



ZHONGCAOYAO

Chinese Traditional and Herbal Drugs

第 53 卷 第 24 期 (总第 731 期)

2022 年 12 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.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 ·

- 7649 汉麻根化学成分研究
佟雪琦, 赵 明, 李 军, 王 金 兰, 时志春, 王 丹, 孙立秋
赵英楠, 张树军
- 7656 海南虎刺枝叶中化学成分及其抗类风湿性关节炎活性研究
蓝 创, 谢 珍, 石倪霏, 符永泉, 熊舒苙, 刘艳萍, 付艳辉
- 7664 荔枝核的化学成分及生物活性研究
任嘉佳, 杨 兴, 吴石丽, 张志毕, 李宝晶, 李艳平, 何红平
左爱学, 董发武
- 7672 三白草地上部分化学成分及抗氧化活性研究
高 秀, 柏 旭, 蔡 建, 范 亮, 王俊人, 张丽芳
刘威良, 董建伟
- 7679 HPLC 指纹图谱和 UPLC-Q-TOF-MS 方法对芪冬颐心口服液成分研究
韩美欣, 张晨阳, 佟红娜, 吴海峰, 许旭东, 于 淼, 孙桂波

· 药剂与工艺 ·

- 7686 基于 AHP-熵权法优选黑顺片炮制工艺及生物碱类成分动态变化研究
宫静雯, 李 德, 徐瑞杰, 李 昱, 薛 蓉, 屈凌芸, 毛春芹
高 波, 郭志俊, 胡 雨, 陆兔林, 张科卫
- 7696 去氢骆驼蓬碱包合物脂质体的制备及体外性质评价
周伟成, 刘宇灵, 陈颖坤, 管咏梅, 黄丽珍, 范 晖
刘丽丽, 岳鹏飞
- 7706 Angiopep-2 修饰白藜芦醇脂质体的处方优化与体外评价
于 洋, 孔 亮, 刘婉滢, 李泮芮, 李学涛
- 7714 乌梅炒炭前后化学成分与药效变化及其炒炭止血原理研究
李春帅, 辛洁萍, 王海丽, 徐文娟, 宋肖桦, 叶先文, 张海霞
李 千, 李向日
- 7721 炒制对牵牛子中酚酸类成分含量的影响
高佩云, 杨晓芸, 王丽霞, 蒋 彤, 陈迎迎, 陈晓旭, 吴 桐
岳春雨, 唐力英, 王祝举
- 7730 经典名方固阴煎基准样品 HPLC 指纹图谱研究
葛 楠, 李志能, 闫广利, 孙 晖, 张喜武, 李 丹, 王喜军
- 7740 橙皮苷磷脂复合物纳米混悬剂的制备、表征及口服药动学研究
李 茜, 张文周, 郝海军

· 药理与临床 ·

- 7751 光甘草定通过调节 ERK/IRS-1 和 PI3K/Akt 信号通路改善 HepG2 细胞的胰岛素抵抗
李德锋, 樊金玲, 杜 琳, 任国艳
- 7763 基于代谢组学技术探讨鳖血柴胡“清肝退热”作用的“物质-效应”机制
宁艳梅, 任 远, 吴国泰, 王瑞琼, 段海婧
张金保, 吴平安, 窦翰辰, 王 蕊
- 7774 基于 NELL2 Lumicrine 信号通路探索引阳索胶囊对肾虚型精子损伤的保护作用及机制
徐盼瑜, 李佳珊, 杜寒倩, 李泽辉, 李 源, 林 娜, 徐 颖
- 7783 基于网络药理学、分子对接与实验验证揭示薯蓣皂苷元治疗动脉粥样硬化的作用机制
王 丹, 王肖龙
- 7795 基于“入血成分-复方功效-靶点通路”的四妙勇安汤潜在质量标志物研究
周靖惟, 张 星, 李 莎, 朱 芮, 吴秋红, 黄 友, 杨莎莎
林 夏, 郝怡雯, 傅超美, 张 臻
- 7808 生白术多糖对洛哌丁胺诱导大鼠便秘的改善作用研究
贾梦鑫, 于 猛, 秦玲玲, 贾红梅, 邹忠梅



