



中华中医药学会系列期刊



CSCD来源期刊  
中国中文核心期刊  
中国科技核心期刊  
RCCSE权威学术期刊(A+)  
美国《化学文摘》统计源期刊

ISSN 1005-9903  
CN 11-3495/R



QK1811926

ZHONGGUO

SHIYAN

FANGJIXUE

ZAZHI

# 中国实验方剂学杂志

Chinese Journal of Experimental Traditional Medical Formulae

## 本期推荐

- 2015年版《中国药典》中王不留行黄酮苷化学结构修正
- 不同途径吸入脂多糖致大鼠急性肺炎模型的优选
- 桃红四物汤对人脑微血管内皮细胞OGD损伤的保护作用及机制
- 大黄有效成分与附子有效成分配伍在Caco-2细胞模型上的转运分析

# 7 2018

2018年4月 第24卷 第7期  
April Vol.24 No.7



杂志官方微信

主管：国家中医药管理局  
主办：中国中医科学院中药研究所  
中华中医药学会  
万方数据

# 中国实验方剂学杂志

Zhongguo Shiyang Fangjixue Zazhi

半月刊

1995年10月创刊

第24卷

第7期

2018年4月5日出版

**主 管** 国家中医药管理局  
(100027 北京市东城区工体西路1号)

**主 办** 中国中医科学院中药研究所  
(100700 北京市东直门内南小街16号)  
中华中医药学会  
(100029 北京市朝阳区樱花园东街甲4号)

**主 编** 吴以岭

**编辑出版** 中国实验方剂学杂志编辑部  
(100700 北京市东直门内南小街16号)  
电话:(010)84076882  
传真:(010)84076882  
E-mail:syfjx\_2010@188.com  
网址:www.syfjxzz.com

**广 告** 中国实验方剂学杂志广告部  
(100700 北京市东直门内南小街16号)  
电话:(010)84076882  
传真:(010)84076882

**印 刷** 北京顶佳世纪印刷有限公司  
(100076 北京市大兴区西红门镇)

**国内发行** 北京报刊发行局  
(100055 北京丰台区莲花池东路126号)  
订 阅 全国各地邮局  
邮发代号 2-417

**国外发行** 中国国际图书贸易集团有限公司  
订 阅 代号 SM4655

**邮 购** 中国实验方剂学杂志社  
(100700 北京市东直门内南小街16号)  
电话:(010)84076882

ISSN 1005-9903  
中国标准连续出版物号 CN 11-3495/R

广告许可证 京东工商广登字 20170076 号

国内定价 每期 48 元,全年 1152 元

## 目 次

- 药剂与炮制 ·
- 大黄有效成分与附子有效成分配伍在 Caco-2 细胞模型上的  
转运分析  
党珏, 李燕, 刘美辰, 罗林, 龚小红, 周忆梦, 汤韵秋,  
郑立, 全云云, 李芸霞, 彭成 ..... ( 1 )
- 连翘标准汤剂质量评价体系的建立  
曹静亚, 李晓, 宋梦娇, 魏悦, 张丽先, 李智宁,  
李自红, 陈玲 ..... ( 7 )
- HPLC-ELSD 指纹图谱分析提取与炮制对柴胡中化学  
成分的影响  
丛梦雨, 龚彦溶, 梁莎碧, 倪洁娜, 王术玲 ..... ( 13 )
- 三七药材-三七二醇皂苷指纹图谱及其物质群量值传递  
分析  
余佳丽, 唐晓章, 周菲, 林美斯, 林大胜, 邓义红 ..... ( 18 )
- 芥子及莱菔子饮片炮制前后物质基础变化规律分析  
苏慧, 岳琳, 刘颖, 麻印莲, 于定荣, 霍雨佳, 万超,  
李丽, 肖永庆 ..... ( 23 )
- 近红外光谱技术快速测定醋香附中  $\alpha$ -香附酮的含量  
曹庆玺, 贾灿湖, 黄柳芳, 刘喜乐, 王东 ..... ( 27 )
- 资源与鉴定 ·
- 头花蓼内生真菌 *Gibberella intermedia* 抗多重耐药菌活性  
成分及其逆转细菌耐药性作用分析  
刘俊, 张青艳, 杨斐玉, 徐国波, 周孟, 廖尚高 ..... ( 33 )
- 不同氮浓度对羌活幼苗生长及抗氧化酶系统的效应  
张燕, 王红兰, 蒋舜媛, 孙辉, 杨萍, 杜玖珍, 孙洪兵,  
周毅 ..... ( 38 )

