



中草药

ZHONGCAOYAO

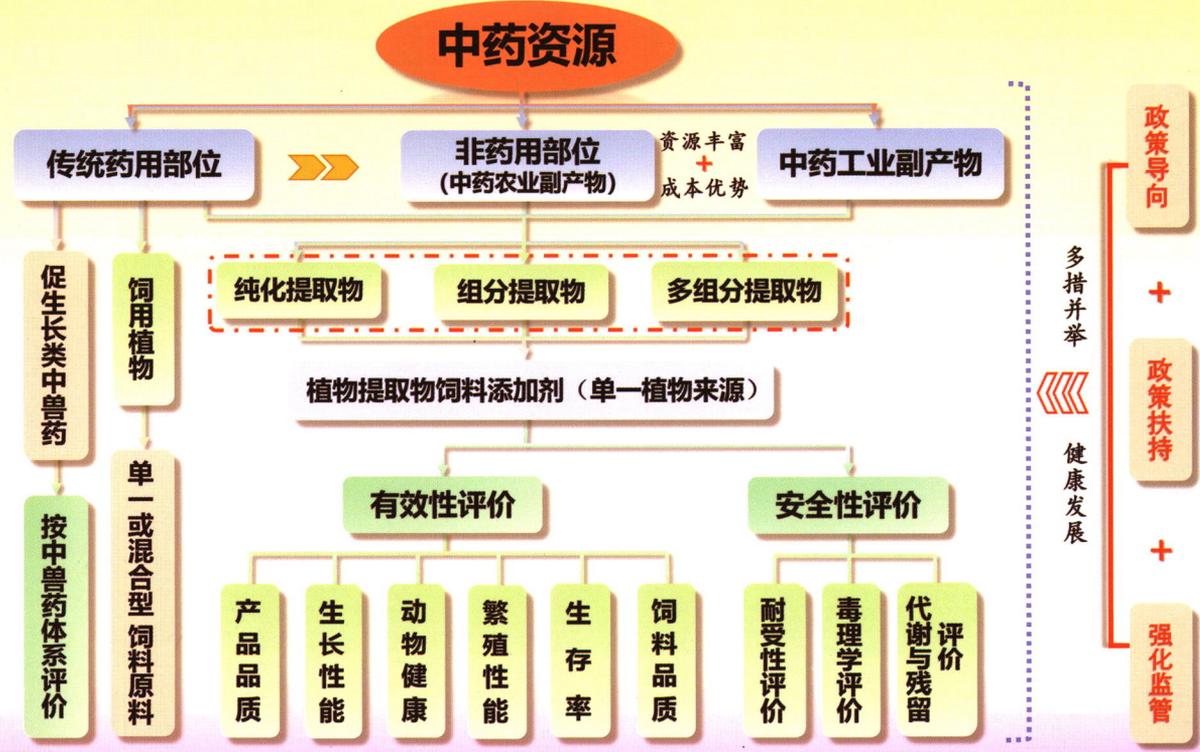
CHINESE TRADITIONAL AND HERBAL DRUGS

荣获中国出版政府奖期刊奖 国家期刊奖 中国百强报刊 中国精品科技期刊

中国中文核心期刊 中国科技核心期刊 CSCD来源期刊 中医药科技期刊分级目录T1级期刊

2023年6月 第54卷 第12期

李会伟, 郭盛, 王强雄, 钱大玮, 段金廛. 中药资源植物提取物饲料添加剂产业发展现状分析及其展望. 中草药, 2023, 54(12): 3745-3758.



万方数据



中国药学会 CHINESE PHARMACEUTICAL ASSOCIATION

12 2023

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

· 专 论 ·

- 3745 中药资源植物提取物饲料添加剂产业发展现状分析及其展望
李会伟, 郭 盛, 王强雄, 钱大玮, 段金威

· 化学成分 ·

- 3759 五味子中 1 个新的联苯环辛烯类木脂素
邱同莲, 刘小清, 吴 楠, 陈孝源, 范君婷, 谭宁华
- 3771 人参内生真菌强壮土赤壳菌 RSA2004 中抗乳腺癌活性化合物的分离鉴定
张 红, 毛伟业, 刘 霞, 金 璐, 李圣宇, 傅惠英, 寿旗扬
- 3777 东紫苏化学成分及其抗炎活性研究
杨 刚, 崔小燕, 张佳雄, 陈志明, 刘亚平, 王易芬
- 3785 联合体内外多维化学物质组和分子对接策略的炮附子抗炎药效物质基础研究
尹貽慧, 张 凯, 陈 倩, 焦鸣杰, 陈冬玲, 张 佳, 李 飞

