

主 办

天津药物研究院 (www.tjipr.com)

中国药学会 (www.cpa.org.cn)

协 办

桂林三金药业股份有限公司

天士力控股集团有限公司

浙江尖峰药业有限公司

天津中新药业达仁堂制药厂

天津市药学会

天津达仁堂京万红药业有限公司

江苏康缘药业股份有限公司

浙江康恩贝制药股份有限公司

天津中新药业乐仁堂制药厂

承德颈复康药业集团有限公司

山东绿叶制药有限公司

温州医科大学

江西青峰药业有限公司

天津中新药业隆顺榕制药厂

安徽济人药业有限公司

贵阳新天药业股份有限公司

鲁南厚普制药有限公司

雷允上药业集团有限公司

编辑出版

天津中草药杂志社有限公司

《中草药》杂志编辑部

地址: 天津市滨海高新区未来科技城

惠仁道 306 号

邮编: 300462

电话: 022-27474913 23006821

网址: www.tiprpress.com

www.tiprpress.com

E-mail: zcy@tiprpress.com

主编 刘昌孝 汤立达

执行主编 陈常青

目 次

• 专 论 •

- 5405 脂质组学在中药研究中的应用

吴丹, 孟永海, 杨炳友, 孙延平, 王秋红, 匡海学

• 腰痛宁胶囊研究 •

- 5414 腰痛宁胶囊治疗腰腿痛临床研究的 Meta 分析

陈中, 郑阳, 张信成, 蒋盛昶, 仇湘中

- 5421 腰痛宁胶囊联合碳酸钙 D₃ 片治疗老年性骨质疏松性骨痛的临床疗效

刘艳平, 李引刚, 郭振, 常春峰, 荔琦, 白海军, 潘亚磊

- 5426 腰痛宁胶囊联合艾瑞昔布片治疗强直性脊柱炎寒湿瘀阻证 60 例临床观察

尹学永, 王志文, 冯宝静, 田广平, 李洪猛

- 5431 腰痛宁胶囊联合雷火灸治疗寒湿痹阻型腰椎间盘突出症 40 例疗效观察

李怡良, 项南, 唐素敏, 王志文, 高胜利, 王惠

- 5436 腰痛宁胶囊治疗腰椎间盘突出症组方机制探析

辛家东, 张法荣

• 药剂与工艺 •

- 5440 左旋肉碱修饰的壳聚糖-硬脂酸协载槲皮素口服紫杉醇纳米胶束的制备、表征及在体肠循环研究

张倩, 杨坛, 黎坪, 奉建芳, 林世源, 陈卉
吴卫, 张玮

- 5447 载 As₂O₃ pH 敏感钙砷复合物脂质体的制备及体外评价

陈云云, 姚文栋, 谢先泽, 毛超, 张珂, 诸佳珍

- 5454 基于 HPLC 指纹图谱、多指标成分含量测定及化学计量学的湿热痹片质量评价

高森, 王革, 唐铖, 白雪, 文柳静, 李正翔

- 5462 基于网络药理学及活性成分测定的六味地黄系列制剂质量研究

罗虹, 刘博文, 杨慧, 贺英俊, 赵灵丽, 刘涛

• 药理与临床 •

- 5478 基于代谢组学和生物信息学的益胃饮干预胃癌前病变机制研究

董宇, 赵丽沙, 邱萍, 吴人照, 陈伟, 柴可群

- 5487 基于血热证小鼠模型紫草素清热凉血与血液氧化还原稳态调控的研究

李天一, 张闪闪, 马晓茹, 徐宏宏, 张波

- 5496 扶肾颗粒改善肠上皮细胞屏障损伤的作用机制研究

姜晨, 杨洪涛, 耿芳, 刘睿昕, 忽星歌

- 5501 基于 LC-MS 的甘草炮制雷公藤降低肝毒性的代谢组学研究

吴昊, 于小红, 马光朝, 马致洁, 章从恩

- 5509 麦芽总生物碱上调多巴胺 D₂ 受体抑制垂体瘤细胞泌乳素表达和分泌

龚晓云, 陶佳晗, 陈永刚, 邹吉利, 安靖, 孟军华

王雄, 吴金虎

- 5516 复方苦参注射液诱导自噬促进膀胱癌细胞凋亡机制的研究

张丽惠, 张婉莹, 张国伟, 张苗苗, 秦桂芳

- 5523 A 型流感病毒对小鼠肺部菌群及趋化因子 CCL5 和 CXCL10 的影响及麻杏石甘汤干预作用研究

王平, 赵澄, 卢芳国, 吴涛, 张香港, 魏科

李玲, 田维毅



ZHONGCAOYAO

Chinese Traditional and Herbal Drugs

第 51 卷 第 21 期 (总第 680 期)

