The GRAS transcription factor PtrPAT1 of *Poncirus trifoliata* functions in cold tolerance and modulates glycine betaine content by regulating the *BADH*-like gene

原文链接：https://doi.org/10.1093/hr/uhae296

GRAS 转录因子 PtrPAT1 具有耐寒功能，并通过调节 BADH-like 基因调控枳中甘氨酸甜菜碱的含量

Malus sieversii: a historical, genetic, and conservational perspective of the primary progenitor species of domesticated apples

原文链接：https://doi.org/10.1093/hr/uhae244

新疆野苹果：驯化苹果主要祖先物种的历史、遗传和保护视角

Violet LED light-activated MdHY5 positively regulates phenolic accumulation to inhibit fresh-cut apple fruit browning

原文链接：https://doi.org/10.1093/hr/uhae276

微信导读：Hortic Res | 沈阳农业大学果树发育生物学团队揭示 LED 紫光通过促进酚类物质的积累抑制鲜切苹果果实褐变的机制

Recent trends in the elucidation of complex triterpene biosynthetic pathways in horticultural trees

原文链接：https://doi.org/10.1093/hr/uhae254

园艺作物中复杂的三萜生物合成途径的研究进展

Revisiting the role of light signaling in plant responses to salt stress

原文链接：https://doi.org/10.1093/hr/uhae262

微信导读：Hortic Res 综述 | 沈阳农业大学李天来院士/王峰教授团队系统总结了光信号在植物响应盐胁迫中的调控机制

Decoding the genetic basis of secretory tissues in plants

原文链接：https://doi.org/10.1093/hr/uhae263

解析植物分泌组织的遗传基础

Circadian rhythms of microbial communities and their role in regulating nitrogen and phosphorus cycling in the rhizosphere of tea plants

原文链接：https://doi.org/10.1093/hr/uhae267

微信导读：Hortic Res |浙江大学李春阳教授团队揭示茶树根际微生物群落昼夜节律及其对氮磷循环的调控规律

Expansion and functional divergence of terpene synthase genes in angiosperms: a driving force of terpene diversity

原文链接：https://doi.org/10.1093/hr/uhae272

微信导读：Hortic Res | 浙江大学园林研究所解析被子植物萜类合酶基因的扩张和功能分化

OfWRKY17-OfC3H49 module responding to high ambient temperature delays flowering via inhibiting *OfSOC1B* expression in *Osmanthus fragrans*

原文链接：https://doi.org/10.1093/hr/uhae273

微信导读：Hortic Res | 浙江农林大学赵宏波教授/董彬副教授研究团队揭秘高温延迟桂花开花的分子调控机制

The whole-genome dissection of root system architecture provides new insights for the genetic improvement of alfalfa (*Medicago sativa* L.)

原文链接：https://doi.org/10.1093/hr/uhae271

微信导读：中国农业科学院北京畜牧兽医研究所饲草育种与栽培创新团队解析紫花苜蓿根系性状遗传基础

Oligo-FISH barcode chromosome identification system provides novel insights into the natural chromosome aberrations propensity in the autotetraploid cultivated alfalfa

原文链接：https://doi.org/10.1093/hr/uhae266

微信导读：Hortic Res | 石河子大学李鸿彬/孟狀团队在苜蓿自然染色体畸变倾向性方面取得新进展

The CsTIE1–CsAGL16 module regulates lateral branch outgrowth and drought tolerance in cucumber

原文链接：https://doi.org/10.1093/hr/uhae279

CsTIE1-CsAGL16 模块调节黄瓜侧枝生长和耐旱性

Genome-wide association analysis of flowering date in a collection of cultivated olive tree

原文链接：https://doi.org/10.1093/hr/uhae265

栽培油橄榄开花期的全基因组关联分析

Chromatin accessibility profile and the role of PeAtf1 transcription factor in the postharvest pathogen *Penicillium expansum*

原文链接：https://doi.org/10.1093/hr/uhae264

微信导读：Hortic Res | 江苏大学张红印教授团队揭示采后病原菌扩展青霉的染色质可及性图谱及 bZIP 转录因子功能

CRISPR/Cas9-mediated *CHS2* mutation provides a new insight into resveratrol biosynthesis by causing a metabolic pathway shift from flavonoids to stilbenoids in *Vitis davidii* cells

原文链接：https://doi.org/10.1093/hr/uhae268

CRISPR/Cas9 介导的 *CHS2* 突变通过引起刺葡萄细胞中从黄酮类转变为二苯乙烯类，为白藜芦醇生物合成提供了新的见解

Targeted mutation of *BnaMS1*/*BnaMS2* combined with the RUBY reporter enables an efficient two-line system for hybrid seed production in *Brassica napus*

原文链接：https://doi.org/10.1093/hr/uhae270

微信导读：Hortic Res | 华中农业大学范楚川团队开发油菜两系杂交育种新技术

Genomes and integrative genomic insights into the genetic architecture of main agronomic traits in the edible cherries

原文链接：https://doi.org/10.1093/hr/uhae269

微信导读：Hortic Res 综述 | 四川农业大学联合法国国家农业食品与环境研究院系统综述樱桃基因组及重要性状遗传结构与整合

The molecular pathways leading to GABA and lactic acid accumulation in florets of organic broccoli rabe (*Brassica rapa* subsp. *sylvestris*) stored as fresh or as minimally processed product

原文链接：https://doi.org/10.1093/hr/uhae274

导致有机西兰花小花中 GABA 和乳酸积累的分子途径

A cost-effective oligo-based barcode system for chromosome identification in longan and lychee

原文链接：https://doi.org/10.1093/hr/uhae278

微信导读：Hortic Res | 中国热科院南亚所在无患子科染色体可视化研究方面取得新进展

Grapevine cell response to carbon deficiency requires transcriptome and methylome reprogramming
原文链接：https://doi.org/10.1093/hr/uhae277
葡萄细胞对缺碳的响应需要转录组和甲基化组的重编程

BcWRKY25-BcWRKY33A-BcLRP1/BcCOW1 module promotes root development for improved salt tolerance in Bok choy
原文链接：https://doi.org/10.1093/hr/uhae280
微信导读：Hortic Res | 南京农业大学侯喜林/刘同坤课题组揭示不结球白菜根系发育新机制

Two leucine-rich repeat receptor-like kinases initiate herbivory defense responses in tea plants
原文链接：https://doi.org/10.1093/hr/uhae281
微信导读：中国农科院茶叶所揭示两个富亮氨酸重复类受体蛋白激酶引发茶树抗虫防御反应的分子机制

A vacuolar invertase gene *SlVI* modulates sugar metabolism and postharvest fruit quality and stress resistance in tomato
原文链接：https://doi.org/10.1093/hr/uhae283
微信导读：Hortic Res | 四川大学刘明春课题组揭示液泡蔗糖转化酶对番茄果实糖代谢和采后品质及抗性的影响

Natural variation in MdNAC5 contributes to fruit firmness and ripening divergence in apple　苹果 MdNAC5
原文链接：https://doi.org/10.1093/hr/uhae284
微信导读：西北农林科技大学赵政阳教授团队构建苹果高质量遗传图谱并揭示果实成熟的遗传调控机制

