

特别关注:



ISSN 1001-5302
CN 11-2272/R

Q K 2 1 0 0 5 5 0

药用植物分子遗传学研究规律的探讨

药用植物分子遗传学是以药用植物作为研究对象的学科,该学科关注药用植物的遗传和变异规律。本文详细论述了药用植物分子遗传学的三大研究重点方向,并对药用植物分子遗传研究重点的未来发展方向进行了展望,提出了应用药用植物分子遗传学规律实现药用植物保育、育种和有效成分生物合成等的具体方法和措施。

中国 中药 杂志

China Journal of Chinese Materia Medica
ZHONGGUO ZHONGYAO ZAZHI

2020年12月 第45卷 第23期

2020/23



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

· 专论 ·

药用植物分子遗传学研究规律的探讨

陈士林, 孙伟, 吴问广, 陈万生, 王瑛, 董扬, 刘义飞, 徐志超, 孙超, 尹青岗, 李勇青, 罗鸣, 肖莹, 万会花…… (5577)

· 经典名方研究专题(一) ·

经典名方麻黄汤物质基准质量评价方法研究

陈彭月, 张国瓊, 陈莎, 邱继鹏, 杨林勇, 刘艳, 刘安 …… (5589)

经典名方竹茹汤的指纹图谱及功效关联物质预测分析

许金国, 黄紫炎, 沈钱能, 李林, 王巧晗, 王璐, 陆兔林, 毛春芹 …… (5599)

经典名方清胃散的特征图谱及煎煮工艺研究

张琦, 黄嘉怡, 钟宛凌, 刘蕾蕾, 张钰明, 杨琳洁, 白洁, 杜守颖 …… (5607)

经典名方黄芩桂枝五物汤标准煎液化学成分的 UPLC-Q-TOF-MS 分析

许如玲, 范君婷, 董惠敏, 陈晓青, 徐金娣, 霍介格, 鞠建明 …… (5614)

浅析第一批经典名方中的炮制特点及考证方法建议

王云, 郑颖豪, 张村 …… (5631)

经典名方金水六君煎的古代文献分析

董自亮, 李红亮, 罗维早, 覃瑶, 禹奇男, 彭世陆, 王欣, 吴瑞军, 刘世琪, 彭涛, 黄静, 卿玉玲, 秦少容, 徐瑞超 …… (5639)

· 综述 ·

乌头属植物组织培养的研究进展

尹碧薇, 毛柳英, 陈灵丽, 田梅, 崔光红 …… (5645)

灯盏细辛及其活性成分防治阿尔茨海默病的药理作用研究进展

普元柱, 苏灿 …… (5650)

· 资源与鉴定 ·

基于深度卷积神经网络的仿野生种植金银花遥感识别方法研究

史婷婷, 张小波, 郭兰萍, 景志贤, 黄璐琦 …… (5658)

基于多时相无人机遥感的玉竹 GLI 数值研究

王哲, 郑永春, 李锦飞, 王英哲, 容路生, 王佳雪, 姜大成, 齐伟辰 …… (5663)

· 分子生药学 ·

霍山石斛同源四倍体与二倍体活性成分及转录组比较分析

张成才, 高真, 罗丽娜, 梁晖辉, 向增旭 …… (5669)

千里光法尼基焦磷酸合酶基因的克隆及功能鉴定

王丽平, 湛琴琴, 梁瑾, 傅竞也, 王强 …… (5677)

· 制剂与炮制 ·

基于 BAS-GA-BP 神经网络结合熵权法多指标优化风引汤提取工艺

兰济乐, 阮叶萍, 邱璐琦 (5686)

丹参产地加工方法对急性心肌缺血大鼠模型的影响研究

刘娅琴, 张冉, 李玮, 杜洪志, 吴珊珊, 熊瑞, 侯晓杰, 张敏, 王先菊 (5694)

· 化学 ·

知母药材及生饮片质量标准提升研究

黄琪, 邵志愿, 吴德玲, 彭代银, 金传山, 张启岭, 马凯 (5701)

二氢- β -沉香呋喃型倍半萜类天然产物衍生物的化学研究

宁若男, 徐佳琦, 徐一新 (5712)

· 药理 ·

荔枝核总黄酮对 CCl₄ 诱导的大鼠肝纤维化的影响及作用机制和潜在 Q-marker 的预测

冯茵怡, 严炯艺, 夏星, 梁健钦, 黎芳, 谢谭芳, 罗伟生, 奉建芳 (5722)

肝郁气滞型急性胰腺炎病证结合大鼠模型建立的研究

孙凯滨, 孙蓉 (5732)

黄芩苷对肺纤维化小鼠组织中纤维化因子 TGF- β 1 及 mmp2, timp2 表达的影响

徐明杭, 蒙艳丽, 王晓溪, 徐慧星, 王博, 王伟明 (5738)

基于网络药理学和分子对接技术探讨小儿热速清口服液治疗手足口病的物质基础及作用机制

徐英莉, 郭姗姗, 崔晓兰, 时宇静 (5745)

