



中华中医药学会系列期刊



中国中文核心期刊
中国科技核心期刊
CSCD来源期刊(核心库)
RCCSE权威学术期刊(A+)
中医药科技期刊分级目录T1级期刊
美国《乌利希期刊指南》(UPD)源期刊
《日本科学技术振兴机构数据库》(JST)源期刊
《WHO西太平洋地区医学索引》(WPRIM)源期刊



ZHONGGUO

SHIYAN

FANGJIXUE

ZAZHI

中国实验方剂学杂志

— Chinese Journal of Experimental Traditional Medical Formulae —

本期推荐

基于深度学习算法的川贝母、山楂及半夏饮片的智能鉴别

传统的中药品种鉴定依赖专业人员的主观感觉和经验,检验结果受主观影响较大,不利于高效和大批量检测。该研究选择11种中药饮片为研究对象,通过结合基于深度学习的图像识别技术,建立深度卷积神经网络模型,实现了定位检测、品种识别等功能,显著提高了中药快速鉴别的准确率,较传统图像处理与模式识别的中药检测方法具有快速、准确、可批量化检测等优点。

21
2020

2020年11月 第26卷 第21期
November Vol.26 No.21



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 26 卷 第 21 期 2020 年 11 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 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

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

· 经典名方 ·

大补元煎通过上调 BDNF/TrkB/CREB 信号通路改善 APP/PS1 双转基因痴呆小鼠海马突触可塑性 何丽玲, 龙清华, 胡慧, 王平, 石和元 (1)

基于脑肠肽 Ghrelin 水平探讨远志散对 AD 大鼠学习记忆能力及进食量的影响 郝彦伟, 李斌, 张怡, 谢沛俊, 喻俊榕, 向劲松, 龚道银 (8)

补阳还五汤对大鼠缺血性脑中风损伤后轴突再生的影响 余爱明, 闫向丽, 郑昊圳, 贺颖颖, 钟倪俊, 王利胜... (15)

逍遥散对慢性不可预知温和应激大鼠下丘脑弓状核 JAK/STAT 通路变化的影响 王一旭, 李媛媛, 张碧涛, 王浩, 王少贤 (21)

千金苇茎汤对香烟烟雾暴露模型大鼠肺组织 Th17/Treg 分化及其相关细胞因子表达的影响 王庆学, 欧阳宇晨, 卞尧尧, 刘怀全, 张孟之, 于海洋, 李文 (28)

五子衍宗丸干预线粒体通透性转换孔抑制精子凋亡的机制 刘红娟, 吴德玲, 童小慧, 李莉, 王桐生 (34)

乌头赤石脂丸对心肌缺血再灌注大鼠血管内皮细胞及氧化应激的保护作用 王梦妮, 谢璐璐, 张兆鹏, 凌冰, 林致辉, 刘派, 郭军鹏, 刘宏岩 (40)

· 药理 ·

肠安 I 号方含药血清对致敏肥大细胞活化脱颗粒的影响
马祥雪, 吉海杰, 吕林, 吴皓萌, 王凤云, 唐旭东 (48)

天王补心丸对慢性不可预知应激抑郁模型小鼠行为学,HPA 轴,海马 GSK3 β 磷酸化及 BDNF 表达的影响
王玉露, 王月月, 贾铄, 陈燕, 张淑玲, 林羽 (55)

化癥解毒方对胃癌细胞凋亡的作用及机制
魏征, 张爱华, 李亚峰, 梁瑞峰, 崔伟峰, 王艳春, 张俊萍 (62)

柴胡越鞠汤对 CUMS 诱导的抑郁症模型大鼠治疗作用及其机制
凌志峰, 罗洪斌, 谢枫枫, 鲜慈英, 赵倩, 杨梦, 黄斌, 詹杰 (68)

丹参、红花有效组分配伍对缺血性脑卒中大鼠脑组织致炎因子的作用机制
朱慧渊, 苗琦, 王江, 刘妍如, 王文瑄, 罗斌, 党珊 (77)

基于中效方程的黄芩苷与汉黄芩苷调控 NF- κ B 信号通路的协同作用
朱正文, 蒋晴, 罗煜, 梁雨生, 吴嘉思, 苏丝雨, 孟宪丽, 曾勇, 王平 (84)

柚皮素对 A β_{25-35} 损伤 PC12 细胞氧化应激及 Tau 蛋白磷酸化的影响
邱琦, 胡中花, 徐红丹, 邢怀玉, 孙慧峰, 张宁, 雷霞 (92)