CHH hypermethylation contributes to the early ripening of grapes revealed by DNA methylome landscape of ‘Kyoho’ and its bud mutant
原文链接：https://doi.org/10.1093/hr/uhae285
微信导读：Hortic Res | 河南科技大学郭大龙教授团队利用早熟芽变甲基化组分析揭示葡萄成熟的表观调控机制

The amino acid permease *SlAAP6* contributes to tomato growth and salt tolerance by mediating branched-chain amino acid transport
原文链接：https://doi.org/10.1093/hr/uhae286
微信导读：海南大学王守创团队揭示氨基酸转运蛋白 SlAAP6 协同调控番茄生长发育与耐盐性的新机制

Glycerophosphodiester phosphodiesterase 1 mediates G3P accumulation for Eureka lemon resistance to citrus yellow vein clearing virus
原文链接：https://doi.org/10.1093/hr/uhae287
微信导读：国家柑桔苗木脱毒中心揭示 ClGDPD1 通过介导 G3P 积累正调控柑橘黄化脉明病毒抗性的机制

Disruption of *ClOSD1* leads to both somatic and gametic ploidy doubling in watermelon
原文链接：https://doi.org/10.1093/hr/uhae288
微信导读：Hortic Res | 西北农林科技大学袁黎团队在西瓜体细胞和生殖细胞倍性研究方面取得新进展

NpCIPK6–NpSnRK1 module facilitates intersubgeneric hybridization barriers in water lily (*Nymphaea*) by reducing abscisic acid content
原文链接：https://doi.org/10.1093/hr/uhae289
微信导读：Hortic Res | 南京农业大学解析睡莲亚属间杂交障碍形成的关键机理

Editorial: introducing dedication reviews—broad reviews in plant and horticultural sciences
原文链接：https://doi.org/10.1093/hr/uhae358
社论：开设"Dedication Reviews"——植物和园艺科学的广泛评论

Diversity and interactions of rhizobacteria determine multinutrient traits in tomato host plants under nitrogen and water disturbances
原文链接：https://doi.org/10.1093/hr/uhae290
微信导读：中山大学谢若瀚课题组揭示水氮扰动下根际微生物群落组装与番茄多重养分特征的关联机制

CsNAC17 enhances resistance to *Colletotrichum gloeosporioides* by interacting with CsbHLH62 in *Camellia sinensis*
原文链接：https://doi.org/10.1093/hr/uhae295
微信导读：Hortic Res | 南京农业大学黎星辉教授团队揭示转录因子 CsNAC17 调控茶树抗炭疽病的分子机制

The scion-driven transcriptomic changes guide the resilience of grafted near-isohydric grapevines under water deficit
原文链接：https://doi.org/10.1093/hr/uhae291
接穗驱动的转录组变化指导嫁接近等水葡萄在缺水条件下的恢复力

Tissue culture-independent approaches to revolutionizing plant transformation and gene editing
原文链接：https://doi.org/10.1093/hr/uhae292
非组织培养的植物转化和基因编辑方法

Enhancing CRISPR-Cas-based gene targeting in tomato using a dominant-negative *ku80*
原文链接：https://doi.org/10.1093/hr/uhae294
利用显性负调控的 ku80 增强 CRISPR-Cas 在番茄中的基因打靶

Genome editing for grass improvement and future agriculture
原文链接：https://doi.org/10.1093/hr/uhae293
微信导读：Hortic Res 综述 | 兰州大学胡涛课题组总结草类植物基因编辑研究进展

A transcription factor, PbWRKY24, contributes to russet skin formation in pear fruits by modulating lignin accumulation
原文链接：https://doi.org/10.1093/hr/uhae300
微信导读：Hortic Res | 青岛农业大学王彩虹/马长青团队揭示 PbWRKY24 调控梨果实褐皮形成的分子机制

The ubiquitin ligase VviPUB19 negatively regulates grape cold tolerance by affecting the stability of ICEs and CBFs
原文链接：https://doi.org/10.1093/hr/uhae297
微信导读：西北农林科技大学张朝红教授课题组揭示泛素连接酶 VviPUB19 负调控葡萄耐寒性的分子机制

Genomic selection and genetic architecture of agronomic traits during modern flowering Chinese cabbage breeding
原文链接：https://doi.org/10.1093/hr/uhae299
微信导读：华南农业大学陈长明教授团队联合广州市农业科学研究院揭示了菜心遗传改良的基因组基础

High-quality genome of black wolfberry (*Lycium ruthenicum* Murr.) provides insights into the genetics of anthocyanin biosynthesis regulation
原文链接：https://doi.org/10.1093/hr/uhae298
微信导读：宁夏农林科学院枸杞科学研究所赵建华研究员课题组在高质量黑果枸杞基因组中取得新进展

Brassica vegetables—an undervalued nutritional goldmine
原文链接：https://doi.org/10.1093/hr/uhae302
微信导读：Hortic Res 综述 | 河北农业大学赵建军团队系统总结了芸薹属蔬菜的营养价值

Mapping the genomic landscape of *Prunus* spp. with PrunusMap
原文链接：https://doi.org/10.1093/hr/uhae301
利用 PrunusMap 绘制李属植物的基因组图谱

Genome-wide analysis of non-coding RNA reveals the role of a novel miR319c for tuber dormancy release process in potato
原文链接：https://doi.org/10.1093/hr/uhae303
微信导读：甘肃农业大学马铃薯生物技术创新团队在 miRNA 调控块茎休眠解除过程的研究中取得新进展

Ectopic biosynthesis of catechin of tea plant can be completed by co-expression of the three *CsANS*, *CsLAR*, and *CsANR* genes
原文链接：https://doi.org/10.1093/hr/uhae304
微信导读：南京农业大学庄静团队联合上海农科院姚泉洪团队通过三基因共表达实现茶树儿茶素异源高效合成

GenoBaits Cassava35K: high-resolution multi-SNP arrays for genetic analysis and molecular breeding using targeted sequencing and liquid chip technology
原文链接：https://doi.org/10.1093/hr/uhae305
微信导读：Hortic Res | 中国热科院开发“GenoBaits Cassava35K”木薯液相育种芯片

Genome-wide association for agro-morphological traits in a triploid banana population with large chromosome rearrangements
原文链接：https://doi.org/10.1093/hr/uhae307
染色体重排的香蕉群体中表型性状的全基因组关联分析

Phased T2T genome assemblies facilitate the mining of disease-resistance genes in *Vitis davidii*
原文链接：https://doi.org/10.1093/hr/uhae306
T2T 基因组组装有利于刺葡萄抗病基因的挖掘

Elucidation of the key flavonol biosynthetic pathway in golden *Camellia* and its application in genetic modification of tomato fruit metabolism
原文链接：https://doi.org/10.1093/hr/uhae308
微信导读：浙江大学联合中国林科院亚林所阐明金花茶花瓣金黄色素形成机制在番茄果实中实现代谢工程应用

Environmental and molecular regulation of flowering in cultivated strawberry (*Fragaria x ananassa*)
原文链接：https://doi.org/10.1093/hr/uhae309
栽培草莓开花环境和分子调控

Genetic and QTL analyses of sugar and acid content in sweet cherry (*Prunus avium* L.)
原文链接：https://doi.org/10.1093/hr/uhae310
甜樱桃糖酸含量的遗传和 QTL 分析

Virus-induced gene silencing simultaneously exploits 'attract and kill' traits in plants and insects to manage huanglongbing

原文链接：https://doi.org/10.1093/hr/uhae311

病毒诱导的基因沉默同时利用植物和昆虫的"诱杀"特性来治理黄龙病

Tonoplast sugar transporters as key drivers of sugar accumulation, a case study in sugarcane

原文链接：https://doi.org/10.1093/hr/uhae312

液泡膜糖转运蛋白作为甘蔗中糖积累的关键驱动因素

A full genome assembly reveals drought stress effects on gene expression and metabolite profiles in blackcurrant (*Ribes nigrum* L.)

