

PLANT DIVERSITY

(植物多样性)

CONTENTS

Volume 48 Issue 2 2026

Editorial

- 227 Genomic insights into the survival code of karst plants
Xiongfang Liu, Yongpeng Ma

Articles

- 231 Speciation, endangerment and adaptation in limestone rocky environment of *Urophysa* (Ranunculaceae)
Deng-Feng Xie (谢登峰), Yi-Yang Zhang (张义阳), Jing Cai (蔡竞), Rui-Yu Cheng (成瑞瑜), Yuan Wang (王渊), Jin-Bo Tan (谭进波), Yan Yu (余岩), Xing-Jin He (何兴金), Song-Dong Zhou (周颂东)
- 246 Chromosome-level genome assembly and population genomics analysis of *Camellia rubituberculata* provide insights into adaptation to karst habitats
Chao Yan (颜超), Ming-tai An (安明态), Ming Tang (唐明), Xin-xiang Bai (白新祥), Xu Xiao (肖旭), Zhao-hui Ran (冉朝辉), Zhi Li (李志)
- 262 High-quality genome of *Oreocharis mileensis* (Gesneriaceae) provides insights into the adaptation and conservation of highly threatened species in karst region
Temur Asatulloev, Lei Cai, Ziyoviddin Yusupov, Kai-Hua Jia, Ren-Gang Zhang, Komiljon Sh. Tojibaev, Wei-Bang Sun
- 278 Exploring the evolutionary landscape of mitochondrial genomes in the sunflower family (Asteraceae)
Zhixi Fu (付志玺), Penghao Yang (杨鹏浩), Jiazhen Wu (吴佳珍), Guojin Zhang (张国进), Yanlei Feng (冯彦磊)
- 289 A robust phylogenomic framework supports a revised intrafamilial classification of Urticaceae
Xiao-Gang Fu (付小刚), Jie Liu (刘杰), Richard I. Milne, Alex K. Monroe, Shui-Yin Liu (刘水银), Qin Tian (田琴), Gregory W. Stull, Amos Kipkoech, Ting-Shuang Yi (伊廷双), De-Zhu Li (李德铢), Zeng-Yuan Wu (吴增源)
- 307 Phylogenomics unravels the early divergence and diversification in Bignoniaceae
Pengpeng Yan (颜鹏鹏), Chang Guo (郭畅), Xingyong Cui (崔兴勇), Enze Li (李恩泽), Yuran Bai (白雨冉), Manuel R. Roncal-Rabanal, Gangmin Zhang (张钢民), Wenpan Dong (董文攀)
- 320 Diversification of liverworts across spatial and climatic gradients in the world
Hong Qian, Michael Kessler, Shenhua Qian
- 330 Influence of divergent sampling intensity across plant growth forms on estimating elevational richness patterns and their drivers
Hongrui Ling, Jianqiang Yang, Yannan He, Pengwan Zhang, Jiangci nongbu, Sina laoding, Zhenyu Fan, Aoxiang Chang, Hang Sun, Shuang Zhang, Zihan Jiang
- 340 The relative role of regional species pools in determining tree species richness and rarity in Chinese subtropical and tropical forests
Houjuan Song, Borja Jiménez-Alfaro, Yongchang Song, Jens-Christian Svenning, Alejandro Ordonez, Oukai Zhang, Xihua Wang, Enrong Yan, Kun Song, Luxiang Lin, Shengbin Chen, Qingpei Yang, Buhang Li, Chuping Wu, Bo Jiang, Chao Jin, Zhiming Zhang, Yi Ding, Huilin Wan, Kankan Shang, Kunfang Cao, Wei Shi, Xin Wang, Xiaoran Wang, Pengcheng Liu, Jian Zhang
- 351 Elevational patterns of multidimensional plant diversity and community structure in a subtropical karst mountain system
Lihua Zhou, Yuxiao Long, Siwei Hu, Min Luo, Wenbo Mou, Jingwen Deng, Lisha Jing, Mingyue Pang, Li Huang, Yongchuan Yang

