

# 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 9 期      2018 年 5 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

· 专论 ·

试论气络病变治疗十法  
吴以岭, 赵珊珊, 魏聪, 常丽萍 ..... ( 1 )

· 制药与工艺 ·

PLGA-克班宁纳米粒的制备、表征及体外释药规律分析  
程欣, 孔淑君, 王辉, 黄秋艳, 汪红梅, 马云淑 ..... ( 9 )

基于大鼠离体外翻肠囊模型考察杜仲提取物在正常和  
自发性高血压状态下的肠吸收特性差异  
吴林霖, 李梅, 巩仔鹏, 陈亭亭, 鲍红松, 陈艳,  
胡贺佳, 李月婷, 李春, 王爱民, 李勇军, 王永林 ..... ( 15 )

扶正化瘀方对原代大鼠肝细胞中 CYP450 的影响  
张亚蕾, 郑天慧, 刘伟, 陶艳艳, 王长虹, 杨涛,  
刘成海 ..... ( 22 )

蒿甲醚口服微乳原位凝胶的制备与评价  
薛鸿娇, 唐华争, 张琪, 郭坤坤, 杨兆祥, 蔡铮 ..... ( 29 )

· 资源与鉴定 ·

黄芩 ITS2 条形码数据库构建及其种子的 DNA 条形码  
鉴定方法建立  
刘金欣, 魏妙洁, 李耿, 程硕涵, 赵春颖, 阿里穆斯,  
石林春 ..... ( 37 )

华重楼皂苷类化学成分与生态因子的相关性  
陈铁柱, 文飞燕, 张涛, 薛丹, 夏燕莉, 杨玉霞,  
张浩 ..... ( 46 )

甘肃不同产地及不同生长年限红芪和黄芪中 4 种异黄酮  
类成分的含量对比  
叶迎, 王瑞海, 柏冬, 薛欣, 李玉梅, 张立石, 苗青,  
许京, 刘丽梅 ..... ( 52 )

· 化学与分析 ·

胡颓子根的化学成分分离鉴定

邹菊英, 陈卫红, 苏维, 谢瑜, 方磊 ..... ( 59 )

紫薇不同部位药材质量控制方法

刘春花, 潘洁, 孙佳, 陆苑, 马雪, 李勇军, 龙庆德, 张旭, 王爱民, 王永林 ..... ( 64 )

六种钙类矿物药元素谱的 X 射线荧光光谱法无标样分析

孙琳, 梁鹏晨, 严铸云, 彭镰心, 陈新, 李小翠 ..... ( 70 )

· 药物代谢 ·

基于 UPLC-Q-TOF/MS 分析痰热清注射液在大鼠体内的入血成分

王志鹏, 孙亮, 张凤, 高守红, 陈万生, 柴逸峰 ..... ( 77 )

· 药理 ·

基于  $\beta_2$ AR/ $\beta$ -arrestin2/NF- $\kappa$ B 信号通路的清肠化湿颗粒防治溃疡性结肠炎的作用机制

戴路明, 朱磊, 沈洪 ..... ( 86 )

冬病夏治方穴位贴敷对哮喘豚鼠气道炎症及肠道菌群的影响

乡世健, 盛华芳, 吕亚梅, 安佰超, 吴文锋, 曹思玮, 阮世发, 王著显, 陈活记, 翁立冬, 朱红霞, 刘强 ..... ( 95 )

心肌康对血管紧张素 II 诱导的人脐静脉内皮细胞损伤的作用

蔡毓威, 程攀, 黄光耀, 连凤珍, 王小云, 胡娟, 张永学, 高杉 ..... ( 103 )

灯盏细辛和赤芍配伍组方对大鼠脑缺血再灌注损伤的保护作用及对 NF- $\kappa$ B 通路的影响

刘亭, 刘香香, 陈亭亭, 刘帆, 侯佳, 孙佳, 王爱民 ..... ( 111 )

三七总皂苷联用阿司匹林对后者抗血小板凝集作用的影响

郭爽, 张强, 田志浩, 李鹏跃, 杜守颖, 陆洋 ..... ( 116 )

强心康颗粒对慢性心衰大鼠心肌细胞病理形态学腺苷酸转位酶, PGC-1 $\alpha$  mRNA 表达的影响

张晓华, 刘淑荣, 钱锋, 邱琳, 刘新宇, 赵宏宇, 张春柳 ..... ( 121 )

益肾养阴合剂通过 CXCR4/STAT3 信号通路对 MRL/lpr 小鼠肾脏发挥保护作用

吴洋, 李东云, 张巍琼, 吴松柏 ..... ( 127 )

PBNA-413 对心肌缺血/再灌注损伤大鼠凋亡相关蛋白及基因表达的影响

汪琪, 廖坚, 谢渭林, 许培华, 曾丽梅, 黄志华 ..... ( 134 )