原文链接：https://doi.org/10.1093/hr/uhae313

全基因组组装揭示了干旱胁迫对黑穗醋栗基因表达和代谢物谱的影响

Two novel alleles of the MYB transcription factor *BjA06.GL1* and *BjB02.GL1* control leaf trichomes and enhance resistance to aphids in *Brassica juncea*

原文链接：https://doi.org/10.1093/hr/uhae314

微信导读：Hortic Res | 信阳师范大学在芥菜叶片表皮毛抗蚜虫方面的研究取得新进展

Loss-of-function mutations in the fruit softening gene *POLYGALACTURONASE1* doubled fruit firmness in strawberry

原文链接：https://doi.org/10.1093/hr/uhae315

草莓果实软化基因 POLYGALACTURONASE1 的功能丧失突变使果实硬度加倍

Applied potassium negates osmotic stress impacts on plant physiological processes: a meta-analysis

原文链接：https://doi.org/10.1093/hr/uhae318

微信导读：南京农业大学沈其荣院士团队基于 Meta 分析揭示钾素提升植物抗渗透胁迫能力的生理机制

Integrative multi-environmental genomic prediction in apple

原文链接：https://doi.org/10.1093/hr/uhae319

苹果多环境基因组综合预测

Gibberellin promotes theanine synthesis by relieving the inhibition of CsWRKY71 on *CsTSI* in tea plant (*Camellia sinensis*)

原文链接：https://doi.org/10.1093/hr/uhae317

微信导读：Hortic Res | 湖南省农科院茶叶研究所在赤霉素调控茶氨酸合成机制中取得新进展

The cytological mechanism of the peach haploid producing triploid offspring

原文链接：https://doi.org/10.1093/hr/uhae316

桃单倍体产生三倍体后代的细胞学机制

VvARF19 represses VvLBD13-mediated cell wall degradation to delay softening of grape berries

原文链接：https://doi.org/10.1093/hr/uhae322

微信导读：Hortic Res | 河南农业大学冯建灿教授团队揭示 VvARF19-VvLBD13 模块响应生长素调控葡萄果实软化的机制

Combined genomic, transcriptomic, and metabolomic analyses provide insights into the fruit development of bottle gourd (*Lagenaria siceraria*)

原文链接：https://doi.org/10.1093/hr/uhae335

微信导读：Hortic Res | 北京市农林科学院联合广东省农业科学院蔬菜研究所在蒲瓜基因组组装和果实生长发育调控研究上取得重要进展

Tomato HAIRY MERISTEM4, expressed in the phloem, is required for proper shoot and fruit development

原文链接：https://doi.org/10.1093/hr/uhae325

番茄 HAIRY MERISTEM4 基因在韧皮部中表达，是芽和果实正常发育所必需的

The genus *Paris*: a fascinating resource for medicinal and botanical studies

原文链接：https://doi.org/10.1093/hr/uhae327

微信导读：Hortic Res 综述 | 成都中医药大学药用植物功能物质与生物合成研究团队综述重楼属植物的药学与植物学研究进展

Advancements and strategies of genetic improvement in cassava (*Manihot esculenta* Crantz): from conventional to genomic approaches

原文链接：https://doi.org/10.1093/hr/uhae341

微信导读：Hortic Res 综述 | 广西农业科学院综述了全球木薯遗传改良和分子生物学研究进展

A chromosome-scale genome assembly and epigenomic profiling reveal temperature-dependent histone methylation in iridoid biosynthesis regulation in *Scrophularia ningpoensis*

原文链接：https://doi.org/10.1093/hr/uhae328

基于高质量基因组及表观基因组学解析温度依赖性组蛋白甲基化调控玄参环烯醚萜生物合成的分子机制

Nutrient-dependent regulation of symbiotic nitrogen fixation in legumes

原文链接：https://doi.org/10.1093/hr/uhae321

微信导读：Hortic Res 综述 | 兰州大学刘建全教授团队综述营养依赖性调控豆科植物共生固氮的研究进展

The transcription factor ClWRKY61 interacts with ClLEA55 to enhance salt tolerance in watermelon

原文链接：https://doi.org/10.1093/hr/uhae320

转录因子 ClWRKY61 与 ClLEA55 相互作用增强西瓜耐盐性

A multiplex microfluidic device to detect miRNAs for diagnosis of plant growth status

原文链接：https://doi.org/10.1093/hr/uhae323

一种用于检测 miRNA 诊断植物生长状况的多路微流体装置

Transcription factors MdEIL1 and MdHY5 integrate ethylene and light signaling to promote chlorophyll degradation in mature apple peels

原文链接：https://doi.org/10.1093/hr/uhae324

微信导读：Hortic Res | 山东农业大学冯守千教授团队揭示乙烯和光通过 MdEIL1 和 MdHY5 促进成熟期苹果叶绿素降解的分子机制

SoNAC72-SoMYB44/SobHLH130 module contributes to flower color fading via regulating anthocyanin biosynthesis by directly binding to the *SoUFGT1* promoter in lilac (*Syringa oblata*)

原文链接：https://doi.org/10.1093/hr/uhae326

微信导读：北京农学院等揭示 SoNAC72-SoMYB44/SobHLH130 模块调控紫丁香花瓣褪色的分子机制

PIN1a-mediated auxin release from rootstock cotyledon contributes to healing in watermelon as revealed by seeds soaking-VIGS and cotyledon grafting

原文链接：https://doi.org/10.1093/hr/uhae329

通过浸种法-基因沉默系统和子叶嫁接技术发现 PIN1a 介导的砧木子叶源生长素释放有利于西瓜的嫁接愈合

Phytop: a tool for visualizing and recognizing signals of incomplete lineage sorting and hybridization using species trees output from ASTRAL

原文链接：https://doi.org/10.1093/hr/uhae330

Phytop：一种使用 ASTRAL 输出的物种树可视化和识别不完全谱系分类和杂交信号的工具

SlKNUCKLES regulates floral meristem activity and controls fruit size in *Solanum lycopersicum*

原文链接：https://doi.org/10.1093/hr/uhae331

微信导读：Hortic Res | 南京大学孙博团队揭示 SlKNU 调控番茄花分生组织活性与果实大小的分子机制

The *SEP* homologous gene *TEMARY* regulates inflorescence phenotypes in *Hydrangea Macrophylla*

原文链接：https://doi.org/10.1093/hr/uhae332

SEP 同源基因 TEMARY 调控大叶绣球花序表型

Ancient duplication and functional differentiation of phytochelatin synthases is conserved in plant genomes

原文链接：https://doi.org/10.1093/hr/uhae334

植物螯合素合酶保守的古老复制和功能分化

Characterization of shade tolerance gene network in soybean revealed by forward integrated reverse genetic studies

