

ISSN 1001-5302

CN 11-2272/R

特别关注：

核磁共振技术评价中药注射剂质量研究专题

Q K 2 2 0 9 0 2 8



中

国

中
药
杂
志

China Journal of Chinese Materia Medica
ZHONGGUO ZHONGYAO ZAZHI

2022年2月 第47卷 第3期

2022/3

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



中国药学会
CHINESE PHARMACEUTICAL ASSOCIATION





目 次

·核磁共振技术评价中药注射剂质量研究专题·

定量核磁共振技术及其在中药注射剂质量控制中的应用展望

潘坚扬,赵芳,李文竹,瞿海斌 (569)

基于定量核磁共振技术的人参皂苷对照品质量评价方法研究

潘坚扬,赵芳,李文竹,瞿海斌 (575)

基于¹H-NMR技术的参麦注射液指纹图谱研究

李文竹,杨嘉誉,赵芳,潘坚扬,瞿海斌 (581)

参麦注射液中人参总皂苷的¹H-qNMR定量方法研究

李文竹,杨嘉誉,赵芳,潘坚扬,瞿海斌 (587)

·综述·

代谢组学在中药炮制领域中的应用概述

隗鑫瞳,王杰,陈威,魏艳平,吕燕慧,祖先鹏,张秀云 (593)

基于递释系统改善中药精油稳定性及其在医药领域的应用研究

吴意,万娜,刘阳,廖嘉宝,张雨恬,伍振峰,杨明 (603)

我国中药材禁用农药残留现状、毒性及分析方法研究进展

孙新琪,安芳,鹿倩,李春雨,骆骄阳,杨美华 (611)

·资源与鉴定·

太子参14种真菌毒素同步检测方法的建立及污染状况研究

沈渊文,杨昌贵,江维克,张进强,袁青松,张红霞,刘勤,温倪婷,周涛 (628)

氯化苦熏蒸对土壤和三七生长发育的影响

李龙,普荣凤,李明华,代春艳,郑凯,金正强,莫臣丙,崔秀明,杨野 (635)

金银花中重金属污染分析及其健康风险评估

卜桐,于晓,张欣芮,李佳,王玲娜,张芳,张永清 (643)

·分子生药学·

创建酿酒酵母细胞工厂发酵生产人参皂苷 Rh₂

石玉松,王冬,李荣生,张学礼,戴住波 (651)

艾 *Artemisia argyi* 实时荧光定量 PCR 内参基因筛选

易小哲,邬兰,向丽,王梦月,陈士林,师玉华,刘霞 (659)

·制剂与炮制·

基于 Nrf2/HO-1 通路探讨炮制降低雷公藤心毒性的作用机制

宋玲玲,王君明,关月晨,王彦媚,弓明珠,李炳印 (668)

基于顶空进样 GC-MS 技术研究不同产地加工方法对川芎挥发性成分的影响

汤依娜,郭俊霞,李青苗,易进海 (676)

·化学·

钩藤中甾醇类化学成分研究

刘新宇, 侯杏子, 郭强, 屠鹏飞, 张庆英 (684)

UPLC-MS/MS 同时测定云实皮中 8 种成分的含量

李月婷, 刘慧, 蒙文莎, 周婷, 巩仔鹏, 黄勇, 郑林 (692)

·药理·

金匮肾气丸和六味地黄丸对小鼠脑海马核团蛋白质组学作用的比较研究

雷帆, 孙虹, 王卫华, 韦芳, 罗新春, 罗睿, 杜力军 (701)

牡丹皮多糖组分对糖尿病肾病大鼠肾脏损伤的保护作用研究

张萌, 杨立诚, 陈娟, 朱毛毛, 封亮, 贾晓斌 (713)

重楼皂苷 I 靶向 EGFR 影响人乳腺癌细胞增殖及凋亡的作用机制

张特, 张亮, 陆俊霏, 文君, 熊艺琏, 刘莹 (721)

基于肝星状细胞自噬和凋亡探讨莪术醇抗肝纤维化的作用机制

郑洋, 徐灿丽, 卢能源, 邱菲菲, 赵颖杰, 常玉线, 王佳慧, 赵铁建, 原鲜玲 (730)

