

特别关注：

## 冬虫夏草研究专题

冬虫夏草为我国传统名贵中药材，具有补肾益肺、止血化痰的功效。该专题介绍了采用DNA条形码、液相色谱和二维电泳技术对冬虫夏草质量评价的研究内容，建立了科学可靠的冬虫夏草DNA条形码真伪鉴别方法和快速综合的冬虫夏草液相分析方法，同时通过液相和二维电泳的方法揭示了不同干燥方式对冬虫夏草核苷类和蛋白类成分的影响，研究内容为冬虫夏草干燥工艺和质量评价的提升提供了支撑。

中  
国  
中  
药  
杂  
志

China Journal of  
Chinese Materia Medica

第44卷 第10期  
Vol. 44 No. 10

2019/10



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

### ·冬虫夏草研究专题·

- 冬虫夏草及虫草类产品 DNA 条形码鉴定研究  
苏燕燕, 李文佳, 杨俐, 丁丹丹, 向丽 ..... (1965)
- 基于多指标成分含量的冬虫夏草冻干和晒干法比较  
昝珂, 赵磊, 过立农, 郑健, 马双成 ..... (1974)
- 在线梯度提取-液相色谱法分析冬虫夏草中的化学成分  
李春红, 黄琦, 钱正明, 李文佳, 周妙霞 ..... (1978)
- 不同干燥条件对冬虫夏草蛋白质成分的影响  
钱正明, 樊娇娇, 李春红, 杨丰庆, 李文佳 ..... (1983)

### ·综述·

- 黄精属植物化学成分及药理活性研究进展  
张娇, 王元忠, 杨维泽, 杨美权, 张金渝 ..... (1989)

### ·资源与鉴定·

- 酸枣仁加工过程中黄曲霉毒素及污染真菌调查  
张西梅, 高微微, 郝燕红, 焦晓林, 郭宝林, 薛亚林, 白建廷, 雷振宏 ..... (2009)
- 生防细菌 NJ13 与化学农药复配对人参镰刀菌根腐病菌的抑制作用  
陈长卿, 闫东, 姜云, 许朋, 褚逸轩, 高洁 ..... (2015)
- 干旱胁迫诱导半夏倒苗的细胞程序性死亡研究  
黄文静, 孙晓春, 李铂, 王楠, 岳正刚, 张永强, 赵振宇, 唐志书 ..... (2020)
- 白木香重要害虫黄野螟的触角感器超微结构研究  
乔海莉, 陆鹏飞, 刘赛, 徐常青, 郭昆, 徐荣, 陈君 ..... (2026)
- 多花黄精组织培养体系的研究  
何艳, 朱玉球, 肖波, 付顺华, 斯金平 ..... (2032)

### ·分子生药学·

- 丹参类黄酮3-O 糖基转移酶基因 SmUF3GT 的克隆、亚细胞定位及时空表达分析  
李红艳, 刘景玲, 金伟波, 梁宗锁 ..... (2038)
- 产哈巴苷和哈巴俄苷玄参内生真菌的分离及鉴定  
沈湛云, 朱波, 张泉龙, 秦路平 ..... (2046)

### ·制剂与炮制·

- 不同产地葛根饮片的 UPLC 指纹图谱结合多成分含量测定研究  
黄紫炎, 沈钱能, 李平, 苏联麟, 陈丽红, 陆免林, 毛春芹 ..... (2051)
- 复方丹参片中酚酸类成分一测多评方法的建立及在质量传递规律中的应用  
李紫阳, 匡艳辉, 冯伟红, 李祥激, 张东, 朱晶晶, 王智民, 王德勤 ..... (2059)

## 牡丹皮配方颗粒的质量评价体系研究

杜新刚, 姜慧洁, 张慧, 颜继忠 ..... (2065)

## 靶向及 pH 敏感仿脂蛋白结构纳米载体运载紫杉醇的体内抗肿瘤研究

陈聪慧, 刘孟瑜 ..... (2072)

## 盐补骨脂饮片标准汤剂分析研究

李祥澈, 吕新林, 李紫阳, 蒋彤, 张永欣, 朱晶晶, 史辑 ..... (2078)

