



ZHONGCAOYAO

Chinese Traditional and Herbal Drugs

第 53 卷 第 3 期 (总第 710 期)

2022 年 2 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.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 ·

- 653 木荚红豆叶中 1 个新的木脂素  
王 钦, 陈 啸, 阮诗琪, 颜武华, 倪 林, 邹双全, 邹小兴
- 659 药用沙棘果汁中 1 个新的黄酮苷类化合物  
娜黑芽, 张晓玲, 陈怡璇, 李鹏帅, 梁国栋, 华会明
- 667 台湾拟金发藓二苯甲酮类化学成分及其细胞毒活性研究  
刘丽娜, 张学文, 侯芳洁, 段绪红, 赵建成, 陈玉玲
- 671 山楝果实的化学成分研究  
吴石丽, 张 凡, 任嘉佳, 欧阳静蓉, 尹芃程, 李艳平, 李宝晶  
董发武, 何红平
- 678 复方蜥蜴散大鼠血浆、尿液、胆汁、粪便中代谢产物的鉴定  
黄楷迪, 朱西杰, 牛 阳, 张 婷, 卜凡淑, 张祎盈, 赵秋龙  
钱大玮, 郭 盛, 段金威

### · 药剂与工艺 ·

- 687 转铁蛋白修饰雷公藤甲素脂质体的制备与体外评价  
杨一帆, 梁艺瑶, 刘保保, 苏雪蓉, 乔 萍, 狄留庆, 赵晓莉
- 696 基于苦味阈值浓度的药物分子苦度定量方法研究  
高晓洁, 白明学, 桂新景, 王艳丽, 王君明, 姚 静, 张 璐  
施钧瀚, 李学林, 刘瑞新
- 704 丹膝颗粒组成药味 UPLC 指纹图谱的 1 次稳态投料量研究  
王敏存, 贺琪璐, 周燕子, 陈定芳, 杨学斌, 李 萍, 李海英  
黄 胜, 邓凯文, 潘 雪, 贺福元
- 712 基于物理指纹图谱的养胃颗粒浸膏质量一致性评价方法  
滕凯旋, 傅 豪, 王中昌, 沈逸群, 谢欣媛, 赵 洁, 瞿海斌
- 720 雷公藤甲素二元醇质体凝胶的皮肤药动学研究  
管咏梅, 王舒慧, 胡育森, 杜 清, 陈丽华, 关志宇, 臧振中  
朱卫丰, 吴文婷
- 726 基于基准关联度和 AHP-熵权法综合评价经典名方小续命汤古今提取工艺  
代 珊, 李 帅, 张爱军, 毛九州, 朱红梅

### · 药理与临床 ·

- 735 L02 肝脂肪变性细胞膜快速筛选大黄调血脂活性成分  
武晓玉, 段文达, 夏鹏飞, 王玉霞, 边惠琴, 赵 磊
- 743 Gomisin M1 协同氟康唑对耐药白念珠菌毒力因子的作用研究  
王应仙, 李 俊, 秦定梅, 张路梅, 王梦如, 袁 恺, 廖一川  
李家生, 肖伟烈, 王睿睿
- 751 益肾化湿颗粒对 IgA 肾病大鼠 PPAR $\gamma$ /NF- $\kappa$ B 信号通路的影响  
姜 晨, 忽星歌, 姜 琳, 徐荣佳, 张佳佳, 徐颖慧, 郭雨昕  
白 雪, 黄诗琦
- 758 基于 Wnt 信号通路研究表没食子酸儿茶素没食子酸酯对肝星状细胞活化的作用及机制  
石明亮, 王晓磊, 李江琳, 段文飞
- 767 有柄石韦中坝巴酸的通淋作用研究  
隋 怡, 滕明刚, 柴慧芳, 於 祥, 龙 毅, 罗国勇, 杨武德



ZHONGCAOYAO

Chinese Traditional and Herbal Drugs

第 53 卷 第 3 期 (总第 710 期)

2022 年 2 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 50.00 元 全年 1200.00 元

