



中华中医药学会系列期刊



CSCD来源期刊(核心库)  
中国中文核心期刊  
中国科技核心期刊  
RCCSE权威学术期刊(A+)



QK1932920

ZHONGGUO

SHIYAN

FANGJIXUE

ZAZHI

# 中国实验方剂学杂志

— Chinese Journal of Experimental Traditional Medical Formulae —

## 本期推荐

- 左归丸“补肾-益精-填髓-壮骨”效应的研究专题
- 加速氧化环境中小茴香挥发油的稳定性考察及抗氧化剂筛选
- 基于“入腹知性”理论的黄芩干预大鼠肠道菌群多样性的探讨
- 泻心汤含药血清对RAW264.7源性泡沫细胞TLR9/MyD88/NF- $\kappa$ B p65信号通路的影响

# 18 2019

2019年9月 第25卷 第18期  
September Vol.25 No.18



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25卷 第18期 2019年9月20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:syfx\_2010@188.com  
网址:www.syfxzz.com

**广告代理** 数源汇通(北京)医药科技有限公司  
北京市海淀区西三环北路11号  
海通时代商务中心A1栋  
电话:(010)68469866  
传真:(010)68469886

**印刷** 北京博海升彩色印刷有限公司  
(101102 北京通州区环宇路6号)

**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

中国标准连续出版物号 ISSN 1005-9903  
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

### · 左归丸“补肾-益精-填髓-壮骨”效应的研究专题 ·

左归丸调节  $\beta_2$ AR 介导的 RANKL/OPG 信号通路改善

去卵巢大鼠骨量和显微结构水平

刘飞祥, 林子璇, 徐道明, 叶素敏, 张明玥, 樊巧玲,

谭峰, 李星, 柴毅, 麦聪英, 卢圣峰 ..... ( 1 )

左归丸对去卵巢大鼠下丘脑 Orexin 及其受体 mRNA

表达的影响

叶素敏, 谭峰, 刘飞祥, 徐道明, 柴毅,

张明玥, 樊巧玲 ..... ( 9 )

左归丸防治骨质疏松症的动物模型和评价方法

刘飞祥, 林子璇, 徐道明, 叶素敏, 张明玥, 樊巧玲,

谭峰, 李星, 柴毅, 尚文斌, 卢圣峰 ..... ( 16 )

### · 经典方剂 ·

泻心汤含药血清对 RAW264.7 源性泡沫细胞 TLR9/

MyD88/NF- $\kappa$ B p65 信号通路的影响

于红红, 俞琦, 蔡琨, 陈茜, 盛蒙, 许丽婷,

田维毅 ..... ( 24 )

清金化痰汤通过调节自噬对 COPD 大鼠炎症反应的影响

吴林娜, 赵媚, 许光兰 ..... ( 30 )

基于和法探讨黄连汤治疗慢性非萎缩性胃炎的机制

罗光芝, 韩成恩, 韩晓春, 王媛, 马婷,

王世军, 张成博 ..... ( 36 )

### · 药理 ·

二仙汤对围绝经期大鼠心脏电生理的影响

谢慧慧, 王莹, 杨硕, 董业红, 张丽, 黄思敏,

徐彭, 刘波 ..... ( 43 )

