



ZHONGCAOYAO

Chinese Traditional and Herbal Drugs

第 53 卷 第 19 期 (总第 726 期)

2022 年 10 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.tjipr.com](http://www.tjipr.com))

中国药学会 ([www.cpa.org.cn](http://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](http://www.中草药杂志社.中国)

[www.tiprpress.com](http://www.tiprpress.com)

E-mail：[zcy@tiprpress.com](mailto: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 •

- 5945 三七花中 1 个新的丙二酸酰化型人参皂苷  
杨晓楠, 王洪达, 李威威, 孙梦晓, 李 雪, 杨文志  
5955 芦根中 2 个新的苯丙素苷类化合物  
赵伟伊, 苏艳芳, 秦 涛, 常艳旭, 高秀梅  
5959 五味子根的化学成分研究  
刘 艳, 刘 爽, 彭紫琪, 王思艺, 姜铁铠, 潘 娟, 管 伟  
郝智超, 匡海学, 杨炳友  
5972 基于高分辨质谱数据库的黄连炮制前后生物碱变化规律  
龙成燕, 杨 烨, 黄思行, 张 莉, 阳 勇, 郭延垒

### • 药剂与工艺 •

- 5980 基于 Box-Behnken 设计-效应面法优化姜黄素-乳铁蛋白纳米粒制备  
工艺和体外评价研究  
李岭慧, 廖 婉, 张 倩, 余方坤, 谭立伟, 李章才, 胡琼丹  
张心洁, 廖洋样, 侯曙光, 李 锐  
5991 急支糖浆多糖的成分分析及质量评价  
刘 峰, 丁浩然, 王梦月, 李晓波  
6001 左金丸组分中药配伍组分制备工艺研究  
刘斯琪, 王如峰  
6012 中药醇沉前浓缩液质控指标的完善及标准建立——以党参醇沉为例  
潘晶晶, 任丹丹, 瞿海斌, 龚行楚  
6023 基于 UPLC-Q-TOF-MS 指纹图谱和分子对接技术筛选藿香正气水抗  
新冠病毒潜在质量标志物  
张雅莉, 韩建勋, 图尔荪托合提·托合提萨伊普, 孙兆增  
宋 薇, 张玉松, 魏海燕, 肖进进  
6035 黄芪提取及提取液陶瓷膜超滤纯化工艺研究  
冉 鑫, 万玲娟, 李金田, 刘晓霞, 何红杰, 魏舒畅  
6044 基于 HPLC-QAMS 及化学计量学的利胆石颗粒质量评价研究  
刘艳芬, 段 芳, 张 翘, 郭 丹

### • 药理与临床 •

- 6054 基于体外人源胃肠道代谢评价乌梅粉和水煎剂对克罗恩大鼠的治疗  
作用  
刘治华, 彭 颖, 孙崇智, 李晓波  
6068 基于肠道菌群和系统药理学探讨藏药十五味乳鹏丸抗高尿酸血症  
肾病的作用机制  
谢昊宸, 张博恒, 穆卡然·艾买江, 李 娜, 何彭可, 严亨秀  
邵晓妮  
6083 基于 NF-κB/STAT 信号通路探究朱砂根治疗大鼠急性咽炎的作用机制  
权 伟, 刘 畅, 周 英, 何倩倩, 石 洋, 党兆岩, 刘雄利  
6093 基于 JAK1/STAT3 信号通路研究高车前素对肝纤维化小鼠的影响  
徐 冲, 秦小东, 任 丽, 罗先钦  
6101 基于 TLR4/NF-κB 信号通路研究清开灵口服液防治肺炎的作用机制  
陈红英, 李 新, 许 浚, 张铁军, 李 卿, 欧阳冬生, 徐 旭  
6108 双清平化方对代谢综合征大鼠骨骼肌自噬通路蛋白表达的影响  
付文浩, 田春雨, 喇孝瑾, 张国伟, 张 敏, 王瑶瑶, 陈瑞军  
王秀萍, 李继安  
6117 清咳平喘颗粒治疗社区获得性肺炎痰热壅肺证的临床疗效观察  
狄浩然, 傅梦清, 辛大永



Chinese Traditional and Herbal Drugs

第 53 卷 第 19 期 (总第 726 期)

2022 年 10 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

崔艳丽

### • 数据挖掘与循证医学 •

- 6123 中成药治疗阿尔茨海默病的网状 Meta 分析  
刘长宁, 张立娟, 侯翰如, 毕淑月, 李明襄, 韩欢, 王康锋  
6139 丹参多酚酸盐注射液联合西医常规治疗对慢性心力衰竭疗效及安全性的系统评价及试验序贯分析  
张垚, 杨继, 穆丽婷, 赵英强, 王保和