原文链接：https://doi.org/10.1093/hr/uhae333

微信导读：Hortic Res | 南京农业大学联合广西农业科学院经济作物研究所对大豆耐荫基因网络进行探讨

A chromosome-level reference genome facilitates the discovery of clubroot-resistant gene *Crr5* in Chinese cabbage

原文链接：https://doi.org/10.1093/hr/uhae338

微信导读：Hortic Res | 河南省农业科学院蔬菜研究所在大白菜抗根肿病基因挖掘与利用研究方面取得新进展

Telomere-to-telomere, gap-free genome of mung bean (*Vigna radiata*) provides insights into domestication under structural variation

原文链接：https://doi.org/10.1093/hr/uhae337

T2T 基因组为绿豆结构变异下的驯化提供了见解

Population genetics and origin of horticultural germplasm in *Clematis* via genotyping-by-sequencing

原文链接：https://doi.org/10.1093/hr/uhae336

基于测序的基因分型研究铁线莲群体遗传学和园艺种质起源

Mining the cucumber core collection: phenotypic and genetic characterization of morphological diversity for fruit quality characteristics

原文链接：https://doi.org/10.1093/hr/uhae340

黄瓜核心种质资源挖掘：果实品质特征形态多样性的表型和遗传表征

LoBLH6 interacts with LoMYB65 to regulate anther development through feedback regulation of gibberellin synthesis in lily

原文链接：https://doi.org/10.1093/hr/uhae339

LoBLH6 与 LoMYB65 互作反馈调节赤霉素合成调控百合花药发育

Deactivating mutations in the catalytic site of a companion serine carboxypeptidase-like acyltransferase enhance catechin galloylation in *Camellia* plants

原文链接：https://doi.org/10.1093/hr/uhae343

伴侣丝氨酸羧肽酶样酰基转移酶催化位点的失活突变增强山茶属植物儿茶素没食子酰化

Advances in the study of senescence mechanisms in the genus *Paeonia*

原文链接：https://doi.org/10.1093/hr/uhae344

微信导读：Hortic Res 综述 | 北京林业大学于晓南教授团队综述芍药属衰老机制的研究进展

The AREB transcription factor SaAREB6 promotes drought stress-induced santalol biosynthesis in sandalwood

原文链接：https://doi.org/10.1093/hr/uhae347

AREB 转录因子 SaAREB6 促进干旱胁迫诱导的檀香中檀香醇的生物合成

MaEIL4-MaMADS36-MaACS7 module transcriptionally regulates ethylene biosynthesis during banana fruit ripening

原文链接：https://doi.org/10.1093/hr/uhae345

微信导读：Hortic Res | 中国热带农业科学院热带生物技术研究所在香蕉果实采后成熟调控机制方面取得新进展

Metabolomic and transcriptomic analyses provide insight into the variation of floral scent and molecular regulation in different cultivars and flower development of *Curcuma alismatifolia*

原文链接：https://doi.org/10.1093/hr/uhae348

微信导读：佛山鲲鹏现代农业研究院揭示姜荷花花香多样性并在其花香变异的分子调控机制方面取得新进展

Comprehensive strategies for paclitaxel production: insights from plant cell culture, endophytic microorganisms, and synthetic biology

原文链接：https://doi.org/10.1093/hr/uhae346

微信导读：湖南农业大学熊兴耀课题组系统综述了紫杉醇在植物中的代谢调控网络与生物合成策略

A multi-channel CRISPR-based method for rapid, sensitive detection of four diseases of *Brassica rapa* in the field

原文链接：https://doi.org/10.1093/hr/uhae351

微信导读：北京市农林科学院白菜课题组开发基于 CRISPR/Cas12 的白菜主要病害现场检测新技术

Integrative analysis of genome-wide association studies of polyphenols in apple fruits identifies the MdDof2.4-*MdPAT10* module that promotes procyanidin accumulation

原文链接：https://doi.org/10.1093/hr/uhae349

苹果果实中多酚的全基因组关联研究综合分析发现了促进原花青素积累的 MdDof2.4-*MdPAT10* 模块

Molecular insights into TT2-type MYB regulators illuminate the complexity of floral flavonoids biosynthesis in *Freesia hybrida*

原文链接：https://doi.org/10.1093/hr/uhae352

微信导读：Hortic Res | 东北师范大学高翔团队揭示香雪兰花不同 MYB 转录因子介导的多种类黄酮物质时空特异性合成的复杂调控模型

Key genes in a “Galloylation-Degalloylation cycle” controlling the synthesis of hydrolyzable tannins in strawberry plants

原文链接：https://doi.org/10.1093/hr/uhae350

草莓中控制水解单宁生物合成的“没食子酰化-脱没食子酰化循环”途径

Aluminum-activated malate transporter family member CsALMT6 mediates fluoride resistance in tea plants (*Camellia sinensis*)

原文链接：https://doi.org/10.1093/hr/uhae353

铝激活苹果酸转运蛋白家族成员 CsALMT6 介导茶树的氟化物耐药性

Characterization of nitrate use efficiency in tea plant (*Camellia sinensis*) based on leaf chlorate sensitivity

原文链接：https://doi.org/10.1093/hr/uhae354

微信导读：Hortic Res | 中国农业科学院茶叶研究所揭示茶树硝酸盐转运效率表型鉴定研究进展

Two shikimate dehydrogenases play an essential role in the biosynthesis of galloylated catechins in tea plants

原文链接：https://doi.org/10.1093/hr/uhae356

两种莽草酸脱氢酶在茶树酰型儿茶素的合成中发挥重要作用

Domestication history and genetic changes for the newly evolved flower color in the ornamental plant *Lobularia maritima* (Brassicaceae)

原文链接：https://doi.org/10.1093/hr/uhae355

微信导读：Hortic Res | 四川大学胡泉军团队揭示十字花科观赏植物香雪球的驯化历史与花色起源

High-resolution genome assembly and population genetic study of the endangered maple *Acer pentaphyllum* (Sapindaceae): implications for conservation strategies

原文链接：https://doi.org/10.1093/hr/uhae357

微信导读：Hortic Res | 中科院成都生物所徐波团队解析四川特有极小种群物种五小叶槭的濒危机制

The long non-coding RNA MSTRG.32189-PcmiR399b-*PcUBC24* module regulates phosphate accumulation and disease resistance to *Botryosphaeria dothidea* in pear

原文链接：https://doi.org/10.1093/hr/uhae359

长链非编码 RNA MSTRG.32189-PcmiR399b-*PcUBC24* 模块调节梨中磷酸盐的积累和对葡萄溃疡病的抗病性

A virulent milRNA of *Fusarium oxysporum* f. sp. *cubense* impairs plant resistance by targeting banana AP2 transcription factor coding gene *MaPTI6L*

原文链接：https://doi.org/10.1093/hr/uhae361

微信导读：华南农业大学揭示香蕉枯萎病菌关键的致病 milRNA 抑制寄主防卫反应帮助病原菌侵染的分子机制

Regulation of storage organ formation by long-distance tuberigen signals in potato
原文链接：https://doi.org/10.1093/hr/uhae360
微信导读：Hortic Res | 上海交大刘路联合中国农科院蔬菜花卉所李广存团队综述马铃薯块茎形成的奥秘：StSP6A 信号的调控机制