延胡索干物质累积及氮、磷、钾养分吸收规律	
王梦苒, 王朝辉, 郑险峰, 黄冬琳 .....	( 45 )
· 化学与分析 ·	
2015 年版《中国药典》中王不留行黄酮苷化学结构修正	
周国洪, 许梦莹, 张晓, 郭日新, 于现阔, 唐力英, 王祝举 .....	( 51 )
血人参乙酸乙酯部位保肝活性化学成分分离鉴定	
雷钟, 朱新宇, 杨宇莎, 周威, 梁妍, 郝小燕 .....	( 56 )
孔雀草茎、叶化学成分的分离鉴定	
于森, 冉小库, 窦德强, 蔡德成 .....	( 64 )
基于灰色关联度的旋覆花黄酮类有机成分与无机成分分析	
王焱, 李天娇, 孟宪生, 包永睿, 王帅 .....	( 69 )
ICP-MS 分析不同产地侧柏叶中 18 种重金属及微量元素	
张平, 马潇, 张明童, 李冬华, 杨静, 王娟弟, 杨平荣, 王晓琳 .....	( 75 )
· 药理 ·	
不同途径吸入脂多糖致大鼠急性肺炎模型的优选	
张亚平, 张广平, 苏萍, 杨依霏, 马梦, 马丽娜, 侯红平, 张钟秀, 李晗, 高云航, 宋玲, 官平, 叶祖光 .....	( 82 )
消癌解毒方诱导人肝癌 SMMC-7721 细胞 miRNA 表达变化	
徐力立, 陈慧, 吴铭杰, 陈海彬, 李文婷, 沈政洁, 上官端丹, 董凡, 李林晚, 周红光 .....	( 89 )
桃红四物汤对人脑微血管内皮细胞 OGD 损伤的保护作用及机制	
季兆洁, 韩岚, 吴欢茹, 郭栋栋, 彭代银 .....	( 95 )
基于黄疸模型的栀子根与栀子果实保肝作用探讨	
肖日传, 罗光明, 董丽华, 张风波, 朱继孝, 伍珊珊, 李波, 谢晶 .....	( 101 )
金草消毒颗粒对 D-GalN/LPS 致小鼠急性肝损伤保护的影响	
王巍, 许立拔, 张卓, 张宇薇, 林彩霞, 高玲, 巫玲玲, 蒋伟哲 .....	( 108 )
补肾益气化浊通络法对糖尿病肾病小鼠肾脏细胞外基质的影响	
史晓伟, 张定华, 罗向霞, 刘怡, 裴文丽, 张东鹏, 李继文, 谢卓霖, 马如龙 .....	( 114 )
龙胆泻肝汤对 PCOS 模型大鼠的影响	
李俊波, 邓芳, 李霄汉, 许丽绵 .....	( 121 )
芪玉三龙汤对 Wnt 信号通路拮抗基因 SFRP-2 的影响	
张星星, 李泽庚, 曾时杰, 张至强, 胡健 .....	( 127 )
葛根交泰丸对 2 型糖尿病大鼠的治疗作用	
李秋霞, 吴凝, 聂闪闪, 姜序吉, 王东生 .....	( 133 )
苦碟子注射液对输尿管梗阻大鼠肾间质纤维化的影响	
林云, 曹灵 .....	( 139 )
茜草醇提物对佐剂性关节炎大鼠肝脏、脾脏损伤及 Foxp3 的影响	
沈彩虹, 刘云, 余宪文, 宋晓娟, 肖宗崇, 詹若挺, 严萍 .....	( 147 )

