



中

草

药

®

ZHONGCAOYAO

CHINESE TRADITIONAL AND HERBAL DRUGS

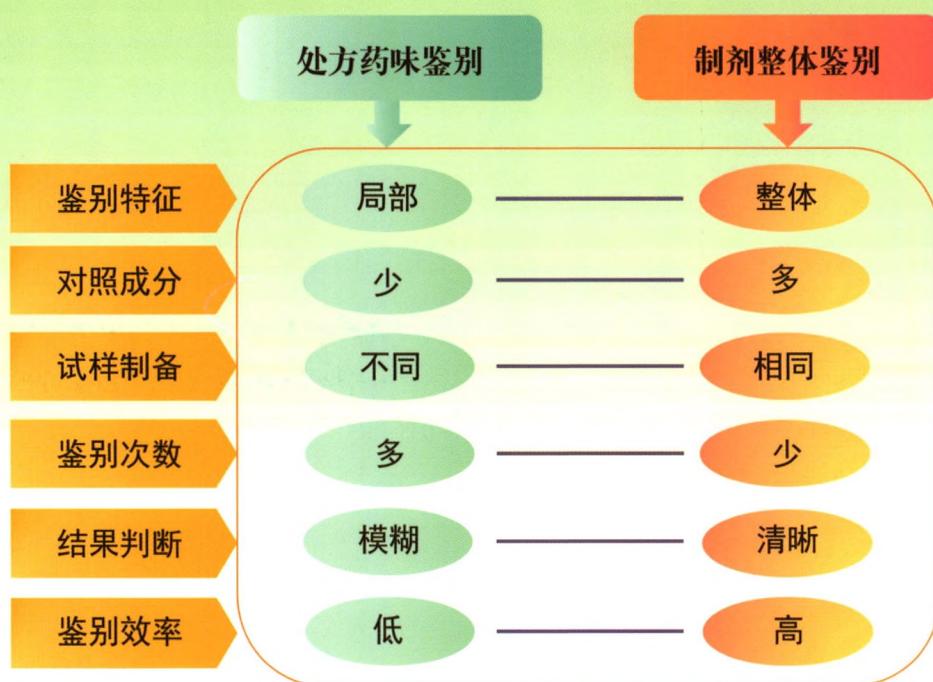
荣获中国出版政府奖 国家期刊奖 中国百强报刊 中国精品科技期刊

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

2021年4月 第52卷 第8期

周跃华, 路金才, 周娟, 宋宗华. 关于中药新药复方制剂“整体鉴别”新模式的思考.

中草药, 2021, 52(8): 2199-2204.



天津药物研究院

TIANJIN INSTITUTE OF PHARMACEUTICAL RESEARCH



中国药学会

CHINESE PHARMACEUTICAL ASSOCIATION

8

2021



ZHONGCAOYAO

Chinese Traditional and Herbal Drugs

第 52 卷 第 8 期 (总第 691 期)