Genome-wide association study of salicylic acid provides genetic insights for tea plant selective breeding
原文链接：https://doi.org/10.1093/hr/uhae362
水杨酸的全基因组关联研究为茶树选育提供了遗传学见解

Integrated analysis of metabolites and enzyme activities reveals the plasticity of central carbon metabolism in grape (*Vitis vinifera* cv. Cabernet Sauvignon) berries under carbon limitation
原文链接：https://doi.org/10.1093/hr/uhae363
代谢物和酶活组联合分析揭示了碳亏缺时葡萄果实碳代谢的可塑性

SmCSN5 is a synergist in the transcription factor SmMYB36-mediated biosynthesis of tanshinones and phenolic acids in *Salvia miltiorrhiza*
原文链接：https://doi.org/10.1093/hr/uhaf005
SmCSN5 是丹参中转录因子 SmMYB36 介导的丹参酮和酚酸生物合成的增效剂

Development of an efficient and heritable virus-induced genome editing system in *Solanum lycopersicum*
原文链接：https://doi.org/10.1093/hr/uhae364
在番茄中开发一种高效且可遗传的病毒诱导基因组编辑系统

A single-cell transcriptomic atlas reveals the cell differentiation trajectory and the response to virus invasion in swelling clove of garlic
原文链接：https://doi.org/10.1093/hr/uhae365
单细胞转录组图谱揭示了大蒜膨胀瓣中的细胞分化轨迹和对病毒入侵的反应

Flavonoids as key players in cold tolerance: molecular insights and applications in horticultural crops
原文链接：https://doi.org/10.1093/hr/uhae366
微信导读：Hortic Res 综述 | 宁夏大学徐伟荣教授团队揭示了黄酮类化合物在园艺作物耐寒性中的关键作用

VaWRKY65 contributes to cold tolerance through dual regulation of soluble sugar accumulation and reactive oxygen species scavenging in *Vitis amurensis*
原文链接：https://doi.org/10.1093/hr/uhae366
VaWRKY65 通过双重调节山葡萄的可溶性糖积累和活性氧清除来提高其耐寒性

Haplotype-resolved and chromosome-level reference genome assembly of *Diospyros deyangensis* provides insights into the evolution and juvenile growth of persimmon
原文链接：https://doi.org/10.1093/hr/uhaf001
德阳柿单倍型解析和参考基因组组装为柿子的进化和幼年生长提供了见解

BrWRKY8: a key regulatory factor involved in delaying postharvest leaf senescence of Pakchoi (*Brassica rapa* subsp. *chinensis*) by 2,4-epibrassinolide
原文链接：https://doi.org/10.1093/hr/uhaf004
BrWRKY8：2,4-表油菜素内酯延缓上海青采后叶片衰老的关键调控因子

Functional redundancy of transcription factors SlNOR and SlNOR-like1 is required for pollen development in tomato
原文链接：https://doi.org/10.1093/hr/uhaf003
转录因子 SlNOR 和 SlNOR-like1 的功能冗余是番茄花粉发育所必需的

AP2 transcription factor CsAIL6 negatively regulates citric acid accumulation in citrus fruits by interacting with a WD40 protein CsAN11
原文链接：https://doi.org/10.1093/hr/uhaf002
微信导读：Hortic Res | 华中农业大学揭示 AP2 转录因子 CsAIL6 负调控柑橘果实柠檬酸积累的分子机制

Association of the tomato co-chaperone gene *Sldnaj* harboring a promoter deletion with susceptibility to Tomato spotted wilt virus (TSWV)
原文链接：https://doi.org/10.1093/hr/uhaf019
微信导读：Hortic Res | 西北农林科技大学梁燕教授团队在番茄斑萎病抗病研究领域取得新进展

SlH3 and SlH4 promote multicellular trichome formation and elongation by upregulating *Woolly* in tomato
原文链接：https://doi.org/10.1093/hr/uhaf008
SlH3 和 SlH4 通过上调番茄中的 Woolly 来促进多细胞毛状体的形态发生

Gapless genome assembly and population genomics highlights diversity of mango germplasms
原文链接：https://doi.org/10.1093/hr/uhaf007
T2T 基因组和群体基因组学凸显了芒果种质的多样性

A premature termination codon mutation in the onion *AcCER2* gene is associated with both glossy leaves and thrip resistance
原文链接：https://doi.org/10.1093/hr/uhaf006
洋葱 AcCER2 基因的过早终止密码子突变与叶片光滑度和蓟马抗性有关

The 14-3-3 protein CaTFT7 interacts with transcription factor CaHDZ27 to positively regulate pepper immunity against *Ralstonia solanacearum*
原文链接：https://doi.org/10.1093/hr/uhaf010
14-3-3 蛋白 CaTFT7 与转录因子 CaHDZ27 相互作用，正向调节辣椒对青枯菌的免疫力

UGT74B5-mediated glucosylation at *ortho* hydroxyl groups of benzoic acid derivatives regulating plant immunity to anthracnose in tea plants
原文链接：https://doi.org/10.1093/hr/uhaf009
UGT74B5 介导的苯甲酸衍生物邻羟基糖基化调控茶树对炭疽病的免疫力

Chromosome-scale and haplotype-resolved genome assembly of *Populus trichocarpa*
原文链接：https://doi.org/10.1093/hr/uhaf012
毛果杨染色质级别单倍型基因组组装

Modulation of morphogenesis and metabolism by plant cell biomechanics: from model plants to traditional herbs
原文链接：https://doi.org/10.1093/hr/uhaf011
微信导读：Hortic Res | 中国中医科学院黄璐琦/袁媛综述道地药材形质合一科学内涵研究前瞻方向：细胞生物力学调控植物形态发生和代谢

PpERF17 alleviates peach fruit postharvest chilling injury under elevated CO_2 by activating jasmonic acid and γ-aminobutyric acid biosynthesis

原文链接：https://doi.org/10.1093/hr/uhaf014

微信导读：Hortic Res | 浙江大学果实品质生物学团队揭示高浓度 CO_2减轻桃果实采后冷害的转录调控机制

Investigating vesicle-mediated regulation of pollen tube growth through BFA inhibition and AS-ODN targeting of *TfRABA4D* in *Torenia fournieri*

原文链接：https://doi.org/10.1093/hr/uhaf018

通过 BFA 抑制和 AS-ODN 靶向夏堇中的 *TfRABA4D* 研究囊泡介导的花粉管生长调控

Genome-wide association studies to assess genetic factors controlling cucumber resistance to CABYV and CMV in crop fields and the attractiveness for their *Aphis gossypii* vector

原文链接：https://doi.org/10.1093/hr/uhaf016

全基因组关联研究评估调控黄瓜对农作物田间 CABYV 和 CMV 抗性的遗传因素及其对棉蚜的吸引力

PhWRKY30 activates salicylic acid biosynthesis to positively regulate antiviral defense response in petunia

原文链接：https://doi.org/10.1093/hr/uhaf013

微信导读：西北农林科技大学孙道阳团队揭示矮牵牛转录因子 PhWRKY30 调控水杨酸介导的抗病毒功能

Genomic origin of *Citrus reticulata* “Unshiu”