#### 广告发布登记号

BH 2020-01

#### 封面图片提供

邓新华

#### 英文责任编辑

齐静雯

#### 本期责任编辑

王文倩

773 基于网络药理学的小陷胸汤治疗大肠癌的机制研究

高世勇, 李婉秋, 王 帅, 石 佳, 谭慧心

783 天蟾胶囊外周和中枢镇痛效应差异实验研究

傅 斌, 范 妹, 万 军

#### • 数据挖掘与循证医学 •

788 基于生物信息学分析肝癌差异基因及潜在的中药干预

张道平, 刘起立, 姚昆鹏, 李峥嵘, 陈沛儒, 彭建平

799 基于数据挖掘的中医药治疗消化性溃疡用药特点研究

薛 宁, 郭桓博, 马瑞雪, 苗明三, 朱平生

806 紫龙金片联合铂类治疗肺癌的有效性和安全性的 Meta 分析

董玉梅, 郭丽云, 祁月潇, 宋海侠, 蔡雅琴, 魏世鸿

#### • 药材与资源 •

818 小檗属植物叶绿体基因组序列结构及系统发育分析

李述成, 郭生虎, 贝益临

827 宁夏枸杞花药转录组分析及花药发育相关基因的筛选

范文强, 刘雪霞, 马小兰, 王路瑶, 张 兴, 岳思君, 唐建宁

朱金忠, 姚新灵, 郑 蕊

835 基于高通量测序研究甘松根际细菌及药用部位内生细菌群落结构及多样性

李 莹, 钟海蓉, 李奕松, 威则日沙, 李文兵, 刘 圆

848 花叶开唇兰与台湾银线兰的 SSR 标记技术鉴别

王海阁, 许 文, 张 勋, 许少华, 徐 伟, 林 羽

陈抒云, 黄泽豪

853 不同来源竹茹药材 HPLC 指纹图谱和化学计量学分析

周冰倩, 高喜梅, 杨 颖, 王令充, 张 雯, 赵晓莉, 狄留庆

858 不同储藏条件对党参片质量的影响

韩喜桃, 唐雅楠, 刘子琴, 包丽媛, 韩 舒, 刘凯洋, 王宏月

郭晓光, 李卫飞, 杜 红, 胡芳弟

#### • 综 述 •

868 中药防治酒精性肝病作用机制的研究进展

孟文文, 刘慧茹, 张文光, 马智慧, 邓志鹏, 赵东升, 赵 盼, 李 伟

882 基于“生熟异用”何首乌的研究进展及其质量标志物 (Q-Marker) 的预测分析

王 卓, 钟凌云, 解 杨, 宋金菊, 李家晴, 钟 菁

898 青风藤化学成分和药理作用的研究进展及其质量标志物 (Q-Marker) 的预测分析

罗艳群, 沈小兰, 蔡三金, 梅志刚, 冯知涛

912 黑人参的炮制方法、化学成分和药理作用的研究进展

韩红亮, 周修腾, Thomas Avery Garran, 陈春宇, 胡秀玲

纪瑞锋, 何 新

921 炭药纳米类成分的药理作用研究进展

赵玉升, 屈会化, 赵 琰

930 冷冻干燥技术在中药领域的研究进展

刘松雨, 黄勤挽, 吴纯洁, 龙 宇, 万金艳, 张羽璐, 李 丹, 石 爱

于 双, 李 楠

937 灵芝多糖在糖尿病及其并发症防治中的研究进展

陈嘉骏, 王 颖, 桑婷婷, 陈超杰, 王兴亚

948 前胡与紫花前胡的化学成分和药理作用研究进展

宋芷琪, 李 斌, 田琨宇, 洪 霖, 吴 威, 张会永

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 \* 35 \* 2022 - 03

# CHINESE TRADITIONAL AND HERBAL DRUGS

Vol. 53 No. 3 Feb. 2022

## 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 Chang-xiao TANG Li-da

## Executive Editor-in-chief

CHEN Chang-qing

## Contents

### · Chemical Constituents ·

- 653 A new lignan from leaves of *Ormosia xylocarpa*  
WANG Qin, CHEN Xiao, RUAN Shi-qi, YAN Wu-hua, NI Lin, ZOU Shuang-quan, ZOU Xiao-xing
- 659 A new flavonoid glycoside isolated from medicinal *Hippophae rhamnoides* juice  
NA Hei-ya, ZHANG Xiao-ling, CHEN Yi-xuan, LI Peng-shuai, LIANG Guo-dong, HUA Hui-ming
- 667 Benzophenones from endohydric moss *Polytrichastrum formosum* and their cytotoxic activities  
LIU Li-na, ZHANG Xue-wen, HOU Fang-jie, DUAN Xu-hong, ZHAO Jian-cheng, CHEN Yu-ling
- 671 Chemical constituents from fruits of *Aphanamixis polystachya*  
WU Shi-li, ZHANG Fan, REN Jia-jia, OUYANG Jing-rong, YIN Peng-cheng, LI Yan-ping, LI Bao-jing, DONG Fa-wu, HE Hong-ping
- 678 Identification of metabolites of Compound Xiyi Powder in rat plasma, bile, urine and feces after intravenous administration  
HUANG Kai-di, ZHU Xi-jie, NIU Yang, ZHANG Ting, BU Fan-shu, ZHANG Yi-ying, ZHAO Qiu-long, QIAN Da-wei, GUO Sheng, DUAN Jin-ao