化瘀通络中药单体对 VEGF 诱导的人脐静脉内皮细胞血管新生和炎症反应的影响

栾冰, 袁蓉, 信琪琪, 丛伟红, 宋坪 (737)

姜黄素通过激活 NRF2-DDAH-ADMA-NO 途径抑制内皮间质化改善心脏纤维化

陈骁, 陈长曦, 高瞻, 陈星星, 胡杰, 周浩 (745)

基于网络药理学和动物实验研究红花-葶苈子药对通过改善心脏微环境抑制心肌纤维化的机制

王咏, 王震, 王成, 马度芳 (753)

国医大师治疗水肿验案的核心方挖掘及其作用机制预测研究

孟祥飞, 张丰荣, 王波, 唐仕欢 (764)

基于网络药理学和实验验证分析黄芪-莪术-蚤休角药配伍抗结直肠癌的作用机制

梁研, 孙若岚, 刘夫艳, 刘甜甜, 关汉卿, 唐德才 (776)

基于网络药理学和实验验证分析鸡血藤治疗卵巢癌的分子机制

朱时纯, 蔡俊, 吴承玉, 程春松 (786)

·临床·

从“病-证-症”关联网络探索类风湿关节炎中医证候的生物内涵

陈文佳, 巩勋, 刘蔚翔, 李培豪, 姜泉, 刘维, 林娜, 张彦琼 (796)

疏血通注射液治疗进展性卒中有效性的 Meta 分析及 GRADE 证据质量评价

赵佳源, 王小玲, 王小芳, 袁荣荣, 张运克 (807)

近两年中医药干预脓毒症胃肠功能障碍临床试验结局指标的分析

王桂倩, 郑慧娟, 曹迎, 彭伟, 姚卫海 (819)

应用 TreeAge Pro 对芪冬颐心口服液治疗病毒性心肌炎(气阴两虚证)的药物经济学评价

魏瑞丽, 崔鑫, 谢雁鸣 (829)

·民族药·

基于 GC-MS 技术和网络药理学方法探讨紫丁香治疗心刺痛的作用机制

格根珠拉, 高雅, 斯特格乐, 阿拉坦朝鲁门, 邹巴拉胡, 图雅 (836)

·学术探讨·

2020 年版《中国药典》植物药材采收期标准情况分析及建议

蒋洁梅, 郭巧生, 金江群, 田婷, 刘杨, 王秋玲, 魏建和 (846)

本期责任编辑:孔晶晶



CONTENTS IN BRIEF

Quantitative NMR spectroscopy and its application in quality control of Chinese medicinal injection

PAN Jian-yang, ZHAO Fang, LI Wen-zhu, QU Hai-bin (569)

Quality evaluation of ginsenoside reference substances based on qNMR spectroscopy

PAN Jian-yang, ZHAO Fang, LI Wen-zhu, QU Hai-bin (575)

Fingerprint of Shenmai Injection based on ^1H -NMR technique

LI Wen-zhu, YANG Jia-yu, ZHAO Fang, PAN Jian-yang, QU Hai-bin (581)

^1H -qNMR quantification of total ginsenosides in Shenmai Injection

LI Wen-zhu, YANG Jia-yu, ZHAO Fang, PAN Jian-yang, QU Hai-bin (587)

Metabonomics and its application in Chinese medicine processing

WEI Xin-tong, WANG Jie, CHEN Wei, WEI Yan-ping, LYU Yan-hui, ZU Xian-peng, ZHANG Xiu-yun (593)

Stability improvement of Chinese medicinal essential oils based on delivery systems and their application in medical field

WU Yi, WAN Na, LIU Yang, LIAO Jia-bao, ZHANG Yu-tian, WU Zhen-feng, YANG Ming (603)

Residual status, toxicity, and analytical method of banned pesticides in traditional Chinese medicines

SUN Xin-qing, AN Fang, LU Qian, LI Chun-yu, LUO Jiao-yang, YANG Mei-hua (611)

Methods for synchronous detection of 14 mycotoxins in *Pseudostellariae Radix* and investigation on its contamination

