

特别关注：



Q K 2 0 2 4 2 5 6

ISSN 1001-5302
CN 11-2272/R

中药生态农业专题

中药生态农业是国际生态农业中最有朝气和前景的产业，体现我国中药农业发展的国家战略。专题从中药生态种植的理论基础到道地药材的拟境栽培，从生态种植模式的系统分类到全国区域分类，从生态农业的土地利用策略到品牌培育策略，从道地药材的复合胁迫到根际微生态，从次生代谢积累和品质形成到其在生态农业中的应用，从经典的间套作体系到新兴的凹凸棒技术，结合天麻、石斛等药材的生态种植，全面展现了中药生态农业的最新进展。

中
国
中
药
杂
志

China Journal of Chinese Materia Medica
ZHONGGUO ZHONGYAO ZAZHI
2020年5月 第45卷 第9期

2020/9



中医药科技期刊分级目录T1级期刊
中国中文核心期刊
中国科技核心期刊
CSCD来源期刊



中国药学会
CHINESE PHARMACEUTICAL ASSOCIATION



目 次

·中药生态农业专题·

药用植物适应环境胁迫的策略及道地药材“拟境栽培”

郭兰萍, 周良云, 康传志, 王红阳, 张文晋, 王升, 王瑞杉, 王晓, 韩邦兴, 周涛, 黄璐琦 (1969)

基于系统层次的常见中药材生态种植模式及其配套技术

康传志, 吕朝耕, 黄璐琦, 王升, 王红阳, 张文晋, 王瑞杉, 王铁霖, 孙嘉惠, 周涛, 郭兰萍 (1975)

基于区域分布的常见中药材生态种植模式

康传志, 吕朝耕, 黄璐琦, 王升, 王红阳, 张文晋, 王瑞杉, 王铁霖, 孙嘉惠, 周涛, 郭兰萍 (1982)

中药生态农业发展的土地利用策略

王红阳, 康传志, 张文晋, 周良云, 万修福, 吕朝耕, 黄璐琦, 刘大会, 郭兰萍 (1990)

道地药材生态农业集群品牌培育策略

康传志, 王升, 黄璐琦, 何雅莉, 张文晋, 马文琪, 万修福, 王瑞杉, 周涛, 郭兰萍 (1996)

药用植物次生代谢在中药材生态种植中的作用及利用

王升, 蒋待泉, 康传志, 万修福, 王瑞杉, 梁玖雯, 王红阳, 李锬, 王铁霖, 黄璐琦, 郭兰萍 (2002)

复合胁迫对药用植物次生代谢的影响及机制

蒋待泉, 王红阳, 康传志, 蒋靖怡, 杜用玺, 张燕, 王升, 郭兰萍 (2009)

间套作体系下种间互作对药用植物影响的研究进展

郭秀芝, 彭政, 王铁霖, 蒋待泉, 王红阳, 杜用玺, 孙楷, 张燕, 郭兰萍 (2017)

药用植物与根际微生物互作的研究进展与展望

彭政, 郭秀芝, 徐扬, 刘大会, 王红阳, 郭兰萍, 张燕 (2023)

凹凸棒石的土壤生态效应及其在中药材生态种植中的应用前景

雒军, 王引权, 郭兰萍, 王振恒, 荔淑楠, 彭桐, 李钦, 姚阳阳, 祁正梅, 聂江涛 (2031)

天麻种植生产的生态循环利用模式分析

张进强, 周涛, 江维克, 郭兰萍, 张光文, 文玉朝, 刘鹏, 王晓, 潘成, 肖承鸿 (2036)

金钗石斛拟境栽培技术评价与原理分析

张进强, 周涛, 肖承鸿, 江维克, 郭兰萍, 康传志, 廖晓康, 黄渊平, 王晓, 卢恒 (2042)

以生态农业指导理论为基础探讨黄柏间套作药用植物种植模式分析

王艳红, 周涛, 郭兰萍, 任庭周, 王晓 (2046)

栽培西洋参根系丛枝菌根初步调查

冉志芳, 杨小彤, 丁伟娜, 周洁, 郭兰萍, 张永清 (2050)