### · Pharmaceuticals and Technology ·

- 687 Preparation of transferrin modified triptolide liposome and *in vitro* evaluation  
YANG Yi-fan, LIANG Yi-yao, LIU Bao-bao, SU Xue-rong, QIAO ping, DI Liu-qing, ZHAO Xiao-li
- 696 Study on quantitative method of drug's molecular bitterness based on bitterness threshold concentration  
GAO Xiao-jie, BAI Ming-xue, GUI Xin-jing, WANG Yan-li, WANG Jun-ming, YAO Jing, ZHANG Lu, SHI Jun-han, LI Xue-lin, LIU Rui-xin
- 704 Study on one-time steady-state feeding quantity of UPLC fingerprint of composition of function ingredients of Danxi Granules  
WANG Min-cun, HE Qi-jun, ZHOU Yan-zi, CHEN Ding-fang, YANG Xue-bin, LI Ping, LI Hai-ying, HUANG Sheng, DENG Kai-wen, PAN Xue, HE Fu-yuan
- 712 Quality consistency evaluation method for Yangwei Granule extracts based on physical fingerprint  
TENG Kai-xuan, FU Hao, WANG Zhong-chang, SHEN Yi-qun, XIE Xin-yuan, ZHAO Jie, QU Hai-bin
- 720 Pharmacokinetic study of triptolide diethosome gel in skin  
GUAN Yong-mei, WANG Shu-hui, HU Yu-sen, DU Qing, CHEN Li-hua, GUAN Zhi-yu, ZANG Zhen-zhong, ZHU Wei-feng, WU Wen-ting
- 726 Comprehensive evaluation of ancient and modern extraction process of classic prescription Xiaoxuming Decoction based on standard relation and analytic hierarchy process combined with entropy method  
DAI Shan, LI Shuai, ZHANG Ai-jun, MAO Jiu-zhou, ZHU Hong-mei

### · Pharmacological Studies and Clinical Observations ·

- 735 Rapid screening of active components from *Rhei Radix* et *Rhizoma* for hypolipidemia by L02 hepatic steatosis cell membrane  
WU Xiao-yu, DUAN Wen-da, XIA Peng-fei, WANG Yu-xia, BIAN Hui-qin, ZHAO Lei
- 743 Effect of gomisin M1 combined with fluconazole on virulence factors of drug-resistant *Candida albicans*  
WANG Ying-xian, LI Jun, QIN Ding-mei, ZHANG Lu-mei, WANG Meng-ru, YUAN Kai, LIAO Yi-chuan, LI Jia-sheng, XIAO Wei-lie, WANG Rui-rui
- 751 Effect of Yishen Huashi Granules on regulation of PPAR $\gamma$ /NF- $\kappa$ B signaling pathway in IgA nephropathy rats  
JIANG Chen, HU Xing-ge, JIANG Lin, XU Rong-jia, ZHANG Jia-jia, XU Ying-hui, GUO Yu-xin, BAI Xue, HUANG Shi-qi
- 758 Effect and mechanism of epigallocatechin gallate on activation of hepatic stellate cells based on Wnt signaling pathway  
SHI Ming-liang, WANG Xiao-lei, LI Jiang-lin, DUAN Wen-fei
- 767 Leaching effect of babaric acid in *Pyrrosia petiolosa*  
SUI Yi, TENG Ming-gang, CHAI Hui-fang, YU Xiang, LONG Yi, LUO Guo-yong, YANG Wu-de

