



HINA JOURNAL OF

CHINESE MATERIA MEDICA

中国中药杂志

ISSN 1001-5302

CN 11-2272/R

中国中药杂志

二〇一四年五月

第十期 (1749~1950)

中国药学会



中国药学会系列期刊



中国中文核心期刊
中国科技核心期刊
中国百强报刊
中国百种杰出学术期刊

ISSN 1001-5302



9 771001 530087

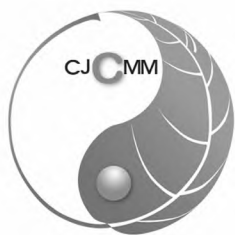


中国药学会

CHINESE PHARMACEUTICAL ASSOCIATION

10
2014

第39卷 第10期 Vol. 39 Issue 10



中国中药杂志

Zhongguo Zhongyao Zazhi

半月刊

1955 年 7 月创刊

第 39 卷

第 10 期

2014 年 5 月 15 日出版

主 编 王永炎

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)64045830(广告部)

传真 (010)84022522

网址 www.中国中药杂志.com

www.cjmm.com.cn

E-mail cjmm2006@188.com

广告代理 数源汇通(北京)医药科技有限公司

地址:北京市海淀区西三环北路

11 号海通时代商务中心

A1 座

电话:(010)68469867-6003

传真:(010)68468457

邮箱:enyxyx@163.com

印 刷 北京华正印刷有限公司

国内发行 北京市报刊发行局

国外发行 北京国际图书贸易总公司

100044,北京 399 信箱

订 阅 全国各地邮电局

国内邮发代号 2-45

国外邮发代号 SM399

出版日期 2014 年 5 月 15 日

标准刊号 ISSN 1001-5302

CN 11-2272/R

广告经营许可证 京东工商广字第 0029 号

国内定价 每期 40 元,全年 960 元

目 次

· 综述 ·

基于数理统计方法学的中药复方配伍研究进展

麦蓝尹,李怡萱,陈勇,谢臻,李杰,钟明玉…………… (1749)

TRPV1 与中药止痛作用研究进展

刘晓丽,吕翠,张文生…………… (1757)

· 资源与鉴定 ·

环境因子对黄芩光合生理和黄酮成分影响研究

张永刚,韩梅,姜雪,赵胜楠,杨利民…………… (1761)

白木香肉桂酸-4-羟基化酶(C4H)基因的克隆及表达分析

梁良,韩晓敏,张争,郭庆梅,徐艳红,刘娟,
廖永翠…………… (1767)

钾肥和水分对菘蓝幼苗生长和生理特性的影响

杨娟娟,郭巧生,陈苏丹,邓乔华…………… (1772)

高分辨率影像在野生药用植物宏观监测中的应用评价

——以罗布麻为例

娜仁花,郑江华,郭宝林,石明辉,森巴提,孙志群,
孙成忠,李晓瑾,贾晓光…………… (1777)

人参内生细菌 NJ13 在宿主体内定殖特性及对人参黑斑病的

防治效果

陈长卿,李桐,李欣莲,姜云,田磊,许鹏…………… (1782)

脱落酸对铁皮石斛 *Ty1-copia* 类反转录转座子转录活性的影响

李聪,斯金平,高燕会,朱玉球,蒋园…………… (1788)

梭砂贝母的传粉生物学研究

高永茜,张立轩,汪明润,宋波…………… (1795)

· 制剂与炮制 ·

葫芦素 B 磷脂胆酸盐混合胶束口腔速溶膜的制备、表征和抗肿瘤活性研究

于超, 肖云芝, 徐平华, 戴领, 韩晋, 袁海龙 (1799)

艾纳香挥发油栓的制备工艺及体外溶出度研究

王嵩, 赵永恒, 周毅生, 李芳芳 (1805)

定量指纹图谱在醒脑通络注射液氨基酸成分分析中的应用

胡军华, 林夏, 仲艳, 李慧, 吴健雄, 李家春, 王振中, 萧伟 (1811)

指纹图谱分析结合多指标成分定量用于六味五灵片的质量评价

刘宏明, 徐楠楠, 聂磊 (1816)

芪蒯强心胶囊中 12 种成分的 UPLC-MS 测定

刘颖, 欧阳玥, 李松, 刘敏彦, 乔莉, 赵韶华 (1822)

“一测多评”法用于栀子金花丸多成分含量测定的可行性研究

赵倩, 冯伟红, 张启伟, 王智民, 高慧敏, 李春, 杨立新, 刘晓谦, 闫利华, 朱晶晶, 陈两绵 (1826)

· 化学 ·

香茅中一个新羊毛脂烷类三萜化合物

张孟孟, 孙丽丽, 利程, 高万, 杨建波, 王爱国, 苏亚伦, 吉腾飞 (1834)

