喻 林, 夏 颖

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 - 11

CHINESE TRADITIONAL AND HERBAL DRUGS

Vol. 55 No. 11 June 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

LIU Changxiao

Executive Editor-in-chief

CHEN Changqing

Contents

• Special Topic •

- 3579 Discussion on Chinese materia medica characterology
KANG Tingguo, ZHANG Hui, LI Feng, WANG Tianmin, XU Liang, ZHANG Jiankui, LI Na, SONG Huipeng, LI Siyu

• Chemical Constituents •

- 3588 A new alkaloid isolated from *Verbena officinalis*
WANG Jiawen, LI Jie, LIU Jianqun, PENG Caiying, SHU Jicheng
- 3593 A new eremophilane-type sesquiterpenoid from *Synotis solidaginea*
CAI Luyao, YU Han, LI Zhaoxue, KANG Qinzha, LI Kun, YIN Xi, ZHAO Lin, LAN Xiaozhong, HE Xiaofeng, LYU Guanghua
- 3602 Chemical constituents from *Clitocybe clavipes*
LEI Qijun, LU Yongman, MA Guoxu, SUN Zhaocui, XU Xudong, SHI Leiling, LYU Jie
- 3609 Virtual screening of novel multi-target inhibitors against SARS-CoV-2 based on herbal ingredients of HERB database
SHEN Wenjing, RAO Qingqing, WANG Xing, QI Yiyu, YANG Shengxiang
- 3620 Rapid identification of chemical components in water extract of *Gaultheria leucocarpa* var. *crenulata* based on HPLC-Q-Exactive Orbitrap MS and feature-based molecular networking technology
WANG Yu, ZHENG Yuan, REN Xueyang, DONG Ying, MA Jiamu, DENG Qingyue, HE Yingyu, LI Xianxian, WANG Xiuhuan, SHE Gaimei

• Pharmaceutics and Technology •

- 3635 Preparation, characterization and pharmacodynamics of colon-targeted/enzyme-sensitive nanoparticles loading celastrol
ZHANG Weiwei, LIU Xiaotong, YANG Linxing, WU Xixi, WANG Siya, HE Congjian, ZHOU Yujin, SHI Jinfeng
- 3647 Differences in chemical constituents of *Polygonatum kingianum* before and after processing
GUAN Yanhui, LIANG Zhengwei, SHI Yang, XU Susu, LIAO Qian, WANG Teng, BAI Nianguo, YANG Shengchao, ZHANG Guanghui, GUO Yunjiao, DANG Lingjing, GONG Fuming, CHEN Junwen, ZHAO Ming
- 3659 Preparation, crystal structure, and dissolution analysis for cocrystal hydrate of resveratrol with palmitate hydrochloride
LIANG Ling, LI Yanguang, GUO Quanhu, LOU Benyong
- 3668 Preparation and characterization of *Bletilla striata* polysaccharide-vitamin E succinate polymer micelles loaded with juglone
LING Yanwen, BAI Danni, HU Yanqiu, PING Yang, WANG Lihong, SU Jin
- 3679 Quantitative determination of 19 active components and optimization of extraction technology of Sishen Pills based on UPLC
YANG Qiuchen, ZHANG Qiongqiong, WANG Guiqun, DAI Liping, LI Lingling, CUI Ying, LIU Yalin
- 3689 UPLC fingerprint and multi-index component content determination of classical herbal prescription Taohe Chengqi Decoction
LIU Yanmei, HUANG Xiaodan, PENG Zhicheng, ZHU Dequan, LI Zhenyu, CHEN Xiangdong, SUN Dongmei

• Pharmacological Studies and Clinical Observations •

- 3705 Effect of Zexie Decoction on hyperlipidemia acute pancreatitis based on endoplasmic reticulum-autophagy system
ZHANG Rongzhan, TANG Tiantian, HUANG Fang, SONG Jing, ZHOU Jia
- 3716 Celastrol promotes expression of LXR α in small intestinal epithelial cell to regulate cholesterol metabolism
ZHAO Tanjun, FU Keqin, SHI Shucheng, BU Lanlan
- 3726 Mechanism of ziyuglycoside II on apoptosis and autophagy in hepatocellular carcinoma cells based on Akt/mTOR pathway
ZHU Xiaomin, ZHONG Ying, HUANG Nana, SUN Rong
- 3735 Regulatory mechanism of Diterpene Ginkgolides Meglumine Injection on substantia nigra brain region in ischemic stroke mice
LIU Ziyu, XU Xinyu, LYU Wenxin, GUO Zhihong, ZHANG Xinzhuang, CAO Liang, WANG Zhenzhong, TIAN Jinzhou, WANG Tuanjie, PAN Xian, WU Ziyin, XIAO Wei
- 3749 Effect of *Angelica dahurica* granules on diabetic retinopathy based on PI3K/Akt signaling pathway
GAO Cailing, ZHU Lingling, QIU Jie, PAN Congqing, GUO Jun