## 基于寒热证模型大鼠研究五倍子发酵百药煎的药性变化和归属

王瑞生, 张振凌, 陈祎甜, 夏云岭, 林秀敏, 张江山, 闫梦真 ..... (2084)

## ·化学·

### 海洋放线菌 *Streptomyces* sp. MDW-06 中 1 个新的聚酮类化合物

王聪, 邱子言, 雷福厚, 谭学才, 姜明国, 李浩, 李小燕 ..... (2090)

### 小黄皮枝叶中化学成分研究

胡时, 郭嘉铭, 张文浩, 张明明, 刘艳萍, 付艳辉 ..... (2096)

### 决明子萘骈吡喃酮类对照提取物中主要化学成分 UPLC-MS<sup>n</sup> 分析及定值研究

王路, 周德勇, 蒋丽娟, 张金华, 张薇, 姜艳艳, 刘斌 ..... (2102)

### 基于 UPLC-LTQ-Orbitrap-MS 及网络药理学的复方黄柏液治疗糖尿病足活性成分研究

李欣, 王欢欢, 许静, 唐力英, 李德凤, 张毅, 贾蔷, 杨洪军, 吴宏伟, 张晶晶 ..... (2110)

## ·药理·

### 补骨脂素和异补骨脂素下调 NF-κB 活性改善 LO2 细胞脂代谢紊乱的机制研究

周俪姗, 鄢素琪, 熊小丽, 黄娟, 秦欢, 张领领, 张林利, 汤建桥 ..... (2118)

### 基于网络药理学探索生化汤治疗小腹痛的药理机制

王煊, 于河, 白辰, 徐竞男, 甄建华, 谷晓红 ..... (2124)

### 甘草调和大黄“泻下攻积”作用的量-毒-效关系研究

陈艳琰, 曹玉洁, 唐于平, 陈嘉倩, 乐世俊, 李佳佳, 张赛, 周桂生, 段金廒 ..... (2131)

## ·药代动力学·

### 基于代谢组学研究熟三七发挥补血作用的机制

张银, 费倩倩, 汪晶, 朱粉霞, 陈彦, 汤道权, 陈斌 ..... (2139)

### 麻黄汤有效组分配伍在发热大鼠体内的药动学研究

万嘉洋, 田彦芳, 万海同, 虞立, 周惠芬, 李畅, 何昱 ..... (2149)

### UPLC-Q-TOF-MS/MS 分析荭草花有效组分在大鼠血清和尿液中的原型成分及其代谢产物

陈思颖, 夏涛, 郑林, 李月婷, 巩仔鹏, 黄勇, 李勇军, 赵平 ..... (2156)

### 基于在体肠灌流模型的四妙勇安汤活性成分拆方配伍研究

于潇, 迟森森, 焦其树, 蒋丽娟, 王卫华, 姜艳艳, 刘斌 ..... (2163)

## ·临床·

### 三子养亲汤加味治疗慢性阻塞性肺疾病急性加重期的系统评价

郑文江, 彭紫荆, 陈淑婉, 洪榆, 黄慧婷, 廖慧丽, 刘小虹 ..... (2171)

### 3 种中药注射剂治疗慢性阻塞性肺疾病急性加重期的网状 Meta 分析

朱秀影, 谢惠芳, 韩海, 高峰 ..... (2179)

本期责任编辑: 张宁宁



## CONTENTS IN BRIEF

### Rapid identification of *Cordyceps* and its products using DNA barcoding method

SU Yan-yan, LI Wen-jia, YANG Li, DING Dan-dan, XIANG Li ..... (1965)

### Comparative study for freeze-drying and sun-drying on multi-index ingredients of *Cordyceps sinensis*

ZAN Ke, ZHAO Lei, GUO Li-nong, ZHENG Jian, MA Shuang-cheng ..... (1974)

### Analysis of chemical components in *Cordyceps* by online gradient extraction-HPLC

LI Chun-hong, HUANG Qi, QIAN Zheng-ming, LI Wen-jia, ZHOU Miao-xia ..... (1978)

### Effects of different drying conditions on protein in *Cordyceps*

QIAN Zheng-ming, FAN Jiao-jiao, LI Chun-hong, YANG Feng-qing, LI Wen-jia ..... (1983)

