



ZHONGCAOYAO

Chinese Traditional and Herbal Drugs

第 54 卷 第 18 期 (总第 749 期)

2023 年 9 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.tjipr.com)

中国药学会 (www.cpa.org.cn)

编辑出版

《中草药》杂志编辑部

地址：天津市滨海高新区滨海科技园

惠仁道 306 号

邮编：300462

电话：022-27474913 23006821

网址：www.中草药杂志社.中国

www.tiprpress.com

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 汤立达

执行主编 陈常青

目 次

• 化学成分 •

- 5833 卡氏乳香中 1 个新的降二萜
徐莲莲, 陈志超, 何梦丽, 杨 宝, 付剑江, 陈芳有, 罗永明
5840 海绵共生木霉属真菌绿木霉中 1 个新的倍半萜类化合物
张 璐, 刘辰鹏, 王瑞琪, 焦伟华, 张小坡
5846 高山三尖杉枝叶的化学成分研究 (I)
李艳芝, 华会明, 李达翊, 付英杰
5855 基于“化学物质组-血中移行成分-药动学”的蒙药暖宫七味丸质量
标志物研究
张晨晨, 张东旭, 张玉凤, 张爱杰, 董世奇, 韩 峰, 邢界红
樊慧蓉, 刘昌孝

• 药剂与工艺 •

- 5867 透明质酸修饰的栀子苷传递体凝胶的制备及其对佐剂型关节炎药效学
评价 颜 红, 高司琪, 骆慧婷, 欧阳威, 王旭易, 李 爽
5880 基于指纹图谱和 4 种指标成分的经典名方一贯煎基准样品量值传递
分析
胡钰荧, 李淑萍, 热依木古丽·阿布都拉, 阿吉艾克拜尔·艾萨
吴 涛
5892 基于 UPLC 指纹图谱和网络药理学的当归炮制前后差异质量标志物
研究
覃柳莹, 梁丽金, 胡 懿, 甘力帆, 黄 森, 徐 杰, 张志鹏
5904 高良姜精油提取工艺优化、成分分析及其生物活性研究
谢小丽, 胡 琰, 陈振夏, 陈 悅, 江 芊, 官玲亮, 于福来
5916 蜘蛛香炒制过程中色泽与主要成分的相关性研究
王梦琦, 谷云霞, 田 静, 席武霞, 谢 晖, 刘小莉
5923 Box-Behnken 响应面结合 FAHP-熵权法和基准关联度优化经典名方
泻白散的提取工艺
王 锐, 邱智东, 刘 澈, 董金香, 贾艾玲, 刁元元, 李军鸽
5933 小儿健脾颗粒质量标准建立研究
王 鼎, 王 佳, 胡军华, 章晨峰, 王振中, 林 夏, 肖 伟

• 药理与临床 •

- 5941 基于大麻素 2 型受体和雌激素受体 α 研究升麻和黑升麻含药血清对
成骨细胞功能的影响
赵子慧, 胡思婧, 陈高策, 叶欣园, 刘 燕, 张泉龙, 徐金龙
秦路平, 韩 婷, 张巧艳
5952 菊苣酸调控 TLR9/NF- κ B 通路改善脓毒症小鼠肠损伤研究
盛双双, 孙绍欣, 冯 帅, 李 峰, 王 欢, 李 健
5960 基于 Hippo/YAP 信号通路探究粉防己碱抗乳腺癌耐药机制
辛国松, 王毛毛, 侯妍秀, 杨 燕, 于 淦, 季宇彬
李文兰, 李海茹
5968 健脑解郁方对脑小血管病并发抑郁症大鼠海马突触可塑性的影响
戴 玲, 骆 娟, 侯光菡, 王 乐, 李 欢, 孟 盼
5980 基于 UPLC-HRMS 的大鼠体内栀子多成分序贯代谢研究
刘慧宁, 刘 磊, 于 爽, 李雪岩, 王新宇, 祁东盈
潘福璐, 柴晓钰, 王倩倩, 潘艳丽, 刘 洋
5993 黄柏不同炮制品中生物碱类成分在肾小管上皮细胞中的摄入差异考察
葛修通, 赵佳慧, 任文静, 周 悅, 张 凡



ZHONGCAOYAO

Chinese Traditional and Herbal Drugs

第 54 卷 第 18 期 (总第 749 期)