2020 年 11 月 12 日出版

广告合作

中草药杂志社广告部

电话: 022-23006829 23006895

E-mail: chencq@tjipr.com panmj@tjipr.com

联系人: 陈常青 潘明佳

印 刷

天津市恒远印刷有限公司

国内发行

天津市邮政局

订 阅

全国各地邮政局

国外发行

中国国际图书贸易集团有限公司

(100044 北京 399 信箱)

国内邮发代号

6—77

国外邮发代号

M221

国际标准连续出版物号

ISSN 0253-2670

国内统一连续出版物号

CN 12-1108/R

国内定价

每期 50.00 元 全年 1200.00 元

广告审查员

潘明佳 (津广审字 05-043 号)

封面图片提供

吴丹

英文责任编辑

姜丹

本期责任编辑

郑礼胜

- 5538 三七化学成分分析及其抗炎机制的网络药理学探讨
庞会婷, 罗朵生, 郭 姣
5548 从凋亡网络的调控研究地黄饮子治疗阿尔兹海默病的分子机制
江建锋, 白 强, 宋祯彦, 贺春香, 成绍武, 游柏稳
5559 “健脾利湿化瘀法”治疗中晚期前列腺癌内分泌治疗后部分雄激素缺乏综合征的临床观察
李小江, 冯梦晗, 牟睿宇, 郭姗琦, 李文杰, 张 畅
王 亮, 贾英杰
5566 痔祺胶囊对强直性脊柱炎患者的临床疗效及细胞因子的影响
王桂珍, 黄传兵, 汪 元, 范海霞, 陈瑞莲

• 药材与资源 •

- 5571 川续断 Actin、Tubulin 和 GAPDH 基因的克隆及表达稳定性分析
梁 晴, 徐 娇, 周 涛, 江维克, 肖承鸿, 王 绘, 冯汪银
郑 伟, 陈 杰
5579 聚乙二醇模拟干旱胁迫下半夏茎段转录组分析
李 铂, 彭 亮, 王 楠, 孙晓春, 何懿菡, 宋忠兴, 张永强
唐志书, 黄文静
5590 丹参转录因子 SmWRKY14 基因的克隆及表达分析
陈 尘, 张 燕, 李 林, 王喆之, 李淑娟
5598 基于部分酸水解寡糖特征图谱及免疫活性评价的不同产地黄芪的品质
比较 曹宇欣, 李 科, 秦雪梅, 焦思明, 杜昱光, 李先荣
5607 蒙药蜀葵花 HPLC 指纹图谱及 rbcL 序列分子鉴定研究
陈玉花, 撒切尔, 肖田梅, 白梅荣, 白迎春, 包桂花

• 综 述 •

- 5613 莪术醇及其衍生物的抗肿瘤活性研究进展
聂添情, 孟祥伟, 应宇晨, 张兴贤
5622 天麻抗抑郁药效物质及其作用机制研究进展
付亚轩, 孟宪钰, 李明超, 郝 倩, 徐天瑞
5631 九蒸九晒黄精炮制工艺的研究进展
秦宇雯, 张丽萍, 赵 祺, 鲍康德, 姜程曦
5638 中药毒性的研究现状及其超分子“印迹模板”调控机制的探讨
贺玉婷, 樊启猛, 周逸群, 李海英, 贺 鹏, 王敏存
周燕子, 潘 雪, 孟 蕾, 贺福元
5645 蒸苡仁化学成分及药理作用研究进展
李晓凯, 顾 坤, 梁慕文, 张胤弢, 王玉明, 李遇伯
5658 当归补血汤物质基础研究进展
胡 静, 李 科, 李爱平, 刘月涛, 秦雪梅

• 药事管理 •

- 5664 中医药地方立法现状及立法建议
李 慧, 俞力畅, 陆永强, 宋晓亭

CHINESE TRADITIONAL AND HERBAL DRUGS

Vol. 51

No. 21

Nov. 2020

Chinese Traditional and Herbal Drugs

(Semimonthly)

Founded in January, 1970

Sponsored by

Tianjin Press of Chinese Herbal Medicines

Tianjin Institute of Pharmaceutical Research

(www.tjipr.com)

Chinese Pharmaceutical Association

(www.cpa.org.cn)

Edited and Published by

Editorial Office of Chinese Traditional
and Herbal Drugs

Address: 306# Huirendao, Binhai District,
Tianjin, China

Post Code: 300462

Tel: +86-22-27474913

Fax: +86-22-23006821

http: // www.中草药杂志社.中国

www.tiprpress.com

E-mail: zcy@tiprpress.com

Editor-in-chief

LIU Chang-xiao TANG Li-da

Executive Editor-in-chief

CHEN Chang-qing

Main Contents

• Special Topic •

- 5405** Application of lipidomics on research of traditional Chinese medicine
WU Dan, MENG Yong-hai, YANG Bing-you, SUN Yan-ping, WANG Qiu-hong,
KUANG Hai-xue