鬼针草化学成分研究

王晓宇, 陈冠儒, 邓子云, 赵杰, 葛金芳, 李宁, 陈飞虎 (1838)

合欢花乙酸乙酯部位化学成分研究

荣光庆, 耿长安, 马云保, 黄晓燕, 王洪玲, 赵勇, 张雪梅, 陈纪军 (1845)

美洲刺人参酚类化学成分研究

黄卫华, 罗伟, 王冲之, 袁钧苏, 聂明坤, 施树云, 周宏灏, 欧阳冬生 (1852)

掌叶梁王茶茎皮的化学成分研究

杨青, 张健, 欧阳胜, 叶文才, 赵守训, 殷志琦 (1858)

基于近红外光谱技术对硫磺熏蒸白芷的定性鉴别和定量研究

吴晓毅, 巢志茂, 孙文, 王淳 (1863)

· 药理 ·

补中益气汤对肺腺癌顺铂耐药细胞株移植瘤裸鼠脾、胃和肺中 PI3K 和 AKT 表达的影响

刘亚莉, 王莹, 易佳丽, 井欢, 刘春英 (1869)

苦碟子注射液对缺血性脑卒中火毒证大鼠作用的差异蛋白质研究

王凤丽, 张允岭, 刘雪梅, 王新祥, 郑宏, 张昕洋, 高芳, 姚婷 (1874)

基于三色荧光探针的红花肾保护活性物质筛选研究

兰小红, 肖舜, 龚婉, 王毅, 赵筱萍 (1880)

黄精对长期超负荷游泳致阴虚内热模型大鼠的作用研究	
吴柳花, 吕圭源, 李波, 张玥莉, 苏洁, 陈素红	(1886)
含朱砂的万胜化风丹和氯化汞对大鼠肾转运体、肾汞蓄积和 Kim-1 表达的影响	
朱琼妮, 陆远富, 时京珍, 吴芹, 张锋, 石京山, 刘杰	(1892)
迷迭香酸对心肌细胞缺氧复氧损伤的保护作用研究	
李雪丽, 刘建勋, 李澎, 郑咏秋	(1897)
牛磺酸抑制缺氧诱导大鼠肺动脉平滑肌细胞增殖及信号转导机制	
张晓丹, 孙鹏, 朱大岭, 谢楠	(1902)
通络醒脑泡腾片对大鼠慢性脑缺血致学习记忆功能损伤的影响	
胡勇, 巨少华, 张荫杰, 熊敏, 徐世军, 马云桐, 钟振东	(1908)
黔岭淫羊藿总黄酮类成分对去势雌性大鼠骨质疏松症的实验研究	
曹春雨, 刘婷, 回连强, 郝然	(1913)
苦豆肾茶方对免疫性前列腺炎模型大鼠 ICAM-1, INF- γ , MCP-1 的影响	
夏立营, 刘维佳, 李明喜, 葛文津, 高学敏, 张建军	(1918)
· 药代动力学 ·	
刺五加注射液中 3 个主要活性成分与相应单体在大鼠体内的药动学比较	
范惠霞, 邓志鹏, 仲浩, 徐晓婷, 姚庆强	(1921)
脉络宁注射液中 5 种酚酸类成分血药浓度的 LC-MS/MS 测定及大鼠体内药代动力学研究	
吴婷, 张军, 李长印, 谈恒山, 居文政, 徐向阳	(1928)
苓百清肺浓缩丸药物配伍对黄芩苷吸收的药动学比较	
李海龙, 冯文成, 姚琳, 孙妍, 宋亚娟, 胡昊, 王伟明	(1933)
· 临床 ·	
江苏地区多囊卵巢综合征中医证型分布规律及与饮食失宜相关性的临床研究	
冯玉, 高月平	(1937)
· 民族药 ·	
从文献分析角度看我国民族药的发展现状	
李禾, 马超一	(1941)
槟榔十三味丸对抑郁模型大鼠海马和前额叶皮层 AC-cAMP-PKA 信号通路的影响	
佟海英, 乌吉斯古冷, 白亮凤, 包伍叶, 胡日乐巴根, 李婧, 张月	(1946)



CHINA JOURNAL OF CHINESE MATERIA MEDICA (Semimonthly)

Started in July, 1955

Volume 39 Issue 10 May 2014

Editor-in-Chief

WANG Yong-yan

Responsible Institution

China Association for Science and Technology

Sponsored by

Chinese Pharmaceutical Association

Edited and Published by

Editorial Board of China Journal of Chinese
Materia Medica

Address: 16 Nanxiaojie, Inner Dongzhimen
Beijing 100700, China

Tel: 0086-10-64045830

Fax: 0086-10-84022522

E-mail: cjemmm2006@188.com

http: www.cjemmm.com.cn

Printed by

Beijing Huazheng Printing Co., Ltd.