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

June 12, 2024

Editor in Charge of English

CHEN Yuhong

Editor in Charge of This Issue

ZHENG Lisheng

- 3759 Sodium formononetin-3'-sulphonate alleviates cerebral ischemia-reperfusion injury via regulating mitochondrial apoptosis pathway
LI Yanan, LI Sibao, BAI Yue, XIAO Weigang, CHEN Juan, HUANG Huaipeng
- 3768 Clinical efficacy of Qingke Pingchuan Granules in treatment of AECOPD (phlegm heat stagnation lung syndrome) and its impact on serum IL-6 and PCT
YU Xiangyan, YAN Hongqian, SU Yinghao, NIE Jia, MA Yunlei, LIU Yun, KANG Zenglu, GUO Yongying, LIU Xinfu, GENG Limei
- Data Mining and Evidence-Based Medicine •
- 3774 Exploration on molecular mechanisms between chronic fatigue syndrome after COVID-19 and inflammatory response, oxidative stress and apoptosis based on single cell transcriptome and prediction of potential intervention in traditional Chinese medicine
LI Zuming, FENG Jieni, CHEN Xueru, LU Yue, HUANG Taoliang, LI Jiqiang, YANG Rongyuan, CHEN Jiankun, LIU Yuntao
- 3789 Knowledge mapping analysis of celastrol based on CiteSpace
WEN Lele, YE Zi, JIANG Lijie, HU Linna, KONG Weihua, WANG Lu, SHEN Xiaoxia, LIU Juzhao, QIN Luping, CUI Qi
- 3805 Visualization analysis of research status and hotspots of *Paeoniae Radix Alba* based on CiteSpace and VOSviewer
YAN Gui, GONG Puyang, ZHANG Fuzhong, TAN Qingchu, SONG Qirui, SHEN Gang
- 3816 Mining of group information of medicinal materials in traditional Chinese medicine prescriptions hypernetwork based on hypergraph
SHAN Yumeng, ZHANG Ke, HU Wenjun, HE Ying, ZHENG Zeyu
- Medicinal Materials •
- 3825 Molecular identification of *Dalbergia* species based on ITS barcode with machine learning approaches
KUANG Jiarong, LIU Qiaozhen, DAI Jiangpeng, TAN Zhijie, LIN Yuexia, GAO Xiaoxia, ZHU Shuang
- 3835 Codon bias and phylogenesis analysis of chloroplast genome in medicinal plants of *Lilium*
DAI Guona, SHANG Mingyue, WANG Jiale, ZHENG Jiamei, LIAO Binbin, LIU Yinglin, DUAN Baozhong
- 3845 Comparison of anthraquinone content in *Morinda officinalis* at different growth years and transcriptomics mining of anthraquinone biosynthesis related genes
LIANG Xue, HUANG Ding, HUANG Xue-hui, HUANG Yong, ZHANG Chaoyu, WANG Sue, TIAN Hui
- 3855 Quality evaluation of different varieties of *Fagopyrum tataricum* by UPLC-QQQ-MS/MS fingerprint combined with quantitative analysis of multicomponents by single-marker
WANG Di, YANG Jieli, NIE Jia, HE Yueyue, LI Wei, LI Jie, LI Yangqian
- 3866 Evaluation of quality and spectral rapid identification of *Glycyrrhizae Radix* et *Rhizoma* from different origins by fuzzy matter-element model based on coefficient of variation
LI Ruihua, LIN Xia, LUO Jingchao, CHEN Yuzhu, ZHANG Yongchao, LI Zhidong, YAN Yilun, HOU Huarui, TONG Feng, ZHANG Xin, WANG Zhenzhong
- Reviews •
- 3874 Research progress of *Aloe* in treatment of constipation
HUANG Weirui, YU Xiangbin, YU Yue
- 3886 Prediction of quality markers of Xuefu Zhuyu Capsule based on chemical composition, pharmacological action and network pharmacology
HE Mulan, WANG Xi, HE Chengzhi, YU Heshui, SONG Wen, ZHANG Ying, WANG Yuefei, LI Zheng, LI Wenlong
- 3898 Mechanism of co-morbidity between osteoarthritis of knee and osteoporosis treated with traditional Chinese medicine for tonifying kidney and activating blood
YANG Haoyu, WANG Shikun, YANG Dongyuan, YIN Runyu, ZOU Yuanchao, LI Yuandong
- 3906 Research progress on pharmacological action and mechanism of *Hedysari Radix* flavones
FU Kairun, LI Xinrong, WEI Xiaocheng, HE Jungang, JIA Miaoting, LI Yan, YAN Yuting, XIE Xinming, LI Chengyi
- 3916 Mechanism of anti-tumor effect of active ingredients of *Atractylodis Rhizoma*
YAN Shihao, LI Hong, ZHAO Beibei, GONG Wenhui, XIN Li, GUO Jingying, ZHENG Yuqing, ZHANG Jinlian
- Pharmacy Administration •
- 3927 Analysis of Yi ethnic medicine invention patents information based on INCOPAT database
FENG Yichong, ZHENG Lin, HU Qizhi, LI Yueming, YU Lin, XIA Ying