• Yaotongning Capsule Research •

- 5414** Meta analysis of clinical study on lumbago and leg pain treated by Yaotongning
Capsule
CHEN Zhong, ZHENG Yang, ZHANG Xin-cheng, JIANG Sheng-chang, QIU
Xiang-zhong

- 5421** Analgesic effect of Yaotongning Capsule combined with Calcium Carbonate and
Vitamin D₃ Tablets in treatment of senile osteoporotic bone pain
LIU Yan-ping, LI Yin-gang, GUO Zhen, CHANG Chun-feng, LI Qi, BAI
Hai-jun, PAN Ya-lei

- 5426** Effect of Yaotongning Capsules combined with Imrecoxib Tablets in 60 cases of
ankylosing spondylitis with cold-dampness and blood-stasis syndrome
YIN Xue-yong, WANG Zhi-wen, FENG Bao-jing, TIAN Guang-ping, LI
Hong-meng

- 5431** Therapeutic effect of Yaotongning Capsules and thunder-fire moxibustion in
treatment of 40 cases of lumbar disc herniation with cold and blood-stasis
syndrome
LI Yi-liang, XIANG Nan, TANG Su-min, WANG Zhi-wen, GAO Sheng-li,
WANG Hui

- 5436** Analysis on mechanism of Yaotongning Capsule in treatment of lumbar
intervertebral disc herniation
XIN Jia-dong, ZHANG Fa-rong

• Pharmaceutics and Technology •

- 5440** Study on L-carnitine modified quercetin-coloaded chitosan-stearic acid
nanomicelles as oral paclitaxel delivery system: Preparation, characterization and
in vivo intestine absorption in rats
ZHANG Qian, YANG Tan, LI Ping-ping, FENG Jian-fang, LIN Shi-yuan, CHEN
Hui, WU Wei, ZHANG Wei

- 5447** Preparation and *in vitro* evaluation of pH-sensitive drug releasing As₂O₃-loaded
liposome
CHEN Yun-yun, YAO Wen-dong, XIE Xian-ze, MAO Chao, ZHANG Ke, ZHU
Jia-zhen

- 5454** Quality evaluation of Shirebi Tablets based on combinative method of HPLC
fingerprint, quantitative analysis of multi-components and chemometrics analysis
GAO Sen, WANG Ping, TANG Cheng, BAI Xue, WEN Liu-jing, LI Zheng-
xiang

- 5462** Quality study on Liuwei Dihuang series preparations via network pharmacology
and active ingredient determination
LUO Hong, LIU Bo-wen, YANG Hui, HE Ying-jun, ZHAO Ling-li, LIU Tao

• Pharmacological Studies and Clinical Observations •

- 5478** Mechanism of Yiwei Decoction on intervening gastric precancerous lesions based
on metabolomics and bioinformatics
DONG Yu, ZHAO Li-sha, QIU Ping, WU Ren-zhao, CHEN Wei, CHAI Ke-qun

- 5487** Relationship between clearing heat and cooling blood and regulating blood redox
homeostasis of shikonin based on blood heat syndrome mice model
LI Tian-yi, ZHANG Shan-shan, MA Xiao-ru, XU Hong-hong, ZHANG Bo

- 5496** Mechanism of Fushen Granule on improving intestinal epithelial barrier injury
JIANG Chen, YANG Hong-tao, GENG Fang, LIU Rui-xin, HU Xing-ge

- 5501** Metabolomics study on reduction of hepatotoxic of *Tripterygium wilfordii*
processed by liquorice based on LC-MS
WU Hao, YU Xiao-hong, MA Guang-chao, MA Zhi-jie, ZHANG Cong-en

- 5509** Maltol total alkaloid inhibits expression and secretion of prolactin by upregulating
dopamine D2 receptor
GONG Xiao-yun, TAO Jia-han, CHEN Yong-gang, ZOU Ji-li, AN Jing, MENG
Jun-hua, WANG Xiong, WU Jin-hu

Chinese Traditional and Herbal Drugs

(Semimonthly)

Founded in January, 1970

Printed by

Tianjin Hengyuan Printing Co., Ltd.