· 药剂与工艺 ·

- 3796 氧化铝陶瓷膜富集醋香附挥发油的工艺研究
周 艺, 吴倩莲, 刘红波, 张浩宇, 殷会兰, 朱华旭
张 悦, 唐志书
- 3806 基于颜色气味信息融合的苦杏仁走油程度判别分析与质量预测模型建立
欧阳少琴, 陈慧荣, 拱健婷, 王亚顺, 崔 阳, 翟恩爱, 梁敬妮
邹慧琴, 闫永红
- 3815 大黄-黄芪组分自微乳的制备及在体肠吸收特性研究
侯 雨, 朱 琳, 张奇斌, 叶小凤, 柯俏颖, 徐志士, 魏颖慧
- 3824 基于拉曼光谱的绞股蓝总皂苷色谱洗脱过程在线监测方法研究
谢佳丽, 张 胜, 姜新宇, 王青青, 张建兵, 瞿海斌
- 3834 基于多质量参数的菝葜趁鲜切片工艺优选研究
张爱松, 林 敏, 段功豪, 吴和鸣, 吴宇星, 龚 玲, 余 坤
- 3842 饮片细粉对肠炎宁半浸膏片压缩成型的影响研究
潘浩敏, 刘 微, 梁钧杰, 饶小勇, 张 尧, 余德发
李 哲, 罗晓健

· 药理与临床 ·

- 3851 基于代谢组学与琥珀酸/血管内皮生长因子信号通路的雷公藤根制增效机制研究
陈 殊, 石宣宜, 顾子娟, 陈家毅, 蒋红霞, 张 亮
孙 群, 刘建群
- 3865 党参经 PI3K/Akt 干预溃疡性结肠炎黏膜细胞铁死亡-线粒体动力学失衡的机制研究
李 芳, 陈正君, 葛俊李, 王春霞, 梁建庆, 冯翠娟, 杨扶德
- 3878 基于 NLRP3/细胞焦亡通路研究荆芥挥发油的抗抑郁作用及作用机制
秦甜甜, 黄如杨, 谢红潇, 胡靖文, 曾九僧, 刘 蓉, 曾 南
- 3887 丹参酮 II_A 通过抑制 miR-376b-5p 降低急性心肌梗死大鼠致炎细胞因子分泌并减轻心肌损伤研究
胡月华, 陈 强, 邢海生, 陈丽珠, 郭晓华, 任星星
- 3895 基于 AMPK/mTOR 自噬通路研究甘草酸二铵对柯萨奇病毒 B3 病毒性心肌炎小鼠的保护作用
岳丽晓, 李登云, 张晶晶, 仝 雷
- 3903 基于 UPLC-Q-TOF-MS 和网络药理学探讨丝穗金粟兰水提物抗炎镇痛药效物质及作用机制
甄丹丹, 黄耀斌, 卢显兴, 陈景敏, 丘 琴, 张 淼, 史俊豪

中 草 药[®]

ZHONGCAOYAO

Chinese Traditional and Herbal Drugs

第 54 卷 第 12 期 (总第 743 期)

2023 年 6 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

英文责任编辑

姜 丹

本期责任编辑

王文倩

- 3911 基于中医药整合药理学和转录组学探究丹栀逍遥散防治焦虑肝郁化火证的作用机制
潘晓明, 任 雪, 韦姗姗, 曹蓓苓, 王 维, 杨 艳
陈文慧, 徐宏喜