- 363 Differences in leaf heat and drought tolerance but not cold tolerance between karst and non-karst forest plants
Qiufeng Ning, Yin Wen, Hui Liu, Jiawei Li, Yunpeng Nie
- 373 The context dependency of nitrogen deposition impacts on the compositional coupling between aboveground vegetation and soil seed bank
Niwu Te (特尼乌), Wen-Tao Luo (雒文涛), Péter Török, Xiao-Ru Zhang (张晓如), Xiao-Sa Liang (梁潇洒), Yuan-Xiu Wu (吴远秀), Xiao-Jing Zhang (张效境), Anke Jentsch, Xiao-Tao Lü (吕晓涛)
- 381 Effects of neighborhood diversity on herbivory in early-stage forests in southern China
Zhi-Qiang Shen (沈志强), Xian-Hui Zhu (朱贤辉), Ming-Qiang Wang (王明强), Ming Ni (倪明), Wen-Da Cheng (程文达), Wei Lin (林维), Cheng-Jin Chu (储诚进), You-Shi Wang (王酉石)
- 389 Stage-dependent shifts in native and invasive traits mediate community invasibility in subtropical urban ecosystems
Chengwei Li (李承蔚), Qi Wu (吴奇), Cheng Du (杜成), Laihong Gu (谷来鸿), Xingchen Wang (王兴辰), Jiajie Xie (谢家杰), Jiayi Wang (王佳怡), Jianhua Chen (陈建华), Yunquan Wang (王云泉)
- 399 Tree structural diversity mediates vegetation carbon storage in dry-hot valley savannas along an elevational gradient
Wan-Chen Li (李宛辰), Qin Huang (黄琴), Ru-Jing Yang (杨汝静), Zhi-Yan Peng (彭直琰), Qiong Cai (蔡琼), Wen-Jing Fang (方文静), Wen-Jun Liu (刘文俊), Su-Hui Ma (马素辉), Ya-Jun Chen (陈亚军), Zhi-Ming Zhang (张志明)
- 409 Soil nutrients and heavy metals jointly shape spontaneous plant functional groups in abandoned mining areas
Xin-qi Yuan, Yin-jie Li, Yao Zhao, Fu-xiang Peng, Wen-jing Zhang, Chang-e Liu, Chang-qun Duan

Short Communication

- 422 Species evolution determines epiphyte evolution in Orchids
Tianwen Zhang (张天玟), Jun-Wen Zhai (翟俊文), Gang Wang (王刚)

Case Report

- 429 *Tamarindus indica* telomere-to-telomere genome reveals tartaric acid accumulation in fruit
Zhidong Li, Shenghao Wang, Shuling Wang, Chong Wang, Hongbin Zhang, Fei Chen, Wenquan Wang

Correspondence

- 433 *Humboldtia* Vahl – An under-utilised, under-researched, and vulnerable tree genus endemic to the Western Ghats-Sri Lanka biodiversity hotspot
Jithu K. Jose, Saranya K.R.L

Cover Story: In this issue, *Liu & Ma* (p.227) investigate the genomic adaptive mechanisms and endangerment drivers of karst plants—with a specific focus on the key species: *Oreocharis mileensis* (*Asatulloev et al.*, p.262), *Camellia rubituberculata* (*Yan et al.*, p.246), *Urophysa rockii* and *U. henryi* (*Xie et al.*, p.231). They reveal these plants face population decline and genetic isolation due to historical evolutionary processes and anthropogenic impacts, with whole-genome duplication acting as a core adaptive mechanism. Genomics is shown to underpin precision conservation strategies, and six major future research directions are proposed, including pan-genomics and convergent evolution. The cover shows fruits of *Camellia rubituberculata* (top left), flowers of *Oreocharis mileensis* (lower left) and *Urophysa henryi* (middle).

(Image Credit: top left by Zhi Li, lower left by Lei Cai, middle by Dengfeng Xie)