### • 药材与资源 •

- 6159 阳春砂与海南砂 BPPS 启动子比较及 GCN4-motif 正调控作用的鉴定  
林晓静, 梁慧琳, 赵海莹, 吴清文, 黄琳璇, 伍思容, 杨锦芬  
6167 基于 DNA 条形码鉴别缘毛紫菀及狭苞紫菀  
赵日杂, 张英秀, 王君军, 苏学燕, 张绍山, 张志锋  
6174 山茱萸 CoHMGR 基因的亚细胞定位和表达分析  
王瑶瑶, 凡贞洁, 李炯, 刘晓冉, 王龙, 张佳琪, 肖华伟  
侯小改, 侯典云  
6180 一测多评法定量分析半夏及其混伪品中的 4 种核苷类成分  
王翠翠, 毕启瑞, 张建青, 杨琳, 姚帅, 果德安  
6187 基于 HPLC 多指标成分测定及指纹图谱多模式识别的不同产地不同品种当归质量差异分析  
张明惠, 朱田田, 晋玲, 王富胜, 徐丽, 康舒淇

### • 综 述 •

- 6200 中药中马兜铃酸快速检测及分离技术研究进展  
邵鑫, 张月, 郑雁雪, 王圆圆, 魏金霞, 李遇伯  
6213 中药单体成分防治糖尿病心血管并发症研究进展  
贺一凡, 周子烨, 崔壮举, 谢运勇, 王斌, 刘继平, 史永恒  
6227 板蓝根多糖抗病毒作用及其机制研究进展  
李咸慰, 宋沁洁, 杨新荣, 李国峰, 李东辉, 吴红伟, 李越峰  
6234 山豆根黄酮类成分药理作用及机制研究进展  
傅月朦, 余登香, 王淑娜, 杨丽雅, 邓中平  
6245 金果榄化学成分和药理作用研究进展及其质量标志物 (Q-Marker)  
预测分析  
卢丽洁, 吴清华, 周永峰, 任超翔, 朱兴龙  
晏宇杭, 魏民, 刘三波, 周涛, 裴瑾  
6258 转录因子调控青蒿素生物合成的作用机制研究进展  
詹忠根  
6273 基于内源性大麻素系统的抑郁症发病机制及其在中药研究中的应用  
陈佳俊, 秦雪梅, 杜冠华, 周玉枝  
6283 基于化学成分、药理作用及网络药理学的防己质量标志物 (Q-Marker) 预测分析  
莫柳英, 张帆, 郝二伟, 邓家刚, 陈锋, 李瑞林, 莫月密  
张玲秋, 侯小涛, 杜正彩  
6296 基于刺激响应及靶向因子修饰载多烯紫杉醇纳米递送系统的研究进展  
隋芳茜, 李杰雨, 杨山景, 姜海梅, 杨诗宇, 李凌军, 蔡晓青

### • 药事管理 •

- 6306 欧美药品非专利保护机制对中药创新及改良品种的保护启示  
李慧

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 - 19

# CHINESE TRADITIONAL AND HERBAL DRUGS

Vol. 53 No. 19 Oct. 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](http://www.tjipr.com))

Chinese Pharmaceutical Association

([www.cpa.org.cn](http://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](http://www.中草药杂志社.中国)

[www.tiprpress.com](http://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 •

- 5945** A new malonylginsenoside from flower buds of *Panax notoginseng*  
YANG Xiao-nan, WANG Hong-da, LI Wei-wei, SUN Meng-xiao, LI Xue,  
YANG Wen-zhi

- 5955** Two new phenylpropanoid glycosides from rhizoma of *Phragmites communis*  
ZHAO Wei-yi, SU Yan-fang, QIN Tao, CHANG Yan-xu, GAO Xiu-mei

- 5959** Chemical constituents from roots of *Schisandra chinensis*  
LIU Yan, LIU Shuang, PENG Zi-qi, WANG Si-yi, JIANG Yi-kai, PAN Juan, GUAN  
Wei, HAO Zhi-chao, KUANG Hai-xue, YANG Bing-you

- 5972** Changing regularity of alkaloids from *Coptis chinensis* before and after  
processing based on HR-MS-Database  
LONG Cheng-yan, YANG Yang, HUANG Si-xing, ZHANG Li, YANG Yong,  
GUO Yan-lei