- 3921 仙早合剂治疗排卵障碍性异常子宫出血疗效及机制探讨
刘恒炼, 冯 倩, 夏 敏

· 数据挖掘与循证医学 ·

- 3932 21 世纪全球视域下陇药红芪科学协作与热点前沿知识图谱构建及可视化分析

刘娟娟, 陈奕旻, 张佳玲, 王良才, 杨莉萍, 席少阳, 黄璐琦, 晋 玲

- 3949 基于 CiteSpace 科学知识图谱分析石榴皮研究现状及热点

唐 荣, 魏 欣, 马 江, 刘昌孝, 何 新

· 药材与资源 ·

- 3962 茯苓细胞色素 P450 基因 *PcCYP* 的克隆与序列分析

唐 静, 朱闻君, 刘和平, 苏振佳, 刘金鑫, 舒少华

- 3971 基于 SSR 分子标记的裸花紫珠种质资源遗传多样性分析及 DNA 指纹图谱构建

张红瑞, 李 鑫, 陈振夏, 胡文斌, 李 伟, 黄 梅, 于福来, 杨林立

- 3983 基于超快速 VPCR 荧光可视化检测技术的小檗皮及其藏成药中原料药的真伪鉴别研究

李红颖, 宋文俊, 李慧林, 张继晨, 范 刚, 陈 蓉

- 3990 基于 HPLC 指纹图谱结合化学计量学的白及与黄花白及辨识研究

范雪花, 王艳丽, 侯富国, 李 涵, 李海洋, 姚 静, 施钧瀚

桂新景, 刘瑞新

- 3999 基于实时景深扩展-大图影像拼接与偏振光显微鉴别技术的柴胡及其 4 种混淆品的生药学研究

汪 璐, 杨纯国, 韩文凯, 崔亚君, 高 峰, 马海光, 隗立国

- 4012 横经席药材的生药学研究及有效成分测定

林雀跃, 张颖婷, 梁柳春, 姚 力, 钟小清, 唐 倩, 罗 轶

· 综 述 ·

- 4019 细辛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

华新振, 刘丛颖, 贺梦媛, 于小钧, 高 鹏, 丛竹凤

- 4036 计算机虚拟筛选技术在中药毒性研究中的探索与思考

钱文秀, 阎星旭, 张文青, 贾国香, 赵 珊, 宋丽丽, 李遇伯

- 4044 药用植物细胞外囊泡作为新型药效物质的研究进展

苏勇汇, 徐珊珊, 王 欢, 李太平, 王松松, 田青平, 韩利文

- 4053 莜术油注射液化学成分、药理作用和临床应用的研究进展

孔红芳, 袁书同, 袁飞龙, 姜程曦

- 4061 中药谱动力学与谱效动力学关联性研究现状及其关键问题解决的对策探讨

贺琪璐, 肖美凤, 贺 鹏, 李文姣, 李海英, 邓凯文, 贺福元

- 4069 黄芪多糖提取工艺、化学结构及药理作用的研究进展

杨乾方, 王 帆, 叶 婷, 潘立民

· 药事管理 ·

- 4082 中医药地方立法的亮点及重点研究
林天钧, 李 慧

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 * 34 * 2023 - 12

CHINESE TRADITIONAL AND HERBAL DRUGS

Vol. 54 No. 12 June 2023

Chinese Traditional and Herbal Drugs

(Semimonthly)

Founded in January, 1970

Supervisor 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

· Special Topic ·

- 3745 Current situation analysis and prospect of feed additive industry with plant extract derived from traditional Chinese medicine
LI Hui-wei, GUO Sheng, WANG Qiang-xiong, QIAN Da-wei, DUAN Jin-ao

· Chemical Constituents ·

- 3759 A new dibenzocyclooctadiene lignan from *Schisandra chinensis*
DI Tong-lian, LIU Xiao-qing, WU Nan, CHEN Xiao-yuan, FAN Jun-ting, TAN Ning-hua
- 3771 Isolation and identification of compounds with anti-breast cancer activity in endophytic fungus *Ilyonectria robusta* RSA2004 from *Panax ginseng*
ZHANG Hong, MAO Wei-ye, LIU Xia, JIN Lu, LI Sheng-yu, FU Hui-ying, SHOU Qi-yang
- 3777 Chemical constituents from *Elsholtzia bodinieri* and their anti-inflammatory activities
YANG Gang, CUI Xiao-yan, ZHANG Jia-xiong, CHEN Tai-ming, LIU Ya-ping, WANG Yi-fen
- 3785 Study on pharmacodynamic material basis of processed *Aconiti Lateralis Radix Praeparata* combined with in vivo and in vitro multi-dimensional chemical substance group and molecular docking strategy
YIN Yi-hui, ZHANG Kai, CHEN Qian, JIAO Ming-jie, CHEN Dong-ling, ZHANG Jia, LI Fei

