



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



QK1831664

ZHONGGUO

SHIYAN

FANGJIXUE

ZAZHI

中国实验方剂学杂志

— Chinese Journal of Experimental Traditional Medical Formulae —

本期推荐

- 白及化学成分分离鉴定
- 镇肝熄风汤治疗原发性高血压的临床及机制研究进展
- 黄芩提取物制备过程中化学成分及药效的变化规律分析
- 桂枝汤含药血清对不同比例Poly(I:C)-LPS组合刺激肺巨噬细胞的干预效应

14
2018

2018年7月 第24卷 第14期
July Vol.24 No.14



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 14 期 2018 年 7 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: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
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 ·
黄芩提取物制备过程中化学成分及药效的变化规律分析
苏青, 吴婷婷, 黄雅兰, 凌保东, 吴纯洁 (1)
款冬花不同炮制品的 HPLC 指纹图谱比较
薛非非, 王勃, 吕辰子, 何美菁, 张朔生 (7)
基于外翻肠囊模型分析玉簪花总黄酮提取物及其复合
粒子的肠吸收特性
王秀梅, 梁新丽, 管咏梅, 王芳, 美丽, 李远辉,
孔小强, 杨明 (15)
· 资源与鉴定 ·
威灵仙一种新伪品的生药学和分子生药学鉴别
张雪, 高雅, 杨晓涵, 臧艺玫, 刘春生 (20)
白及内生真菌的分离鉴定及其胞外多糖的抗氧化活性
分析
董燕婧, 程访, 许小珍, 曾艺, 张寿文 (24)
冬凌草 IrCYP71 基因的克隆和功能
陈延清, 胡志刚, 黄必胜, 刘迪 (29)
辽宁省白头翁属植物分类与基于 ITS2 的 DNA 条形码分子
鉴定
梁勇满, 许亮, 陈思有, 王佳豪, 王冰, 康廷国 (36)
· 化学与分析 ·
白及化学成分分离鉴定
戴鸥, 仰莲, 周勤梅, 彭成 (43)
狗牙根全草的化学成分分离鉴定
顾爱彤, 李碧君, 张卿, 王峰 (48)
娑罗子药材 HPLC 指纹图谱的建立及其在药材鉴定中的
应用
石召华, 叶利春, 关小羽, 杜文杰, 张晓存,
梅之南 (52)

基于多元统计分析的鹿茸品质评价

刘威, 龚伟, 张嵩, 李可强, 张振秋, 李峰 (57)

金边土鳖 HPLC 指纹图谱及氨基酸含量测定

刘梦云, 毕晓黎, 陈伟韬, 李养学, 江洁仪 (63)

甘肃红芪中黄芪甲苷存在的判定以及一年生、二年生红芪、黄芪皂苷和总黄酮含量对比

叶迎, 包强, 王瑞海, 柏冬, 田生华, 刘培元, 刘卫东, 彭建平, 陈永刚, 杨丽霞, 姜良恩, 刘丽梅 (69)

· 药物代谢 ·

铁线蕨总黄酮提取物对哮喘模型大鼠血清代谢物的影响

阿依古·吐热克, 阿不都热依木·玉苏甫, 巴吐尔·买买提明, 米合勒阿依·艾克帕, 麦合苏木·艾克木 (76)

· 药理 ·

桂枝汤含药血清对不同比例 Poly(I:C)-LPS 组合刺激肺巨噬细胞的干预效应

战晓玲, 唐恬, 徐文慧, 马冀, 李兰芳, 李沧海, 姜廷良 (84)

半夏泻心汤人含药血清对 HP 感染 GES-1 细胞 TGF-β/Smad 信号通路的影响

黄彦平, 詹达法, 黄海, 陈少芳 (91)

槲皮素自微乳的抗肿瘤作用及其机制分析

孙阳, 于水澜, 吴勃岩, 车艳新, 王雪 (97)

人参多糖对 LPS 诱导小鼠巨噬细胞炎症因子生成的抑制作用及其机制

刘鹏飞, 朱伟, 万进, 邹瞭南 (102)

叶下珠复方 II 号对肝癌细胞增殖和胰岛素样生长因子-1 受体信号通路转录的作用

陈滨, 郭洁文, 何素, 李常青, 杜欣芸, 李俏敏, 李阿荣 (108)

芳香新塔花总黄酮对大鼠心肌缺血再灌注损伤的保护作用及机制

申静, 刘冲, 陈文 (115)

二陈汤加味对慢性阻塞性肺疾病细支气管壁细胞外基质重塑的影响

吴珂, 尚立芝, 谢文英, 张静, 王俊月, 包永生, 季书 (122)

