广西植物
GUANGXI ZHIWU

2022 年 9 月　第 42 卷 第 9 期
(月刊)

目　　次

专栏：药用植物与大健康

番茄总皂苷对小鼠高尿酸血症的调节作用 …… 杨子明，张　利，刘金磊，李典鹏(1441)
山豆根地上部分的酪氨酸酶抑制活性成分筛选研究 …… 阳丙媛，何瑞杰，王亚凤，黄永林(1448)
罗汉果苷 IIE 在巨噬细胞糖尿病炎症模型中的作用 …… 黄　凯，肖　娟，李爱丽(1454)
pH 区带精制逆流色谱法分离制备越南槐中具有抑制 α-糖苷酶活性的生物碱 …… 梁森林，黄永林，何瑞杰，王亚凤，阳丙媛，李典鹏，司红彬(1459)
走马胎叶片营养成分分析及栽培年限差异比较 …… 唐凤鸾，梁英艺，孙菲菲，赵　健(1466)
走马胎三萜皂苷合成相关基因表达分析 …… 雷宇阳，李　霁，赵丽云，罗　鸣，陈红锋(1473)
猫须草抗炎活性成分研究 …… 李毅鹏，潘争红，符毓夏，宁德生，李连春，海　洪(1480)
一株内生真菌 *Talaromyces* sp.次级代谢产物及其活性 …… 薛欣怡，张　翼，冯昀铠，廖清楠，胡雪琼，刘亚月(1487)
油橄榄果渣抗氧化部位化学成分的研究 …… 陈根振，王蝴蝶，裴　栋，黄新异，邸多隆(1498)
云南三种特色柑橘属果皮精油成分及活性研究 …… 李　渔，陈　波，施建莲，马海玲，习杨彦彬，刘　佳(1507)
雷公藤提取物中主要物质基础及其抗肿瘤活性研究 …… 胡　丹，丁同同，李　江，邓璐璐，吴树燕，穆淑珍(1514)
拔毒散的化学成分及其抗炎活性研究 …… 罗明楚，石小翠，孙　朋，鲁建美，宋兴震，贾慧珍，吴　敏，许又凯(1522)
民族药刺梨根茎化学成分及其抗炎活性研究 …… 梁　勇，李良群，王　丽，周　浪，杨小生(1531)
纤枝金丝桃化学成分研究 …… 张　涵，邓憬童，彭　宇，韩庆迪，周献东，杨新洲(1542)

遗传与育种

寡聚核苷酸介导的基因突变技术创制抗除草剂烟草新种质 …… 谢宇峰，秦利军(1551)
多刺绿绒蒿 *WD*40 基因家族的鉴定及生物信息学分析 …… 任玉玲，赵　艳，赵成周，李　萍(1561)
谷子 *PAL* 基因家族全基因组的鉴定和表达分析 …… 孟亚轩，孙颖琦，赵心月，王凤霞，瓮巧云，刘颖慧(1572)
崖壁植物太行菊与长裂太行菊全基因组大小及特征分析 …… 王祎玲，臧　恩，张　昊，刘志霞，兰亚飞，何　珊，郝伟丽，曹艳玲(1582)
西藏大花红景天 *RcCATs* 与 *RcSODs* 基因克隆及功能分析 …… 王宏鹏，李一丹，滕彦娇，陈成彬，张力鹏(1590)

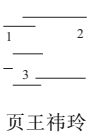
技术与方法

三种苏铁植物呈现出迥异的水力安全边界 …… 覃兰丽，庞玉堃，张天浩，安倚东，蒋国凤(1602)
鞘柄菝葜药材质量标准研究 …… 赵春晓，李汉伟，苏秀红，兰金旭，晁利芹(1612)

责任编辑　周翠鸣　蒋巧媛　李　莉
责任校对　蒋巧媛　李　莉　邓斯丽　周翠鸣
英文编辑/校对　李　莉　周翠鸣　邓斯丽　蒋巧媛
封面/版式设计　周翠鸣　李　莉　蒋巧媛　邓斯丽

期刊基本参数：CN 45-1134/Q * 1981 * m * A4 * 182 * zh+en * P * ￥45.00 * 1200 * 21 * 2022-09

封面说明：太行菊(*Opisthopappus taihangensis*)、长裂太行菊(*O. longilobus*)隶属太行菊属(*Opisthopappus*)，多年生草本植物，仅生长在太行山的悬崖裂缝中，为典型的崖壁植物，具有良好的抗旱抗寒性。其中太行菊主要分布在河南、山西等地，长裂太行菊分布在山西、河北等地。在菊亚族(Chrysantheminae)中，两物种较为原始，是菊科(Compositae)重要的野生种质资源，其体内含有耐寒耐旱等优异基因，为菊科种质创新的良好基因源，具有较高的经济与生态价值。



照片示：太行菊与长裂太行菊。**1**. 长裂太行菊；**2**. 太行菊；**3**. 长裂太行菊。封面照片由王祎玲提供。相关内容详见本期正文 1582~1589 页王祎玲等的文章。