ZHONGCAOYAO

Chinese Traditional and Herbal Drugs

第 53 卷 第 24 期 (总第 731 期)

2022 年 12 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 50.00 元 全年 1200.00 元

广告发布登记号

BH 2020-01

封面图片提供

李 信

英文责任编辑

王祎然

本期责任编辑

崔艳丽

• 数据挖掘与循证医学 •

- 7816 基于多中心真实世界数据研究痛风中医证型与中药应用规律
姜 平, 杜星辰, 章渊源, 姜 婷, 汪荣盛, 朱 琦, 关凤媛
鲁 盈, 苏 晓, 姜洪泽, 李鸿斌, 方勇飞, 赵恒立, 彭江云
高明利, 苏 励, 何 方, 陶庆文, 胡春蓉, 李 鹏, 李泽光
朱跃兰, 古 英, 姜 泉, 张 明, 张剑勇, 薛 愉, 何东仪
- 7831 逍遥散加减方治疗慢性乙型肝炎临床疗效及安全性 Meta 分析
余璐妮, 王梓怡, 字晨霞, 梅志刚
- 7843 枸杞多糖类物质研究现状及发展动态的文献计量学分析
魏 燕, 童丽梅, 王熙玮, 郭 盛, 钱大玮, 段金殿, 张 芳
- 7855 前胡产地与市场调研及研究热点与趋势可视化分析
刘天亮, 江维克, 舒国平, 康传志, 杨昌贵, 周 涛

• 药材与资源 •

- 7864 侵染三七的三七 Y 病毒和中国番茄黄化曲叶病毒 PCR 同步检测技术
柳勤海, 杨 馨, 李晓静, 兰平秀, 李 凡, 谭冠林
- 7871 应用种子形态及 DNA 条形码技术鉴定黄芩及混伪品种子
李 军, 张召雷, 王晓敏, 刘立轩, 冷晓红
- 7880 基于 RP-HPLC-DAD 指纹图谱结合化学计量学评价不同品种木豆叶
质量及主要成分含量测定
符丽娜, 王立涛, 王建栋, 王燕秋, 蔡子辉, 闫鑫宇, 赵棚权
张 谏, 付玉杰
- 7887 基于 HPLC 指纹图谱结合化学模式识别及多成分定量的蒲公英质量
评价研究
孟 然, 吴 哲, 冯 薇, 吴晨曦, 王秀萍, 李赵嘉
- 7897 基于 UPLC-Q-Exactive Orbitrap-MS 指纹图谱和多成分定量的不同
产地辣木叶药材及其黄酮部位质量研究
袁 静, 袁永兵, 周 铭, 刘 越, 黄 雅, 王保锦, 常子豪
刘宇琦, 胡 倩, 陈尹心, 周立鹏, 雒晓卫, 王树楷
刘乡乡, 张兰珍
- 7905 麦冬类药材及其混淆品的性状及显微鉴别研究
蒙 倩, 张 航, Chayanis Sutcharitchan, 杨纯国, 吴婉莹
李泳锋, 崔亚君

• 综 述 •

- 7915 中药及其单体对骨髓间充质干细胞诱导分化的研究进展
杨 斌, 王 楠, 谭 睿, 王 琴, 顾 健
- 7925 蘑菇毒素毒性作用机制的研究进展
楚建芝, 崔 琪, 杨树德, 伍国超, 程显好, 图力古尔, 张 蕊
- 7933 姜黄素抗结肠癌作用机制的研究进展
刘 婷, 高飞云, 张转红, 王彦钧, 张育贵, 孙宇靖, 李越峰
- 7941 松针化学成分、药理作用及其临床应用研究进展
陈子聿, 乔小涵, 陈金鹏, 盖晓红, 刘 毅, 任 涛, 田成旺
- 7955 青藏高原东缘麝类资源保护及生态型发展战略的探讨 刘丛盛
- 7960 芍药甘草汤化学成分、药理作用、临床应用的研究进展及其质量标
志物 (Q-Marker) 的预测分析
肖焱焱, 朱 菁, 刘心雨, 金骏辉, 李雨欢, 葛宗瑞
马继浩, 张彩云
- 7970 肾茶及其活性提取物治疗肾脏相关疾病现代研究进展
洪 霖, 邹小燕, 张禧燕, 张会永, 胡文忠, 吴 威