SHEN Yuan-wen, YANG Chang-gui, JIANG Wei-ke, ZHANG Jin-qiang, YUAN Qing-song, ZHANG Hong-xia, LIU Xun, WEN Ni-ting, ZHOU Tao (628)

Effects of chloropicrin fumigation on soil and growth and development of *Panax notoginseng*

LI Long, PU Rong-feng, LI Ming-hua, DAI Chun-yan, ZHENG Kai, JIN Zheng-qiang, MO Chen-bing, CUI Xiu-ming, YANG Ye (635)

Analysis of heavy metal pollution in *Lonicerae Japonicae Flos* and its health risk assessment

BU Tong, YU Xiao, ZHANG Xin-rui, LI Jia, WANG Ling-na, ZHANG Fang, ZHANG Yong-qing (643)

Construction of cell factories for high production of ginsenoside Rh₂ in *Saccharomyces cerevisiae*

SHI Yu-song, WANG Dong, LI Rong-sheng, ZHANG Xue-li, DAI Zhu-bo (651)

Screening of reference genes for quantitative real-time PCR in *Artemisia argyi*

YI Xiao-zhe, WU Lan, XIANG Li, WANG Meng-yue, CHEN Shi-lin, SHI Yu-hua, LIU Xia (659)

Preliminary exploration of detoxification mechanism of processing methods on cardiotoxicity induced by radix *Tripterygium wilfordii* in mice via Nrf2/HO-1 pathway

SONG Ling-ling, WANG Jun-ming, GUAN Yue-chen, WANG Yan-mei, GONG Ming-zhu, LI Bing-yin (668)

Effects of different field processing methods on volatile components of *Chuanxiong Rhizoma*: an exploration based on head-space gas chromatography-mass spectrometry

TANG Yi-na, GUO Jun-xia, LI Qing-miao, YI Jin-hai (676)

Steroids from *Uncaria rhynchophylla*

LIU Xin-yu, HOU Xing-zi, GUO Qiang, TU Peng-fei, ZHANG Qing-ying (684)