2023 年 9 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

广告发布登记号

BH 2020-01

封面图片提供

王 彤

英文责任编辑

王祎然

本期责任编辑

李亚楠

- 6001 颐和春口服液联合西医常规治疗 IIIA 型前列腺炎合并不育症的临床研究
李林锦，陈大可，李成朋，叶如宪，孔祥辉，缪飞隆
陈 武，陈合益

• 数据挖掘与循证医学 •

- 6006 关联分析和互信息熵联合探究《中国药典》胃病相关中药成方制剂用药规律
高苏雅，李 怡，姚鉴玲，周芷熠，钟祥健，马嘉慕，李仙仙
孙梦豫，齐晓丹，折改梅

- 6017 中药治疗射血分数保留心衰的核心用药及其作用机制研究
郭红鑫，王建茹，王新陆，李兴渊，朱翠玲，王永霞，朱明军

- 6029 基于 WOS 的传统医学研究进展及发展趋势研究
张 俐，普 凌，邓 禹

• 药材与资源 •

- 6040 罗汉果遗传多样性与群体结构及核心种质研究
莫长明，谢文娟，郭文锋，张燕玲，黄 江，张馨丹，李 忠
唐 其，马小军

- 6055 参与连翘苯丙烷合成途径的 WRKY 转录因子的筛选与鉴定
张佳琪，刘晓冉，陈佳茜，郭广洋，谭新杰，赵杏利，胥华伟
刘 浩，侯典云

- 6065 卵叶远志叶绿体基因组序列特征与系统发育分析
罗 瑶，胡本祥，张 啓，史嘉周，姬海月，净易尧，陈晓颖
王帮庆，颜永刚，赵 璞，李艳萍，彭 亮

- 6074 基于 AFLP 分子标记的我国不同生态栽培产区枸杞资源遗传多样性分析
张 芳，陆瑞华，傅焕哲，张文华，李 重，任 钢，陈占平
赵玉玲，郭 盛，钱大伟，段金廒

- 6084 基于指纹图谱及非挥发性成分定量结合化学模式识别法评价不同产地艾叶质量
曾维艳，陈 肖，王 洋，孙丰慧，代 敏，蒲忠慧

• 综 述 •

- 6092 桔子及其主要成分的药理及毒性作用研究进展
陈 榕，何梓炫，颜 烨，郑博瀚，黄小红，林昭妍

- 6106 天麻本草考证与现代资源利用问题探讨
沈 涛，刘鸿高，王元忠

- 6118 黄芪甲苷新型给药系统的研究进展
罗开沛，江英杰，徐梦涵，杨文博，杨 露

- 6128 中药三萜类成分防治膝骨关节炎作用机制研究进展
王诗婷，孔伟华，温乐乐，金红婷，刘巨钊，崔 琦

- 6139 中药“酒制升提”炮制理论的研究进展与探讨
杨锦妮，刘新月，张 艳

- 6150 柴胡的毒性辨析及影响因素研究进展
仇慧鑫，张淑敏，舒乐新，李遇伯

- 6159 数据融合技术在中药研究领域的应用
顾志荣，毛小文，祁 梅，郭 燕，葛 畝

- 6172 龙血竭及其主要活性成分对脑缺血的药理作用与机制研究进展
陈品秋，班玮康，王文艳，路 娟，陈 曦，杨志宏

- 6185 中药调节肠道菌群治疗心脑血管疾病的研究进展
魏乐乐，顾永哲，罗 云，谭 婷，刘 月，廖正根，杨 明

本刊投稿须知见《中草药》2023, 54(1): 346-348.

期刊基本参数: CN 12-1108 R * 1970 * sm * A4 * 240 * zh * P * ¥ 60.00 * 3000 * 35 * 2023 - 18

CHINESE TRADITIONAL AND HERBAL DRUGS

Vol. 54 No. 18 Sep. 2023

Chinese Traditional and Herbal Drugs

(Semimonthly)

Founded in January, 1970

Supervisord 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 Chang-xiao TANG Li-da

Executive Editor-in-chief

CHEN Chang-qing

Contents

• Chemical Constituents •

- 5833** A new norditerpenoid from gum resin of *Boswellia carterii*
XU Lian-lian, CHEN Zhi-chao, HE Meng-li, YANG Bao, FU Jian-jiang, CHEN Fang-you, LUO Yong-ming

- 5840** A new sesquiterpenoid from *Trichoderma virens*, a marine sponge symbiotic *Trichoderma* sp. fungus
ZHANG Lu, LIU Chen-peng, WANG Rui-qi, JIAO Wei-hua, ZHANG Xiao-po

- 5846** Chemical constituents from branches and leaves of *Cephalotaxus fortunei* var. *alpina* (I)
LI Yan-zhi, HUA Hui-ming, LI Da-hong, FU Ying-jie