• 药事管理 •

- 7980 双碳背景下中药制药企业碳足迹产生环节与核算模型
慈志敏, 余 强, 马鸿雁, 郑 川, 尚 强, 李 东, 杨 明
韩 丽, 张定堃

本刊投稿须知见《中草药》2022, 53(1): 326-328.

期刊基本参数: CN 12-1108 R * 1970 * sm * A4 * 240 * zh * P * ¥ 50.00 * 3000 * 36 * 2022 - 24

CHINESE TRADITIONAL AND HERBAL DRUGS

Vol. 53 No. 24 Dec. 2022

Chinese Traditional and Herbal Drugs

(Semimonthly)

Founded in January, 1970

Directed 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 ·

- 7649 Chemical constituents from root of *Cannabis sativa*
TONG Xue-qi, ZHAO Ming, LI Jun, WANG Jin-lan, SHI Zhi-chun, WANG Dan, SUN Li-qiu, ZHAO Ying-nan, ZHANG Shu-jun
- 7656 Study on chemical constituents from stems and leaves of *Damnacanthus hainanensis* and their anti-rheumatoid arthritis activities
LAN Chuang, XIE Zhen, SHI Ni-fei, FU Yong-quan, XIONG Shu-hong, LIU Yan-ping, FU Yan-hui
- 7664 Studies on chemical constituents and biological activities from seeds of *Litchi chinensis*
REN Jia-jia, YANG Xing, WU Shi-li, ZHANG Zhi-bi, LI Bao-jing, LI Yan-ping, HE Hong-ping, ZUO Ai-xue, DONG Fa-wu
- 7672 Anti-oxidant chemical constituents from aerial parts of *Saururus chinensis*
GAO Xiu, BO Xu, CAI Jian, FAN Liang, WANG Jun-ren, ZHANG Li-fang, LIU Wei-liang, DONG Jian-wei
- 7679 Qualitative analysis of ingredients in Qidong Yixin Oral Liquid based on HPLC fingerprint and UPLC-Q-TOF-MS method
HAN Mei-xin, ZHANG Chen-yang, TONG Hong-na, WU Hai-feng, XU Xu-dong, YU Miao, SUN Gui-bo

· Pharmaceutics and Technology ·

- 7686 Optimization of processing technology of Heishunpian based on AHP-entropy weight method and study on dynamic changes of alkaloids
GONG Jing-wen, JI De, XU Rui-jie, LI Yu, XUE Rong, QU Ling-yun, MAO Chun-qin, GAO Bo, GUO Zhi-jun, HU Yu, LU Tu-lin, ZHANG Ke-wei
- 7696 Preparation and *in vitro* properties evaluation of harmine drug-in-cyclodextrin-liposome
ZHOU Wei-cheng, LIU Yu-ling, CHEN Ying-chong, GUAN Yong-mei, HUANG Li-zhen, FAN Hui, LIU Li-li, YUE Peng-fei
- 7706 Preparation optimization and *in vitro* evaluation of Angiopep-2 modified resveratrol liposomes
YU Yang, KONG Liang, LIU Wan-ying, LI Feng-rui, LI Xue-tao
- 7714 Changes in chemical composition and medicinal effect of *Mume Fructus* before and after charcoal frying and its principle of hemostasis
LI Chun-shuai, XIN Jie-ping, WANG Hai-li, XU Wen-juan, SONG Xiao-hua, YE Xian-wen, ZHANG Hai-xia, LI Qian, LI Xiang-ri
- 7721 Effects of stir-frying on content of phenolic acids in *Pharbitidis Semen*
GAO Pei-yun, YANG Xiao-yun, WANG Li-xia, JIANG Tong, CHEN Ying-ying, CHEN Xiao-xu, WU Tong, YUE Chun-yu, TANG Li-ying, WANG Zhu-ju
- 7730 HPLC fingerprinting study of classical formula Guyin Decoction
GE Nan, LI Zhi-neng, YAN Guang-li, SUN Hui, ZHANG Xi-wu, LI Dan, WANG Xi-jun
- 7740 Preparation, characterization and *in vivo* oral pharmacokinetics of hesperidin phospholipids complex nanosuspensions
LI Xi, ZHANG Wen-zhou, HAO Hai-jun

