

特别关注：

名医名方质量源于设计专题

针对中药缺乏优质处方和生产过程设计的问题，聚焦国医大师临床验方、医院制剂和经典名方，创建了一套名医名方质量源于设计（QbD）的新一代中药产品研制技术。同时，中药质量源于设计形成于制造工艺过程，本专题实践开拓了一条简洁高效、可靠的产品应用转化新途径。

China Journal of
Chinese Materia Medica

第44卷 第20期
Vol. 44 No. 20

2019/20

中国 中药 杂志



中国中文核心期刊
中国科技核心期刊
CSCD来源期刊



关注杂志官方微信



中国药学会
CHINESE PHARMACEUTICAL ASSOCIATION



目次

·专论·

药用大麻种质资源分类与研究策略

李秋实, 孟莹, 陈士林 (4309)

·名医名方质量源于设计专题·

QbD 理念的中药缓控释制剂的设计与研发研究

王逸飞, 朱振宇, 吴志生, 李文华 (4317)

QbD 理念的名医名方创研: 脱敏定喘颗粒工艺优化研究

吴志生, 石涵芬, 曾敬其, 张静, 廖源, 黄兴国, 郑燕飞, 王济, 王琦 (4322)

QbD 理念的经典名方研究: 四物汤加减方的提取工艺优化研究

黄兴国, 张静, 杜文慧, 江宗岳, 杨继, 吴志生 (4329)

QbD 理念的国医大师路志正名方研究: 美颜舒气方提取工艺及颗粒成型工艺优化研究

杨丽, 黄兴国, 路志正, 路京华, 江宗岳, 杨继, 吴志生 (4336)

QbD 理念的医院制剂创研: 妇科止痒洗剂全程工艺优化策略

曾敬其, 朱金媛, 雷乐庭, 林玲, 张杰, 吴志生, 朱振宇, 王逸飞, 李文华 (4342)

·中医药循征医学研究专题(二)·

康妇消炎栓治疗盆腔炎症性疾病临床应用专家共识

王连心, 侯丽辉, 谢雁鸣, 马堃, 孙塑伦, 金哲, 杜惠兰, 王东梅, 赵红, 刘雁峰, 汤玲, 舒宽勇, 张翠珍, 师伟, 詹思延, 刘建平, 陈薇, 陈耀龙, 代表编制组 (4350)

中医临床实践指南制修订中专家共识技术规范

廖星, 谢雁鸣, 张俊华, 刘清泉, 马融, 王耀献, 苗青, 张洪春, 李光熙, 马堃, 陈耀龙, 陈薇, 胡晶, 代表编制组 (4354)

中成药专家共识研制过程中证据现状分析和质量评价——以消痛贴膏为例

方赛男, 魏宝君, 唐传其, 温建民, 白雪, 杨思红, 关英杰, 谢雁鸣, 陈薇 (4360)

血栓通(冻干粉)注射液治疗冠心病不稳定性心绞痛随机对照试验的有效性及其安全性系统评价/Meta 分析

高阳, 吕健, 谢雁鸣, 孙梦华 (4366)

玉屏风颗粒治疗反复呼吸道感染的有效性和安全性系统评价与 Meta 分析

张利丹, 吕健, 谢雁鸣, 孙梦华 (4379)

喜炎平注射液治疗小儿急性支气管炎有效性和安全性的系统评价与 Meta 分析

孙梦华, 吕健, 章轶立, 王志飞, 杨靖, 谢雁鸣 (4387)

含何首乌制剂致药物性肝损伤患者 TCR 免疫组库特征研究

刘福梅, 谢雁鸣, 王志飞, 魏戎, 高阳, 赵泽 (4397)

·综述·

中药谱效关系的研究方法及应用进展

张小艺, 刘久石, 高石曼, 陈荣昌, 齐耀东, 张本刚, 刘海涛, 肖培根 (4405)

果蝇中衰老相关 3 条重要信号通路及抗衰老中药筛选的研究进展

乔玉琪, 张福生, 吴楚璇, 秦雪梅, 张建琴 (4412)

•资源与鉴定•

基于 DNA 条形码、UPLC 及色度学方法鉴定与评价化橘红	
芦海生, 李婷, 姜丹, 孙宇峰, 常晓茜, 胡小松, 刘春生	(4419)
外源甲基睾酮对自然越冬蚂蟥生长及性腺发育的影响	
芦鑫, 郭巧生, 史红专, 王帅, 陈盼盼, 张会宁, 严晓芦	(4426)

