

目次

药用植物与大健康产品 (专栏)

西藏色季拉山药用种子植物区系研究 拦继酒, 费文群, 罗建, 兰小中 (411)

四种植物精油对黑翅土白蚁触杀和驱避作用 余豪, 莫建初, 黄求应, 廖敏 (420)

36种中药材体外抗菌活性筛选研究 胡欢, 左国营, 张泽萍 (428)

西南獐芽菜中一个新的裂环烯醚萜苷 黄飞燕, 吴健君, 张应红, 唐荣平, 李千鹏 (441)

Bacillus pumilus 阿拉伯呋喃糖苷酶的重组表达及水解木聚糖的研究
..... 陈芳芳, 曹曦跃, 刘颖, 刘梦佳, 颜佳超, 杨富强, 曹毅, 乔代蓉 (444)

锈毛草莓积雪草合剂对 STZ 小鼠降血糖作用研究
..... 高良才, 王欣怡, 陆诗韵, 周梦璇, 陈清, 林青楠 (451)

大叶山楝根的化学成分及细胞毒活性研究
..... 李薇, 黄森, 梅文莉, 董文化, 王军, 蔡彩虹, 盖翠娟, 戴好富 (457)

核桃青皮的化学成分研究——酚类化合物 魏欢, 杨建文, 颜小捷, 李典鹏, 张灵芝 (463)

鸭儿芹的化学成分及对 Hep G2 细胞毒性 刘安韬, 张婷, 梁杏梅 (469)

黔产莪术油的品质分析 廖彬汛, 唐超, 于晓亮, 罗俊, 潘年松 (475)

植物生理与育种

‘章姬’草莓茎段愈伤组织诱导及高频植株再生体系的建立
..... 张爱丽, 王元忠, 黄衡宇, 李继祥, 马利娟 (482)

鸭梨 PAL 基因的反义遗传转化及表达分析 李会宣, 许冬倩, 闫洪波 (492)

甘薯肉桂酸-4-羟化酶基因克隆及序列分析 张华玲, 刘绪, 杨春贤, 黄元射, 傅玉凡, 张启堂 (501)

金丝李果实、种子形态分化及外源物质对种子萌发和幼苗生长的影响
..... 张俊杰, 韦霄, 吴少华, 柴胜丰, 吕仕洪, 韩愈 (509)

机插秧水稻物质生产与养分积累特性研究
..... 曾永跃, 唐国荣, 韦杰权, 韦承坤, 韦善清, 黄敏, 宋红, 阮春芳, 江立庚 (521)

超低温冷冻对益智种子生理生化特性的影响 曾琳, 吴怡, 何明军, 顾雅坤, 王德立 (529)

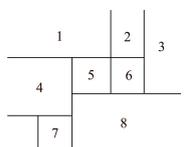
不同砧木阔瓣含笑嫁接苗生长生理及亲和性评价 蔡梦颖, 金晓玲, 柴戈霞, 胡曼筠, 罗峰 (536)

责任编辑 蒋巧媛 何永艳 李莉 周翠鸣
责任校对 周翠鸣 李莉 何永艳 蒋巧媛
英文校对 李莉 何永艳 蒋巧媛 周翠鸣
封面/版式设计 蒋巧媛 何永艳 李莉 周翠鸣

期刊基本参数: CN 45-1134/Q * 1981 * m * A4 * 134 * zh+en * P * ¥45.00 * 1200 * 17 * 2018-04

封面说明: 色季拉山位于青藏高原东南部, 地处雅鲁藏布江中下游, 是东喜马拉雅北翼山地森林及高山生态系统的典型代表地区, 区内地形地貌特殊且复杂多样, 发育了以亚热带为基带的较为完整的原生山地垂直生态系统, 孕育了丰富的野生植物资源, 药用植物资源也极为丰富。调查表明: 色季拉山药用种子植物资源丰富, 区系成分具有鲜明的温带性质, 同时深受热带植物区系的影响; 该山区药用植物药用功效多样, 其中不乏药用价值高的名贵药用植物和被列入濒危保护的药用植物。如何有效保护并合理利用该山区丰富、重要的野生药用植物资源, 使高原特色的野生药用植物基因库得以永续维持, 已成为今后一段时期相关研究中亟需关注的关键问题。