· Pharmacological Studies and Clinical Observations ·

- 7751 Glabridin ameliorates insulin resistance by regulating ERK/IRS-1 and PI3K/Akt signaling pathways in HepG2 cells
LI De-feng, FAN Jin-ling, DU Lin, REN Guo-yan
- 7763 "Substance-effect" mechanism of *Bupleuri Radix* processed with *Trionyx's* blood on "liver-clearing and fever-relieving" based on metabolomics
NING Yan-mei, REN Yuan, WU Guo-tai, WANG Rui-qiong, DUAN Hai-jing, ZHANG Jin-bao, WU Ping-an, DOU Han-chen, WANG Rui
- 7774 Protective effect and mechanism of Yinyangsu Capsules on sperm damage of kidney-*yang* deficiency model based on NELL2 Lumicrine signaling pathway
XU Pan-yu, LI Jia-shan, DU Han-qian, LI Ze-hui, LI Yuan, LIN Na, XU Ying
- 7783 Mechanism of diosgenin in treatment of atherosclerosis based on network pharmacology, molecular docking and experimental validation
WANG Dan, WANG Xiao-long
- 7795 Potential Q-Markers of Simiao Yong'an Decoction based on "component absorbed into blood-efficacy of compound prescription-target pathway"
ZHOU Jing-wei, ZHANG Xing, LI Sha, ZHU Rui, WU Qiu-hong, HUANG You, YANG Sha-sha, LIN Xia, HAO Yi-wen, FU Chao-mei, ZHANG Zhen
- 7808 Ameliorative effect of polysaccharides from raw *Atractylodes macrocephala* on constipation induced by loperamide in rats
JIA Meng-xin, YU Meng, QIN Ling-ling, JIA Hong-mei, ZOU Zhong-mei

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

Dec. 28, 2022

Editor in Charge of English

WANG Yi-ran

Editor in Charge of This Issue

CUI Yan-li

· Data Mining and Evidence-Based Medicine ·

- 7816** TCM syndrome types and application rules of gout based on multicenter real-world data
JIANG Ping, DU Xing-chen, ZHANG Yuan-yuan, JIANG Ting, WANG Rong-sheng, ZHU Qi, GUAN Feng-yuan, LU Ying, SU Xiao, JIANG Hong-ze, LI Hong-bin, FANG Yong-fei, ZHAO Heng-li, PENG Jiang-yun, GAO Ming-li, SU Li, HE Fang, TAO Qing-wen, HU Chun-rong, LI Peng, LI Ze-guang, ZHU Yue-lan, GU Ying, JIANG Quan, ZHANG Ming, ZHANG Jian-yong, XUE Yu, HE Dong-yi
- 7831** Efficacy and safety of modified Xiaoyao Powder against chronic hepatitis B: A Meta-analysis
YU Lu-ni, WANG Zi-yi, ZI Chen-xia, MEI Zhi-gang
- 7843** Bibliometric analysis of research status and development of polysaccharides in *Lycii Fructus*
WEI Yan, TONG Li-mei, WANG Xi-wei, GUO Sheng, QIAN Da-wei, DUAN Jin-ao, ZHANG Fang
- 7855** Visual analysis of research hotspots and trends and research on origin and market of *Peucedani Radix*
LIU Tian-liang, JIANG Wei-ke, SHU Guo-ping, KANG Chuan-zhi, YANG Chang-gui, ZHOU Tao