黄芩苷对扩张型心肌病大鼠心室重构、心室肌细胞凋亡及  $\beta_1$ -AR/PKA/CaMK II 信号通路的影响

王赛, 胡焯, 包斯图 ..... ( 140 )

黄芩素对中波紫外线诱导角质形成细胞凋亡及相关细胞因子表达的影响

张丽宏, 傅云, 廖建, 张琼, 王冬梅, 王业秋, 李建民 ..... ( 145 )

藏荆芥提取物对脑出血大鼠 AQP-4 及 NGF 表达的影响

刘志明, 黄山, 常柄权, 罗永洋, 李斌, 王聚乐 ..... ( 150 )

金振口服液对 LPS 致急性肺损伤模型小鼠 NF- $\kappa$ B, MAPK 信号通路的影响

宗绍波, 孙兰, 吕耀中, 周军, 王振中, 萧伟 ..... (155)

金复康口服液诱导肺癌细胞 A549 凋亡的机制

蒋义鑫, 徐元, 周之毅, 章丹丹 ..... (160)

· 临床 ·

丹参注射液联合神经节苷脂治疗 ASIA 分级 C, D 级脊髓损伤患者康复期疗效及机制

卜范艳, 张昕红, 阮智, 马辉, 陈文礼, 王伊林 ..... (166)

八珍汤加减联合艾灸对中晚期宫颈癌放化疗患者耐受力、止痛效果和生活质量的影响

杨海霞, 郭璟静, 静茹 ..... (173)

加味葛根汤联合正脊手法治疗颈椎间盘突出症疗效及对患者血清细胞炎性因子、疼痛介质的影响

王大力, 樊炜骏, 杨凤妮 ..... (179)

蠲痹汤加减联合双氯芬酸钠治疗腰椎间盘突出症肾虚寒湿证的疗效观察

袁冬, 李慧英 ..... (184)

温阳活血解毒汤对男性阳气亏虚血瘀型慢性心力衰竭患者睾酮及心率变异性的影响

贾俊兵, 樊瑞红 ..... (190)

加味杞菊地黄汤辨治妊娠期高血压-子痫前期对妊娠结局的影响

许浪萍, 潘群玉, 陈艳丹 ..... (196)

真武汤合保元汤对 2 型心肾综合征阳气亏虚证兼血瘀证心肾功能的影响

张秀荣, 薛一涛 ..... (202)

· 考证 ·

三叶青名实考辨

丁富娟, 李慧芬, 崔伟亮, 蒋海强, 刘江亭 ..... (208)

· 综述 ·

枸杞多糖的神经保护作用机制研究进展

于国华, 裴纹莹, 孙慧娟, 王嘉馨, 王武斌, 李娟, 李森, 卢涛, 史渊源, 董玲 ..... (213)

巴戟天低聚糖类成分研究进展

卢洪梅, 邓少东, 卢阳佳, 李玉运, 何银妹 ..... (220)

清热解毒类中药抗炎机制研究进展

苗雨露, 张雯霞, 王玉娥, 李媛, 岳永花, 倪艳 ..... (228)

· 信息 ·

满洲里市人民医院概况 ..... (封二、封三)

**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: syfjx\_2010@188.com  
Website: http://www.syfjxzz.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

**CONTENTS IN BRIEF**

**Discussion on Ten Therapeutic Methods for Qi Luo Disease**

WU Yi-ling, ZHAO Shan-shan, WEI Cong,  
CHANG Li-ping ..... ( 1 )

**Preparation and Characterization of PLGA-crebanine**

**Nanoparticles and Analysis of Its *in Vitro* Release**  
CHENG Xin, KONG Shu-jun, WANG Hui, HUANG Qiu-yan,  
WANG Hong-mei, MA Yun-shu ..... ( 9 )

**Intestinal Absorption Characteristics of Eucommiae Cortex**

**Extract Under Normal and Spontaneous Hypertensive Conditions Based on Everted Gut Sac Model *in Vitro***  
WU Lin-lin, LI Mei, GONG Zi-peng, CHEN Ting-ting,  
BAO Hong-song, CHEN Yan, HU He-jia, LI Yue-ting,  
LI Chun, WANG Ai-min, LI Yong-jun, WANG Yong-lin ... ( 15 )

**Effect of Fuzheng Huayu Recipe on CYP450 in**

**Primary Rat Hepatocytes**  
ZHANG Ya-lei, ZHENG Tian-hui, LIU Wei, TAO Yan-yan,  
WANG Chang-hong, YANG Tao, LIU Cheng-hai ..... ( 22 )

**Preparation and Evaluation of Artemether Oral**

**Microemulsion-*in situ* Gel**  
XUE Hong-jiao, TANG Hua-zheng, ZHANG Qi,  
GUO Kun-kun, YANG Zhao-xiang, CAI Zheng ..... ( 29 )