•分子生药学•

地龙饮片表面真菌的多样性研究	
孟杰亲, 李红霞, 罗雪梅, 陈秀芬, 刘春生, 杨瑶琨	(4433)
重庆石柱黄连根腐病病根可培养真菌多样性研究	
伍晓丽, 刘飞, 陈大霞, 王钰, 李隆云	(4439)
不同成熟阶段麝香中微生物区系变化规律的研究	
竭航, 赵贵军, 曾德军, 封孝兰, 张承露, 梁正杰, 雷美艳	(4448)

•制剂与炮制•

基于因子分析的四物汤补血作用多维指标药效学研究	
李杰, 江华娟, 何瑶, 石金凤, 周菲, 傅超美	(4454)
天麻饮片传统性状与内在品质相关性研究	
李平, 许金国, 季德, 毛春芹, 张科卫, 宋熾, 陆兔林	(4460)
不同方法软化切制后的黄芩饮片颜色与 5 种黄酮类成分含量的相关性研究	
柴冲冲, 毛民, 袁金凤, 彭诗涛, 王靖越, 刘娜, 魏嘉, 李欣欣, 张凯, 李飞	(4467)

•化学•

黄三七中1个新的双氧螺环型环菠萝蜜烷三萜	
张思炎, 方祝君, 王燕兰, 周长新, 莫建霞, 甘礼社	(4476)
山豆根中芳香类活性成分研究	
贺浩珂, 孙华, 杨盛理, 田梦茵, 张丹, 王素娟	(4481)
基于 UPLC-LTQ-Orbitrap 高分辨质谱的地骨皮化学成分分析	
陈晓鹤, 苏磊, 蒋丽娟, 张薇, 姜艳艳, 刘斌	(4486)
HPLC-PDA 指纹图谱结合 UFLC-Q-TOF-MS 定性鉴别评价连翘药材质量	
沈菲, 邹立思, 文红梅, 崔小兵, 于生, 朱华旭, 李超, 田刚, 邵建国	(4495)

•药理•

汉黄芩苷调控 NLRP3/SOCS3-TLR4-NF-κB 炎症通路改善肝细胞胰岛素抵抗的研究	
朱水兰, 吴青华, 涂琚	(4504)
基于 UPLC-Q-TOF-MS 技术的丹参川芎干预缺血性脑卒中的脑脂质组学研究	
张英丰, 韦园诗, 黄星星, 朱黎霞	(4511)
基于 microRNAs 与炎症因子相关性探讨丹蛭降糖胶囊对 GK 大鼠糖尿病大血管病变治疗作用机制	
尤良震, 于东东, 黄万秋, 尹昀东, 叶树, 方朝晖	(4519)

•药代动力学•

海南崖豆藤提取物 HN-1的体内外代谢研究	
豆彩霞, 邱翔, 万丽	(4529)

•民族药•

青藏高原藏族药资源可持续发展研究	
索南邓登, 陈卫东, 林鹏程	(4538)

本期责任编辑:吕冬梅



CONTENTS IN BRIEF

A new *Cannabis* germplasm classification system and research strategies of non-psychoactive medicinal cannabis
LI Qiu-shi, MENG Ying, CHEN Shi-lin (4309)

Design and development of sustained and controlled release preparations in traditional Chinese medicine based on quality by design(QbD)
WANG Yi-fei, ZHU Zhen-yu, WU Zhi-sheng, LI Wen-hua (4317)

Study on famous prescription of prestigious traditional Chinese medicine based on QbD concept: optimization of extraction process and granule forming process of Tuomin Dingchuan Prescription
WU Zhi-sheng, SHI Han-fen, ZENG Jing-qi, ZHANG Jing, LIAO Yuan, HUANG Xing-guo, ZHENG Yan-fei, WANG Ji, WANG Qi (4322)

Research of classical prescription based on QbD concept: optimization of extraction process for modified Siwu Decoction
HUANG Xing-guo, ZHANG Jing, DU Wen-hui, JIANG Zong-yue, YANG Ji, WU Zhi-sheng (4329)

Study on famous prescription of prestigious traditional Chinese medicine master Lu Zhizheng based on QbD concept: optimization of extraction process and granule forming process of Meiyan Shuqi Prescription
YANG Li, HUANG Xing-guo, LU Zhi-zheng, LU Jing-hua, JIANG Zong-yue, YANG Ji, WU Zhi-sheng (4336)