基于 Nr2/ARE 信号通路探讨清热化痰方对大鼠脑缺血再灌注损伤氧化应激反应的影响

胡跃强, 秦红玲, 唐农, 李媛媛, 王启芝, 廖泰荣 (128)

小柴胡汤及其寒热减方对结肠癌细胞增殖、脂肪及碱性磷酸酶的影响

许彬, 梁晓峰, 鲁佳, 刘晓秋 (134)

甘草附子汤对佐剂性关节炎小鼠的治疗作用

蔡悦, 梁红玉, 王建立, 于洋, 张晓洁 (142)

夏枯草硫酸多糖对 CCl₄ 致大鼠肝纤维化及 TGF-β₁ 诱导的大鼠肝星状细胞活化的影响

付月月, 朱兰平, 张国梁, 张双霞 (147)

强心活力方对阿霉素引起心脏毒性的保护作用

高玲, 栗栗, 杨婷, 王迪, 王冰梅 (153)

· 临床 ·

参附注射液联合痰热清注射液对老年晚期肺癌脾虚痰湿证化疗的减毒增效作用

柏茂树, 王熙才, 孙娇, 刘继明, 梁百武, 梁鲜颖 (159)

生脉散合桂枝甘草龙骨牡蛎汤加减治疗风湿性心脏病瓣膜置换术后持续性房颤患者的疗效及机制

韦艳, 郑海军, 晋辉, 孙亚超 (164)

丹芪益肾方对糖尿病肾病气阴两虚夹瘀证患者血管内皮功能和尿胰岛素样生长因子的影响

李建平, 张元丽, 马艳华, 朱德礼, 张宇, 梁浩 (170)

消斑饮加减治疗面部激素依赖性皮炎的疗效及对 Th1/Th2 细胞水平的影响

周君武, 薛素琴 (176)

· 数据挖掘 ·

基于 Apriori 算法与网络关联的大黄-甘草药对数据挖掘分析

曹玉洁, 陈艳琰, 唐于平, 金益, 沈娟, 康安, 周桂生, 尚尔鑫, 段金康 (182)

淫羊藿治疗股骨头坏死的分子机制分析

梁学振, 许波, 李刚, 骆帝, 盖帅帅, 阎博昭, 李嘉程, 夏聪敏 (188)

· 药事管理 ·

互联网+模式下从产业价值链视角分析山东平邑金银花产业链的整合策略

李金凤, 李静, 陈丽梅, 李佳, 张永清 (195)

· 本草考证 ·

苦苣的本草考证

李晓鹏, 朱忠华 (202)

· 综述 ·

三七皂苷合成及调控机制的研究进展

李泽东, 赵荣华, 张兆传, 俞捷, 顾雯, 贺森, 曹冠华 (207)

天然产物抗肝纤维化作用及其机制研究进展

杨华蕊, 徐妍, 杨永寿, 肖培云 (214)

镇肝熄风汤治疗原发性高血压的临床及机制研究进展

董蓉蓉, 李敏, 荆鲁 (222)

肿瘤细胞诱导的血小板聚集在肿瘤转移中的作用及鸡血藤治疗的应用展望

孙立东, 李琦, 尹婕, 王娅杰, 杨庆, 陈颖, 李玉洁, 翁小刚, 蔡维艳, 朱晓新 (229)

· 信息 ·

《中国实验方剂学杂志》第五届编委会暨中医药研究现代化发展方向高峰论坛(第一轮通知) (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 * 2018-14

本期责任编辑: 顾雪竹

CHINESE JOURNAL OF EXPERIMENTAL TRADITIONAL
MEDICAL FORMULAE

Semimonthly

Established in October, 1995

Vol. 24 No. 14

July 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: 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

ISSN 1005-9903
CN 11-3495/R

CONTENTS IN BRIEF

Research on Changes of Composition and Efficacy of
Scutellariae Radix Extract in Process of Preparation

SU Qing, WU Ting-ting, HUANG Ya-lan, LING Bao-dong,
WU Chun-jie (1)

Comparison of HPLC Fingerprints of Different Processed
Products of Farfarae Flos

XUE Fei-fei, WANG Bo, LYU Chen-zi, HE Mei-jing,
ZHANG Shuo-sheng (7)

Analysis on Intestinal Absorption Properties of Total

Flavonoids Extract of *Hosta plantaginea* Dried
Flowers and Its Composite Particles Based on
Everted Gut Sac Model

WANG Xiu-mei, LIANG Xin-li, GUAN Yong-mei,
WANG Fang, MEI li, LI Yuan-hui, KONG Xiao-qiang,
YANG Ming (15)

Pharmacognostical Identification and Molecular

Pharmacognostical Identification on a New Adulterant of
Clematidis Radix et Rhizoma