**Construction of ITS2 Barcode Database of Scutellariae**

**Radix and Establishment of DNA Barcode Identification Method for Its Seeds**  
LIU Jin-xin, WEI Miao-jie, LI Geng, CHENG Shuo-han,  
ZHAO Chun-ying, BORJIGIDAI Almaz, SHI Lin-chun ..... ( 37 )

**Correlation Between Saponins and Ecological Factors of**

***Paris polyphylla var. chinensis***  
CHEN Tie-zhu, WEN Fei-yan, ZHANG Tao, XUE Dan,  
XIA Yan-li, YANG Yu-xia, ZHANG Hao ..... ( 46 )

<b>Comparison on Contents of 4 Kinds of Isoflavones in Hedysari Radix and Astragali Radix from Different Habitats and Different Years of Growth in Gansu</b>	
YE Ying, WANG Rui-hai, BAI Dong, XUE Xin, LI Yu-mei, ZHANG Li-shi, MIAO Qing, XU Jing, LIU Li-mei .....	( 52 )
<b>Chemical Constituents from Roots of <i>Elaeagnus pungens</i></b>	
ZOU Ju-ying, CHEN Wei-hong, SU Wei, XIE Yu, FANG Lei .....	( 59 )
<b>Quality Control Method for Different Parts of <i>Lagerstroemia indica</i></b>	
LIU Chun-hua, PAN Jie, SUN Jia, LU Yuan, MA Xue, LI Yong-jun, LONG Qing-de, ZHANG Xu, WANG Ai-min, WANG Yong-lin .....	( 64 )
<b>Standard-less Analysis of Six Kinds of Calcium Mineral Drug Elements by X-Ray Fluorescence Spectrometry</b>	
SUN Lin, LIANG Peng-chen, YAN Zhu-yun, PENG Lian-xin, CHEN Xin, LI Xiao-cui .....	( 70 )
<b>Qualitative Analysis of Components Absorbed into Rat Blood After Administration of Tanreqing Injection by UPLC-Q-TOF/MS</b>	
WANG Zhi-peng, SUN Liang, ZHANG Feng, GAO Shou-hong, CHEN Wan-sheng, CHAI Yi-feng .....	( 77 )
<b>Effect of Qingchang Huashi Granule on <math>\beta_2</math>AR/<math>\beta</math>-arrestin2 /NF-<math>\kappa</math>B Signaling Pathway in Ulcerative Colitis</b>	
DAI Lu-ming, ZHU Lei, SHEN Hong .....	( 86 )
<b>Effect of Dongbing Xiazhi Fang on Airway Inflammation and Intestinal Flora in Guinea Pig Model of Asthma Through Acupoint Application</b>	
XIANG Shi-jian, SHENG Hua-fang, LYU Ya-mei, AN Bai-chao, WU Wen-feng, CAO Si-wei, RUAN Shi-fa, WANG Zhu-xian, CHEN Huo-ji, WENG Li-dong, ZHU Hong-xia, LIU Qiang .....	( 95 )
<b>Effect of Xinji Erkang on Human Umbilical Vein Endothelial Cells in Jury Induced by Angiotensin II</b>	
CAI Guo-wei, CHENG Pan, HUANG Guang-yao, LIAN Feng-zhen, WANG Xiao-yun, HU Juan, ZHANG Yong-xue, GAO Shan .....	( 103 )
<b>Effect of Combined Formula of Erigerontis Herba and Paeoniae Radix Rubra on Cerebral Ischemia Reperfusion Injury and NF-<math>\kappa</math>B Pathway in Rats</b>	
LIU Ting, LIU Xiang-xiang, CHEN Ting-ting, LIU Fan, HOU Jia, SUN Jia, WANG Ai-min .....	( 111 )
<b>Effect of Notoginseng Total Saponins Combined with Aspirin on Platelet Aggregation</b>	
GUO Shuang, ZHANG Qiang, TIAN Zhi-hao, LI Peng-yue, DU Shou-ying, LU Yang .....	( 116 )
<b>Effect of Qiangxinkang Granule on Pathomorphology of Cardiac Myocytes and Expressions of Adenylate Translocation Enzyme mRNA and PGC-1<math>\alpha</math> mRNA in Rats with Chronic Heart Failure</b>	
ZHANG Xiao-hua, LIU Shu-rong, QIAN Feng, DI Lin, LIU Xin-yu, ZHAO Hong-yu, ZHANG Chun-liu .....	( 121 )
<b>Protective Effect of Yishen Yangyin Mixture on Lupus Nephritis in MRL/lpr Mice</b>	
WU Yang, LI Dong-yun, ZHANG Wei-qiong, WU Song-bai .....	( 127 )
<b>Protective Effect of PBNA-413 on Myocardial Ischemia Reperfusion Rats by Inhibiting Apoptosis</b>	
WANG Qi, LIAO Jian, XIE Wei-lin, XU Pei-hua, ZENG Li-mei, HUANG Zhi-hua .....	( 134 )
<b>Effect of Baicalin on Ventricular Remodeling, Ventricular Myocyte Apoptosis and <math>\beta_1</math>-AR/PKA/CaMK II Signaling Pathway in Dilated Cardiomyopathy Rats</b>	
WANG Sai, HU Ye, BAO Si-tu .....	( 140 )
<b>Effect of Baicalein on Ultraviolet B-induced Apoptosis and Expression of Related Cytokines of Human Keratinocytes</b>	
ZHANG Li-hong, FU Yun, LIAO Jian, ZHANG Qiong, WANG Dong-mei, WANG Ye-qiu, LI Jian-min .....	( 145 )