2021 年 4 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.zongcaoyao.com

www.tiprpress.com

E-mail: zey@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 •

- 2199 关于中药新药复方制剂“整体鉴别”新模式的思考
周跃华, 路金才, 周娟, 宋宗华

• 化学成分 •

- 2205 黔产黄苞大戟中 1 个新的 megastigmane 糖苷
杜彩霞, 易平, 陈俊磊, 熊燕, 张嘉瑜, 黄烈军, 苑春茂
郝小江, 顾玮

- 2210 蓬莱葛枝叶的生物碱类成分研究
桑晨晨, 李紫薇, 庞熙, 邹雪怡, 叶文才, 张晓琦

- 2217 芦荟大黄素-吲哚偶联物的合成及抗肿瘤活性研究
原凤蕉, 李晓雪, 尚海, 李凌宇, 宋艳玲, 邹忠梅

- 2226 基于 HPLC-Q-TOF-MS/MS 技术的七味通痹口服液化学成分分析
唐明, 高霞, 耿婷, 王佳佳, 陈夏霖, 曹亮, 王振中, 肖伟

• 药剂与工艺 •

- 2237 载姜黄素两亲性星状聚酯纳米粒的制备、表征及体外抗肿瘤研究
洪伟勇, 王金明, 王海英, 周雪峰, 郭钫元, 杨根生

- 2247 基于响应面及加权评分的黄芪蜜炙工艺优化
杨志城, 孙彩虹, 鄂秀辉, 何毅

- 2257 球面对称设计结合遗传神经网络优选黄芪-红花药对水提工艺
陈光伟, 金伟锋, 许守超, 张玲, 王玉, 何昱

- 2267 经典名方桃核承气汤物质基准关键质量属性研究
关雅戈, 罗赣, 高晓燕, 蒋宇航, 刘雨涵, 韩晨, 苗家燕
韩妮娜, 张志强

- 2276 蝙蝠葛碱复合纳米胶束的制备及大鼠体内药动学研究
张菊, 魏丹, 张雪, 赵江丽, 贾东升

- 2285 基于“辨状论质”综合评价指数的厚朴饮片等级划分和优质优效研究
荆文光, 程显隆, 刘安, 马双成, 魏峰

- 2294 真空联合倾斜式热风干燥茯苓丁的响应面试验及多目标优化
巨浩羽, 郑志安, 赵士豪, 赵海燕, 张卫鹏, 高振江, 肖红伟

• 药理与临床 •

- 2306 延胡索、白芷炮制配伍对元胡止痛方中延胡索乙素、欧前胡素含量以及镇痛作用的影响
于定荣, 翁小刚, 王本晓, 李丽, 刘颖, 杜茂波, 陈畅
王丽芳, 王国华, 王海林

- 2313 远志提取物对抑郁大鼠肠道菌群的作用研究
陈启军, 于岚, 赵文文, 许荣蓉, 陈筱清, 吴霞, 巴寅颖

- 2324 黄绵马酸 BB 对革兰阳性致病菌的抗菌活性和生物被膜清除作用研究
莫梓童, 吴小诗, 殷川平, 唐春萍, 沈志滨

- 2331 青蒿琥酯通过 miR-21/PTEN 通路对人大肠癌 CCL229 细胞恶性生物学行为抑制作用的研究
巩会杰, 唐建荣, 姚兰杰, 冯鹏飞

- 2343 川陈皮素防治肝缺血再灌注损伤的作用机制研究
杨超君, 王跃武, 周开珩

- 2351 灵芝多糖对脓毒症急性肺损伤大鼠肺功能及 TLR4/NF-κB 通路的影响
黄晗, 李凤芝, 李杨, 张小红

- 2357 乳香、没药挥发油促九分散方中生物碱类成分的 HaCaT 细胞摄取及其机制研究
高玲, 黄诗雨, 陈丽华, 李瑛瑛, 管咏梅, 刘丽丽, 朱卫丰



ZHONGCAOYAO

Chinese Traditional and Herbal Drugs

第 52 卷 第 8 期 (总第 691 期)

2021 年 4 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

英文责任编辑

齐静雯

本期责任编辑

崔艳丽

2365 基于 Hedgehog 信号通路的熊果酸诱导结直肠癌 SW480 细胞凋亡的机制研究
张梦, 何曼, 孙强, 陈莉, 曾沙, 赵晖, 杨寒
刘茂伦, 任珊, 徐海波

2374 基于网络药理学研究艾片抗脑缺血再灌注损伤的作用机制及验证
付尹, 杨显娟, 王建, 王立映, 王佳俊, 龚道银, 邓钦清

2384 肉碱/有机阳离子转运体对元胡止痛方中主要药性成分的转运机制研究
石琳, 王泽, 崔涛, 慈小燕, 闫凤英, 伊秀林, 武卫党

· 药材与资源 ·

2392 基于转录组测序的越南安息香根、茎和叶基因表达分析
王小敏, 许婳婳, 詹若挺, 马新业

2400 UPLC-MS/MS 法结合化学计量学法分析酸枣仁和理枣仁中多指标成分
武宝爱, 闫锋, 申晨曦, 马敏, 张福生, 杜晨晖, 闫艳

2408 HPLC 指纹图谱结合化学计量学比较同株不同生长年限毫白芍化学成分差异
徐超, 林杰, 金传山, 刘军玲

2414 HPLC 测定川西合耳菊中黄酮类和酚酸类药效成分的含量
雷鑫, 蔡璐瑶, 陈蓉, 黄世伟, 张俊, 吴恒
龙飞, 吕光华

2421 基于多指标的半夏产地加工去皮前加工工艺研究
肖锟钰, 雷林, 陶彩霞, 林雄, 王光忠, 李水清
黄必胜, 刘艳菊

· 综 述 ·

2427 《中国药典》中药固体制剂水分控制标准提升及关键问题探析
董芹, 廖婉, 张臻, 何瑶, 蒋燕萍, 严鑫, 朱宗萍
胡琼丹, 庞兰, 陈姣, 赖文静, 张星, 傅超美