Overseas Distributor

China International Book Trading Corpora-
tion, PO Box 399, Beijing 100044, China

2014, Vol. 39 Issue 10

Publication Date

May 15, 2014

ISSN 1001-5302

CN 11-2272/R

CONTENTS IN BRIEF

Applications of mathematical statistics methods on compatibility researches of traditional Chinese medicines formulae

MAI Lan-yin, LI Yi-xuan, CHEN Yong, XIE Zhen, LI Jie,
ZHONG Ming-yu (1756)

Advance in studies on TRPV1 and analgesic effect of traditional Chinese medicines

LIU Xiao-li, LV Cui, ZHANG Wen-sheng (1760)

Effect of environmental factors on photosynthetic physiology and flavonoid constituent of *Scutellaria baicalensis*

ZHANG Yong-gang, HAN Mei, JIANG Xue, ZHAO Sheng-nan,
YANG Li-min (1766)

Cloning and expression analysis of cinnamate 4-hydroxylase (C4H) reductase gene from *Aquilaria sinensis*

LIANG Liang, HAN Xiao-min, ZHANG Zheng, GUO Qing-mei,
XU Yan-hong, LIU Juan, LIAO Yong-cui (1771)

Effects of different K fertilizer and water level on growth and physiological characteristics of *Isatis indigotica*

YANG Juan-juan, GUO Qiao-sheng, CHEN Su-dan,
DENG Qiao-hua (1776)

Evaluation of high-resolution images application for wild medicinal plants macro monitoring: a case of *Apocynum*

NA Ren-hua, ZHENG Jiang-hua, GUO Bao-lin, SHI Min-hui,
SEN Ba-ti, SUN Zhi-qun, SUN Cheng-zhong, LI Xiao-jin,
JIA Xiao-guang (1781)

Colonization characteristics of endophytic bacteria NJ13 in *Panax ginseng* and its biocontrol efficiency against *Alternaria* leaf spot of ginseng

CHEN Chang-qing, LI Tong, LI Xin-lian, JIANG Yun, TIAN Lei,
XU Peng (1787)

Effect of ABA on transcriptionally active Ty1-copia retrotransposons in *Dendrobium officinale*

LI Cong, SI Jin-ping, GAO Yan-hui, ZHU Yu-qiu, JIANG Yuan ... (1794)

Pollination biology of <i>Fritillaria delavayi</i>	
GAO Yong-qian, ZHANG Li-xuan, WANG Ming-run, SONG Bo	(1798)
Preparation and characterization of cucurbitacin B sodium deoxycholate/phospholipid-mixed oral fast dissolving film and antitumor activity study	
YU Chao, XIAO Yun-zhi, XUN Ping-hua, DAI Ling, HAN Jin, YUAN Hai-long	(1804)
Preparation technology and dissolution research of <i>Blumea</i> volatile oil suppository	
WANG Song, ZHAO Yong-heng, ZHOU Yi-sheng, LI Fang-fang	(1810)
Application of quantitative fingerprint to amino acids composition analysis of Xingnao Tongluo injection	
HU Jun-hua, LIN Xia, ZHONG Yan, LI Hui, WU Jian-xiong, LI Jia-chun, WANG Zhen-zhong, XIAO Wei	(1815)
Quality assessment of Liuwei Wuling tablet by HPLC fingerprint and quantitative analysis	
LIU Hong-ming, XU Nan-nan, NIE Lei	(1821)
Determination of twelve active compounds in Qili Qiangxin capsules by UPLC-MS	
LIU Ying, OUYANG Yue, LI Song, LIU Min-yan, QIAO Li, ZHAO Shao-hua	(1825)
Feasibility study of QAMS for quantitative analysis of multiple structural types of ingredients in Zhizi Jinhua pill	
ZHAO Qian, FENG Wei-hong, ZHANG Qi-wei, WANG Zhi-min, GAO Hui-min, LI Chun, YANG Li-xin, LIU Xiao-qian, YAN Li-hua, ZHU Jing-jing, CHEN Liang-mian	(1833)
A new lanostane-type triterpenoid from <i>Cymbopogon citratus</i>	
ZHANG Meng-meng, SUN Li-li, LI Cheng, GAO Wan, YANG Jian-bo, WANG Ai-guo, SU Ya-lun, JI Teng-fei	(1837)
Chemical constituents from <i>Bidens bipinnata</i>	
WANG Xiao-yu, CHEN Guan-ru, DENG Zi-yun, ZHAO Jie, GE Jin-fang, LI Ning, CHEN Fei-hu	(1844)
Chemical constituents from ethyl acetate extract of flower of <i>Albizia julibrissin</i>	
RONG Guang-qing, GENG Chang-an, MA Yun-bao, HUANG Xiao-yan, WANG Hong-ling, ZHAO Yong, ZHANG Xue-mei, CHEN Ji-jun	(1851)
Phenolic constituents from <i>Oplopanax horridus</i>	
HUANG Wei-hua, LUO Wei, WANG Chong-zhi, YUAN Chun-su, NIE Ming-kun, SHI Shu-yun, ZHOU Hong-hao, OUYANG Dong-sheng	(1857)
Chemical constituents from barks of <i>Nothopanax delavayi</i>	
YANG Qing, ZHANG Jian, OUYANG Sheng, YE Wen-cai, ZHAO Shou-xun, YIN Zhi-qì	(1862)
Qualitative and quantitative research on sulfur fumigation of Angelicae Dahuricae Radix (Baizhi) by near-infrared spectroscopy	
WU Xiao-yi, CHAO Zhi-mao, SUN Wen, WANG Chun	(1868)
Effect of Buzhong Yiqi decoction on PI3K and AKT in spleen, stomach and lung of nude mice with lung adenocarcinoma transplantation tumor	
LIU Ya-li, WANG Ying, YI Jia-li, JING Huan, LIU Chun-ying	(1873)