基于网络药理学及分子对接技术探讨半夏泻心汤治疗结肠癌潜在分子机制

罗玉婷, 林龙飞, 刘宇灵, 石国琳, 吴艳秋, 杨安辉, 李慧 (5753)

双丹胶囊联合 5-FU 对肝癌细胞 Huh-7 及荷瘤小鼠协同抗肿瘤作用研究

丁文波, 宁青, 夏智, 宋捷, 周晓雯, 陈秀伟 (5762)

基于抗风湿关节炎相关微量元素生物可利用性优化制川乌和白芍配伍研究

林路秀, 郑凤英, 黄桂珍, 李顺兴, 刘凤娇, 满珊, 吴济如, 李莹莹 (5770)

· 临床 ·

夏枯草制剂治疗桥本甲状腺炎系统评价与试验序贯分析

张艺梁, 胡瑞学, 赵晖, 杨伟, 于丹丹, 李慧敏, 廖星, 顾浩 (5777)

桂枝茯苓方临床应用文献研究与现状分析

张崴, 宋殿荣, 简凯丽, 王晓晓, 魏璐, 邢晶 (5789)

黄葵胶囊对早期糖尿病肾脏疾病患者胰岛素抵抗和尿微量白蛋白的多靶点治疗作用

吴薇, 刘莹露, 万毅刚, 曹东维, 房其军, 涂玥, 刘不悔, 王文文, 王美子, YEE Hong-yun, 袁灿灿, 胡巍 (5797)

中药复方治疗脑小血管病相关认知功能障碍随机对照试验的结局指标分析

张昕洋, 廖星, 刘雪梅, 夏如玉, 梁晓, 徐榛敏, 李茜, 李楠楠, 陈志刚 (5804)

· 本草考证 ·

蓝草类药材的本草考证

王艺涵, 金艳, 陈周全, 陈世彬, 詹志来 (5819)

本期责任编辑: 吕冬梅



CONTENTS IN BRIEF

Molecular genetics of medicinal plants, past achievement, and new era

CHEN Shi-lin, SUN Wei, WU Wen-guang, CHEN Wan-sheng, WANG Ying, DONG Yang, LIU Yi-fei, XU Zhi-chao, SUN Chao, YIN Qing-gang, LI Yong-qing, LUO Ming, XIAO Ying, WAN Hui-hua (5577)

Study on quality evaluation method of classical prescription Mahuang Decoction primary standard substances

CHEN Peng-yue, ZHANG Guo-yuan, CHEN Sha, DI Ji-peng, YANG Lin-yong, LIU Yan, LIU An (5589)

Studies on fingerprints and efficacy-related substance of classical prescription Zhuru Decoction

XU Jin-guo, HUANG Zi-yan, SHEN Qian-neng, LI Lin, WANG Qiao-han, WANG Lu, LU Tu-lin, MAO Chun-qin (5599)

Characteristic spectrum and decoction process of classical prescription Qingwei San

ZHANG Qi, HUANG Jia-yi, ZHONG Wan-ling, LIU Lei-lei, ZHANG Yu-ming, YANG Lin-jie, BAI Jie, DU Shou-ying ... (5607)

UPLC-Q-TOF-MS analysis on chemical constituents of classical prescription Huangqi Guizhi Wuwu Tang standard decoction

XU Ru-ling, FAN Jun-ting, DONG Hui-min, CHEN Xiao-qing, XU Jin-di, HUO Jie-ge, JU Jian-ming (5614)

Brief study on processing characteristics of first batch of classical prescriptions and suggestions on textual research

WANG Yun, ZHENG Ying-hao, ZHANG Cun (5631)

Analysis of classical prescription Jinshui Liuju Jian based on ancient literature

DONG Zi-liang, LI Hong-liang, LUO Wei-zao, QIN Yao, YU Qi-nan, PENG Shi-lu, WANG Xin, WU Rui-jun, LIU Shi-qi, PENG Tao, HUANG Jing, QING Yu-ling, QIN Shao-rong, XU Rui-chao (5639)

Research progress of tissue culture of *Aconitum*

YIN Bi-wei, MAO Liu-ying, CHEN Ling-li, TIAN Mei, CUI Guang-hong (5645)

Research progress in pharmacological effects of *Erigeron breviscapus* and its active ingredients for treatment of Alzheimer's disease

PU Yuan-zhu, SU Can (5650)

Research on remote sensing recognition of wild planted *Lonicera japonica* based on deep convolutional neural network

SHI Ting-ting, ZHANG Xiao-bo, GUO Lan-ping, JING Zhi-xian, HUANG Lu-qi (5658)

Study on GLI values of *Polygonatum odoratum* base on multi-temporal of unmanned aerial vehicle remote sensing

WANG Zhe, ZHENG Yong-chun, LI Jin-fei, WANG Ying-zhe, RONG Lu-sheng, WANG Jia-xue, JIANG Da-cheng, QI Wei-chen (5663)

Comparative analysis of active components and transcriptome between autotetraploid and diploid of *Dendrobium huoshanense*

ZHANG Cheng-cai, GAO Zhen, LUO Li-na, LIANG Hui-hui, XIANG Zeng-xu (5669)

Cloning and functional characterization of farnesyl diphosphate synthase in *Senecio scandens*