白头翁皂苷对 NCI-H460 细胞增殖、凋亡的影响及其差异表达蛋白筛选	
官紫祎, 陈兰英, 罗颖颖, 崔亚茹, 寿斌耀, 周立芬 .....	( 49 )
解毒护肝汤对药物性肝损伤大鼠 MIP-2 和 MIP-1 $\beta$ 蛋白表达的影响	
刘晨旭, 王茜, 张一昕, 储心乔, 胡巍巍, 郭秋红, 韩雪, 彪雅宁 .....	( 57 )
拟黑多刺蚁活性组分对系统性红斑狼疮的治疗作用及机制	
毛长智, 何俊慧, 李冬梅, 何飞, 陆国寿, 胡筱希, 韦桂宁 .....	( 65 )
染料木素对油酸诱导 HepG2 细胞脂质蓄积的影响	
张洪敏, 曹世杰, 何昕雅, 邱峰, 张德芹 .....	( 71 )
丁香脂素对谷氨酸钠诱导的 SH-SY5Y 细胞兴奋性损伤的保护作用	
严秋霞, 李艳梅, 范艳华, 张明生, 杨礼寿, 姚尧, 杨珏, 陈娟, 龙群, 邱剑飞, 杨小生 .....	( 76 )
· 临床 ·	
清肺泻肝汤对 2 型糖尿病患者炎症指标和肠道菌群的调节作用	
戴丛书, 于卓, 李光耀, 林长青 .....	( 83 )
桃红四物汤合柴胡疏肝散加减治疗不稳定型心绞痛 A 型行为的临床观察	
袁利梅, 范立华, 张志国, 李庆海 .....	( 89 )
清胃散加减治疗儿童急性牙髓炎胃火炽盛证的近期和远期疗效观察	
王和生, 张兴安, 王大庆, 曾玲 .....	( 95 )
· 药物代谢 ·	
基于尿液代谢组学技术分析大川芎方多组分中药制剂干预急性偏头痛大鼠模型的影响	
马诗瑜, 沈岚, 林晓, 冯怡 .....	( 101 )
· 药剂与炮制 ·	
加速氧化环境中小茴香挥发油的稳定性考察及其抗氧化剂筛选	
郜佳, 邹俊波, 史亚军, 郭东艳, 张小飞, 王瑜, 梁玉琳, 李婧琳, 程江雪, 杨明, 王芳 .....	( 108 )
基于近红外漫反射光谱和 PCA-SVM 算法快速鉴别炉甘石	
陈龙, 张晓冬, 孙扬波, 陈科力 .....	( 116 )
· 资源与质量评价 ·	
不同产地北柴胡药材的 UPLC/Q-TOF-MS 指纹图谱分析	
叶耀辉, 史毅, 张博文, 陈文彬, 马亚男, 于欢 .....	( 124 )
国内外产西洋参挥发性成分的 HS-SPME/GC-MS 比较	
司雨, 刘云鹤, 王钟瑶, 刘金平, 李平亚, 焦玉凤 .....	( 130 )
水杨酸刺激下半夏试管块茎悬浮培养及其生物碱的含量	
陶兴魁, 黄铭美, 薛建平, 张爱民, 张兴桃, 王海潮 .....	( 139 )

基于 UPLC-TQ-MS 考察不同树龄银杏叶双黄酮含量变化规律	
郁丹红, 姜玮, 姚鑫, 薛平, 毛晨梅 .....	(145)
UHPLC-QqQ-MS 测定蒲地蓝消炎口服液中 12 种成分的含量	
高文雅, 顾欣如, 赵利娟, 周严严, 边宝林, 赵海誉 .....	(150)
HPLC 测定牛黄清胃丸中枳实所含 4 种黄酮类成分及其药材基原分析	
刘晶晶, 胡晓茹, 何轶, 戴忠, 马双成 .....	(155)
· 数据挖掘 ·	
基于网络药理学探讨大黄黄连泻心汤治疗 2 型糖尿病作用机制	
施岚尔, 聂课朝, 张文婧, 郑美思, 林志勤, 朱章志 .....	(160)
· 学术探讨 ·	
基于“入腹知性”理论的黄芩干预大鼠肠道菌群多样性的探讨	
刘洪毓, 张亚男, 李自辉, 陈平平, 匡海学, 刘树民 .....	(167)
基于最大相似度算法的补阳中药归肾经的量化探讨	
姜希伟, 邹家丽, 项荣武, 于净, 高翔, 梁建坤 .....	(174)
· 综述 ·	
中医药与肠道微生态相关性研究进展	
杜珊, 周月, 陈斌 .....	(182)
喉痹动物模型的研究现状及评价分析	
吴嘉宝, 黄栋芳, 王焯, 孟杰, 卢金福, 赵霞 .....	(189)
何首乌中相关蒽醌类化合物抗癌作用的研究进展	
朱艺, 李琛, 李洪亮, 汪选斌 .....	(196)
《外科正宗》消风散止痒作用的研究进展	
孙梦涵, 唐宗湘, 袁晓琳 .....	(206)
红禾麻的研究进展	
陈胤睿, 徐文芬, 马敏龙, 孙庆文 .....	(214)
制粒技术在药物掩味方面的研究进展	
颜洁, 谌志远, 关志宇, 汪毅成, 吴文婷, 陈丽华, 朱卫丰, 刘婧, 朱焯 .....	(221)
降尿酸中药药效物质筛选方法学研究进展	
任玲玲, 张迟, 曾金祥, 毛竹, 李敏, 朱继孝, 朱玉野, 钟国跃, 刘红宁 .....	(227)