Study on differentially expressed proteins of effect of Kudiezi injection on cerebral cortexin rats with cerebral ischemic stroke and heat toxin syndrome
WANG Feng-li, ZHANG Yun-ling, LIU Xue-mei, WANG Xin-xiang, ZHENG Hong, ZHANG Xin-yang, GAO Fang, YAO Ting (1879)

Study of screening nephroprotective bioactive substances based on triple-color fluorescence probes in Carthami Flos
LAN Xiao-hong, XIAO Shun, GONG Wan, WANG Yi, ZHAO Xiao-ping (1885)

Study on effect of *Polygonatum sibiricum* on Yin deficiency model rats induced by long-term overload swimming
WU Liu-hua, LV Gui-yuan, LI bo, ZHANG Yue-li, SU Jie, CHEN Su-hong (1891)

Distinct effect of Wansheng Huafeng Dan containing ardisia crenata on renal transporters, mercury accumulation and Kim-1 expression from mercuric chloride
ZHU Qiong-ni, LU Yuan-fu, SHI Jing-zhen, WU Qin, ZHANG Feng, SHI Jing-shan, LIU Jie (1896)

Protective effect of rosmarinic acid on hypoxia/reoxygenation injury in cardiomyocytes
LI Xue-li, LIU Jian-xun, LI Peng, ZHENG Yong-qiu (1901)

Inhibitory effect of taurine in hypoxia-induced rat pulmonary artery smooth muscle cell proliferation and signal transduction mechanism
ZHANG Xiao-dan, SUN Peng, ZHU Da-ling, XIE Nan (1907)

Effect of Tongluo Xingnao effervescent tablets on learning and memory dysfunction in rats with chronic cerebral ischemia
HU Yong, JU Shao-hua, ZHANG Yin-jie, XIONG Min, XU Shi-jun, MA Yun-tong, ZHONG Zhen-dong (1912)

Effect of total flavones of *Epimedium leptorrhizum* on osteoporosis in ovariectomized rats
CAO Chun-yu, LIU Ting, HUI Lian-qiang, HAO Ran (1917)

Influence of Kudou Shenchu decoction on INF- γ , ICAM-1, MCP-1 levels of prostate tissue homogenate in immunity prostatitis model rats
XIA Li-ying, LIU Wei-jia, LI Ming-xi, GE Wen-jin, GAO Xue-min, ZHANG Jian-jun (1920)

Comparative pharmacokinetics of syringin, eleutheroside E and isofraxidin in rat plasma after intravenous administration of each monomer and Ciwujia injection
FAN Hui-xia, DENG Zhi-peng, ZHONG Hao, XU Xiao-ting, YAO Qing-qiang (1927)

Determination of plasma concentration of five phenolic acid by LC-MS/MS and study of pharmacokinetics in rats after Mailuoning injection
WU Ting, ZHANG Jun, LI Chang-yin, TAN Heng-shan, JU Wen-zheng, XU Xiang-yang (1932)

Pharmacokinetic comparison of baicalin absorption medicine Qinbai Qingfei concentrated pellets drug compatibility
LI Hai-long, FENG Wen-cheng, YAO Lin, SUN Yan, SONG Ya-juan, HU Hao, WANG Wei-ming (1936)

Clinical study of area of Jiangsu province of polycystic ovarian syndrome correlation distribution of traditional Chinese medicine syndrome type and improper diet
FENG Yu, GAO Yue-ping (1940)

Effects of Betel shisanwei ingredients pill on AC-cAMP-PKA signal transduction pathways in hippocampus and prefrontal cortex of depressive rats
TONG Hai-ying, WU Jisiguleng, BAI Liang-feng, BAO Wu-ye, HU Rilebagen, LI Jing, ZHANG Yue (1950)

原书缺封底