- 5855** Quality markers of Mongolian medicine Nuangong Qiwei Pill based on “chemical composition-blood migration component-pharmacokinetics”
ZHANG Chen-chen, ZHANG Dong-xu, ZHANG Yu-feng, ZHANG Ai-jie, DONG Shi-qi, HAN Feng, XING Jie-hong, FAN Hui-rong, LIU Xiao-chang

• Pharmaceutics and Technology •

- 5867** Preparation of hyaluronic acid-modified geniposide transfersomes gels and its pharmacodynamic evaluation for adjuvant arthritis
YAN Hong, GAO Si-qi, LUO Hui-ting, OUYANG Wei, WANG Xu-yi, LI Shuang

- 5880** Quantitative value transfer analysis of benchmark sample of classical prescription Yiguan Decoction based on fingerprint chromatogram and four indicator components
HU Yu-ying, LI Shu-ping, ABDULA Rahima, AISA Hajiakber, WU Tao

- 5892** Differential quality marker of *Angelicae Sinensis Radix* before and after concoction based on UPLC fingerprinting and network pharmacology
QIN Liu-ying, LIANG Li-jin, HU Yi, GAN Li-fan, HUANG Sen, XU Jie, ZHANG Zhi-peng

- 5904** Extraction technology, component analysis and biological activity of *Alpiniae Officinarum Rhizoma* essential oil
XIE Xiao-li, HU Xuan, CHEN Zhen-xia, CHEN Yue, JIANG Qian, GUAN Ling-liang, YU Fu-lai

- 5916** Correlation between color and main components of *Valerianae Jatamansi Rhizoma et Radix* during frying
WANG Meng-qi, GU Yun-xia, TIAN Jing, XI Wu-xia, XIE Hui, LIU Xiao-li

- 5923** Optimization of extraction process for classical prescription Xiebai San based on Box-Behnken response surface combined with fuzzy analytic hierarchy process-entropy method and benchmark correlation degree
WANG Rui, QIU Zhi-dong, LIU Ying, DONG Jin-xiang, JIA Ai-ling, DIAO Yuan-yuan, LI Jun-ge

- 5933** Establishment of quality standard of Xiao'er Jianpi Granules
WANG Ding, WANG Jia, HU Jun-hua, ZHANG Chen-feng, WANG Zhen-zhong, LIN Xia, XIAO Wei

• Pharmacological Studies and Clinical Observations •

- 5941** Effects of *Cimicifuga foetida* and black cohosh medicated serum on osteoblasts functions based on CB2R and ER α
ZHAO Zi-hui, HU Si-jing, CHEN Gao-ce, YE Xin-yuan, LIU Yan, ZHANG Quan-long, XU Jin-long, QIN Lu-ping, HAN Ting, ZHANG Qiao-yan

- 5952** Chicoric acid improves intestinal injury in mice with sepsis by regulating TLR9/NF- κ B pathway
SHENG Shuang-shuang, SUN Shao-xin, FENG Shuai, LI Feng, WANG Huan, LI Jian

- 5960** Mechanism of tetrrandrine against drug resistance in breast cancer based on Hippo/YAP signaling pathway
XIN Guo-song, WANG Mao-mao, HOU Yan-xiu, YANG Yi, YU Miao, JI Yu-bin, LI Wen-lan, LI Hai-ru

- 5968** Effect of Jiannao Jieyu Formula on hippocampal synaptic plasticity in rats with cerebral small vessel disease related with depression
DAI Ling, LUO Yan, HOU Guang-han, WANG Le, LI Huan, MENG Pan

- 5980** Sequential metabolism of multi-components of *Gardenia jasminoides* in rats based on UPLC-HRMS

- LIU Hui-ning, LIU Lei, YU Shuang, LI Xue-yan, WANG Xin-yu, QI Dong-ying, PAN Fu-lu, CHAI Xiao-yan, WANG Qian-qian, PAN Yan-li, LIU Yang