### • Pharmaceutics and Technology •

- 5980** Optimization of curcumin-lactoferrin nanoparticles prescription process based on  
Box-Behnken design-response surface method and *in vitro* evaluation  
LI Ling-hui, LIAO Wan, ZHANG Qian, YU Fang-kun, TAN Li-wei, LI Zhang-cai,  
HU Qiong-dan, ZHANG Xin-jie, LIAO Yang-yang, HOU Shu-guang, LI Rui

- 5991** Composition analysis and quality evaluation of polysaccharides from Jizhi Syrup  
LIU Feng, DING Hao-ran, WANG Meng-yue, LI Xiao-bo

- 6001** Preparation process of components for component-based Chinese medicine of  
Zuojin Pills  
LIU Si-qi, WANG Ru-feng

- 6012** Improvement and establishment of concentrate quality standard of concentrate  
quality control index for ethanol precipitation process of traditional Chinese  
medicine: A case study of *Codonopsis Radix*  
PAN Jing-jing, REN Dan-dan, QU Hai-bin, GONG Xing-chu

- 6023** Screening potential Q-Marker from Huoxiang Zhengqi Shui based on  
UPLC-Q-TOF-MS fingerprints and molecular docking  
ZHANG Ya-li, HAN Jian-xun, TUERSUNTUOHETI-Tuohetisayipu, SUN  
Zhao-zeng, SONG Wei, ZHANG Yu-song, WEI Hai-yan, XIAO Jin-jin

- 6035** Extraction of *Astragali Radix* and purification process of ceramic membrane  
ultrafiltration of *Astragali Radix* extracts  
RAN Xin, WAN Ling-juan, LI Jin-tian, LIU Xiao-xia, HE Hong-jie, WEI Shu-chang

- 6044** Quality evaluation of Lidanshi Granules based on HPLC-QAMS and chemometrics  
LIU Yan-fen, DUAN Fang, ZHANG Qiao, GUO Dan

### • Pharmacological Studies and Clinical Observations •

- 6054** Evaluation of therapeutic effects of *Mume Fructus* powder and water decoction on  
Crohn's rats based on *in vitro* human gastrointestinal metabolism  
LIU Zhi-hua, PENG Ying, SUN Chong-zhi, LI Xiao-bo

- 6068** Mechanism of Tibetan medicine Shiwuwei Rupeng Pills on hyperuricemia  
nephropathy based on intestinal flora and systematic pharmacology  
XIE Hao-chen, ZHANG Bo-heng, Mukaram Amatjan, LI Na, HE Peng-ke, YAN  
Heng-xiu, SHAO Xiao-ni

- 6083** Mechanism of *Ardisia crenata* on rats with acute pharyngitis based on NF-κB/  
STAT signaling pathway  
QUAN Wei, LIU Chang, ZHOU Ying, HE Qian-qian, SHI Yang, DANG  
Zhao-yan, LIU Xiong-li

- 6093** Effect of hispidulin on hepatic fibrosis mice based on JAK1/STAT3 signaling  
pathway  
XU Chong, QIN Xiao-dong, REN Li, LUO Xian-qin

- 6101** Mechanism of Qingkailing Oral Liquid in preventing and treatment of pneumonia  
based on TLR4/NF-κB signaling pathway  
CHEN Hong-ying, LI Xin, XU Jun, ZHANG Tie-jun, LI Qing, OUYANG  
Dong-sheng, XU Xu

- 6108** Effect of Shuangqing Pinghua Recipe on autophagy pathway protein expressions  
in skeletal muscle of rats with metabolic syndrome  
FU Wen-hao, TIAN Chun-yu, LA Xiao-jin, ZHANG Guo-wei, ZHANG Min,  
WANG Yao-yao, CHEN Rui-jun, WANG Xiu-ping, LI Ji-an

- 6117** Clinical observation of Qingke Pingchuan Granule in treatment of community  
acquired pneumonia with phlegm heat obstructing lung syndrome  
DI Hao-ran, FU Meng-qing, XIN Da-yong

**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**

Oct. 12, 2022

**Editor in Charge of English**

QI Jing-wen

**Editor in Charge of This Issue**

CUI Yan-li

**• Data Mining and Evidence-Based Medicine •**

- 6123** Network Meta-analysis of Chinese patent medicine in treatment of Alzheimer's disease  
LIU Chang-ning, ZHANG Li-juan, HOU Han-ru, BI Shu-yue, LI Ming-xiang, HAN Huan, WANG Kang-feng
- 6139** Systematic review and trial sequential analysis of efficacy and safety of Salvia Miltiorrhiza Polyphenols Injection combined with conventional western medicine in treatment of chronic heart failure  
ZHANG Yao, YANG Ji, MU Li-ting, ZHAO Ying-qiang, WANG Bao-he