基于巨噬细胞极化观察白术内酯 II 对胃癌细胞的作用
袁梦云, 张星星, 谢晓东, 陈敏, 王红星, 吴坚, 赵智强 (100)

寒热不同宿体大肠癌模型建立及差异分析
李慧璇, 覃景春, 吕智豪, 梁裕琪, 文彬 (109)

基于网络药理学的半夏-橘红药对治疗代谢综合征的作用机制探析
于嘉祥, 王安娜, 郑一, 郭鹤, 姜楠, 杨宇峰, 石岩 (118)

· 临床 ·

加味散血葛根汤联合神经阻滞对带状疱疹后遗神经痛血脉瘀阻证患者的临床疗效
屠远辉, 方玉甫, 王丽 (129)

康复新液联合铝镁加混悬液对预防慢性胃炎胃镜活检后并发症的疗效分析
贾纯增, 陈锐, 刘宝岳, 蓝宇 (135)

复方黄根颗粒联合恩替卡韦治疗慢性乙肝瘀血阻络证临床观察
林海, 吴悠, 莫琼, 覃文慧 (142)

沙参麦冬汤加减对阴虚肺热证肺炎支原体肺炎恢复期患者免疫炎症反应的影响

刘永生,王金菊,张辉果 (149)

黄连阿胶汤合百合地黄汤加减对绝经综合征神经内分泌网络的调节作用

韩锐,万丹 (155)

· 药物代谢 ·

UPLC-Q-TOF/MS 鉴定大鼠灌服枳壳提取物后的人血成分及其代谢产物

魏飞亭,程昊,乔日发,张敏,钟民勇,杨武亮,袁金斌 (161)

基于蛋白质组学分析色胺酮抑制小鼠乳腺癌的作用机制

曾庆芳,罗才荣,张晓燕,梁妍,沈祥春,陶玲,周威 (173)

· 药学基础 ·

3种大黄饮片的水分吸附及热力学特性分析

王子千,罗晓健,钟荣生,宋小玲,谌瑞林,饶小勇,何雁 (181)

美花筋骨草乙酸乙酯部位化学成分分析

杨天龙,秦玲玲,冯丹,胡瀚文,郭大乐,邓放 (188)

基于深度学习算法的川贝母、山楂及半夏饮片的智能鉴别

吴冲,谭超群,黄永亮,吴纯洁,陈虎 (195)

林下山参生态环境及伴生植物调查

朱连连,马艳,许亮,胡灏禹,何波,张小波,许为民,白素涛,窦德强 (202)

草豆蔻的本草考证

胡璇,王丹,于福来,张影波,谢小丽,黄梅,和俊才,庞玉新 (210)

· 综述 ·

从神经微环境探讨调和营卫法治疗糖尿病周围神经病变的作用机制

冷玉琳,杜联,刘晓可,朱建伟,高泓,谢春光,富晓旭 (220)

质构仪在药物制剂研究中的应用进展

李瑶瑶,张凯旋,熊皓舒,章顺楠 (226)

CHINESE JOURNAL OF EXPERIMENTAL TRADITIONAL MEDICAL FORMULAE

Semimonthly Established in October, 1995 Vol. 26 No. 21 2020

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.syfjxzz.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 Chinese 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

Dabuyuan Jian Improves Hippocampal Synaptic Plasticity of APP/PS1 Double Transgenic Mice by Regulating BDNF/TrkB/CREB Signal Pathway
HE Li-ling, LONG Qing-hua, HU Hui, WANG Ping, SHI He-yuan (1)

Effect of Yuanzhisan on Learning and Memory Abilities and Food Intake of AD Rats Based on Ghrelin Level of Cerebrointestinal Peptide
HAO Yan-wei, LI Bin, ZHANG Yi, XIE Pei-jun, YU Jun-rong, XIANG Jin-song, GONG Dao-yin (8)

Effect of Buyang Huanwu Tang on Axonal Regeneration of Rats After Ischemic Stroke Injury
YU Ai-ming, YAN Xiang-li, ZHENG Hao-zhen, HE Ying-ying, ZHONG Ni-jun, WANG Li-sheng (15)

Effect of Xiaoyaosan on Changes of JAK/STAT Pathway in Hypothalamic Arcuate Nuclei of Rats With Chronic Mild Unpredictable Stress
WANG Yi-xu, LI Yuan-yuan, ZHANG Bi-tao, WANG Hao, WANG Shao-xian (21)