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

Advertising Registration Number

BH 2020-01

Publication Date

Sep. 28, 2023

Editor in Charge of English

WANG Yi-ran

Editor in Charge of This Issue

LI Ya-nan

- 5993** Difference of intake of alkaloids in renal tubular epithelial cells from different kinds of processed products of *Phellodendri Chinensis Cortex*
GE Xiu-tong, ZHAO Jia-hui, REN Wen-jing, ZHOU Yue, ZHANG Fan
- 6001** Clinical study on Yihechun Oral Liquid combined with conventional western medicine in treatment of type IIIA prostatitis with infertility
LI Lin-jin, CHEN Da-ke, LI Cheng-peng, YE Ru-xian, KONG Xiang-hui, MIAO Fei-long, CHEN Wu, CHEN He-yi
- **Data Mining and Evidence-Based Medicine •**
- 6006** Exploration on prescription regularity of Chinese patent medicines against stomach diseases in *Chinese Pharmacopoeia* based on correlation analysis and mutual information entropy
GAO Su-ya, LI Yi, YAO Jian-ling, ZHOU Zhi-ji, ZHONG Xiang-jian, MA Jia-mu, LI Xian-xian, SUN Meng-yu, QI Xiao-dan, SHE Gai-mei
- 6017** Study on core medication of traditional Chinese medicine in treatment of heart failure with preserved ejection fraction and its mechanism
GUO Hong-xin, WANG Jian-ru, WANG Xin-lu, LI Xing-yuan, ZHU Cui-ling, WANG Yong-xia, ZHU Ming-jun
- 6029** Research progress and development trend study on traditional medicine based on WOS
ZHANG Li, PU Ling, DENG Yu
- **Medicinal Materials •**
- 6040** Study on genetic diversity and population structure and core collection of *Siraitia grosvenorii*
MO Chang-mining, XIE Wen-juan, GUO Wen-feng, ZHANG Yan-ling, HUANG Jiang, ZHANG Xin-dan, LI Zhong, TANG Qi, MA Xiao-jun
- 6055** Screening and identification of transcription factors WRKY involved in phenylpropane synthesis pathway in *Forsythia suspensa*
ZHANG Jia-qi, LIU Xiao-ran, CHEN Jia-xi, GUO Guang-yang, TAN Xin-jie, ZHAO Xing-li, XU Hua-wei, LIU Hao, HOU Dian-yun
- 6065** Chloroplast genome sequence characteristics and phylogenetic analysis of *Polygala sibirica*
LUO Yao, HU Ben-xiang, ZHANG Han, SHI Jia-zhou, JI Hai-yue, JING Yi-yao, CHEN Xiao-ying, WANG Bang-qing, YAN Yong-gang, ZHAO Fan, LI Yan-rong, PENG Liang
- 6074** Genetic diversity analysis of *Lycium chinense* samples from different cultivation areas based on AFLP molecular markers
ZHANG Fang, LU Rui-hua, FU Huan-zhe, ZHANG Wen-hua, LI Zhong, REN Gang, CHEN Zhan-ping, ZHAO Yu-ling, GUO Sheng, QIAN Da-wei, DUAN Jin-ao
- 6084** Quality evaluation of *Artemisiae Argyi Folium* from different areas by fingerprint and non-volatile components quantification combined with chemical pattern recognition
ZENG Wei-yan, CHEN Xiao, WANG Yang, SUN Feng-hui, DAI Min, PU Zhong-hui
- **Reviews •**
- 6092** Research progress on pharmacological and toxic effects of *Gardeniae Fructus* and its main components
CHEN Rong, HE Zi-xuan, YAN Ye, ZHENG Bo-han, HUANG Xiao-hong, LIN Zhao-yan
- 6106** Herbal textual and key problems discussion in modern resource utilization of *Gastrodiae Rhizoma*
SHEN Tao, LIU Hong-gao, WANG Yuan-zhong
- 6118** Research progress on astragaloside IV-loaded novel drug delivery systems
LUO Kai-pei, JIANG Ying-jie, XU Meng-han, YANG Wen-bo, YANG Lu
- 6128** Research progress on mechanism of triterpenoids in prevention and treatment of knee osteoarthritis
WANG Shi-ting, KONG Wei-hua, WEN Le-le, JIN Hong-ting, LIU Ju-zhao, CUI Qi
- 6139** Research progress and discussion on processing theory of “wine processing for uplifting” of traditional Chinese medicine
YANG Jin-ni, LIU Xin-yue, ZHANG Yan
- 6150** Research progress on toxicity discrimination and influencing factors of *Bupleuri Radix*
QIU Hui-xin, ZHANG Shu-min, SHU Le-xin, LI Yu-bo
- 6159** Application of data fusion in field of traditional Chinese medicine research
GU Zhi-rong, MAO Xiao-wen, QI Mei, GUO Yan, GE Bin
- 6172** Research progress of pharmacological effects and mechanism of *Resina Draconis* and its active constituents on cerebral ischemia
CHEN Pin-qiu, BAN Wei-kang, WANG Wen-yan, LU Juan, CHEN Xi, YANG Zhi-hong
- 6185** Research progress on traditional Chinese medicine on regulating intestinal flora in treatment of cardiovascular and cerebrovascular diseases
WEI Le-le, GU Yong-zhe, LUO Yun, TAN Ting, LIU Yue, LIAO Zheng-gen, YANG Ming