[ 期刊基本参数 ] CN11-3495/R \* 1995 \* s \* 16 \* 234 \* zh \* P \* ¥48.00 \* 1000 \* 34 \* 2019-18

本期责任编辑: 张丰丰

# CHINESE JOURNAL OF EXPERIMENTAL TRADITIONAL MEDICAL FORMULAE

Semimonthly

Established in October, 1995

Vol. 25 No. 18

September 2019

## 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, Yinghuayuandongjie, Chaoyang District, Beijing, 100029)

## Editor-in-Chief

WU Yi-ling

## Edited and Published by

Editorial Office of Chinese Journal of Experimental Traditional Medical Formulae

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

Tel: (010)84076882

Fax: (010)84076882

E-mail: syfjx\_2010@188.com

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

## Printed by

Beijing BOHS Colour Printing Co. Ltd.

(No. 6, Huanyu Road, Tongzhou District, Beijing, 101102)

## Domestic Subscription

Distributed by Beijing Subscription Bureau

(No. 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

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

Tel: (010)84076882

ISSN 1005-9903  
CN 11-3495/R

## CONTENTS IN BRIEF

- Effect of Zuoguiwan in Improving BMD and Trabecular Bone Microarchitecture in Ovariectomy-induced Osteoporosis Rats by Regulating RANKL/OPG Pathway Mediated by  $\beta_2$ AR**  
LIU Fei-xiang, LIN Zi-xuan, XU Dao-ming, YE Su-min, ZHANG Ming-yue, FAN Qiao-ling, TAN Feng, LI Xing, CHAI Yi, MAI Cong-ying, LU Sheng-feng ..... ( 1 )
- Effect of Zuoguiwan on mRNA Expression of Orexin and Its Receptors in Hypothalamus of Ovariectomized Rats**  
YE Su-min, TAN Feng, LIU Fei-xiang, XU Dao-ming, CHAI Yi, ZHANG Ming-yue, FAN Qiao-ling ..... ( 9 )
- Review of Zuoguiwan on Animal Models and Evaluation in Prevention and Treatment of Osteoporosis**  
LIU Fei-xiang, LIN Zi-xuan, XU Dao-ming, YE Su-min, ZHANG Ming-yue, FAN Qiao-ling, TAN Feng, LI Xing, CHAI Yi, SHANG Wen-bin, LU Sheng-feng ..... ( 16 )
- Effect of Xiexintang Containing Serum on Expression of TLR9/MyD88/NF- $\kappa$ B p65 Signal Pathway in Foam Cell**  
YU Hong-hong, YU Qi, CAI Kun, CHEN Xi, SHENG Meng, XU Li-ting, TIAN Wei-yi ..... ( 24 )
- Effect of Qingjin Huatan Tang on COPD of Rat Inflammatory Response by Regulating Autophagy**  
WU Lin-na, ZHAO Mei, XU Guang-lan ..... ( 30 )
- Mechanism of Huangliantang in Treatment of Chronic Non-atrophic Gastritis Based on Harmonization Method**  
LUO Guang-zhi, HAN Cheng-en, HAN Xiao-chun, WANG Yuan, MA Ting, WANG Shi-jun, ZHANG Cheng-bo ..... ( 36 )
- Effect of Erxian Decoction on Cardiac Electrophysiology in Peri-menopausal Rats**  
XIE Hui-hui, WANG Ying, YANG Shuo, DONG Ye-hong, ZHANG Li, HUANG Si-min, XU Peng, LIU Bo ..... ( 43 )
- Effect of Saponins in Pulsatillae Radix on Proliferation and Apoptosis of NCI-H460 Lung Cancer Cells and Screening of Its Differentially Expressed Proteins**  
GUAN Zi-yi, CHEN Lan-ying, LUO Ying-ying, CUI Ya-ru, SHOU Bin-yao, ZHOU Li-fen ..... ( 49 )