Observation of Effect of Qianjin Weijingtang on Differentiation of Th17/Treg and Expressions of Related Cytokines in Lung Tissues of Model Rats Exposed to Cigarette Smoke
WANG Qing-xue, OUYANG Yu-chen, BIAN Yao-yao, LIU Huai-quan, ZHANG Meng-zhi, YU Hai-yang, LI Wen (28)

Effect of Wuzi Yanzong Wan on Sperm Apoptosis by Intervening with Mitochondrial Permeability Transition Pore
LIU Hong-juan, WU De-ling, TONG Xiao-hui, LI Li, WANG Tong-sheng (34)

Protective Effect of Wutou Chishizhi Wan on Vascular Endothelial Cells and Oxidative Stress in Myocardial Ischemia-reperfusion Rats
WANG Meng-ni, XIE Lu-lu, ZHANG Zhao-peng, LING Bing, LIN Zhi-hui, LIU Pai, GUO Jun-peng, LIU Hong-yan (40)

Effect of Medicated Serum Prepared with Chang'an I Prescription on Sensitized Mast Cell Degranulation
MA Xiang-xue, JI Hai-jie, LYU Lin, WU Hao-meng, WANG Feng-yun, TANG Xu-dong (48)

Effect of Tianwang Buxin Pills on Behavior, HPA Axis, BDNF Expression and Phosphorylation of GSK3β in Mice with Chronic Unpredictable Stress
WANG Yu-lu, WANG Yue-yue, JIA Ru, CHEN Yan, ZHANG Shu-ling, LIN Yu (55)

Study on Effect and Mechanism of Huayu Jiedu Recipe on Apoptosis of Gastric Cancer Cells
WEI Zheng, ZHANG Ai-hua, LI Ya-feng, LIANG Rui-feng, CUI Wei-feng, WANG Yan-chun, ZHANG Jun-ping (62)

Effect and Mechanism of Chaihu Yueju Decoction on Depression Model Rats Induced by CUMS
LING Zhi-feng, LUO Hong-bin, XIE Feng-feng, XIAN Ci-ying, ZHAO Qian, YANG Meng, HUANG Bin, ZHAN Jie (68)

Mechanism of Salviae Miltiorrhizae Radix et Rhizoma and Carthami Flos Component Compatibility on Inflammatory Factor in Brain Tissue of Rats with Ischemic Stroke
ZHU Hui-yuan, MIAO Qi, WANG Jiang, LIU Yan-ru, WANG Wen-xuan, LUO Bin, DANG Shan..... (77)

Synergistic Effect of Baicalin and Wogonoside on NF-κB Signaling Pathway Based on Medium-efficiency Equation
ZHU Zheng-wen, JIANG Qing, LUO Yu, LIANG Yu-sheng, WU Jia-si, SU Si-yu, MENG Xian-li, ZENG Yong, WANG Ping (84)

Effect of Naringenin on Oxidative Stress and Tau Protein Phosphorylation of Aβ₂₅₋₃₅-induced PC12 Cell Injury
QIU Qi, HU Zhong-hua, XU Hong-dan, XING Huai-yu, SUN Hui-feng, ZHANG Ning, LEI Xia ... (92)

Observation on Effect of Atractylodesin II on Gastric Cancer Cells Based on Macrophage Polarization
YUAN Meng-yun, ZHANG Xing-xing, XIE Xiao-dong, CHEN Min, WANG Hong-xing, WU Jian, ZHAO Zhi-qiang (100)

Colorectal Cancer Modeling and Difference Analysis in Cold and Heat Conditions
LI Hui-xuan, QIN Jing-chun, LYU Zhi-hao, LIANG Yu-qi, WEN Bin (109)

Mechanism of Pinelliae Rhizoma-Citri Exocarpium Rubrum in Treatment of Metabolic Syndrome Based on Network Pharmacology
YU Jia-xiang, WANG An-na, ZHENG Yi, GUO He, JIANG Nan, YANG Yu-feng, SHI Yan (118)

Clinical Efficacy of Modified Sanxue Gegentang Combined with Nerve Block on Postherpetic Neuralgia Due to Blood Stasis Syndrome
TU Yuan-hui, FANG Yu-fu, WANG Li (129)