不同种植时期对麻城菊花生长、产量及其品质的影响

徐扬, 刘引, 彭政, 郭兰萍, 刘大会 (2057)

·综述·

八味沉香散的化学和药理研究进展

王佳铭, 曹境洳, 高小力, 康露璐, 杨转转, 沙娜·吾肯, 李俊俊, 屠鹏飞, 柴兴云 (2063)

中药微波炮制技术的研究进展

陈露梦, 贺亚男, 王芳, 黄伟, 许润春, 李楠, 马鸿雁, 韩丽, 邹文铨, 张定堃, 杨明 (2073)

线粒体作为中药治疗心力衰竭靶点的研究进展

黄凯, 高佳明, 贺爽, 朱彦 (2082)

·资源与鉴定·

中药材传统商品等级的科学性——以金银花为例

陈两绵, 高慧敏, 刘晓谦, 冯伟红, 朱晶晶, 王智民, 张永欣, 孟辰笑凝, 郭中原, 毛淑杰, 张启伟 (2091)

·制剂与炮制·

基于数据挖掘的芳香类中药治疗便秘高频次使用药对“陈皮-木香”网络药理学研究

王梁凤, 张小飞, 李慧婷, 柳小莉, 任桂林, 王亮, 查青林, 杨明, 王芳 (2103)

生血宝合剂浓缩液质量快速分析方法研究

潘坚扬, 周紫楣, 瞿海斌, 刘红娜, 刘生香, 苏永健, 胡珊珊 (2115)

·化学·

降香中1个具有细胞毒活性的异黄烷类新化合物

朱漫漫, 王辉, 米承能, 梅文莉, 盖翠娟, 戴好富, 于森, 吴兴泉, 王昊 (2122)

蚕沙化学成分体外降解研究

张悦, 邓爱平, 翁倩倩, 林玉敏, 詹志来, 黄璐琦 (2130)

HPLC 同时测定蓍草中 6 种主要成分的含量

肖萌, 刘宗洋, 吴霞, 陈筱清, 答珂 (2138)

·药理·

藿香正气口服液对湿困脾胃证大鼠肠屏障功能的作用研究

黄庆芳, 龚梦鸽, 陈艳芬, 冯承恩 (2144)

2 种吡酮化合物诱导 HepG2 细胞发生细胞自噬研究

王禹璇, 刘海英, 任晋宏, 张华凤, 薛慧清 (2151)

丹皮酚通过下调 miR-155/JAK1-STAT1 通路抑制巨噬细胞 M1 极化

孙颖, 刘玲, 施晓艳, 何海, 黄翰文, 戴敏 (2158)

黄蒲通窍胶囊对阿尔茨海默病大鼠海马 EGFR-PLC γ 信号通路的影响

王国权, 周鹏, 谢道俊, 叶树, 高华武, 王艳, 方正清, 蔡标 (2165)

交泰丸对心肾不交型失眠大鼠中枢及外周神经递质的调控作用

黄运芳, 毕欣宁, 郑伟, 张婷, 魏桂杰, 张玉杰, 汪祺 (2172)

·药代动力学·

UPLC-MS/MS 快速测定小鼠血清中 10 个茋类成分的含量研究

刘双双, 刘青, 李珮, 杨志宏, 何春年, 肖培根 (2180)

基于¹H-NMR 的人参煎治疗 2 型糖尿病的血清和尿液代谢组学研究

唐孟秋, 林卫东, 贤明华, 谢媛媛, 杨永霞, 王淑美 (2186)

·临床·

小儿消积止咳口服液联合阿奇霉素治疗小儿支原体肺炎的系统评价与 Meta 分析

李天力, 蒲凤兰, 吴洋, 赵国桢, 李洪峰, 马秋晓, 李博 (2193)

蒲地蓝消炎口服液治疗小儿上呼吸道感染临床效果及安全性的 Meta 分析

白玉, 李宇翔, 时宇静, 赵海誉 (2203)