WANG Li-ping, SHEN Qin-qin, LIANG Jin, FU Jing-ye, WANG Qiang (5677)

Multi-index optimization of extraction process of Fengyin Decoction based on BAS-GA-BP neural network combined with entropy weight method

LAN Ji-le, RUAN Ye-ping, QIU Lu-qi (5686)

Study on effects of different habitat processing methods of <i>Salviae Miltiorrhizae Radix</i> et <i>Rhizoma</i> in rats with acute myocardial ischemia	
LIU Ya-qin, ZHANG Ran, LI Wei, DU Hong-zhi, WU Shan-shan, XIONG Rui, HOU Xiao-jie, ZHANG Min, WANG Xian-ju	(5694)
Improvement researches on quality standard of <i>Anemarrhenae Rhizoma</i> and its raw processed products	
HUANG Qi, SHAO Zhi-yuan, WU De-ling, PENG Dai-yin, JIN Chuan-shan, ZHANG Qi-ling, MA Kai	(5701)
Chemistry research on natural product derivatives of dihydro-β-agarofuran sesquiterpenoids	
NING Ruo-nan, XU Jia-qi, XU Yi-xin	(5712)
Effect and mechanism of total flavonoids of <i>Lichi Semen</i> on CCl₄-induced liver fibrosis in rats, and prediction of Q-marker	
FENG Yin-yi, YAN Jiong-yi, XIA Xing, LIANG Jian-qin, LI Fang, XIE Tan-fang, LUO Wei-sheng, FENG Jian-fang	(5722)
Study on construction of rat model of acute pancreatitis with syndrome of liver depression and Qi stagnation	
SUN Kai-bin, SUN Rong	(5732)
Effect of baicalin on expression of fibrogenic factors TGF-β1, mmp2 and timp2 in tissue of mice with pulmonary fibrosis	
XU Ming-hang, MENG Yan-li, WANG Xiao-xi, XU Hui-xing, WANG Bo, WANG Wei-ming	(5738)
Material basis and mechanism of Xiao'er Resuqing Oral Liquid on hand, foot and mouth disease based on network pharmacology and molecular docking	
XU Ying-li, GUO Shan-shan, CUI Xiao-lan, SHI Yu-jing	(5745)
Potential molecular mechanism of Banxia Xiexin Decoction in treatment of colon cancer based on network pharmacology and molecular docking technology	
LUO Yu-ting, LIN Long-fei, LIU Yu-ling, SHI Guo-lin, WU Yan-qiu, YANG An-hui, LI Hui	(5753)
Study on synergistic anti-tumor effect of Shuangdan Capsules combined with 5-FU on hepatocellular carcinoma cells Huh-7 and xenograft mice	
DING Wen-bo, NING Qing, XIA Zhi, SONG Jie, ZHOU Xiao-wen, CHEN Xiu-wei	(5762)
Anti-arthritis-related metal bioavailability for optimal compatibility ratio of <i>Aconiti Radix</i> Cocta and <i>Paeoniae Radix Alba</i>	
LIN Lu-xiu, ZHENG Feng-ying, HUANG Gui-zhen, LI Shun-xing, LIU Feng-jiao, MAN Shan, WU Ji-ru, LI Ying-ying	(5770)
Systematic review and trail sequential analysis of preparation of Xiakucao for Hashimoto's thyroiditis	
ZHANG Yi-liang, HU Rui-xue, ZHAO Hui, YANG Wei, YU Dan-dan, LI Hui-min, LIAO Xing, GU Hao	(5777)
Literature research and status analysis on clinical application of Guizhi Fuling Formula	
ZHANG Wei, SONG Dian-rong, LIN Kai-li, WANG Xiao-xiao, WEI Lu, XING Jing	(5789)
Multi-targeted therapeutic effects of Huangkui Capsules on insulin resistance and urine microalbumin in early diabetic kidney disease patients	
WU Wei, LIU Ying-lu, WAN Yi-gang, CAO Dong-wei, FANG Qi-jun, TU Yue, LIU Bu-hui, WANG Wen-wen, WANG Mei-zi, YEE Hong-yun, YUAN Can-can, HU Wei	(5797)
Analysis of outcomes of randomized controlled trial on compound Chinese herbal medicine formulas in treatment of vascular cognitive impairment caused by cerebral small vessel	
ZHANG Xin-yang, LIAO Xing, LIU Xue-mei, XIA Ru-yu, LIANG Xiao, XU Zhen-min, LI Xi, LI Nan-nan, CHEN Zhi-gang	(5804)
Textual research on medicinal blue herbs	
WANG Yi-han, JIN Yan, CHEN Zhou-quan, CHEN Shi-bin, ZHAN Zhi-lai	(5819)

ZHONGGUO ZHONGYAO ZAZHI

第45卷 第23期

Vol. 45 No. 23

2020/23

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.cjcmm.com.cn>
邮 箱 cjcmm2006@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12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: cjcmm2006@188.com

<http://www.cjcmm.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

December 1, 2020

ISSN 1001-5302 CN 11-2272/R

万方数据

ISSN 1001-5302



9 771001 530209

国内定价: 50.00元