2438 甘草中新发现化学成分和药理作用的研究进展
李葆林, 麻景梅, 田宇柔, 张铁军, 牛丽颖
赵飞亚, 陶爱恩, 管鑫, 钱金桩, 夏从龙

2449 重楼非药用部位化学成分、药理作用和资源化利用模式的研究进展
邢丽媛, 李慧婷, 万娜, 黄小英, 杨方利, 杨明, 伍振峰
2458 中药精油在临床应用中的风险控制问题分析

董玉洁, 蒋沅岐, 陈金鹏, 刘毅, 周福军, 田成旺, 陈常青

2465 中药缓控释制剂的研究进展
张欢, 高胜美, 王跃飞, 杨静, 柴欣

2473 中药“曲剂”发酵的物质和功能变化及机制研究进展
兰太进, 孔鹏云, 郭宏伟, 运晨霞, 侯小涛, 郝二伟, 杜正彩
冯秋瑜, 张艺, Lim Yang Mooi, 邓家刚

2493 活血化瘀中药基于机械性敏感离子通道治疗高血压研究策略的展望
张家祥, 钟颖, 黄娜娜, 邝江莹, 刘持年, 孙蓉

2502 黄芪及其活性成分对脓毒症临床和药理作用的研究进展
谢静, 龚易昕悦, 丁立生, 罗培, 青琳森

本刊投稿须知见《中草药》2021, 52(1): 310-312.

期刊基本参数: CN 12-1108 R * 1970 * sm * A4 * 160 * zh * P * ¥ 50.00 * 3000 * 36 * 2021 - 08

CHINESE TRADITIONAL AND HERBAL DRUGS

Vol. 52 No. 8 April 2021

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

· Special Topic ·

- 2199 Consideration of novel model of holistic identification for compound preparation of new traditional Chinese medicine
ZHOU Yue-hua, LU Jin-cai, ZHOU Juan, SONG Zong-hua

· Chemical Constituents ·

- 2205 A new megastigmane glycoside from *Euphorbia sikkimensis* from Guizhou Province
DU Cai-xia, YI Ping, CHEN Jun-lei, XIONG Yan, ZHANG Jia-yu, HUANG Lie-jun, YUAN Chun-mao, HAO Xiao-jiang, GU Wei

- 2210 Alkaloid constituents from twigs and leaves of *Gardneria multiflora*
SANG Chen-chen, LI Zi-wei, PANG Xi, ZOU Xue-yi, YE Wen-cai, ZHANG Xiao-qi

- 2217 Synthesis and antitumor evaluation of aloe-emodin-indole hybrids
YUAN Feng-jiao, LI Xiao-xue, SHANG Hai, LI Ling-yu, SONG Yan-ling, ZOU Zhong-mei

- 2226 Identification of chemical constituents in Qiwei Tongbi Oral Liquid by HPLC-Q-TOF-MS/MS
TANG Ming, GAO Xia, GENG Ting, WANG Jia-jia, CHEN Xia-lin, CAO Liang, WANG Zhen-zhong, XIAO Wei

· Pharmaceutics and Technology ·

- 2237 Preparation, characterization and *in vitro* anti-tumor evaluation of curcumin-loaded star-shaped polyester nanoparticles
HONG Wei-yong, WANG Jin-ming, WANG Hai-ying, ZHOU Xue-feng, GUO Fang-yuan, YANG Gen-sheng

- 2247 *Astragali Radix* honey roasting process optimization based on response surface and weighted score
YANG Zhi-cheng, SUN Cai-hong, E Xiu-hui, HE Yi