<b>Effect of Jiedu Hupan Decoction on Protein Expression of MIP-2 and MIP-1<math>\beta</math> in Rats with Drug-induced Liver Injury</b>	
LIU Chen-xu, WANG Xi, ZHANG Yi-xin, CHU Xin-qiao, HU Wei-wei, GUO Qiu-hong, HAN Xue, BIAO Ya-ning .....	( 57 )
<b>Effect and Mechanism of Active Fraction of <i>Polyrhachis vicina</i> in Treatment of Systemic Lupus Erythematosus(SLE)</b>	
MAO Zhang-zhi, HE Jun-hui, LI Dong-mei, HE Fei, LU Guo-shou, HU Xiao-xi, WEI Gui-ning .....	( 65 )
<b>Effect of Genistein on Oleic Acid-induced Lipid Accumulation in HepG2 Cells</b>	
ZHANG Hong-min, CAO Shi-jie, HE Xin-ya, QIU Feng, ZHANG De-qin .....	( 71 )
<b>Protective Effect of Syringaresinol on Excitatory Damage Induced by Sodium Glutamate in SH-SY5Y Cells</b>	
YAN Qiu-xia, LI Yan-mei, FAN Yan-hua, ZHANG Ming-sheng, YANG Li-shou, YAO Yao, YANG Jue, CHEN Juan, LONG Qun, QIU Jian-fei, YANG Xiao-sheng .....	( 76 )
<b>Regulatory Effect of Qingfei Xiegan Tang on Inflammatory Response and Intestinal Flora of Type 2 Diabetes Mellitus</b>	
DAI Cong-shu, YU Zhuo, LI Guang-yao, LIN Chang-qing .....	( 83 )
<b>Clinical Observation of Addition and Subtraction Therapy of Taohong Siwutang Combined with Chaihu Shugansan to Unstable Angina Pectoris with Type A Behavior Pattern</b>	
YUAN Li-mei, FAN Li-hua, ZHANG Zhi-guo, LI Qing-hai .....	( 89 )
<b>Short-term and Long-term Efficacy of Modified Qingweisan in Treatment of Acute Pulpitis of Children with Syndrome of Hyperactivity of Gastric Fire</b>	
WANG He-sheng, ZHANG Xing-an, WANG Da-qing, ZENG Ling .....	( 95 )
<b>Intervention Effect of Dachuanxiong Fang Multi-component Preparation on Acute Migraine Rat Model by Urine Metabolomics</b>	
MA Shi-yu, SHEN Lan, LIN Xiao, FENG Yi .....	( 101 )
<b>Study on Stability of Volatile Oil in Foeniculi Fructus and Screening Its Antioxidants in Accelerated Oxidation Environment</b>	
TAI Jia, ZOU Jun-bo, SHI Ya-jun, GUO Dong-yan, ZHANG Xiao-fei, WANG Yu, LIANG Yu-lin, LI Jing-lin, CHENG Jiang-xue, YANG Ming, WANG Fang .....	( 108 )
<b>Rapid Identification of Calamina Based on Near-infrared Diffuse Reflectance Spectroscopy and PCA-SVM Algorithm</b>	
CHEN Long, ZHANG Xiao-dong, SUN Yang-bo, CHEN Ke-li .....	( 116 )
<b>Fingerprint Analysis of <i>Bupleurum chinense</i> Roots from Different Origins by UPLC/Q-TOF-MS</b>	
YE Yao-hui, SHI Yi, ZHANG Bo-wen, CHEN Wen-bin, MA Ya-nan, YU Huan .....	( 124 )
<b>Comparison of Volatile Oil of Domestic and Foreign <i>Panax quinquefolii</i> Radix by HS-SPME/GC-MS</b>	
SI Yu, LIU Yun-he, WANG Zhong-yao, LIU Jin-ping, LI Ping-ya, JIAO Yu-feng .....	( 130 )
<b>Suspension Culture and Alkaloid Content of <i>Pinelliae Rhizoma</i> Tuber Under Stimulation of Salicylic Acid</b>	
TAO Xing-kui, HUANG Ming-mei, XUE Jian-ping, ZHANG Ai-min, ZHANG Xing-tao, WANG Hai-chao .....	( 139 )