麻元通便止痛汤对慢传输型便秘大鼠肠道推进功能的影响	
谢昌营, 吴成成, 肖慧荣 .....	(154)
参附注射液对重症急性胰腺炎大鼠心肌的保护作用	
杨伟钦, 李培武, 米红, 赵迪克, 向长勤, 陈昫, 刘凤斌 .....	(159)
金铁锁及其总皂苷体内抗炎作用分析	
邓祎, 钱子刚, 刘武林, 丁雄, 陈海丰 .....	(165)
化痰祛痰方对 AS 家兔肝脏线粒体呼吸链酶复合物的影响	
陈宁, 宋园, 贾连群, 陈丝, 王健, 王群, 杨关林 .....	(171)
川楝素调节丙酮酸激酶 M <sub>2</sub> 抑制乳腺癌糖酵解	
王红磊, 肖奕, 武力, 马大昌 .....	(177)
<b>· 网络药理学 ·</b>	
水解珍珠蜂蜜液活性成分的网络药理学分析	
张婷, 林江, 林湧, 李军洋 .....	(184)
基于网络药理学与分子对接法预测银杏叶提取物的抗炎机制	
张立虎, 李冬冬, 萧伟, 王振中, 丁岗, 赵林果 .....	(192)
<b>· 临床 ·</b>	
扶正、祛邪中药复方对骨髓增生异常综合征骨髓细胞红系转录因子水平调控的表观遗传学机制	
许鸣, 郭元成, 任建业, 徐白雪, 曾庆, 胡琦, 陆嘉惠 .....	(199)
骨痹方治疗膝骨关节炎肾虚络痹证临床观察	
袁芳, 何晓瑾, 石俊, 朱琳, 周逸群 .....	(207)
补肾化痰益智方联合丁苯酞对阿尔茨海默病患者氧化应激、血流变学及认知功能的影响	
王澍, 张雪, 马樱芮, 赵吉波 .....	(212)
腰痛六合散熨疗联合针刺治疗血瘀型腰椎间盘突出症	
温泽发, 牛淑芳, 曾令友, 潘广华 .....	(217)
十补丸加味治疗脾肾阳虚型卵巢功能早衰的疗效及作用机制	
熊晓莉, 王巧英, 曾晓霞, 李兆艾 .....	(223)
<b>· 数据挖掘 ·</b>	
中医药干预冠心病不稳定性心绞痛患者的队列研究	
高武霖, 戴国华, 史晓静, 赵芳, 袁琛皓, 毕冬雪 .....	(228)
<b>· 信息 ·</b>	
《中国实验方剂学杂志》第四届编委会名单 .....	(封二)
《中国实验方剂学杂志》稿约 .....	(封三)

[期刊基本参数] CN11-3495/R \* 1995 \* s \* 16 \* 234 \* zh \* P \* ¥48.00 \* 1000 \* 38 \* 2018-07

本期责任编辑: 张丰丰

# CHINESE JOURNAL OF EXPERIMENTAL TRADITIONAL MEDICAL FORMULAE

Semimonthly

Established in October, 1995

Vol. 24 No. 7

April 2018

## Responsible Institution

State Administration of Traditional Chinese  
Medicine

(No. 1, Gongtixilu, Dongcheng District,  
Beijing, 100027)

## Sponsor

Institute of Chinese Materia Medica, China  
Academy of Chinese Medical Sciences

(No. 16, Nanxiaojie, Dongzhimennei, Beijing,  
100700)

China Association of Chinese Medicine

(No. 4, Yinghuayuangongjie, Chaoyang  
District, Beijing, 100029)

## Editor-in-Chief

WU Yi-ling

## Edited and Published by

Editorial Office of China Journal of  
Experimental Traditional Medical Formulae

(16, Nanxiaojie, Dongzhimennei, Beijing,  
100700)

Tel: (010)84076882

Fax: (010)84076882

E-mail: syfx\_2010@188.com

Website: <http://www.syfxzz.com>

## Printed by

Beijing Topcent Printing Co., Ltd.