Research of hospital preparations based on QbD concept: whole process optimization strategy of gynecological antipruritic lotion
ZENG Jing-qi, ZHU Jin-yuan, LEI Le-ting, LIN Ling, ZHANG Jie, WU Zhi-sheng, ZHU Zhen-yu, WANG Yi-fei, LI Wen-hua (4342)

Expert consensus statement on Kangfu Xiaoyan Suppository in treatment of pelvic inflammatory in clinical practice
WANG Lian-xin, HOU Li-hui, XIE Yan-ming, MA Kun, SUN Su-lun, JIN Zhe, DU Hui-lan, WANG Dong-mei, ZHAO Hong, LIU Yan-feng, TANG Ling, SHU Kuan-yong, ZHANG Cui-zhen, SHI Wei, ZHAN Si-yan, LIU Jian-ping, CHEN Wei, CHEN Yao-long, represented the developing group (4350)

Technical specification of expert consensus statement in developing clinical practice guidelines of traditional Chinese medicine
LIAO Xing, XIE Yan-ming, ZHANG Jun-hua, LIU Qing-quan, MA Rong, WANG Yao-xian, MIAO Qing, ZHANG Hong-chun, LI Guang-xi, MA Kun, CHEN Yao-long, CHEN Wei, HU Jing, represented the developing group (4354)

Bibliometric analysis and quality assessment of clinical evidence on Xiaotong Tiegao
FANG Sai-nan, WEI Bao-jun, TANG Chuan-qi, WEN Jian-min, BAI Xue, YANG Si-hong, GUAN Ying-jie, XIE Yan-ming, CHEN Wei (4360)

Effectiveness and safety of Xueshuantong Injection in treatment of unstable angina pectoris: a systematic review and Meta-analysis of randomized controlled trials
GAO Yang, LYU Jian, XIE Yan-ming, SUN Meng-hua (4366)

Systematic evaluation and Meta-analysis on effectiveness and safety of Yupingfeng Granules on recurrent respiratory tract infection
ZHANG Li-dan, LYU Jian, XIE Yan-ming, SUN Meng-hua (4379)

Systematic evaluation and Meta-analysis on effectiveness and safety of Xiyanping Injection in treatment of acute bronchitis in children
SUN Meng-hua, LYU Jian, ZHANG Yi-li, WANG Zhi-fei, YANG Jing, XIE Yan-ming (4387)

TCR immune repertoire characteristics of patients with drug-induced liver injury due to *Polygonum multiflorum* preparations
LIU Fu-mei, XIE Yan-ming, WANG Zhi-fei, WEI Xu, GAO Yang, ZHAO Ze (4397)