· Pharmaceutics and Technology ·

- 3796 Study on enrichment of essential oil from vinegar-processed *Cyperi Rhizoma* by alumina ceramic membrane
ZHOU Yi, WU Qian-lian, LIU Hong-bo, ZHANG Hao-yu, YIN Hui-lan, ZHU Hua-xu, ZHANG Yue, TANG Zhi-shu
- 3806 Study on discriminative analysis and quality prediction models of *Armeniacae Semen Amarum* with rancidness degrees based on information fusion of color and odor
OUYANG Shao-qin, CHEN Hui-rong, GONG Jian-ting, WANG Ya-shun, CUI Yang, ZHAI En-ai, LIANG Jing-ni, ZOU Hui-qin, YAN Yong-hong
- 3815 Preparation and *in-situ* intestinal absorption study of *Rhei Radix et Rhizoma-Astragali Radix* components loaded self-microemulsion
HOU Yu, ZHU Lin, ZHANG Qi-bin, YE Xiao-feng, KE Qiao-ying, XU Zhi-shi, WEI Ying-hui
- 3824 On-line monitoring method of chromatographic process of *Gynostemma pentaphyllum* saponins based on Raman spectroscopy
XIE Jia-li, ZHANG Sheng, JIANG Xin-yu, WANG Qing-qing, ZHANG Jian-bing, QU Hai-bin
- 3834 Optimization of fresh-cutting process of *Smilacis Chinae Rhizoma*
ZHANG Ai-song, LIN Min, DUAN Gong-hao, WU He-ming, WU Yu-xing, GONG Ling, YU Kun
- 3842 Study on effect of fine powder on compression process of Changyanning semi-extract tablets
PAN Hao-min, LIU Wei, LIANG Jun-jie, RAO Xiao-yong, ZHANG Yao, YU De-fa, LI Zhe, LUO Xiao-jian

· Pharmacological Studies and Clinical Observations ·

- 3851 Enhancing efficacy mechanism of roasted *Tripterygium wilfordii* based on metabolomics and succinate/VEGF signal pathway
CHEN Shu, SHI Xuan-yi, GU zi-xian, CHEN Jia-yi, JIANG Hong-xia, ZHANG Liang, SUN Qun, LIU Jian-qun
- 3865 Intervention of *Codonopsis Radix* on ferroptosis and mitochondrial dynamics imbalance in mucosal cells of ulcerative colitis via PI3K/Akt
LI Fang, CHEN Zheng-jun, GE Jun-li, WANG Chun-xia, LIANG Jian-qing, FENG Cui-juan, YANG Fu-de
- 3878 Antidepressant effect and mechanism of essential oil from *Schizonepeta tenuifolia* based on NLRP3/pyroptosis pathway
QIN Tian-tian, HUANG Ru-yang, XIE Hong-xiao, HU Jing-wen, ZENG Jiu-seng, LIU Rong, ZENG Nan
- 3887 Tanshinone II_A reduces secretion of inflammatory cytokines and alleviates myocardial injury in rats with acute myocardial infarction by inhibiting *miR-376b-5p*
HU Yue-hua, CHEN Qiang, XING Hai-sheng, CHEN Li-zhu, GUO Xiao-hua, REN Xing-xing
- 3895 Protective effect of diammonium glycyrrhizinate on mice with coxsackievirus B3 myocarditis by regulating AMPK/mTOR autophagy pathway
YUE Li-xiao, LI Deng-yun, ZHANG Jing-jing, TONG Lei