Distribution

Tianjin Post Office

Subscription Domestic

Local Post Office

Subscription OverseasChina International Book Trading Corporation,
PO Box 399, Beijing 100044, China**Standard Number**

ISSN 0253-2670

CN 12-1108/R

CODEN CTYAD8

Advertisement Inspector

PAN Ming-jia

Publication Date

Nov. 12, 2020

Editor in Charge of English

JIANG Dan

Editor in Charge of This Issue

ZHENG Li-sheng

5516 Study on mechanism of Compound Kushen Injection inducing autophagy to promote apoptosis of bladder cancer cells
ZHANG Li-hui, ZHANG Wan-ying, ZHANG Guo-wei, ZHANG Miao-miao, QIN Gui-fang

5523 Effect of influenza A virus infection on pulmonary flora and chemokines CCL5 and CXCL10 in mice and intervention of Maxing Shigan Decoction
WANG Ping, ZHAO Chen, LU Fang-guo, WU Tao, ZHANG Xiang-gang, WEI Ke, LI Ling, TIAN Wei-yi

5538 Study on chemical constituents of *Notoginseng Radix et Rhizoma* and network pharmacology of its anti-inflammatory mechanism
PANG Hui-ting, LUO Duo-sheng, GUO Jiao

5548 Researches on molecular mechanism of Dihuang Yinzi Decoction for application to Alzheimer's disease from regulation of apoptotic network
JIANG Jian-feng, BAI Qiang, SONG Zhen-yan, HE Chun-xiang, CHENG Shao-wu, YOU Bai-wen

5559 Clinical observation on treatment of androgen deficiency syndrome after endocrine therapy for advanced prostate cancer by "Jianpi Lishi Huayu Method"
LI Xiao-jiang, FENG Meng-han, MOU Rui-yu, GUO Shan-qi, LI Wen-jie, ZHANG Chang, WANG Liang, JIA Ying-jie

5566 Effects of Biqi Capsules on clinical efficacy and cytokines of patients with ankylosing spondylitis
WANG Gui-zhen, HUANG Chuan-bing, WANG Yuan, FAN Hai-xia, CHEN Rui-lian

• Medicinal Materials •

5571 Cloning and expression stability analysis of Actin, Tubulin and GAPDH genes in *Dipsacus asper*
LIANG Qing, XU Jiao, ZHOU Tao, JIANG Wei-ke, XIAO Cheng-hong, WANG Hui, FENG Wang-yin, ZHENG Wei, CHEN Jie

5579 Transcriptome analysis of stems of *Pinellia ternata* under drought stress simulated by PEG
LI Bo, PENG Liang, WANG Nan, SUN Xiao-chun, HE Yi-han, SONG Zhong-xing, ZHANG Yong-qiang, TANG Zhi-shu, HUANG Wen-jing

5590 Cloning and expression analysis of WRKY family member SmWRKY14 in *Salvia miltiorrhiza*
CHEN Chen, ZHANG Yan, LI Lin, WANG Zhe-zhi, LI Shu-juan

5598 Comparative study on different areas of *Astragalus Radix* based on oligosaccharides characteristic map and immunological activity evaluation of partial acid hydrolyzed
CAO Yu-xin, LI Ke, QIN Xue-mei, JIAO Si-ming, DU Yu-guang, LI Xian-rong

5607 Fingerprint and molecular identification of rbcL sequence of Mongolian medicine Althaeae Roseae Flos by HPLC
CHEN Yu-hua, SA Qie-er, XIAO Tian-mei, BAI Mei-rong, BAI Ying-chun, BAO Gui-hua

• Reviews •

5613 Research progress on anti-tumor activity of curcumol and its derivatives
NIE Tian-qing, MENG Xiang-wei, YING Yu-chen, ZHANG Xing-xian

5622 Research progress on antidepressant substances and their mechanisms in *Gastrodia elata*
FU Ya-xuan, MENG Xian-yu, LI Ming-chao, HAO Qian, XU Tian-rui

5631 Research progress on *Polygonatum cyrtonema* processed by nine times steaming and nine times shining
QIN Yu-wen, ZHANG Li-ping, ZHAO Qi, BAO Kang-de, JIANG Cheng-xi

5638 Research status and regulatory mechanism based on supramolecular "imprinted template" of toxicity of Chinese materia medica
HE Yu-ting, FAN Qi-meng, ZHOU Yi-qun, LI Hai-ying, HE Peng, WANG Min-cun, ZHOU Yan-zi, PAN Xue, MENG Lei, HE Fu-yuan

5645 Research progress on chemical constituents and pharmacological effects of *Cocicis Semen*
LI Xiao-kai, GU Kun, LIANG Mu-wen, ZHANG Yin-tao, WANG Yu-ming, LI Yu-bo

5658 Research progress on material basis of Danggui Buxue Decoction
HU Jing, LI Ke, LI Ai-ping, LIU Yue-tao, QIN Xue-mei

• Pharmaceutical Administration •

5664 Current situation and legislative suggestions of local legislation of traditional Chinese medicine
LI Hui, YU Li-chang, LU Yong-qiang, SONG Xiao-ting