· Medicinal Materials ·

- 7864** Simultaneous detection technology of PnVY and TYLCCNV in *Panax notoginseng* by PCR
LIU Qin-hai, YANG Xin, LI Xiao-jing, LAN Ping-xiu, LI Fan, TAN Guan-lin
- 7871** Identification of *Astragalus membranaceus* seeds and its adulterants by morphology and DNA barcoding technique
LI Jun, ZHANG Zhao-lei, WANG Xiao-min, LIU Li-xuan, LENG Xiao-hong
- 7880** Quality evaluation of different *Cajanus cajan* leaves based on RP-HPLC-DAD fingerprint combined with chemometrics and determination of main components
FU Li-na, WANG Li-tao, WANG Jian-dong, WANG Yan-qiu, CAI Zi-hui, YAN Xin-yu, ZHAO Peng-quan, ZHANG Su, FU Yu-jie
- 7887** Quality evaluation of dandelion based on HPLC fingerprint combined with chemical pattern recognition and multi-component determination
MENG Ran, WU Zhe, FENG Wei, WU Chen-xi, WANG Xiu-ping, LI Zhao-jia
- 7897** Quality evaluation of *Moringa oleifera* leaves and its flavonoid fractions based on UPLC-Q-Exactive Orbitrap-MS fingerprint and multi-component quantitative analysis
YUAN Jing, YUAN Yong-bing, ZHOU Ming, LIU Yue, HUANG Ya, WANG Bao-jin, CHANG Zi-hao, LIU Yu-qi, HU Qian, CHEN Yin-xin, ZHOU Li-peng, LUO Xiao-wei, WANG Shu-kai, LIU Xiang-xiang, ZHANG Lan-zhen
- 7905** Characterization and microscopic identification of *Ophiopogonis Radix* and its adulterants
MENG Qian, ZHANG Hang, Chayanis Sutcharitchan, YANG Chun-guo, WU Wan-ying, LI Yong-feng, CUI Ya-jun

· Reviews ·

- 7915** Research progress on induction and differentiation of bone marrow mesenchymal stem cells by traditional Chinese medicine and its monomers
YANG Bin, WANG Nan, TAN Rui, WANG Qin, GU Jian
- 7925** Research progress on toxicity mechanism of mushroom toxins
CHU Jian-zhi, CUI Qi, YANG Shu-de, WU Guo-chao, CHENG Xian-hao, TOLGOR Bau, ZHANG Rui
- 7933** Research progress on mechanism of curcumin against colon cancer
LIU Ting, GAO Fei-yun, ZHANG Zhuan-hong, WANG Yan-jun, ZHANG Yu-gui, SUN Yu-jing, LI Yue-feng
- 7941** Research progress on chemical constituents, pharmacological effects and clinical application of pine needles
CHEN Zi-yu, QIAO Xiao-han, CHEN Jin-peng, GAI Xiao-hong, LIU Yi, REN Tao, TIAN Cheng-wang
- 7955** Discussion on musk deer resources conservation and ecological development strategy in the east edge of Qinghai-Tibetan Plateau
LIU Cong-sheng
- 7960** Research progress on chemical constituents, pharmacological effects and clinical applications of Shaoyao Gancao Decoction and predictive analysis of its Q-Marker
XIAO Yao-yao, ZHU Jing, LIU Xin-yu, JIN Jun-hui, LI Yu-huan, GE Zong-rui, MA Ji-hao, ZHANG Cai-yun
- 7970** Modern research progress of *Clerodendranthus spicatus* and its active extracts in treatment of kidney related diseases
HONG Lin, ZOU Xiao-yan, ZHANG Xi-yan, ZHANG Hui-yong, HU Wen-zhong, WU Wei

· Pharmaceutical Affairs Management ·

- 7980** Carbon footprint generation link and accounting models of traditional Chinese medicine manufacturing companies in the context of double carbon
CI Zhi-min, YU Qiang, MA Hong-yan, ZHENG Chuan, SHANG Qiang, LI Dong, YANG Ming, HAN Li, ZHANG Ding-kun