原文链接：https://doi.org/10.1093/hr/uhaf015

微信导读：Hortic Res | 华中农业大学联合多家单位发表温州蜜柑无间隙基因组并揭开其身世之谜

VviWRKY24 promotes *β*-damascenone biosynthesis by targeting *VviNCED1* to increase abscisic acid in grape berries

原文链接：https://doi.org/10.1093/hr/uhaf017

微信导读：Hortic Res | 中国农业大学葡萄与葡萄酒团队揭示酿酒葡萄重要香气组分 β-大马士酮合成调控新机制

Melatonin suppresses ethylene biosynthesis by inhibiting transcription factor MdREM10 during apple fruit ripening

原文链接：https://doi.org/10.1093/hr/uhaf020

微信导读：Hortic Res | 沈阳农业大学果树发育生物学团队揭示褪黑素通过抑制转录因子 MdREM10 抑制苹果果实成熟乙烯生物合成机制

Genome assembly of pomegranate highlights structural variations driving population differentiation and key loci underpinning cold adaption

原文链接：https://doi.org/10.1093/hr/uhaf022

微信导读：Hortic Res | 河南农大联合多家单位通过基因组学及群体遗传学研究揭示 PgNAC12-PgCBF1 调控石榴耐寒性新机制

PbDELLA-PbMYB56-PbCYP78A6 module regulates GA_{4+7}-induced pseudo-embryo development and parthenocarpy in pear (*Pyrus bretschneideri*)

原文链接：https://doi.org/10.1093/hr/uhaf021

微信导读：Hortic Res | 西北农林科技大学揭示赤霉素激活胚特异表达转录因子 PbMYB56 参与梨假胚发育和单性结实的形成机制

Karyotype variation patterns and phenotypic responses of hybrid progenies of triploid loquat (*Eriobotrya japonica*) provide new insight into aneuploid germplasm innovation

原文链接：https://doi.org/10.1093/hr/uhaf023

三倍体枇杷杂交后代的核型变异模式和表型响应为非整倍体种质创新提供了新的思路

RcSRR1 interferes with the RcCSN5B-mediated deneddylation of RcCRL4 to modulate RcCO proteolysis and prevent rose flowering under red light

原文链接：https://doi.org/10.1093/hr/uhaf025

微信导读：Hortic Res｜南京农业大学月季团队揭示红光调控月季开花的分子机制

Advanced technologies in plant factories: exploring current and future economic and environmental benefits in urban horticulture

原文链接： https://doi.org/10.1093/hr/uhaf024

微信导读：Hortic Res 综述 ｜ 中国农业科学院都市农业研究所杨其长团队综述植物工厂前沿技术研究进展

Genomic data uncover complex hybridization and evolutionary history of the bunchberry species complex (*Cornus* L., Cornaceae)

原文链接：https://doi.org/10.1093/hr/uhaf026

基因组揭示了山茱萸物种复合体的杂交和进化历史

Epigenetic modification brings new opportunities for gene capture by transposable elements in allopolyploid *Brassica napus*

原文链接：https://doi.org/10.1093/hr/uhaf028

微信导读：Hortic Res｜武汉大学揭示甘蓝型油菜转座子基因捕获的表观遗传修饰调控特征

Fermented chrysanthemum stem as a source of natural phenolic compounds to alleviate tomato bacterial wilt disease

原文链接：https://doi.org/10.1093/hr/uhaf027

微信导读：Hortic Res｜南京农业大学沈其荣院士团队发现基于植物异质性筛选防控番茄青枯病的发酵底物

Spatiotemporally transcriptomic analyses of floral buds reveal the high-resolution landscape of flower development and dormancy regulation in peach

原文链接：https://doi.org/10.1093/hr/uhaf029

时空转录组分析揭示了桃花发育和休眠调控的高分辨率景观

Telomere-to-telomere gap-free genome assembly provides genetic insight into the triterpenoid saponins biosynthesis in *Platycodon grandiflorus*

原文链接：https://doi.org/10.1093/hr/uhaf030

微信导读：Hortic Res｜安徽中医药大学联合中国中医科学院中药资源中心合作发表桔梗 T2T 基因组

Telomere-to-telomere genome assembly and 3D chromatin architecture of *Centella asiatica* insight into evolution and genetic basis of triterpenoid saponin biosynthesis

原文链接：https://doi.org/10.1093/hr/uhaf037

微信导读：Hortic Res｜积雪草 T2T 参考基因组

Structure and release function of fragrance glands
原文链接：https://doi.org/10.1093/hr/uhaf031
微信导读：Hortic Res 综述 | 北京林业大学于超教授团队综述园艺植物释香结构及功能

Genetic architecture of cherry leaf spot (*Blumeriella jaapii*) resistance in sour cherry (*Prunus cerasus* L.) uncovered by QTL analyses in a biparental population genotyped with the 6+9 K SNP array
原文链接：https://doi.org/10.1093/hr/uhaf035
通过 6+9K SNP 阵列进行基因分型的双亲群体 QTL 分析揭示了酸樱桃中樱桃叶斑病抗性的遗传结构

Wo interacts with SlTCP25 to regulate type I trichome branching in tomato
原文链接：https://doi.org/10.1093/hr/uhaf032
微信导读：Hortic Res | 华中农业大学番茄团队揭示表皮毛分支形成的调控机制

Citrus genomes: past, present and future
原文链接：https://doi.org/10.1093/hr/uhaf033
柑橘基因组：过去、现在和未来

The China National GeneBank Sequence Archive (CNSA) 2024 update
原文链接：https://doi.org/10.1093/hr/uhaf036
微信导读：Hortic Res 5 月封面文章 | 华大生命科学研究院开发国家生物数据归档系统（CNSA）助力文章发表和数据安全共享

Haplotype-resolved genome of *Agastache rugosa* (Huo Xiang) provides insight into monoterpenoid biosynthesis and gene cluster evolution
原文链接：https://doi.org/10.1093/hr/uhaf034
藿香基因组为单萜生物合成和基因簇进化提供了见解

Genomic insights into the domestication and genetic basis of yield in papaya
原文链接：https://doi.org/10.1093/hr/uhaf045
番木瓜驯化及产量遗传基础的基因组学研究

Litchi40K v1.0: a cost-effective, flexible, and versatile liquid SNP chip for genetic analysis and digitalization of germplasm resources in litchi
原文链接：https://doi.org/10.1093/hr/uhaf038
微信导读：Hortic Res | 中国热科院品资所在荔枝遗传育种研究方面取得新进展

Co-silencing of *PhENO1* and *PhPPT* alters anthocyanin production by reducing phosphoenolpyruvate supply in petunia flower
原文链接：https://doi.org/10.1093/hr/uhaf040
微信导读：Hortic Res | 华南农业大学余义勋团队揭示矮牵牛花青素上游底物 PEP 的来源路径

Floral scent emission of *Epiphyllum oxypetalum*: discovery of its cytosol-localized geraniol biosynthesis
原文链接：https://doi.org/10.1093/hr/uhaf039
微信导读：Hortic Res | 昙花为什么这么香？——四川大学孙群、李涛课题组联合揭示昙花花香的奥秘

Identification and functional characterization of BAHD acyltransferases associated with anthocyanin acylation in blueberry