- 2257 Decoction process optimization of *Astragali Radix-Carthami Flos* drug pair based on spherical symmetry design and genetic neural network
CHEN Guang-wei, JIN Wei-feng, XU Shou-chao, ZHANG Ling, WANG Yu, HE Yu

- 2267 Study on critical quality attributes of classical prescription substance benchmarks of Taohe Chengqi Decoction
GUAN Ya-ge, LUO Gan, GAO Xiao-yan, JIANG Yu-hang, LIU Yu-han, HAN Chen, MIAO Jia-yan, HAN Ni-na, ZHANG Zhi-qiang

- 2276 Preparation and pharmacokinetic evaluation of dauricine composite nanomicelles in rats
ZHANG Ju, WEI Dan, ZHANG Xue, ZHAO Jiang-li, JIA Dong-sheng

- 2285 Research on grade classification and high quality and superior effect of *Magnolia officinalis* decoction pieces based on “quality evaluation through morphological identification” and comprehensive evaluation index
JING Wen-guang, CHENG Xian-long, LIU An, MA Shuang-cheng, WEI Feng

- 2294 Response surface design and multi-objective optimization of *Poria cocos* cubes drying by vacuum combined inclined hot air
JU Hao-yu, ZHENG Zhi-an, ZHAO Shi-hao, ZHAO Hai-yan, ZHANG Wei-peng, GAO Zhen-jiang, XIAO Hong-wei

· Pharmacological Studies and Clinical Observations ·

- 2306 Effect of processing and compatibility of *Corydalis Rhizoma* and *Angelicae Dahuricae Radix* on contents of tetrahydropalmatine and imperatorin in Yuanhu Zhitong Recipe and its analgesic effect
YU Ding-rong, WENG Xiao-gang, WANG Ben-xiao, LI Li, LIU Ying, DU Mao-bo, CHEN Chang, WANG Li-fang, WANG Guo-hua, WANG Hai-lin

- 2313 Effect of *Polygalae Radix* extract on gut microbiota of depression rat
CHEN Qi-jun, YU Lan, ZHAO Wen-wen, XU Rong-rong, CHEN Xiao-qing, WU Xia, BA Yin-ying

- 2324 Antibacterial activity and antibiofilm effect of flavaspidic acid BB against gram-positive pathogenic bacteria
MO Zi-tong, WU Xiao-shi, YIN Chuan-ping, TANG Chun-ping, SHEN Zhi-bin

- 2331 Inhibitory effect of artesunate on malignant biological behavior of human colorectal cancer CCL229 cells through miR-21/PTEN pathway
GONG Hui-jie, TANG Jian-rong, YAO Lan-jie, FENG Peng-fei

- 2343 Protective effect and mechanism of nobiletin on hepatic ischemia reperfusion injury
YANG Chao-jun, WANG Yue-wu, ZHOU Kai-heng