GUIHAIA **Sept. 2022 Vol. 42 No. 9**
(Monthly)

CONTENTS

Special Column: Medicinal Plants and Massive Health

Modulating effects of tomato total saponin on uric acid in hyperuricemia mice ····· YANG Ziming, ZHANG Li, LIU Jinlei, LI Dianpeng(1441)
Chemical constituents from the aerial parts of *Sophora tonkinensis* and their tyrosinase inhibitory activities ····· YANG Bingyuan, HE Ruijie, WANG Yafeng, HUANG Yonglin(1448)
Mogroside IIE effects on macrophage in diabetic inflammatory models ····· HUANG Kai, XIAO Juan, LI Aili(1454)
Separation and preparation of alkaloids with inhibitory activity of α-glucosidase from *Sophora tonkinensis* by pH-zone-refining counter-current chromatography ····· LIANG Senlin, HUANG Yonglin, HE Ruijie, WANG Yafeng, YANG Bingyuan, LI Dianpeng, SI Hongbin(1459)
Analysis and comparison of leaf nutrient components of *Ardisia gigantifolia* from different cultivated years ····· TANG Fengluan, LIANG Yingyi, SUN Feifei, ZHAO Jian(1466)
Expression analysis of triterpenoid saponin biosynthesis related genes in *Ardisia gigantifolia* ····· LEI Yuyang, LI Ji, ZHAO Liyun, LUO Ming, CHEN Hongfeng(1473)
Anti-inflammatory constituents of *Clerodendranthus spicatus* ····· LI Yipeng, PAN Zhenghong, FU Yuxia, NING Desheng, LI Lianchun, HAI Hong(1480)
Secondary metabolites and activities of endophytic fungus *Talaromyces* sp. ····· XUE Xinyi, ZHANG Yi, FENG Yunkai, LIAO Qingnan, HU Xueqiong, LIU Yayue(1487)
Chemical components of antioxidant extract in *Olea europaea* pomace ····· CHEN Genzhen, WANG Hudie, PEI Dong, HUANG Xinyi, DI Duolong(1498)
Components and activities of essential oils from peel of three endemic *Citrus* L. in Yunnan ····· LI Yu, CHEN Bo, SHI Jianlian, MA Hailing, XI Yangyanbin, LIU Jia(1507)
Main material basis and anti-tumor activities of *Tripterygium wilfordii* extract ····· HU Dan, DING Tongtong, LI Jiang, DENG Lulu, WU Shuyan, MU Shuzhen(1514)
Chemical constituents of *Sida szechuensis* and their anti-inflammatory activities ····· LUO Mingchu, SHI Xiaocui, SUN Peng, LU Jianmei, SONG Xingzhen, JIA Hiuzhen, WU Min, XU Youkai(1522)
Chemical constituents and their anti-inflammatory activities from rhizome of ethnic medicine *Rosa roxburghii* ····· LIANG Yong, LI Liangqun, WANG Li, ZHOU Lang, YANG Xiaosheng(1531)
Chemical components of *Hypericum lagarocladum* ····· ZHANG Han, DENG Jingtong, PENG Yu, HAN Qingdi, ZHOU Xiandong, YANG Xinzhou(1542)

Genetics and Breeding

Creating new tobacco germplasm with herbicide-resistance based on oligonucleotide-mediated mutagenesis (OMM) technology ····· XIE Yufeng, QIN Lijun(1551)
Identification and bioinformatics analysis of *WD*40 gene family of *Meconopsis horridula* ····· REN Yuling, ZHAO Yan, ZHAO Chengzhou, LI Ping(1561)
Genome-wide identification and expression of millet *PAL* gene family ····· MENG Yaxuan, SUN Yingqi, ZHAO Xinyue, WANG Fengxia, WENG Qiaoyun, LIU Yinghui(1572)
Genome sizes and characteristics of cliff plants *Opisthopappus taihangensis* and *O. longilobus* on Taihang Mountains ····· WANG Yiling, ZANG En, ZHANG Hao, LIU Zhixia, LAN Yafei, HE Shan, HAO Weili, CAO Yanling(1582)
Cloning and fuction analysis of *RcCATs* and *RcSODs* genes in Tibet *Rhodiola crenulata* ····· WANG Hongpeng, LI Yidan, TENG Yanjiao, CHEN Chengbin, ZHANG Lipeng(1590)

Techniques and Methods

Contrasting hydraulic safety margins of three cycads ····· QIN Lanli, PANG Yukun, ZHANG Tianhao, AN Yidong, JIANG Guofeng(1602)
Quality standard of *Smilax stans* ····· ZHAO Chunxiao, LI Hanwei, SU Xiuhong, LAN Jinxu, CHAO Liqin(1612)

Cover images: *Opisthopappus taihangensis* and *O. longilobus*. **1**. *O. longilobus*; **2**. *O. taihangensis*; **3**. *O. longilobus*. Cover images are provided by Wang Yiling. For detail, please see the text by WANG Yiling et al on pages 1582-1589.