原文链接：https://doi.org/10.1093/hr/uhaf041

蓝莓花青素酰化相关 BAHD 酰基转移酶的鉴定及功能特性

Temporal dynamics and tissue-specific variations of the blueberry phyllosphere mycobiome

原文链接：https://doi.org/10.1093/hr/uhaf042

蓝莓叶际真菌群落的时间动态和组织特异性变化

MADS-domain transcription factor AGAMOUS LIKE-9 participates in the gibberellin pathway to promote bud dormancy release of tree peony

原文链接：https://doi.org/10.1093/hr/uhaf043

MADS 结构转录因子 AGAMOUS LIKE-9 通过参与赤霉素途径促进牡丹芽休眠解除

Shaping the future of bananas: advancing genetic trait regulation and breeding in the postgenomics era

原文链接：https://doi.org/10.1093/hr/uhaf044

香蕉后基因组时代品质性状调控与育种取得新进展

BrRCO promotes leaf lobe formation by repressing *BrACP5* expression in *Brassica rapa*

原文链接：https://doi.org/10.1093/hr/uhaf084

BrRCO 通过抑制 BrACP5 的表达以调控白菜叶裂形成

UDP-glycosyltransferase PpUGT74F2 is involved in fruit immunity via modulating salicylic acid metabolism

原文链接：https://doi.org/10.1093/hr/uhaf049

微信导读：浙江大学果实品质生物学团队发现 UGT 通过糖基化水杨酸参与果实对病原菌的应答过程

Tea polyphenol mediated *CsMYB77* regulation of *CsPOD44* to promote tea plant (*Camellia sinensis*) root drought resistance

原文链接：https://doi.org/10.1093/hr/uhaf048

茶多酚介导 CsMYB77 调控 CsPOD44 的表达以促进茶树根系的耐旱性

A pectin lyase-like protein from *Verticillium dahliae* activates immunity in eggplant through translation regulation

原文链接：https://doi.org/10.1093/hr/uhaf050

大丽轮枝菌通过调控宿主蛋白质翻译影响茄子对黄萎病的抗性

Integration of digital phenotyping, GWAS, and transcriptomic analysis revealed a key gene for bud size in tea plant (*Camellia sinensis*)

原文链接：https://doi.org/10.1093/hr/uhaf051

微信导读：Hortic Res 6 月封面文章 | 中茶所茶树种质资源创新团队揭示 CsKNOX6 调控茶芽大小的分子机制

A chromosome-scale and haplotype-resolved genome assembly of tetraploid blackberry (*Rubus* L. subgenus *Rubus* Watson)

原文链接：https://doi.org/10.1093/hr/uhaf052

四倍体黑莓的染色体规模和单倍型解析基因组组装

Sonic-induced cellular vibrations unzip intertwined anther cone trichomes to trigger floral self-pollination and boost tomato fruit size

原文链接：https://doi.org/10.1093/hr/uhaf053

声波诱导的细胞振动解开相互缠绕的花药球毛状体，触发番茄花自花授粉以增大番茄果实

Carotene hydroxylase DcCYP97A3 affects carotenoid metabolic flow and taproot color by influencing the conversion of α-carotene to lutein in carrot

原文链接： https://doi.org/10.1093/hr/uhaf054

微信导读：Hortic Res | 南京农业大学熊爱生教授团队在胡萝卜类胡萝卜素代谢研究中取得新进展

The genome of *Vitis vinifera* cv. Mgaloblishvili reveals resistance and susceptibility factors to downy mildew in the *Rpv29* and *Rpv31* loci

原文链接：https://doi.org/10.1093/hr/uhaf055

基因组揭示了 *Rpv29* 和 *Rpv31* 基因座对葡萄霜霉病的抗性和易感性因素

Molecular mechanism of *SmMYB53* activates the expression of *SmCYP71D375*, thereby modulating tanshinone accumulation in *Salvia miltiorrhiza*

原文链接：https://doi.org/10.1093/hr/uhaf058

SmMYB53 激活 *SmCYP71D375* 表达进而调控丹参酮在丹参中积累的分子机制

Developmental landscape and asymmetric gene expression in the leaf vasculature of *Brassica rapa* revealed by single-cell transcriptome

原文链接：https://doi.org/10.1093/hr/uhaf060

微信导读：Hortic Res | 中国农科院蔬菜花卉所联合河南科技学院揭示了白菜叶脉发育的基因表达图谱和非对称基因表达特征

Ethylene promotes anthocyanin synthesis in ‘Viviana’ lily via the LvMYB5-LvERF113-LvMYB1 module

原文链接：https://doi.org/10.1093/hr/uhaf059

微信导读：沈阳农业大学揭示乙烯通过 LvMYB5-LvERF113-LvMYB1 模块正向调节百合花青素生物合成机制

Ethylene modulates the phenylpropanoid pathway by enhancing *VvMYB14* expression via the ERF5-melatonin-ERF104 pathway in grape seeds

原文链接：https://doi.org/10.1093/hr/uhaf061

乙烯通过增强葡萄籽中 ERF5-褪黑素-ERF104 通路中 *VvMYB14* 的表达来调节苯丙素通路

WRKY27-*SPDS1* module of Ichang papeda (*Citrus ichangensis*) promotes cold tolerance by modulating spermidine content

原文链接：https://doi.org/10.1093/hr/uhaf065

WRKY27-*SPDS1* 模块通过调节亚精胺含量来增强宜昌柑的耐寒性

Stable isotope labelling and gene expression analysis reveal dynamic nitrogen-supply mechanisms for rapid growth of Moso bamboo

原文链接：https://doi.org/10.1093/hr/uhaf062

稳定同位素标记和基因表达分析揭示毛竹快速生长的动态氮供应机制

Temporal fruit microbiome and immunity dynamics in postharvest apple (*Malus* x *domestica*)
原文链接：https://doi.org/10.1093/hr/uhaf063
苹果采后果实微生物群落与免疫动态

Three-dimensional genomic structure and aroma formation in the tea cultivar 'Qiancha 1'
原文链接：https://doi.org/10.1093/hr/uhaf064
茶树品种'黔茶 1 号'的三维基因组结构与香气形成

Expression of poplar sex-determining gene affects plant drought tolerance and the underlying molecular mechanism
原文链接：https://doi.org/10.1093/hr/uhaf066
杨树性别决定基因的表达影响植物的耐旱性及其潜在分子机制

The transcription factor MdWRKY9 is involved in jasmonic acid-mediated salt stress tolerance in apple
原文链接：https://doi.org/10.1093/hr/uhaf068
MdWRKY9 参与茉莉酸介导的苹果盐胁迫耐受性

Construction of the super pan-genome for the genus *Actinidia* reveals structural variations linked to phenotypic diversity
原文链接：https://doi.org/10.1093/hr/uhaf067
猕猴桃属超级泛基因组的构建揭示了与表型多样性相关的结构变异

Water lily pond: a multiomics database for water lilies
原文链接：https://doi.org/10.1093/hr/uhaf076
睡莲多组学数据库

Beyond glycolysis: multifunctional roles of glyceraldehyde-3-phosphate dehydrogenases in plants
原文链接：https://doi.org/10.1093/hr/uhaf070
超越糖酵解：甘油醛-3-磷酸脱氢酶在植物中的多功能作用