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

June 28, 2023

Editor in Charge of English

JIANG Dan

Editor in Charge of This Issue

WANG Wen-qian

- 3903 Anti-inflammatory and analgesic substances and mechanisms of aqueous extracts of *Chloranthus fortune* based on UPLC-Q-TOF-MS and network pharmacology
ZHEN Dan-dan, HUANG Yao-bin, LU Xian-xing, CHEN Jing-min, QIU Qin, ZHANG Miao, SHI Jun-hao
- 3911 Discussion on mechanism of Danzhi Xiaoyao Powder in prevention and treatment of anxiety with liver depression transforming into fire syndrome based on integrative pharmacology of traditional Chinese medicine and transcriptomics
PAN Ci-ming, REN Xue, WEI Shan-shan, CAO Bei-ling, WANG Wei, YANG Yan, CHEN Wen-hui, XU Hong-xi
- 3921 Curative effect and mechanism of Xianhan Mixture in treatment of abnormal uterine bleeding-ovulatory dysfunction
LIU Heng-lian, FENG Qian, XIA Min
- Data Mining and Evidence-Based Medicine ·
- 3932 Construction and visual analysis of scientific collaboration and hot frontier knowledge graph of Longyao *Hedysari Radix* from global perspective in 21st century
LIU Juan-juan, CHEN Yi-yang, ZHANG Jia-ling, WANG Liang-cai, YANG Li-ping, XI Shao-yang, HUANG Lu-qi, JIN Ling
- 3949 Research status and hotspot of *Granati Pericarpium* based on CiteSpace scientific knowledge graph analysis
TANG Rong, WEI Xin, MA Jiang, LIU Chang-xiao, HE Xin
- Medicinal Materials ·
- 3962 Cloning, characterization and expression of a novel cytochrome P450 genes *PcCYP* in *Poria cocos*
TANG Jing, ZHU Wen-jun, LIU He-ping, SU Zhen-jia, LIU Jin-xin, SHU Shao-hua
- 3971 Genetic diversity analysis and DNA fingerprints construction of *Callicarpa nudiflora* germplasm resources based on SSR markers
ZHANG Hong-rui, LI Xin, CHEN Zhen-xia, HU Wen-bin, LI Wei, HUANG Mei, YU Fu-lai, YANG Lin-li
- 3983 Identification of *Berberis Cortex* and its Tibetan patent medicine based on Ultra-fast VPCR and fluorescence visual identification technology
LI Hong-ying, SONG Wen-jun, LI Hui-lin, ZHANG Ji-chen, FAN Gang, CHEN Rong
- 3990 Identification of *Bletilla striata* and *Bletilla ochracea* by HPLC coupled with chemometrics
FAN Xue-hua, WANG Yan-li, HOU Fu-guo, LI Han, LI Hai-yang, YAO Jing, SHI Jun-han, GUI Xin-jing, LIU Rui-xin
- 3999 Identification of *Bupleuri Radix* and its four adulterants based on extended depth of field imaging, image stitching and polarized microscopy techniques
WANG Lu, YANG Chun-guo, HAN Wen-kai, CUI Ya-jun, GAO Feng, MA Hai-guang, WEI Li-guo
- 4012 Pharmacognostic identification and determination of active ingredient of *Calophylli Herba*
LIN Que-yue, ZHANG Ying-ting, LIANG Liu-chun, YAO Li, ZHONG Xiao-qing, TANG Qian, LUO Yi
- Reviews ·
- 4019 Research progress on chemical composition and pharmacological effects of *Asari Radix* et *Rhizoma* and predictive analysis on quality marker
HUA Xin-zhen, LIU Cong-ying, HE Meng-yuan, YU Xiao-jun, GAO Peng, CONG Zhu-feng
- 4036 Exploration and thinking of computer virtual screening technology in toxicity research of traditional Chinese medicine
QIAN Wen-xiu, YAN Xing-xu, ZHANG Wen-qing, JIA Guo-xiang, ZHAO Shan, SONG Li-li, LI Yu-bo
- 4044 Research progress on medicinal plant-derived extracellular vesicles as novel pharmacodynamic substances
SU Yong-hui, XU Shan-shan, WANG Huan, LI Tai-ping, WANG Song-song, TIAN Qing-ping, HAN Li-wen
- 4053 Research progress on chemical components, pharmacological effects and clinical application of Zedoary Turmeric Oil Injection
KONG Hong-fang, YUAN Shu-tong, YUAN Fei-long, JIANG Cheng-xi
- 4061 Current situation of study on correlation between polypharmacokinetics and polypharmacodynamics of traditional Chinese medicine and solutions to their key problems
HE Qi-jun, XIAO Mei-feng, HE Peng, LI Wen-jiao, LI Hai-ying, DENG Kai-wen, HE Fu-yuan
- 4069 Research progress on extraction technology, chemical structure and pharmacological action of *Astragalus* polysaccharides
YANG Qian-fang, WANG Fan, YE Ting, PAN Li-min
- Pharmaceutical Administration ·
- 4082 Research on highlights and focuses of local legislation of traditional Chinese medicine
LIN Tian-jun, LI Hui

《中草药》杂志荣获中国出版政府奖期刊奖



《中草药》杂志荣获第二届中国出版政府奖，中国出版政府奖是国家设立的新闻出版行业的最高奖。第二届中国出版政府奖首次设立期刊奖，《中草药》等10种科技期刊获此殊荣。



第二届中国出版政府奖期刊奖（新闻出版行业最高奖）



第二届全国期刊奖（中国期刊界最高奖）



中国百强科技期刊



中国期刊方阵双奖期刊



中国科协精品科技期刊TOP50



★ 中国最具国际影响力学术期刊

★ 第三届全国期刊奖提名奖

★ 新中国60年有影响力的期刊

★ 中国精品科技期刊

★ 全国优秀科技期刊一等奖

★ 百种中国杰出学术期刊

★ 天津市优秀期刊特别荣誉奖



衷心感谢广大读者、作者、编委和协作办刊单位长期以来的关心和支持!