<b>Effect of <i>Nepeta angustifolia</i> Extract on Expressions of AQP-4 and NGF After Intracerebral Hemorrhage in Rats</b>	
LIU Zhi-ming, HUANG Shan, CHANG Bing-quan, LUO Yong-yang, LI Bin, WANG Ju-le .....	(150)
<b>Effect of Jinzhen Oral Liquid on NF-<math>\kappa</math>B, MAPK Signaling Pathway in Mice with LPS-induced Acute Lung Injury</b>	
ZONG Shao-bo, SUN Lan, LYU Yao-zhong, ZHOU Jun, WANG Zhen-zhong, XIAO Wei .....	(155)
<b>Mechanism of Jinfukang Oral Liquid in Inducing Apoptosis of Non-small Cell Lung Cancer Cell Line A549</b>	
JIANG Yi-xin, XU Yuan, ZHOU Zhi-yi, ZHANG Dan-dan .....	(160)
<b>Efficacy and Mechanism of Danshen Injection Combined with Ganglioside in Treatment of ASIA Grade C and D Spinal Cord Injury</b>	
BU Fan-yan, ZHANG Xin-hong, RUAN Zhi, MA Hui, CHEN Wen-li, WANG Yi-lin .....	(166)
<b>Effect of Modified Bazhentang Combined with Moxa-moxibustion on Tolerance, Pain Relief and Life Quality of Patients Receiving Radiotherapy and Chemotherapy for Advanced Cervical Cancer</b>	
YANG Hai-xia, GUO Jing-jing, JING Ru .....	(173)
<b>Clinical Efficacy of Modified Gegotang Combined with Spinal Manipulation and Its Effect on Inflammatory Factors and Pain Mediators of Cervical Disc Herniation</b>	
WANG Da-li, FAN Wei-jun, YANG Feng-ni .....	(179)
<b>Effect of Modified Yibitang Combined with Diclofenac Sodium in Treating Lumbar Disc Herniation with Kidney Deficiency Syndrome</b>	
YUAN Dong, LI Hui-ying .....	(184)
<b>Effect of Wenyang Huoxue Jiedu Decoction on Testosterone and Heart Rate Variability in Male Patients with Chronic Heart Failure</b>	
JIA Jun-bing, FAN Rui-hong .....	(190)
<b>Effect of Modified Qiju Dihuang Tang Based on Syndrome Differentiation on Pregnancy Outcome of Hypertensive Disorder Complicating Pregnancy at Preeclampsia</b>	
XU Lang-ping, PAN Qun-yu, CHEN Yan-dan .....	(196)
<b>Effect of Zhenwutang Combined with Baoyuantang on Heart and Renal Function of Patients with Type 2 Cardiorenal Syndrome</b>	
ZHANG Xiu-rong, XUE Yi-tao .....	(202)
<b>Discrimination of Name and Nature of <i>Tetrastigma hemsleyanum</i></b>	
DING Fu-juan, LI Hui-fen, CUI Wei-liang, JIANG Hai-qiang, LIU Jiang-ting .....	(208)
<b>Neuroprotective Effect and Relative Mechanisms of Lycii Fructus Polysaccharide</b>	
YU Guo-hua, PEI Wen-xuan, SUN Hui-juan, WANG Jia-xin, WANG Wu-bin, LI Juan, LI Sen, LU Tao, SHI Yuan-yuan, DONG Ling .....	(213)
<b>Research Progress on Oligosaccharides of <i>Morindae Officinalis Radix</i></b>	
LU Hong-mei, DENG Shao-dong, LU Yang-jia, LI Yu-yun, HE Yin-mei .....	(220)
<b>Anti-inflammatory Mechanism of Antipyretic and Detoxifying Traditional Chinese Medicine</b>	
MIAO Yu-lu, ZHANG Wen-xia, WANG Yu-e, LI Yuan, YUE Yong-hua, NI Yan .....	(228)