中医药治疗急性缺血性脑卒中 RCT 结局指标的现状分析

李慧敏, 廖星, 胡瑞学, 于丹丹, 顾浩, 王乐, 赵晖, 张允岭 (2210)

本期责任编辑: 张燕



CONTENTS IN BRIEF

Strategies for medicinal plants adapting environmental stress and "simulative habitat cultivation" of Dao-di herbs

GUO Lan-ping, ZHOU Liang-yun, KANG Chuan-zhi, WANG Hong-yang, ZHANG Wen-jin, WANG Sheng, WANG Rui-shan, WANG Xiao, HAN Bang-xing, ZHOU Tao, HUANG Lu-qi (1969)

Pattern and matching technology of ecological planting for Chinese materia medica based on system level

KANG Chuan-zhi, LYU Chao-geng, HUANG Lu-qi, WANG Sheng, WANG Hong-yang, ZHANG Wen-jin, WANG Rui-shan, WANG Tie-lin, SUN Jia-hui, ZHOU Tao, GUO Lan-ping (1975)

Pattern of ecological planting for Chinese materia medica based on regional distribution

KANG Chuan-zhi, LYU Chao-geng, HUANG Lu-qi, WANG Sheng, WANG Hong-yang, ZHANG Wen-jin, WANG Rui-shan, WANG Tie-lin, SUN Jia-hui, ZHOU Tao, GUO Lan-ping (1982)

Land use strategy of ecological agriculture of Chinese materia medica in future development

WANG Hong-yang, KANG Chuan-zhi, ZHANG Wen-jin, ZHOU Liang-yun, WAN Xiu-fu, LYU Chao-geng, HUANG Lu-qi, LIU Da-hui, GUO Lan-ping (1990)

Cultivation strategy on cluster brand of ecological agriculture of Dao-di herbs

KANG Chuan-zhi, WANG Sheng, HUANG Lu-qi, HE Ya-li, ZHANG Wen-jin, MA Wen-qi, WAN Xiu-fu, WANG Rui-shan, ZHOU Tao, GUO Lan-ping (1996)

Core position of secondary metabolism of medicinal plants in ecological planting of Chinese materia medica and its utilization

WANG Sheng, JIANG Dai-quan, KANG Chuan-zhi, WAN Xiu-fu, WANG Rui-shan, LIANG Jiu-wen, WANG Hong-yang, LI Tan, WANG Tie-lin, HUANG Lu-qi, GUO Lan-ping (2002)

Influence and mechanism of stress combination on medicinal plants secondary metabolism

JIANG Dai-quan, WANG Hong-yang, KANG Chuan-zhi, JIANG Jing-yi, DU Yong-xi, ZHANG Yan, WANG Sheng, GUO Lan-ping (2009)

Research progress in effects of interspecific interaction on medicinal plants in intercropping system

GUO Xiu-zhi, PENG Zheng, WANG Tie-lin, JIANG Dai-quan, WANG Hong-yang, DU Yong-xi, SUN Kai, ZHANG Yan, GUO Lan-ping (2017)

Advances in interaction between medicinal plants and rhizosphere microorganisms

PENG Zheng, GUO Xiu-zhi, XU Yang, LIU Da-hui, WANG Hong-yang, GUO Lan-ping, ZHANG Yan (2023)

Soil ecological effect of attapulgite and its application prospect in ecological planting of Chinese materia medica

LUO Jun, WANG Yin-quan, GUO Lan-ping, WANG Zhen-heng, LI Shu-nan, PENG Tong, LI Qin, YAO Yang-yang, QI Zheng-mei, NIE Jiang-tao (2031)

Analysis of ecological recycling modes for *Gastrodia elata* cultivation

ZHANG Jin-qiang, ZHOU Tao, JIANG Wei-ke, GUO Lan-ping, ZHANG Guang-wen, WEN Yu-chao, LIU Peng, WANG Xiao, PAN Cheng, XIAO Cheng-hong (2036)

Technical evaluation and principle analysis of simulative habitat cultivation of *Dendrobium nobile*