### Research progress in chemical constituents in plants of *Polygonatum* and their pharmacological effects

ZHANG Jiao, WANG Yuan-zhong, YANG Wei-ze, YANG Mei-quan, ZHANG Jin-yu ..... (1989)

### Investigation of aflatoxins, mycobiota, and toxigenic fungi during post-harvest handling of *Ziziphi Spinosae Semen*

ZHANG Xi-mei, GAO Wei-wei, HAO Yan-hong, JIAO Xiao-lin, GUO Bao-lin, XUE Ya-lin, BAI Jian-ting, LEI Zhen-hong ..... (2009)

### Inhibition effect of biocontrol bacteria NJ13 and its mixture with chemical fungicides against ginseng root rot caused by *Fusarium solani*

CHEN Chang-qing, YAN Dong, JIANG Yun, XU Peng, CHU Yi-xuan, GAO Jie ..... (2015)

### Programmed cell death induced by drought stress in sprout tumble of *Pinellia ternata*

HUANG Wen-jing, SUN Xiao-chun, LI Bo, WANG Nan, YUE Zheng-gang, ZHANG Yong-qiang, ZHAO Zhen-yu, TANG Zhi-shu ..... (2020)

### Ultrastructure observations on antennal sensilla of *Heortia vitessoides* the most serious pest of *Aquilaria sinensis*

QIAO Hai-li, LU Peng-fei, LIU Sai, XU Chang-qing, GUO Kun, XU Rong, CHEN Jun ..... (2026)

### Study on tissue culture system of *Polygonatum cyrtonema*

HE Yan, ZHU Yu-qi, XIAO Bo, FU Shun-hua, SI Jin-ping ..... (2032)

### Cloning, subcellular localization and spatio-temporal expression analysis of a flavonoid 3-O-glucosyltransferase gene (*SmUF3GT*) in *Salvia miltiorrhiza*

LI Hong-yan, LIU Jing-ling, JIN Wei-bo, LIANG Zong-suo ..... (2038)

### Isolation and identification of endophytic fungi producing harpagoside and harpagide from *Scrophularia ningpoensis*

SHEN Zhan-yun, ZHU Bo, ZHANG Quan-long, QIN Lu-ping ..... (2046)

### Quality research of *Puerariae Lobatae Radix* from different habitats with UPLC fingerprint and determination of multi-component content

HUANG Zi-yan, SHEN Qian-neng, LI Ping, SU Lian-lin, CHEN Li-hong, LU Tu-lin, MAO Chun-qin ..... (2051)

### Establishment of "quantitative analysis of multi-components by single marker" method for phenolic acids in compound Danshen Tablets and its application in mass transfer law

LI Zi-yang, KUANG Yan-hui, FENG Wei-hong, LI Xiang-wei, ZHANG Dong, ZHU Jing-jing, WANG Zhi-min, WANG De-qin ..... (2059)