**• Medicinal Materials •**

- 6159** Comparison of BPPS promoters between *Amomum villosum* and *Amomum longiligulare* and identification of GCN4 motif positive regulation  
LIN Xiao-jing, LIANG Hui-ling, ZHAO Hai-ying, WU Qing-wen, HUANG Lin-xuan, WU Si-rong, YANG Jin-fen
- 6167** Identification of *Aster souliei* and *Aster farreri* based on DNA barcode  
ZHAO Ri-za, ZHANG Ying-xiu, WANG Jun-jun, SU Xue-yan, ZHANG Shao-shan, ZHANG Zhi-feng
- 6174** Subcellular localization and expression analysis of *CoHMGR* gene from *Cornus officinalis*  
WANG Yao-yao, FAN Zhen-jie, LI Jiong, LIU Xiao-ran, WANG Long, ZHANG Jia-qi, XU Hua-wei, HOU Xiao-gai, HOU Dian-yun
- 6180** Quantitative analysis of four nucleosides in *Pinellia Rhizoma* and its adulterants by the quantitative analysis of multi-components by a single marker  
WANG Cui-cui, BI Qi-rui, ZHANG Jian-qing, YANG Lin, YAO Shuai, GUO De-an
- 6187** Quality differences of different origins and varieties of *Angelicae sinensis* based on HPLC multi-index composition determination and multi-pattern recognition method of fingerprint  
ZHANG Ming-hui, ZHU Tian-tian, JIN Ling, WANG Fu-sheng, XU Li, KANG Shu-qi

**• Reviews •**

- 6200** Research progress on rapid detection and separation techniques of aristolochic acids in traditional Chinese medicine  
SHAO Xin, ZHANG Yue, ZHENG Yan-xue, WANG Yuan-yuan, WEI Jin-xia, LI Yu-bo
- 6213** Research progress on prevention and treatment of diabetic cardiovascular complications by traditional Chinese medicine monomer  
HE Yi-fan, ZHOU Zi-ye, YA Zhuang-ju, XIE Yun-yong, WANG Bin, LIU Ji-ping, SHI Yong-heng
- 6227** Research progress on antiviral effect and mechanism of *Isatidis Radix* polysaccharide  
LI Xian-wei, SONG Qin-jie, YANG Xin-rong, LI Guo-feng, LI Dong-hui, WU Hong-wei, LI Yue-feng
- 6234** Research progress on pharmacological effects and mechanisms of flavonoids from *Sophorae Tonkinensis Radix et Rhizoma*  
FU Yue-meng, YU Deng-xiang, WANG Shu-na, YANG Li-ya, DENG Zhong-ping
- 6245** Research progress on chemical composition and pharmacological effects of *Tinosporae Radix* and predictive analysis on quality marker  
LU Li-jie, WU Qing-hua, ZHOU Yong-feng, REN Chao-xiang, ZHU Xing-long, YAN Yu-hang, WEI Min, LIU San-bo, ZHOU Tao, PEI Jin
- 6258** Research progress on transcriptional regulation mechanism of artemisinin biosynthesis  
ZHAN Zhong-gen
- 6273** Pathogenesis of depression based on endocannabinoid system and its application in traditional Chinese medicine research  
CHEN Jia-jun, QIN Xue-mei, DU Guan-hua, ZHOU Yu-zhi
- 6283** Predictive analysis of quality markers (Q-Marker) of *Stephania tetrandra* based on Chemical components and pharmacological and network pharmacology  
MO Liu-ying, ZHANG Fan, HAO Er-wei, DENG Jia-gang, CHEN Feng, LI Rui-lin, MO Yue-mi, ZHANG Ling-qiu, HOU Xiao-tao, DU Zheng-cai
- 6296** Research progress on docetaxel loaded nano delivery system based on stimulus response and targeting factors  
SUI Fang-qian, LI Jie-yu, YANG Shan-jing, JIANG Hai-me, YANG Shi-yu, LI Ling-jun, CAI Xiao-qing
- Pharmaceutical Affairs Management •**
- 6306** Enlightenment of European and American drug non-patent protection mechanism on protection of traditional Chinese medicine innovation and improved varieties  
LI Hui