ZHANG Jin-qiang, ZHOU Tao, XIAO Cheng-hong, JIANG Wei-ke, GUO Lan-ping, KANG Chuan-zhi, LIAO Xiao-kang, HUANG Yuan-ping, WANG Xiao, LU Heng (2042)

Discussion on feasibility of inter cropping of *Phellodendri Chinensis Cortex* and medicinal plant based on guiding theory of ecological agriculture

WANG Yan-hong, ZHOU Tao, GUO Lan-ping, REN Ting-zhou, WANG Xiao (2046)

Preliminary investigation on arbuscular mycorrhiza fungi of cultivated *Panax quinquefolium* roots

RAN Zhi-fang, YANG Xiao-tong, DING Wei-na, ZHOU Jie, GUO Lan-ping, ZHANG Yong-qing (2050)

Effects of planting period on growth, yield and medicinal quality of <i>Chrysanthemum morifolium</i>	
XU Yang, LIU Yin, PENG Zheng, GUO Lan-ping, LIU Da-hui	(2057)
Chemical and pharmacological progress on a Tibetan folk medicine formula Bawei Chenxiang Powder	
WANG Jia-ming, CAO Jing-ru, GAO Xiao-li, KANG Lu-lu, YANG Zhuan-zhuan, WUKEN · Sha-na, LI Jun-jun, TU Peng-fei, CHAI Xing-yun	(2063)
Study advances of microwave processing technology in traditional Chinese medicine	
CHEN Lu-meng, HE Ya-nan, WANG Fang, HUANG Wei, XU Run-chun, LI Nan, MA Hong-yan, HAN Li, ZOU Wen-quan, ZHANG Ding-kun, YANG Ming	(2073)
Research progress of mitochondria as target of traditional Chinese medicines in treatment of heart failure	
HUANG Kai, GAO Jia-ming, HE Shuang, ZHU Yan	(2082)
Scientificity of traditional commodity grade of Chinese medicinal materials--taking <i>Lonicerae Japonicae Flos</i> as example	
CHEN Liang-mian, GAO Hui-min, LIU Xiao-qian, FENG Wei-hong, ZHU Jing-jing, WANG Zhi-min, ZHANG Yong-xin, MENG Chen-xiao-ning, GUO Zhong-yuan, MAO Shu-jie, ZHANG Qi-wei	(2091)
Network pharmacology research on high frequency use of <i>Pericarpium Citri Reticulatae</i> and <i>Aucklandiae Radix</i> herb pair in treatment of constipation with aromatic traditional Chinese medicine based on data mining	
WANG Liang-feng, ZHANG Xiao-fei, LI Hui-ting, LIU Xiao-li, REN Gui-lin, WANG Yao, CHA Qing-lin, YANG Ming, WANG Fang	(2103)
Study on rapid quality analysis method of Shengxuebao Mixture	
PAN Jian-yang, ZHOU Zi-mei, QU Hai-bin, LIU Hong-na, LIU Sheng-xiang, SU Yong-jian, HU Shan-shan	(2115)
A new cytotoxic isoflavanone from <i>Dalbergiae Odoriferae Lignum</i>	
ZHU Man-man, WANG Hui, MI Cheng-neng, MEI Wen-li, GAI Cui-juan, DAI Hao-fu, YU Miao, WU Xing-quan, WANG Hao	(2122)
Study on degradation of silkworm excrement chemical components <i>in vitro</i>	
ZHANG Yue, DENG Ai-ping, WENG Qian-qian, LIN Wang-min, ZHAN Zhi-lai, HUANG Lu-qi	(2130)
Simultaneous determination of 6 main components in <i>Achilleae Herba</i> by HPLC	
XIAO Meng, LIU Zong-yang, WU Xia, CHEN Xiao-qing, ZAN Ke	(2138)
Effects of Huoxiang Zhengqi Oral Liquid on intestinal barrier function in rats with dampness obstructing spleen-stomach syndrome	
HUANG Qing-fang, GONG Meng-juan, CHEN Yan-fen, FENG Cheng-en	(2144)
Research on autophagy induced by two xanthone compounds in HepG2 cells	
WANG Yu-xuan, LIU Hai-ying, REN Jin-hong, ZHANG Hua-feng, XUE Hui-qing	(2151)
Paeonol inhibits macrophage M1 polarization by down-regulating miR-155/JAK1-STAT1 pathway	
SUN Ying, LIU Ling, SHI Xiao-yan, HE Hai, HUANG Han-wen, DAI Min	(2158)
Effects of Huangpu Tongqiao Capsules on EGFR-PLCγ signal pathway of hippocampus in rats with Alzheimer's disease	
WANG Guo-quan, ZHOU Peng, XIE Dao-jun, YE Shu, GAO Hua-wu, WANG Yan, FANG Zheng-qing, CAI Biao	(2165)
Regulatory effect of Jiaotai Pills on central and peripheral neurotransmitters in rats with heart-kidney imbalance insomnia	
HUANG Yun-fang, BI Xin-ning, ZHENG Wei, ZHANG Ting, WEI Gui-jie, ZHANG Yu-jie, WANG Qi	(2172)
Simultaneous rapid detection of ten stilbenes in serum of mice by UPLC-MS/MS	
LIU Shuang-shuang, LIU Qing, LI Pei, YANG Zhi-hong, HE Chun-nian, XIAO Pei-gen	(2180)
Effects of Renshenjian Decoction on blood and urine metabolomics in type 2 diabetes rats based on $^1\text{H-NMR}$	
TANG Meng-qiu, LIN Wei-dong, XIAN Ming-hua, XIE Yuan-yuan, YANG Yong-xia, WANG Shu-mei	(2186)
Meta-analysis of Xiaoer Xiaoji Zhike Oral Liqud combined with azithromycin in treatment of mycoplasma pneumonia in children	
LI Tian-li, PU Feng-lan, WU Yang, ZHAO Guo-zhen, LI Hong-zheng, MA Qiu-xiao, LI Bo	(2193)
Meta-analysis on effectiveness and safety of Pudilan Xiaoyan Oral Liquid on child upper respiratory infection	
BAI Yu, LI Yu-xiang, SHI Yu-jing, ZHAO Hai-yu	(2203)
Analysis of status quo of RCT outcome indexes in treatment of acute ischemic stroke with traditional Chinese medicine	
LI Hui-min, LIAO Xing, HU Rui-xue, YU Dan-dan, GU Hao, WANG Le, ZHAO Hui, ZHANG Yun-ling	(2210)