Research methods and applications progress on spectrum-effect relationships in study of traditional Chinese medicine	
ZHANG Xiao-yi, LIU Jiu-shi, GAO Shi-man, CHEN Rong-chang, QI Yao-dong, ZHANG Ben-gang, LIU Hai-tao, XIAO Pei-gen	(4405)
Advances in three important signaling pathways related to aging in <i>Drosophila melanogaster</i> and screening of anti-aging traditional Chinese medicine	
QIAO Yu-qi, ZHANG Fu-sheng, WU Chu-xuan, QIN Xue-mei, ZHANG Jian-qin	(4412)
Identification and evaluation of <i>Citrus grandis</i> based on DNA barcode, UPLC and chromaticity method	
LU Hai-sheng, LI Ting, JIANG Dan, SUN Yu-feng, CHANG Xiao-xi, HU Xiao-song, LIU Chun-sheng	(4419)
Effects of MT on growth and gonad development of natural overwintering <i>Whitmania pigra</i>	
LU Xin, GUO Qiao-sheng, SHI Hong-zhuan, WANG Shuai, CHEN Pan-pan, ZHANG Hui-ning, YAN Xiao-lu	(4426)
Diversity of fungi on surface of <i>Pheretima</i>	
MENG Jie-qin, LI Hong-xia, LUO Xue-mei, CHEN Xiu-fen, LIU Chun-sheng, YANG Yao-jun	(4433)
Diversity of culturable fungi isolated from <i>Coptis chinensis</i> rot root in Shizhu city of Chongqing	
WU Xiao-li, LIU Fei, CHEN Da-xia, WANG Yu, LI Long-yun	(4439)
Microbial diversity of musk across its maturation process in forest musk deer	
JIE Hang, ZHAO Gui-jun, ZENG De-jun, FENG Xiao-lan, ZHANG Cheng-lu, LIANG Zheng-jie, LEI Mei-yan	(4448)
Pharmacodynamics of Siwu Decoction on blood supply based on factor analysis	
LI Jie, JIANG Hua-juan, HE Yao, SHI Jin-feng, ZHOU Fei, FU Chao-mei	(4454)
Correlation between appearance characteristics and intrinsic quality of <i>Gastrodiae Rhizoma</i>	
LI Ping, XU Jin-guo, JI De, MAO Chun-qin, ZHANG Ke-wei, SONG Yan, LU Tu-lin	(4460)
Correlation between color of <i>Scutellariae Radix</i> pieces and content of five flavonoids after softening and cutting by different methods	
CHAI Chong-chong, MAO Min, YUAN Jin-feng, PENG Shi-tao, WANG Jing-yue, LIU Na, WEI Jia, LI Xin-xin, ZHANG Kai, LI Fei	(4467)
A new spirocyclic cycloartane triterpenoid from <i>Souliea vaginata</i>	
ZHANG Si-yan, FANG Zhu-jun, WANG Yan-lan, ZHOU Chang-xin, MO Jian-xia, GAN Li-she	(4476)
Studies on active aromatic constituents from rhizomes of <i>Sophora tonkinensis</i>	
HE Hao-ke, SUN Hua, YANG Sheng-li, TIAN Meng-yin, ZHANG Dan, WANG Su-juan	(4481)
Identification of compounds in <i>Lycii Cortex</i> by UPLC-LTQ-Orbitrap-MS	
CHEN Xiao-he, SU-Lei, JIANG Li-juan, ZHANG Wei, JIANG Yan-yan, LIU Bin	(4486)
Qualitative evaluation of <i>Forsythia suspensa</i> by HPLC-PDA fingerprint combined with UFLC-Q-TOF-MS qualitative identification	
SHEN Fei, ZOU Li-si, WEN Hong-mei, CUI Xiao-bing, YU Sheng, ZHU Hua-xu, LI Chao, TIAN Gang, SHAO Jian-guo	(4495)
Study on regulation of NLRP3/SOCS3-TLR4-NF-κB inflammatory pathway by wogonoside to improve hepatic insulin resistance	
ZHU Shui-lan, WU Qing-hua, TU Jun	(4504)
Brain lipidomics of intervention effect of <i>Salviae Miltiorrhizae Radix et Rhizoma</i> and <i>Chuanxiong Rhizoma</i> on ischemic stroke based on UPLC-Q-TOF-MS technique	
ZHANG Ying-feng, WEI Yuan-shi, HUANG Xing-xing, ZHU Li-xia	(4511)
Mechanism of Danzhi Jiangtang Capsules in treatment of diabetic macrovascular disease in GK rats based on correlation between microRNAs and inflammatory factors	
YOU Liang-zhen, YU Dong-dong, HUANG Wan-qiu, YIN Yun-dong, YE Shu, FANG Zhao-hui	(4519)
Investigation of metabolism of HN-1 isolated from <i>Millettia pachyloba</i> in vivo and in vitro	
DOU Cai-xia, QIU Xiang, WAN Li	(4529)
Study on sustainable development of Tibetan medicine resources on Qinghai-Tibet Plateau	
SUONAN Deng-deng, CHEN Wei-dong, LIN Peng-cheng	(4538)

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.cjcmm.com.cn>
邮 箱 cjcmm2006@188.com
图文制作 同方知网（北京）技术有限公司
封面设计 北京午未创意文化传媒有限公司
印 刷 山西同方知网印刷有限公司
国内外发行 同方知网（北京）技术有限公司
订 阅 同方知网（北京）技术有限公司
出版日期 2019年10月15日
标准刊号 ISSN 1001-5302 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: cjcmm2006@188.com

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

Graphics produced by

Tongfang Kownledge 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

October 15, 2019

ISSN 1001-5302 CN 11-2272/R

ZHONGGUO ZHONGYAO ZAZHI
第44卷 第20期
Vol. 44 No. 20
2019/20

中国
中药杂志
CHINA JOURNAL OF CHINESE MATERIA MEDICA



国内定价：50.00元