## 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

Feb. 12, 2022

## Editor in Charge of English

QI Jing-wen

## Editor in Charge of This Issue

WANG Wen-qian

- 773 Mechanism of Xiaoxianxiong Decoction on treating colorectal cancer based on network pharmacology  
GAO Shi-yong, LI Wan-qiu, WANG Shuai, SHI Jia, TAN Hui-xin
- 783 Experimental study on difference between peripheral and central analgesic effects of Tianchan Capsule  
FU Bin, FAN Shu, WAN Jun
- Data Mining and Evidence-Based Medicine •
- 788 Analysis of differentially expressed genes of liver cancer and potential intervention of traditional Chinese medicine based on bioinformatics  
ZHANG Dao-ping, LIU Qi-li, YAO Kun-peng, LI Zheng-rong, CHEN Pei-ru, PENG Jian-ping
- 799 Study on characteristics of traditional Chinese medicine in treatment of peptic ulcer based on data mining  
XUE Ning, GUO Huan-bo, MA Rui-xue, MIAO Ming-san, ZHU Ping-sheng
- 806 Efficiency and safety of Zilongjin Tablet combined with platinum-based chemotherapy in treatment of lung cancer: A Meta-analysis  
DONG Yu-mei, GUO Li-yun, QI Yue-xiao, SONG Hai-xia, CAI Ya-qin, WEI Shi-hong
- Medicinal Materials •
- 818 Chloroplast genome sequences and phylogenetic analysis of *Berberis* genus  
LI Shu-cheng, GUO Sheng-hu, BEI Zhan-lin
- 827 Anther transcriptome and screening of genes related to anther development in *Lycium barbarum*  
FAN Wen-qiang, LIU Xue-xia, MA Xiao-lan, WANG Lu-yao, ZHANG Xing, YUE Si-jun, TANG Jian-ning, ZHU Jin-zhong, YAO Xin-ling, ZHENG Rui
- 835 Community structure and diversity analysis of rhizosphere bacterial of *Nardostachys jatamansi* and endophytic bacteria in medicinal parts based on high-throughput sequencing technology  
LI Ying, ZHONG Hai-rong, LI Yi-song, WEIZE Ri-sha, LI Wen-bing, LIU Yuan
- 848 Identification of *Anoectochilus roxburghii* and *A. formosanus* by SSR molecular markers  
WANG Hai-ge, XU Wen, ZHANG Xun, XU Shao-hua, XU Wei, LIN Yu, CHEN Shu-yun, HUANG Ze-hao
- 853 Quality analysis of *Caulis Bambusae In Taeniam* from different origins by HPLC coupled with chemometrics  
ZHOU Bing-qian, GAO Xi-mei, YANG Ying, WANG Ling-chong, ZHANG Wen, ZHAO Xiao-li, DI Liu-qing
- 858 Influence of different storage conditions on quality of *Codonopsis Radix* pieces  
HAN Xi-tao, TANG Ya-nan, LIU Zi-qin, BAO Li-yuan, HAN Shu, LIU Kai-yang, WANG Hong-yue, GUO Xiao-guang, LI Wei-fei, DU Hong, HU Fang-di
- Reviews •
- 868 Research progress on mechanism of traditional Chinese medicine in preventing and treating alcoholic liver disease  
MENG Wen-wen, LIU Hui-ru, ZHANG Wen-guang, MA Zhi-hui, DENG Zhi-peng, ZHAO Dong-sheng, ZHAO Pan, LI Wei
- 882 Research progress on *Polygoni Multiflori Radix* based on “raw and cooked with different uses” and prediction analysis on quality marker (Q-Marker)  
WANG Zhuo, ZHONG Ling-yun, XIE Yang, SONG Jin-ju, LI Jia-qing, ZHONG Jing
- 898 Research progress on chemical constituents and pharmacological effects of *Sinomenii Caulis* and predictive analysis on quality marker (Q-Marker)  
LUO Yan-qun, SHEN Xiao-lan, CAI San-jin, MEI Zhi-gang, FENG Zhi-tao
- 912 Research progress on processing methods, chemical constituents and pharmacological action of black ginseng  
HAN Hong-liang, ZHOU Xiu-teng, Thomas Avery Garran, CHEN Chun-yu, HU Xiu-ling, JI Rui-feng, HE Xin
- 921 Research progress on pharmacological effects of nano-components of charcoal drugs  
ZHAO Yu-sheng, QU Hui-hua, ZHAO Yan
- 930 Research progress on freeze-drying technology in field of traditional Chinese medicine  
LIU Song-yu, HUANG Qin-wan, WU Chun-jie, LONG Yu, WAN Jin-yan, ZHANG Yu-lu, LI Dan, SHI Ai, YU Shuang, LI Nan
- 937 Research progress on *Ganoderma* polysaccharide in prevention and treatment of diabetes and its complications  
CHEN Jia-jun, WANG Ying, SANG Ting-ting, CHEN Chao-jie, WANG Xing-ya
- 948 Research progress on chemical constituents and pharmacological activities of *Peucedani Radix* and *Peucedani Decursivi Radix*  
SONG Zhi-qi, LI Bin, TIAN Kun-yu, HONG Lin, WU Wei, ZHANG Hui-yong