ZHONGGUO ZHONGYAO ZAZHI

第45卷 第9期

Vol. 45 No. 9

2020/9

中
国
中
药
杂
志

CHINA JOURNAL OF CHINESE MATERIA MEDICA

主 编 张伯礼
主 管 中国科学技术协会
主 办 中国药学会
编辑出版 中国中药杂志编辑部
地 址 北京市东直门内南小街16号
邮 编 100700
电 话 (010) 64087589
网 址 <http://www.cjcm.com.cn>
邮 箱 cjcm2006@188.com
图 文 制 作 同方知网(北京)技术有限公司
印 刷 山西同方知网印刷有限公司
订 阅 发 行 同方知网(北京)技术有限公司
出 版 日 期 2020年5月1日
国际标准连续出版物号 ISSN 1001-5302
国内统一连续出版物号 CN 11-2272/R
国 内 定 价 每期50元, 全年1200元

Editor-in-Chief

ZHANG Bo-li

Responsible Institution

China Association for Science and Technology

Sponsored by

Chinese Pharmaceutical Association

Address: 16 Nanxiaojie, Inner Dongzhimen Beijing 100700, China

Tel: (010) 64087589

E-mail: cjcm2006@188.com

http: <http://www.cjcm.com.cn>

Graphics produced by

Tongfang Knowledge Network Technology Co., Ltd (Beijing)

Printed by

Shanxi Tongfang Knowledge Network Printing Co., Ltd.

Overseas Distributor

Tongfang Knowledge Network Technology Co., Ltd. (Beijing)

Publication Date

May 1, 2020

ISSN 1001-5302 CN 11-2272/R



国内定价: 50.00元