(No. 5, Jinfu Street, Daxing District,  
Beijing, 100076)

## Domestic Subscription

Distributed by Beijing Subscription Bureau  
(126, Lianhuachidonglu, Fengtai District,  
Beijing, 100055)

Subscription Code 2-417

## Overseas Subscription

China International Book Trading  
Corporation

(P. O. Box 399, Beijing, 100044)

Code SM4655

## Order from local post office

Order from mail Publishing House of China  
Journal of Experimental Traditional  
Medical Formulae

(16, Nanxiaojie, Dongzhimennei, Beijing,  
100700)

Tel: (010)84076882

ISSN 1005-9903

CN 11-3495/R

## CONTENTS IN BRIEF

### Transport Analysis of Active Ingredients Compatibility

#### Between Aconiti Lateralis Radix Praeparata and Rhei Radix et Rhizoma in Caco-2 Cell Model

DANG Jue, LI Yan, LIU Mei-chen, LUO Lin,

GONG Xiao-hong, ZHOU Yi-meng, TANG Yun-qiu,

ZHENG Li, QUAN Yun-yun, LI Yun-xia, PENG Cheng ..... ( 1 )

### Quality Evaluation of Standard Decoction of Forsythiae Fructus

CAO Jing-ya, LI Xiao, SONG Meng-jiao, WEI Yue,

ZHANG Li-xian, LI Zhi-ning, LI Zi-hong, CHEN Ling ..... ( 7 )

### Effect of Extraction and Processing on Chemical

#### Constituents in Bupleuri Radix by HPLC-ELSD Fingerprint

CONG Meng-yu, GONG Yan-rong, LIANG Sha-bi,

NI Jie-na, WANG Shu-ling ..... ( 13 )

### Analysis of Fingerprint of Notoginseng Radix et Rhizoma-

#### panaxadiol Saponins and Their Quality Transmitting of

#### Components Group

YU Jia-li, TANG Xiao-zhang, ZHOU Fei, LIN Mei-si,

LIN Da-sheng, DENG Yi-hong ..... ( 18 )

### Analysis on Change Law of Material Basis of Sinapis

#### Semen and Raphani Semen Before and After Processing

SU Hui, YUE Lin, LIU Ying, MA Yin-lian, YU Ding-rong,

HUO Yu-jia, WAN Chao, LI Li, XIAO Yong-qing ..... ( 23 )

### Rapid Determination of $\alpha$ -Cyperone in Cyperi Rhizoma

#### Stir-fried with Vinegar by Near-infrared Spectroscopy

CAO Qing-xi, JIA Can-chao, HUANG Liu-fang, LIU Xi-le,

WANG Dong ..... ( 27 )

### Antibacterial Constituents from Endophytic *Gibberella*

#### *intermedia* of *Polygonum capitatum* and Their Reversal

#### Effect on Resistance of Multi-resistant Bacteria

LIU Jun, ZHANG Qing-yan, YANG Fei-yu, XU Guo-bo,

ZHOU Meng, LIAO Shang-gao ..... ( 33 )