Clinical Effect of Kangfuxin Solution Combined with Almagate Suspension on Complication of Gastroscopy Biopsy	
JIA Chun-zeng, CHEN Rui, LIU Bao-yue, LAN Yu	(135)
Clinical Observation on Compound Huanggen Granules Combined with Entecavir Tablets in Treating Chronic Hepatitis B with Syndrome of Collateral Retardation Due to Blood Stasis	
LIN Hai, WU You, MO Qiong, QIN Wen-hui	(142)
Effect of Addition and Subtraction Therapy of Shashen Maidongtang on Immune Inflammatory Response in Patients with Mycoplasma Pneumoniae Pneumonia and Syndrome of Yin Deficiency and Lung Heat at Convalescent Period	
LIU Yong-sheng, WAGN Jin-ju, ZHANG Hui-guo	(149)
Study on Addition and Subtraction Syndrome Differentiation Method of Huanglian Ejiaotang and Baihe Dihuangtang in Regulation of Neuroendocrine Network for Menopausal Syndrome	
HAN Rui, WAN Dan	(155)
Identification of Prototype Compounds and Their Metabolites in Rat Plasma After Oral Administration of Aurantii Fructus Extract by UPLC-Q-TOF/MS	
WEI Fei-ting, CHENG Hao, QIAO Ri-fa, ZHANG Min, ZHONG Min-yong, YANG Wu-liang, YUAN Jin-bin	(161)
Investigation of Mechanism of Tryptanthrin Inhibiting Breast Cancer in Mice Based on Proteomics	
ZENG Qing-fang, LUO Cai-rong, ZHANG Xiao-yan, LIANG Yan, SHEN Xiang-chun, TAO Ling, ZHOU Wei	(173)
Analysis of Water Adsorption and Thermodynamic Properties of Three Rhei Radix et Rhizoma Decoction Pieces	
WANG Zi-qian, LUO Xiao-jian, ZHONG Rong-sheng, SONG Xiao-ling, CHEN Rui-lin, RAO Xiao-yong, HE Yan	(181)
Chemical Constituents of Ethyl Acetate Extract from <i>Ajuga ovalifolia</i> var. <i>calantha</i>	
YANG Tian-long, QIN Ling-ling, FENG Dan, HU Han-wen, GUO Da-le, DENG Fang	(188)
Intelligent Identification of Fritillariae Cirrhosae Bulbus, Crataegi Fructus and Pinelliae Rhizoma Based on Deep Learning Algorithms	
WU Chong, TAN Chao-qun, HUANG Yong-liang, WU Chun-jie, CHEN Hu	(195)
Investigation of Ecological Environment of Mountain Cultivated <i>Panax ginseng</i> and Their Associated Plants	
ZHU Lian-lian, MA Yan, XU Liang, HU Hao-yu, HE Bo, ZHANG Xiao-bo, XU Wei-min, BAI Su-tao, DOU De-qiang	(202)
Herbal Textual Research of <i>Alpinia katsumadai</i>	
HU Xuan, WANG Dan, YU Fu-lai, ZHANG Ying-bo, XIE Xiao-li, HUANG Mei, HE Jun-cai, PANG Yu-xin	(210)
Explore Ying and Wei Regulating Therapy on Diabetic Peripheral Neuropathy from Perspective of Neural Microenvironment	
LENG Yu-lin, DU Lian, LIU Xiao-ke, ZHU Jian-wei, GAO Hong, XIE Chun-guang, FU Xiao-xu	(220)
Application Progress of Texture Analyzer in Pharmaceutical Preparation Research	
LI Yao-yao, ZHANG Kai-xuan, XIONG Hao-shu, ZHANG Shun-nan	(226)

Responsible editor: LIU De-wen



三金牌三金片

利湿、解毒、益肾

↓尿频、↓尿急、↓尿痛… 请用三金牌三金片

【功能主治】清热解毒，利湿通淋，益肾。用于下焦湿热所致的热淋、小便短赤、淋沥涩痛、尿急频数；急慢性肾盂肾炎、膀胱炎、尿路感染见上述证候者；慢性非细菌性前列腺炎肾虚湿热下注证。

桂林三金药业股份有限公司



批准文号：国药准字Z45021645 本广告仅供医学药学专业人士阅读 桂药广审(文)第2020010003号 北京市药监局2020年1月准予备案
不良反应：偶见血清丙氨酸氨基转移酶(ALT)、血清门冬氨酸氨基转移酶(AST)轻度升高，血尿素氮(BUN)轻度升高，血白细胞(WBC)轻度降低。 禁忌：孕妇禁用。

广告