ZHANG Xue, GAO Ya, YANG Xiao-han, ZANG Yi-mei,
LIU Chun-sheng (20)

Isolation and Identification of Endophytic Fungi of *Bletillae*

Rhizoma and Investigation of Antioxidative Activity of Its
Exopolysaccharides

DONG Yan-jing, CHENG Fang, XU Xiao-zhen, ZENG Yi,
ZHANG Shou-wen (24)

Gene Cloning and Functional Characterization of *IrCYP71*

Gene in *Isodon rubescens* Leaves

CHEN Yan-qing, HU Zhi-gang, HUANG Bi-sheng,
LIU Di (29)

Classification of *Pulsatilla* Adans and Molecular

Identification of DNA Barcodes Based on
ITS2 Sequence in Liaoning Province

LIANG Yong-man, XU Liang, CHEN Si-you, WANG Jia-hao,
WANG Bing, KANG Ting-guo (36)

Chemical Constituents from Tubers of *Bletilla striata*
DAI Ou, YANG Lian, ZHOU Qin-mei, PENG Cheng (43)

Chemical Constituents of Whole Plant of *Cynodon dactylon*
GU Ai-tong, LI Bi-jun, ZHANG Qing, WANG Feng (48)

HPLC Fingerprint of *Aesculi Semen* and Its Application in Identification of Medicinal Materials
SHI Zhao-hua, YE Li-chun, GUAN Xiao-yu, DU Wen-jie, ZHANG Xiao-cun, MEI Zhi-nan (52)

Quality Evaluation of *Cervi Cornu Pantotrichum* Based on Multivariate Statistical Analysis
LIU Wei, GONG Wei, ZHANG Song, LI Ke-qiang, ZHANG Zhen-qiu, LI Feng (57)

Fingerprint and Amino Acids Quantitative Determination for *Opisthoplatia orientalis* by HPLC
LIU Meng-yun, BI Xiao-li, CHEN Wei-tao, LI Yang-xue, JIANG Jie-yi (63)

Determination of Astragaloside IV in Gansu Hedysari Radix and Comparison of Astragaloside IV and Total Saponins Content in One Year Old and Two Years Old Hedysari Radix and Astragali Radix
YE Ying, BAO Qiang, WANG Rui-hai, BAI Dong, TIAN Sheng-hua, LIU Pei-yuan, LIU Wei-dong, PENG Jian-ping, CHEN Yong-gang, YANG Li-xia, JIANG Liang-en, LIU Li-mei (69)

Effect of Total Flavonoids Extract of *Adiantum capillus-veneris* on Serum Metabolites in Asthmatic Rat Model
AYIGU·Tureke, ABDIRYIM·Yusup, BATUER·Mamtimin, MIHELEAYI·Aikepa, MAIHESUMU·Aikemu (76)

Interference Effect of Guizhitang Drug Serum on Rat Macrophages NR8383 Cells Provoked by Different Ratio of Poly(I:C)-LPS
ZHAN Xiao-ling, TANG Tian, XU Wen-hui, MA Ji, LI Lan-fang, LI Cang-hai, JIANG Ting-liang (84)

Effect of Banxia Xiexin Tang Medicated Serum on HP-infected GES-1 Cells Through TGF-β/Smad Signaling Pathway
HUANG Yan-ping, CHAM TAT FATT, HUANG Hai, CHEN Shao-fang (91)

Anti-tumor Effect and Mechanisms of Quercetin Self-nanoemulsifying Drug Delivery System
SUN Yang, YU Shui-lan, WU Bo-yan, CHE Yan-xin, WANG Xue (97)

Inhibitory Effect of Ginseng Radix et Rhizoma Polysaccharide on LPS-induced Inflammatory Factor Formation in Mouse Peritoneal Macrophages and Its Mechanism
LIU Peng-fei, ZHU Wei, WAN Jin, ZOU Liao-nan (102)

Proliferation Effect of Compound Phyllanthus Urinsria II and Insulin-like Growth Factor-1 Receptor Signaling Transcription
CHEN Bin, GUO Jie-wen, HE Su, LI Chang-qing, DU Xin-yun, LI Qiao-min, LI A-rong (108)

Protective Effect and Mechanism of *Ziziphora clinopodioides* Flavonoids Against Myocardial Ischemia-reperfusion Injury in Rats
SHEN Jing, LIU Chong, CHEN Wen (115)

Effect of Modified Erchentang on Extracellular Matrix Remodeling in Bronchiole of Rats with Chronic Obstructive Pulmonary Disease
WU Ke, SHANG Li-zhi, XIE Wen-ying, ZHANG Jing, WANG Jun-yue, BAO Yong-sheng, JI Shu (122)