<b>Effect of Different Nitrogen Concentrations on Growth and Antioxidant Enzymes Activity in <i>Notopterygium incisum</i> Seedling in Cultivation Matrix</b>	
ZHANG Yan, WANG Hong-lan, JIANG Shun-yuan, SUN Hui, YANG Ping, DU Jiu-zhen, SUN Hong-bing, ZHOU Yi .....	( 38 )
<b>Dry Matter Production of <i>Corydalis yanhusuo</i> and Accumulation and Distribution of N, P and K</b>	
WANG Meng-ran, WANG Zhao-hui, ZHENG Xian-feng, HUANG Dong-lin .....	( 45 )
<b>Correction of Chemical Structure of Vaccarin According to 2015 Edition of <i>Chinese Pharmacopoeia</i></b>	
ZHOU Guo-hong, XU Meng-ying, ZHANG Xiao, GUO Ri-xin, YU Xian-kuo, TANG Li-ying, WANG Zhu-ju .....	( 51 )
<b>Hepatoprotective Chemical Constituents from Thylacetate Extract of <i>Indigofera stachyoides Radix</i></b>	
LEI Zhong, ZHU Xin-yu, YANG Yu-sha, ZHOU Wei, LIANG Yan, HAO Xiao-yan .....	( 56 )
<b>Isolation and Identification of Chemical Constituents from Stems and Leaves of <i>Tagetes patula</i></b>	
YU Miao, RAN Xiao-ku, DOU De-qiang, CAI De-cheng .....	( 64 )
<b>Quality Control of Organic and Inorganic Compounds of Flavonoids from <i>Inulae Herba</i> Based on Grey Relational Analysis</b>	
WANG Yan, LI Tian-jiao, MENG Xian-sheng, BAO Yong-rui, WANG Shuai .....	( 69 )
<b>Determination and Analysis of Trace Elements and Heavy Metals Content in <i>Platycladi Cacumen</i> from Different Origins by ICP-MS</b>	
ZHANG Ping, MA Xiao, ZHANG Ming-tong, LI Dong-hua, YANG Jing, WANG Juan-di, YANG Ping-rong, WANG Xiao-lin .....	( 75 )
<b>Selection of Acute Pneumonia Rat Models Induced by Lipopolysaccharide with Different Inhalation Pathways</b>	
ZHANG Ya-ping, ZHANG Guang-ping, SU Ping, YANG Yi-fei, MA Meng, MA Li-na, HOU Hong-ping, ZHANG Zhong-xiu, LI Han, GAO Yun-hang, SONG Ling, GONG Ping, YE Zu-guang .....	( 82 )
<b>miRNA Expression of SMMC-7721 Cell Induced by Xiaoi Jiedu Formula</b>	
XU Li-li, CHEN Hui, WU Ming-jie, CHEN Hai-bin, LI Wen-ting, SHEN Zheng-jie, SHANGGUAN Duan-dan, DONG Fan, LI Lin-wan, ZHOU Hong-guang .....	( 89 )
<b>Protective Effect and Mechanism of Taohong Siwutang on OGD-induced Injury of Human Brain Microvascular Endothelial Cells</b>	
JI Zhao-jie, HAN Lan, WU Huan-ru, GUO Dong-dong, PENG Dai-yin .....	( 95 )
<b>Investigation of Liver Protection Effect of Fruit and Root of <i>Gardenia jasminoides</i> Based on Jaundice Model</b>	
XIAO Ri-chuan, LUO Guang-ming, DONG Li-hua, ZHANG Feng-bo, ZHU Ji-xiao, WU Shan-na, LI Bo, XIE Jing .....	( 101 )
<b>Effect of Jincao Xiaodu Granule on Acute Hepatic Injury in Mice induced by <i>D-GalN/LPS</i></b>	
WANG Wei, XU Li-ba, ZHANG Zhuo, ZHANG Yu-wei, LIN Cai-xia, GAO Ling, WU Ling-ling, JIANG Wei-zhe .....	( 108 )
<b>Effect of Bushen Yiqi Huazhuo Tongluo Method on Renal Extracellular Matrix of Diabetic Nephropathy Mice</b>	
SHI Xiao-wei, ZHANG Ding-hua, LUO Xiang-xia, LIU Yi, PEI Wen-li, ZHANG Dong-peng, LI Ji-wen, XIE Zhuo-lin, MA Ru-long .....	( 114 )
<b>Effect and Mechanism of Longdan Xiegan Tang on Polycystic Ovarian Syndrome Model Rats</b>	
LI Jun-bo, DENG Fang, LI Xiao-han, XU Li-mian .....	( 121 )
<b>Effect of Qinyu Sanlong Decoction on Expression of SFRP-2 Antagonistic Wnt Signal Pathway</b>	
ZHANG Xing-xing, LI Ze-geng, ZENG Shi-jie, ZHANG Zhi-qiang, HU Jian .....	( 127 )