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

April 28, 2021

Editor in Charge of English

QI Jing-wen

Editor in Charge of This Issue

CUI Yan-li

- 2351 Effect of *Ganoderma lucidum* polysaccharides on lung function and TLR4/NF- κ B pathway in sepsis rats with acute lung injury
HUANG Han, LI Feng-zhi, LI Yang, ZHANG Xiao-hong
- 2357 A preliminary study on promoting effect of frankincense and myrrh volatile oil on HaCaT cell uptake of alkaloids in Jiefen Powder and its mechanism
GAO Ling, HUANG Shi-yu, CHEN Li-hua, LI Ying-ying, GUAN Yong-mei, LIU Li-li, ZHU Wei-feng
- 2365 Mechanism study on ursolic acid induced apoptosis of colorectal cancer SW480 cells based on Hedgehog signaling pathway
ZHANG Meng, HE Man, SUN Qiang, CHEN Li, ZENG Sha, ZHAO Hui, YANG Han, LIU Mao-lun, REN Shan, XU Hai-bo
- 2374 Prediction of anti-cerebral ischemia-reperfusion injury effect of *L*-borneolum based on network pharmacology and experimental verification
FU Yin, YANG Xian-juan, WANG Jian, WANG Li-ying, WANG Jia-jun, GONG Dao-yin, DENG Qin-qing
- 2384 Mechanism of transmembrane transport of main medicinal components in Yuanhu Zhitong Prescription by OCTNs
SHI Lin, WANG Ze, CUI Tao, CI Xiao-yan, YAN Feng-ying, YI Xiu-lin, WU Wei-dang
- Medicinal Materials ·
- 2392 Transcriptomic data analysis of roots, stems, and leaves of *Styrax tonkinensis*
WANG Xiao-min, XU Hua-hua, ZHAN Ruo-ting, MA Xin-ye
- 2400 Study on multi-index components of *Ziziphi Spinosa Semen* and *Ziziphi mauritiana Semen* according to UPLC-MS/MS coupled with chemometrics
WU Bao-ai, YAN Feng, SHEN Chen-xi, MA Min, ZHANG Fu-sheng, DU Chen-hui, YAN Yan
- 2408 Comparison of chemical composition of *Paeoniae Alba Radix* in Bozhou with HPLC fingerprint and chemometrics in different growth years of same plant
XU Chao, LIN Jie, JIN Chuan-shan, LIU Jun-ling
- 2414 Determination of bioactive compounds belonging to flavonoids and phenolic acids in *Synotis solidaginea* by HPLC
LEI Xin, CAI Lu-yao, CHEN Rong, HUANG Shi-wei, ZHANG Jun, WU Heng, LONG Fei, LYU Guang-hua
- 2421 Study of field processing before peeling process of *Pinelliae Rhizoma* based on multi-index overall desirability
XIAO Kun-yu, LEI Lin, TAO Cai-xia, LIN Xiong, WANG Guang-zhong, LI Shui-qing, HUANG Bi-sheng, LIU Yan-ju
- Reviews ·
- 2427 Discussion on promotion and key issues of water control criteria for solid preparation of traditional Chinese medicine in *Chinese Pharmacopoeia*
DONG Qin, LIAO Wan, ZHANG Zhen, HE Yao, JIANG Yan-ping, YAN Xin, ZHU Zong-ping, HU Qiong-dan, PANG Lan, CHEN Jiao, LAI Wen-jing, ZHANG Xing, FU Chao-mei
- 2438 Research progress on newly discovered chemical constituents and pharmacological effects of *Glycyrrhizae Radix et Rhizoma*
LI Bao-lin, MA Jing-mei, TIAN Yu-rou, ZHANG Tie-jun, NIU Li-ying
- 2449 Research progress on chemical constituents, pharmacological effects and resource utilization modes of non-medicinal parts of *Paridis Rhizoma*
ZHAO Fei-ya, TAO Ai-en, GUAN Xin, QIAN Jin-fu, XIA Cong-long
- 2458 Analysis on risk control of traditional Chinese medicine essential oil in clinical application
XING Li-yuan, LI Hui-ting, WAN Na, HUANG Xiao-ying, YANG Fang-li, YANG Ming, WU Zhen-feng
- 2465 Research progress on sustained and controlled-release preparation of traditional Chinese medicine
DONG Yu-jie, JIANG Yuan-qi, CHEN Jin-peng, LIU Yi, ZHOU Fu-jun, TIAN Cheng-wang, CHEN Chang-qing
- 2473 Research progress on material and functional changes and fermentation mechanism of “fermented preparation” of traditional Chinese medicine
ZHANG Huan, GAO Sheng-mei, WANG Yue-fei, YANG Jing, CHAI Xin
- 2480 A comparative study on medicinal herbs from Malaysia and China
LAN Tai-jin, KONG Peng-yun, GUO Hong-wei, YUN Chen-xia, HOU Xiao-tao, HAO Er-wei, DU Zheng-cai, FENG Qiu-yu, ZHANG Yi, LIM Yang Mooi, DENG Jia-gang
- 2493 Prospects for research strategies of blood-activating and stasis-resolving TCM in treatment of hypertension based on mechanically sensitive ion channels
ZHANG Jia-xiang, ZHONG Ying, HUANG Na-na, KUANG Jiang-ying, LIU Chi-nian, SUN Rong
- 2502 Progress in clinical and pharmacological studies of Astragali Radix and its active components against sepsis
XIE Jing, GONG Yi-xin-yue, DING Li-sheng, LUO Pei, QING Lin-sen

《中草药》杂志荣获第二届中国出版政府奖



《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）



第二届国家期刊奖（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

★ 第三届国家期刊奖提名奖

★ 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！