Qingre Huayu Prescription Reduces Oxidative Stress in Rats with Cerebral Ischemia-reperfusion Injury Through Activating Nrf2/ARE Signaling Pathway
HU Yue-qiang, QIN Hong-ling, TANG Nong, LI Yuan-yuan, WANG Qi-zhi, LIAO Tai-rong (128)

Effect of Xiao Chaihutang and Its Cold and Hot Herb-subtracted Formulae on Human Colon Carcinoma Cell Proliferation, Lipid Accumulation and Alkaline Phosphatase
XU Bin, LIANG Xiao-feng, LU Jia, LIU Xiao-qiu (134)

Rapeutic Effect of Gancao Fuzi Tang on Adjuvant Arthritis Mouse Model
CAI Yue, LIANG Hong-yu, WANG Jian-li, YU Yang, ZHANG Xiao-jie (142)

Effect of Prunellae Spica Sulfated Polysaccharide on Carbon Tetrachloride (CCl₄)-induced Hepatic Fibrosis and Activation of Hepatic Stellate Cell Induced by TGF-β₁
FU Yue-yue, ZHU Lan-ping, ZHANG Guo-liang, ZHANG Shuang-xia (147)

Cardioprotective Effect of Qiangxin Huoli Recipe on Adriamycin-induced Cardiotoxicity
GAO Ling, SU Li, YANG Ting, WANG Di, WANG Bing-mei (153)

Toxicity Reducing and Efficacy Enhancing Effect of Shengfu Injection Combined with Tanreqing Injection on Chemotherapy of Advanced Lung Cancer with Spleen Deficiency and Phlegm Dampness Syndrome in Elderly Patients
BAI Mao-shu, WANG Xi-cai, SUN Jiao, LIU Ji-ming, LIANG Bai-wu, LIANG Xian-ying (159)

Efficacy and Mechanism of Shengmaisan and Guizhi Gancao Longgu Muli Tang on Patients of Rheumatic Heart Disease with Persistent Atrial Fibrillation After Rheumatic Valve Replacement
WEI Yan, ZHENG Hai-jun, JIN Hui, SUN Ya-chao (164)

Effect of Danqi Yishen Phescription on Vascular Endothelial Function and Urinary Insulin-Like Growth Factor of Diabetic Neuropathy with Qi Yin Deficiency and Blood-Stasis Syndrome
LI Jian-ping, ZHANG Yuan-li, MA Yan-hua, ZHU De-li, ZHANG Yu, LIANG Hao (170)

Efficacy of Addition and Subtracton of Xiaobanyin on Facial Hormone-Dependent Dermatitis and Effect on Level of Th1/Th2 Cell
ZHOU Jun-wu, XUE Su-qin (176)

Date Mining Analysis on Herb Pairs of Rhei Radix et Rhizoma and Glycyrrhizae Radix et Rhizoma Based on Apriori Algorithm and Network Association
CAO Yu-jie, CHEN Yan-yan, TANG Yu-ping, JIN Yi, SHEN Juan, KANG An, ZHOU Gui-sheng, SHANG Er-xin, DUAN Jin-ao (182)

Molecular Mechanism of Epimedii Folium in Treating Osteonecrosis of Femeral Head
LIANG Xue-zhen, XU Bo, LI Gang, LUO Di, GAI Shuai-shuai, YAN Bo-zhao, LI Jia-cheng, XIA Cong-min (188)

Analysis of Integration Strategy of Lonicerae Japonicae Flos Industry Chain in Pingyi from Perspective of Industrial Value Chain in Internet+ Mode
LI Jin-feng, LI Jing, CHEN Li-mei, LI Jia, ZHANG Yong-qing (195)

Herbal Textural Research on Kuao
LI Xiao-peng, ZHU Zhong-hua (202)

Advances in Biosynthesis and Regulation Mechanism of Notoginseng Saponins
LI Ze-dong, ZHAO Rong-hua, ZHANG Zhao-chuan, YU Jie, GU Wen, HE Sen, CAO Guan-hua (207)

Anti-hepatic Fibrosis Effect and Mechanism of Natural Products
YANG Hua-rui, XU Yan, YANG Yong-shou, XIAO Pei-yun (214)

Research Progress on Clinical Application and Mechanism of Zhengan Xifeng Tang in Treatment of Primary Hypertension
DONG Rong-rong, LI Min, JING Lu (222)

Effect of Tumor Cell-induced Platelet Aggregation in Tumor Metastasis and Application of Spatholobi Caulis
SUN Li-dong, LI Qi, YIN Jie, WANG Ya-jie, YANG Qing, CHEN Ying, LI Yu-jie, WENG Xiao-gang, CAI Wei-yan, ZHU Xiao-xin (229)

Responsible editor: GU Xue-zhu

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



1 4>

9 771005 990184