<b>Effect of Gegen Jiaotaiwan on Rats with Type 2 Diabetes Mellitus</b>	
LI Qiu-xia, WU Ning, NIE Shan-shan, JIANG Xu-ji, WANG Dong-sheng .....	(133)
<b>Effect of Kudiezi Injection on Renal Interstitial Fibrosis of Rats with Unilateral Ureteral Obstruction</b>	
LIN Yun, CAO Ling .....	(139)
<b>Effect of Rubiae Radix et Rhizoma Extract on Liver, Spleen Injury and Expression of Foxp3 in Adjuvant-induced Arthritis Rats</b>	
SHEN Cai-hong, LIU Yun, YU Xian-wen, SONG Xiao-Juan, XIAO Zong-chong, ZHAN Ruo-ting, YAN Ping .....	(147)
<b>Effect of Mayuan Tongbian Zhitong Decoction on Intestinal Propulsive Function in Rats with Slow Transit Constipation</b>	
XIE Chang-ying, WU Cheng-cheng, XIAO Hui-rong .....	(154)
<b>Protective Effect of Shenfu Injection on Myocardium of Rats with Severe Acute Pancreatitis</b>	
YANG Wei-qin, LI Pei-wu, MI Hong, ZHAO Di-ke, XIANG Chang-qin, CHEN Xu, LIU Feng-bin .....	(159)
<b>Anti-inflammatory Activity of Psammosilenes Radix and Total Saponins <i>in Vivo</i></b>	
DENG Yi, QIAN Zi-gang, LIU Wu-lin, DING Xiong, CHEN Hai-feng .....	(165)
<b>Effect of Huayu Qutan Recipe on Respiratory Chain Enzyme Complexes of Liver Mitochondria in AS Rabbits</b>	
CHEN Ning, SONG Nan, JIA Lian-qun, CHEN Si, WANG Jian, WANG Qun, YANG Guan-lin .....	(171)
<b>Toosendanin Inhibits Glycolysis in Breast Cancer by Regulating Pyruvate Kinase M<sub>2</sub></b>	
WANG Hong-lei, XIAO Yi, WU Li, MA Da-chang .....	(177)
<b>Network Pharmacology Analysis on Active Ingredients of Hydrolyzed Pearl Honey Liquid</b>	
ZHANG Ting, LIN Jiang, LIN Yong, LI Jun-yang .....	(184)
<b>Prediction of Anti-inflammatory Mechanism of Ginkgo Folium Extract Based on Molecular Docking and Network Pharmacology</b>	
ZHANG Li-hu, LI Dong-dong, XIAO Wei, WANG Zhen-zhong, DING Gang, ZHAO Lin-guo .....	(192)
<b>Effect of Compound Chinese Medicine Formulas of Strengthening Healthy Energy and Eliminating Pathogenic Factors on GATA-1 Activation <i>via</i> Histone Acetylation Modulation in Bone Marrow Mono-nuclear Cells from Myelodysplastic Syndromes Patients <i>in Vitro</i></b>	
XU Ming, GUO Yuan-cheng, REN Jian-ye, XU Bai-xue, ZENG Qing, HU Qi, LU Jia-hui .....	(199)
<b>Effect of Gubi Recipe in Treating Knee Osteoarthritis with Symptom of Kidney Deficiency and Collateral Obstruction</b>	
YUAN Fang, HE Xiao-jin, SHI Jun, ZHU Lin, ZHOU Yi-qun .....	(207)
<b>Clinical Efficacy of Bushen Huatan Yizhi Decoction Combined with Butylphthalide and Effect on Oxidative Stress, Hemorheology and Cognitive Function in Patients with Alzheimer's Disease</b>	
WANG Shu, ZHANG Xue, MA Ying-rui, ZHAO Ji-bo .....	(212)
<b>Yaotong Liuhesan Combined with Acupuncture in Treating Lumbar Disc Herniation with Syndrome of Blood Stasis</b>	
WEN Ze-fa, NIU Shu-fang, ZENG Ling-you, PAN Guang-hua .....	(217)
<b>Efficacy of Shibuwan Jiawei in Treating Premature Ovarian Failure with Syndrome of Yang Deficiency of Spleen and Kidney and Its Mechanism</b>	
XIONG Xiao-li, WANG Qiao-ying, ZENG Xiao-xia, LI Zhao-ai .....	(223)
<b>Efficacy of Traditional Chinese Medicine in Treatment of Unstable Angina</b>	
GAO Wu-lin, DAI Guo-hua, SHI Xiao-jing, ZHAO Fang, YUAN Chen-hao, BI Dong-xue .....	(228)

Responsible editor: ZHANG Feng-feng

1995-2018



国内发行：邮发代号 2-417  
国外发行：订阅代号 SM4655

ISSN 1005-9903  
CN 11-3495/R

定价：48.00元

万方数据

ISSN 1005-9903



9 771005 990184