<b>Quality evaluation of Moutan Cortex Formula Granules</b>	
DU Xin-gang, JIANG Hui-jie, ZHANG Hui, YAN Ji-zhong .....	(2065)
<b>In vivo anti-tumor activity of tumor-targeting pH-sensitive lipoprotein-mimic nanocarrier with paclitaxel loaded</b>	
CHEN Cong-hui, LIU Meng-yu .....	(2072)
<b>Analysis of standard decoction of salt-processed Psoraleae Fructus</b>	
LI Xiang-wei, LYU Xin-lin, LI Zi-yang, JIANG Tong, ZHANG Yong-xin, ZHU Jing-jing, SHI Ji .....	(2078)
<b>Transformation and attribution of drug properties in Galla Chinesis fermented Baiyaojian based on cold and heat syndrome rats</b>	
WANG Rui-sheng, ZHANG Zhen-ling, CHEN Yi-tian, XIA Yun-ling, LIN Xiu-min, ZHANG Jiang-shan, YAN Meng-zhen .....	(2084)
<b>A new polyketide from marine-derived <i>Streptomyces</i> sp. MDW-06</b>	
WANG Cong, QIU Zi-yan, LEI Fu-hou, TAN Xue-cai, JIANG Ming-guo, LI Hao, LI Xiao-yan .....	(2090)
<b>Chemical constituents from stems and leaves of <i>Clausena emarginata</i></b>	
HU Shi, GUO Jia-ming, ZHANG Wen-hao, ZHANG Ming-ming, LIU Yan-ping, FU Yan-hui .....	(2096)
<b>UPLC-MS" analysis and certification evaluation of main chemical composition in naphthopyrone reference extract of Cassiae Semen</b>	
WANG Lu, ZHOU De-yong, JIANG Li-juan, ZHANG Jin-hua, ZHANG Wei, JIANG Yan-yan, LIU Bin .....	(2102)
<b>Study on active components of Fufang Huangbai Ye for diabetic foot treatment by UPLC-LTQ-Orbitrap-MS and network pharmacology</b>	
LI Xin, WANG Huan-huan, XU Jing, TANG Li-ying, LI Deng-feng, ZHANG Yi, JIA Qiang, YANG Hong-jun, WU Hong-wei, ZHANG Jing-jing .....	(2110)
<b>Psoralen and isopsoralen improve lipid metabolism disorder via inhibition of NF-κB activation in LO2 cells</b>	
ZHOU Li-shan, YAN Su-qi, XIONG Xiao-li, HUANG Juan, QIN Huan, ZHANG Ling-ling, ZHANG Lin-li, TANG Jian-qiao .....	(2118)
<b>Pharmacological mechanism of Shenghua Decoction in treatment of abdominal pain based on network pharmacology</b>	
WANG Xuan, YU He, BAI Chen, XU Jing-nan, ZHEN Jian-hua, GU Xiao-hong .....	(2124)
<b>Dose-toxicity-effect relationship between licorice combined with rhubarb in purgation</b>	
CHEN Yan-yan, CAO Yu-jie, TANG Yu-ping, CHEN Jia-qian, YUE Shi-jun, LI Jia-jia, ZHANG Sai, ZHOU Gui-sheng, DUAN Jin-ao .....	(2131)
<b>Study on blood enrichment mechanism of steamed notoginseng based on metabolomics method</b>	
ZHANG Yin, FEI Qian-qian, WANG Jing, ZHU Fen-xia, CHEN Yan, TANG Dao-quan, CHEN Bin .....	(2139)
<b>Pharmacokinetics of compatible effective components of Mahuang Decoction in febrile rats</b>	
WAN Jia-yang, TIAN Yan-fang, WAN Hai-tong, YU Li, ZHOU Hui-fen, LI Chang, HE Yu .....	(2149)
<b>UPLC-Q-TOF-MS/MS analysis on prototypes components and metabolites of effective fractions of <i>Polygonum orientale</i> flower in rat serum and urine</b>	
CHEN Si-ying, XIA Tao, ZHENG Lin, LI Yue-ting, GONG Zi-peng, HUANG Yong, LI Yong-jun, ZHAO Ping .....	(2156)
<b>Study on compatibility of active ingredients of Simiao Yongan Decoction in rats with <i>in situ</i> single-pass intestinal perfusion model</b>	
YU Xiao, CHI Sen-sen, JIAO Qi-shu, JIANG Li-juan, WANG Wei-hua, JIANG Yan-yan, LIU Bin .....	(2163)
<b>Systematically review of modified Sanzi Yangqin Decoction for treating acute exacerbation of chronic obstructive pulmonary disease</b>	
ZHENG Wen-jiang, PENG Zi-jing, CHEN Shu-wan, HONG Yu, HUANG Hui-ting, LIAO Hui-li, LIU Xiao-hong .....	(2171)
<b>Network Meta-analysis of 3 kinds of Chinese medicine injections in treatment of acute exacerbations of chronic obstructive pulmonary disease</b>	
ZHU Xiu-ying, XIE Hui-fang, HAN Hai, GAO Feng .....	(2179)

China Journal of  
Chinese Materia Medica

第44卷 第10期

Vol. 44 No. 10

2019/10

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.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5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](mailto:cjcmm2006@188.com)

<http://www.cjcmm.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

May 15, 2019

ISSN 1001-5302 CN 11-2272/R

ISSN 1001-5302



国内定价：50.00元