Simultaneous determination of content of eight components in <i>Caesalpinia decapetala</i> by UPLC-MS/MS	
LI Yue-ting, LIU Hui, MENG Wen-sha, ZHOU Ting, GONG Zi-peng, HUANG Yong, ZHENG Lin	(692)
Comparative proteomic profiling of hippocampi in mice treated with Jingui Shenqi Pills and Liuwei Dihuang Pills	
LEI Fan, SUN Hong, WANG Wei-hua, WEI Fang, LUO Xin-chun, LUO Rui, DU Li-jun	(701)
Protective effects of Moutan Cortex polysaccharides components on renal injury in diabetic nephropathy rats	
ZHANG Meng, YANG Li-cheng, CHEN Juan, ZHU Mao-mao, FENG Liang, JIA Xiao-bin	(713)
Mechanism of polyphyllin I targeting EGFR to affect proliferation and apoptosis of human breast cancer cells	
ZHANG Te, ZHANG Liang, LU Jun-fei, WEN Jun, XIONG Yi-lian, LIU Ying	(721)
Study on mechanism of curcumol against liver fibrosis based on autophagy and apoptosis of hepatic stellate cells	
ZHENG Yang, XU Can-li, LU Neng-yuan, QIU Fei-fei, ZHAO Ying-jie, CHANG Yu-xian, WANG Jia-hui, ZHAO Tie-jian, YUAN Xian-ling	(730)
Effects of components in stasis-resolving and collateral-dredging Chinese herbal medicines on angiogenesis and inflammatory response of human umbilical vein endothelial cells induced by VEGF	
LUAN Bing, YUAN Rong, XIN Qi-qi, CONG Wei-hong, SONG Ping	(737)
Curcumin improves cardiac fibrosis by inhibiting endothelial-mesenchymal transition through NRF2-DDAH-ADMA-NO pathway	
CHEN Xiao, CHEN Chang-xi, GAO Zhan, CHEN Xing-xing, HU Jie, ZHOU Hao	(745)
Mechanism of Carthami Flos and Lepidii Semen drug pair in inhibition of myocardial fibrosis by improving cardiac microenvironment based on network pharmacology and animal experiment	
WANG Yong, WANG Zhen, WANG Cheng, MA Du-fang	(753)
Core prescriptions in treatment of edema by traditional Chinese medicine masters and mechanism prediction	
MENG Xiang-fei, ZHANG Feng-rong, WANG Bo, TANG Shi-huan	(764)
Anti-colorectal cancer mechanism of Astragali Radix-Curcumae Rhizoma-Paridis Rhizoma based on network pharmacology and experimental verification	
LIANG Yan, SUN Ruo-lan, LIU Fu-yan, LIU Tian-tian, GUAN Han-qing, TANG De-cai	(776)
Molecular mechanism of Spatholobi Caulis in treatment of ovarian cancer based on network pharmacology and experimental verification	
ZHU Shi-chun, CAI Jun, WU Cheng-yu, CHENG Chun-song	(786)
Biological connotation of four traditional Chinese medicine syndromes of rheumatoid arthritis based on "disease-syndrome-symptom" association network	
CHEN Wen-jia, GONG Xun, LIU Wei-xiang, LI Pei-hao, JIANG Quan, LIU Wei, LIN Na, ZHANG Yan-qiong	(796)
Meta-analysis and GRADE evaluation of Shuxuetong Injection in treatment of stroke in progressive	
ZHAO Jia-yuan, WANG Xiao-ling, WANG Xiao-fang, YUAN Rong-rong, ZHANG Yun-ke	(807)
Randomized controlled trial outcome indicators of traditional Chinese medicine for gastrointestinal dysfunction in sepsis in recent two years	
WANG Gui-qian, ZHENG Hui-juan, CAO Ying, PENG Wei, YAO Wei-hai	(819)
Pharmacoeconomic evaluation of Qidong Yixin Oral Liquid in treatment of viral myocarditis (Qi-Yin deficiency syndrome) with TreeAge Pro	
WEI Rui-li, CUI Xin, XIE Yan-ming	(829)
Mechanism of <i>Syringa oblata</i> in treating angina pectoris based on GC-MS and network pharmacology	
GEGEN Zhu-la, GAO Ya, SITE Ge-le, ALATAN Chaolu-men, TAI Bada-lahu, TU Ya	(836)
Analysis and suggestions on harvest period standards of plant medicinal materials in 2020 edition of <i>Chinese Pharmacopoeia</i>	
JIANG Jie-mei, GUO Qiao-sheng, JIN Jiang-qun, TIAN Ting, LIU Yang, WANG Qiu-ling, WEI Jian-he	(846)

ZHONGGUO ZHONGYAO ZAZHI

第47卷 第3期

Vol. 47 No. 3

2022/3

中
国
中
药
杂
志

CHINA JOURNAL OF CHINESE MATERIA MEDICA

主 编 张伯礼
主 管 中国科学技术协会
主 办 中国药学会
编辑出版 中国中药杂志编辑部
地 址 北京市东直门内南小街16号
邮 编 100700
电 话 (010) 64087589
网 址 <http://www.cjcm.com.cn>
邮 箱 cjcm2006@188.com
图 文 制 作 同方知网(北京)技术有限公司
印 刷 山西同方知网印刷有限公司
订 阅 发 行 同方知网(北京)技术有限公司
出 版 日 期 2022年2月1日
国际标准连续出版物号 ISSN 1001-5302
国内统一连续出版物号 CN 11-2272/R
国 内 定 价 每期50元, 全年1200元

Editor-in-Chief

ZHANG Bo-li

Responsible Institution

China Association for Science and Technology

Sponsored by

Chinese Pharmaceutical Association

Address: 16 Nanxiaojie, Inner Dongzhimen Beijing 100700, China

Tel: (010) 64087589

E-mail: cjcm2006@188.com

<http://www.cjcm.com.cn>

Graphics produced by

Tongfang Knowledge Network Technology Co., Ltd (Beijing)

Printed by

Shanxi Tongfang Knowledge Network Printing Co., Ltd.

Overseas Distributor

Tongfang Knowledge Network Technology Co., Ltd. (Beijing)

Publication Date

February 1, 2022

ISSN 1001-5302 CN 11-2272/R

ISSN 1001-5302



9 771001 530223

03>

国内定价：50.00元