照片示: 部分代表性高原药用植物。1. 管花鹿药; 2. 多刺绿绒蒿 (湿润环境); 3. 总状绿绒蒿; 4. 蓝玉簪龙胆; 5. 多刺绿绒蒿 (生长在灌木下); 6. 多刺绿绒蒿 (干旱环境); 7. 露蕊乌头; 8. 苞叶雪莲。(相关内容详见本期正文 411~419 页拦继酒等的文章)



CONTENTS

Medicinal Plants and Production for Massive Health (Special Column)

Medicinal seed plants flora in Shergyla Mountains, Tibet LAN Jijiu, FEI Wenqun, LUO Jian, LAN Xiaozhong (411)

Contact toxicity and repellency of four plant oils against *Odontotermes formosanus* YU Hao, MO Jianchu, HUANG Qiuying, LIAO Min (420)

Screening of antimicrobial activities of 36 Chinese herbal medicines *in vitro* HU Huan, ZUO Guoying, ZHANG Zeping (428)

A new secoiridoid glycoside from *Swertia cincta* HUANG Feiyan, WU Jianjun, ZHANG Yinghong, TANG Rongping, LI Ganpeng (441)

Recombinant expression of α -L-Arabinofuranosidase from *Bacillus pumilus* and hydrolysis of xylan CHEN Fangfang, CAO Xiyue, LIU Ying, LIU Mengjia, YAN Jiachao, YANG Fuqiang, CAO Yi, QIAO Dairong (444)

Antidiabetic effects of *Fragaria nilgerrensis* and *Centella asiatica* compound on STZ-induced diabetic mice GAO Liangcai, WANG Xinyi, LU Shiyun, ZHOU Mengxuan, CHEN Qin, LIN Qingnan (451)

Chemical constituents and cytotoxic activities of roots from *Aphanamixis grandifolia* LI Wei, HUANG Miao, MEI Wenli, DONG Wenhua, WANG Jun, CAI Caihong, GAI Cuijuan, DAI Haofu (457)

Chemical constituents from walnut green husk: Phenols WEI Huan, YANG Jianwen, YAN Xiaojie, LI Dianpeng, ZHANG Lingzhi (463)

Chemical constituents of *Cryptotaenia japonica* and toxicity to Hep G2 LIU Antao, ZHANG Ting, LIANG Xingmei (469)

Quality analysis on Guizhou Zedoary turmeric oil LIAO Binxun, TANG Chao, YU Xiaoliang, LUO Jun, PAN Niansong (475)

Plant Pysiology and Breeding

Efficient callus induction and high-frequency regeneration system establishment of strawberry ‘Akihime’ ZHANG Aili, WANG Yuanzhong, HUANG Hengyu, LI Jixiang, MA Lijuan (482)

Antisense genetic transformation and expression analysis of *PAL* gene in Yali Pear (*Pyrus bretschneideri*) LI Huixuan, XU Dongqian, YAN Hongbo (492)

Molecular cloning and sequence analysis of acid-4-hydroxylase gene from sweet potato ZHANG Hualing, LIU Xu, YANG Chunxian, HUANG Yuanshe, FU Yufan, ZHANG Qitang (501)

Morphological differentiation of *Garcinia paucinervis* fruits and seeds and effects of exogenous substances on its seed germination and seedling growth ZHANG Junjie, WEI Xiao, WU Shaohua, CHAI Shengfeng, LÜ Shihong, HAN Yu (509)

Dry matter and nutrient accumulation characteristics of machine-transplanting rice ZENG Yongyue, TANG Guorong, WEI Jiequan, WEI Chengkun, WEI Shanqing, HUANG Min, SONG Hong, RUAN Chunfang, JIANG Ligeng (521)

Physiological and biochemical characteristics of *Alpinia oxyphylla* seeds after cryopreservation ZENG Lin, WU Yi, HE Mingjun, GU Yakun, WANG Deli (529)

Evaluation on compatibility, growth trait and physiology indicators of *Michelia platypetala* grafted on different rootstocks CAI Mengying, JIN Xiaoling, CHAI Yixia, HU Manjun, LUO Feng (536)

Cover images: Selective presentation of alpine medicinal plants. **1.** *Maianthemum henryi*; **2.** *Meconopsis horridula* (moist environment); **3.** *Meconopsis racemosa*; **4.** *Gentiana veitchiorum*; **5.** *Meconopsis horridula* (grow under shrubs); **6.** *Meconopsis horridula* (arid environment); **7.** *Aconitum gymnantrum*; **8.** *Saussurea obvallata*.
(For details, please see the text by LAN Jijiu et al on page 411–419)