<b>Determination of Biflavones in <i>Ginkgo biloba</i> Leaves of Different Ages by UPLC-TQ-MS</b>	
YU Dan-hong, JIANG Wei, YAO Xin, XUE Ping, MAO Chen-mei .....	(145)
<b>Simultaneous Determination of 12 Components in Pudilan Xiaoyan Oral Liquid by Ultra-high Performance Liquid Chromatography Coupled with Triple Quadrupole Mass Spectrometry</b>	
GAO Wen-ya, GU Xin-ru, ZHAO Li-juan, ZHOU Yan-yan, BIAN Bao-lin, ZHAO Hai-yu .....	(150)
<b>HPLC Determination of Four Flavonoids of <i>Aurantii Fructus Immaturus</i> in Niu Huang Qingwei Pills and Genetic Analysis of Medicinal Materials</b>	
LIU Jing-jing, HU Xiao-ru, HE Yi, DAI Zhong, MA Shuang-cheng .....	(155)
<b>Study on Mechanism of Dahuang Huanglian Xiexintang in Treatment of Type 2 Diabetes Mellitus Based on Network Pharmacology</b>	
SHI Lan-er, NIE Ke-chao, ZHANG Wen-jing, ZHENG Mei-si, LIN Zhi-qin, ZHU Zhang-zhi .....	(160)
<b>Intestinal Microflora Diversity of Rats Treated with <i>Scutellariae Radix</i> Based on Theory of "Insight into Abdomen"</b>	
LIU Hong-yu, ZHANG Ya-nan, LI Zi-hui, CHEN Ping-ping, KUANG Hai-xue, LIU Shu-min .....	(167)
<b>Quantitative Study of Yang-tonifying Herbs Distributing to Kidney Meridian by Using Maximum Similarity Algorithm</b>	
JIANG Xi-wei, ZOU Jia-li, XIANG Rong-wu, YU Jing, GAO Xiang, LIANG Jian-kun .....	(174)
<b>Correlation Between Traditional Chinese Medicine and Intestinal Microecology</b>	
DU Shan, ZHOU Yue, CHEN Bin .....	(182)
<b>Overview on Animal Models of Throat Impediment</b>	
WU Jia-bao, HUANG Dong-fang, WANG Ye, MENG Jie, LU Jin-fu, ZHAO Xia .....	(189)
<b>Anti-cancer Effect of Anthraquinones in <i>Polygoni Multiflori Radix</i></b>	
ZHU Yi, LI Chen, LI Hong-liang, WANG Xuan-bin .....	(196)
<b>Advances in Research on Antipruritic Effect of Xiaofengsan in <i>Orthodox Manual of External Diseases</i></b>	
SUN Meng-han, TANG Zong-xiang, YUAN Xiao-lin .....	(206)
<b>Research Progress of <i>Laportea bulbifera</i></b>	
CHEN Yin-rui, XU Wen-fen, MA Min-long, SUN Qing-wen .....	(214)
<b>Research Progress of Granulation Technology for Taste Masking of Pharmaceutical Preparation</b>	
YAN Jie, CHEN Zhi-yuan, GUAN Zhi-yu, WANG Yi-cheng, WU Wen-ting, CHEN Li-hua, ZHU Wei-feng, LIU Jing, ZHU Ye .....	(221)
<b>Methodology for Screening Effective Substances of Chinese Herbal Medicine for Reducing Serum Uric Acid Level</b>	
REN Ling-ling, ZHANG Chi, ZENG Jin-xiang, MAO Zhu, LI Min, ZHU Ji-xiao, ZHU Yu-ye, ZHONG Guo-yue, LIU Hong-ning .....	(227)

Responsible editor: ZHANG Feng-feng

# 口喉消炎 止痛治溃疡

## 请喷三金牌桂林西瓜霜



### 喷一喷，直达患处

🔥 口腔溃疡   🔥 咽喉肿痛   🔥 干痒发炎

三金牌桂林西瓜霜喷剂，以传统去火中药西瓜霜为主药，配以黄连、冰片、薄荷脑、山豆根、黄柏等14味中药，主治因上火引起的口腔溃疡，适合于咽喉肿痛、干痒、口舌生疮、牙龈肿痛出血等症状。

三金牌桂林西瓜霜喷剂，喷一喷，清火消肿，止痛利咽，咽喉口腔健康清新。

**桂林三金药业股份有限公司**

请按药品说明书或在药师指导下购买和使用   不良反应：尚不明确。   禁忌：尚不明确。   桂药广审(文)第2018100313号   产品批号：国药准字Z45021599   北京市药监局2018年10月准予备案



广告