A divergent haplotype with a large deletion at the berry color locus causes a white-skinned phenotype in grapevine
原文链接：https://doi.org/10.1093/hr/uhaf069
浆果颜色基因座上存在大量缺失的不同单倍型，导致葡萄树出现白化

Characterization of a KANADI-like transcription factor that suppresses pear anthocyanin biosynthesis
原文链接：https://doi.org/10.1093/hr/uhaf071
微信导读：Hortic Res | 南京农业大学吴俊教授团队揭示红皮梨色泽芽变反馈调控新机制

Plant resistance inducer AMHA enhances antioxidant capacities to promote cold tolerance by regulating the upgrade of glutathione S-transferase in tea plant
原文链接：https://doi.org/10.1093/hr/uhaf073
植物抗性诱导剂 AMHA 通过调节茶树谷胱甘肽 S-转移酶来增强抗氧化能力以提高茶树的耐寒性

Root-specific expression of *CsNPF2.3* is involved in modulating fluoride accumulation in tea plant (*Camellia sinensis*)
原文链接：https://doi.org/10.1093/hr/uhaf072
CsNPF2.3 根特异性表达参与调节茶树中氟化物的积累

Haplotype-resolved genome assembly and genome-wide association study identifies the candidate gene closely related to sugar content and tuber yield in *Solanum tuberosum*

原文链接：https://doi.org/10.1093/hr/uhaf075

单倍型解析的基因组组装和全基因组关联研究确定了与马铃薯糖含量和块茎产量密切相关的候选基因

CYP98A monooxygenases: a key enzyme family in plant phenolic compound biosynthesis

原文链接：https://doi.org/10.1093/hr/uhaf074

CYP98A 单加氧酶：植物酚类化合物生物合成中的关键酶家族

Uncovering differences in cadmium accumulation capacity of different *Ipomoea aquatica* cultivars at the level of root cell types

原文链接：https://doi.org/10.1093/hr/uhaf077

在单细胞水平上揭示不同品种间雍菜根的镉积累能力

A novel bHLH transcription factor PlLHL1 targets *PlLAC15* to negatively regulate stem strength by inhibiting syringyl lignin deposition in herbaceous peony

原文链接：https://doi.org/10.1093/hr/uhaf080

bHLH 转录因子 PlLHL1 靶向 *PlLAC15*，通过抑制牡丹中的紫丁香基木质素沉积负向调节茎强度

The E3 ubiquitin ligase SlATL2 suppresses tomato immunity by promoting SlCSN5a degradation during *Pseudomonas syringae* pv. *tomato* DC3000 infection

原文链接：https://doi.org/10.1093/hr/uhaf078

微信导读：Hortic Res | 浙江大学农学院李大勇团队揭示 E3 泛素连接酶 SlATL2 负调控番茄免疫反应的分子机制

The telomere-to-telomere genome of Pucai (蒲菜) (*Typha angustifolia* L.): a distinctive semiaquatic vegetable with lignin and chlorophyll as quality characteristics

原文链接：https://doi.org/10.1093/hr/uhaf079

微信导读：Hortic Res | 南京农业大学园艺学院熊爱生教授课题组发表首个蒲菜 T2T 基因组

Advances in basic biology of alfalfa (*Medicago sativa L.*): a comprehensive overview

原文链接：https://doi.org/10.1093/hr/uhaf081

苜蓿基础生物学研究进展综述

The ZjMYB44-ZjPOD51 module enhances jujube defense response against phytoplasma by upregulating lignin biosynthesis

原文链接：https://doi.org/10.1093/hr/uhaf083

ZjMYB44-ZjPOD51 模块通过上调木质素生物合成增强枣对植原体的防御反应

Salicylic acid and jasmonic acid in plant immunity

原文链接：https://doi.org/10.1093/hr/uhaf082

水杨酸和茉莉酸在植物免疫中的作用

CsWRKY17 enhances Al accumulation by promoting pectin deesterification in tea plant

原文链接：https://doi.org/10.1093/hr/uhaf085

茶树 *CsWRKY17* 通过促进果胶去酯化作用增强对铝的累积

Genomic prediction and association analyses for breeding parthenocarpic blueberries
原文链接：https://doi.org/10.1093/hr/uhaf086
单性结实蓝莓育种的基因组预测与关联分析

Integrating whole-genome resequencing and machine learning to refine QTL analysis for fruit quality traits in peach
原文链接：https://doi.org/10.1093/hr/uhaf087
整合全基因组重测序和机器学习改进桃果实品质性状的 QTL 分析

Multi-environment GWAS uncovers markers associated to biotic stress response and genotype-by-environment interactions in stone fruit trees
原文链接：https://doi.org/10.1093/hr/uhaf088
GWAS 揭示了与核果类果树生物胁迫反应和基因型-环境相互作用相关的标记

A SlRBP1-*SlFBA7/SlGPIMT* module regulates fruit size in tomato
原文链接：https://doi.org/10.1093/hr/uhaf089
微信导读：Hortic Res 7 月封面文章 | 中国农业大学朱鸿亮团队揭示 RNA 结合蛋白调控番茄果实大小机制

A panomics-driven framework for the improvement of major food legume crops: advances, challenges, and future prospects
原文链接：https://doi.org/10.1093/hr/uhaf091
泛组学驱动的食用豆类改良：进展、挑战与展望

Unlocking the molecular secrets of *Paeonia* plants: advances in key gene mining and molecular breeding technology
原文链接：https://doi.org/10.1093/hr/uhaf090
揭开牡丹的分子秘密：关键基因挖掘和分子育种技术进展

Metabolite-mediated responses of phyllosphere microbiota to powdery mildew infection in resistant and susceptible black currant cultivars
原文链接：https://doi.org/10.1093/hr/uhaf092
微信导读：Hortic Res | 东北农业大学小浆果团队揭示抗病黑穗醋栗品种对白粉病侵染的多层次防御反应

VaMIEL1-mediated ubiquitination of VaMYB4a orchestrates cold tolerance through integrated transcriptional and oxidative stress pathways in grapevine
原文链接：https://doi.org/10.1093/hr/uhaf093
VaMIEL1 介导的 VaMYB4a 泛素化通过整合转录和氧化应激途径调控葡萄的耐寒性

In vivo maternal haploid induction in *Brassica juncea*
原文链接：https://doi.org/10.1093/hr/uhaf094
芥菜母本单倍体体内诱导

CmARF3-CmTCP7 module regulates flowering time in chrysanthemum (*Chrysanthemum morifolium*)
原文链接：https://doi.org/10.1093/hr/uhaf095
CmARF3-CmTCP7 模块调节菊花的开花时间

Genome-wide terpene gene clusters analysis in Euphorbiaceae
原文链接：https://doi.org/10.1093/hr/uhaf097
大戟科植物全基因组萜类基因簇分析

The SmWRKY32-SmbHLH65/SmbHLH85 regulatory module mediates tanshinone biosynthesis in *Salvia miltiorrhiza*
原文链接：https://doi.org/10.1093/hr/uhaf096
SmWRKY32-SmbHLH65/SmbHLH85 模块介导丹参中丹参酮的生物合成

A single-base mutation in promoter of *CsTPR* enhances the negative regulation on mechanical-related leaf drooping in tea plants
原文链接：https://doi.org/10.1093/hr/uhaf098
CsTPR 启动子中的单碱基突变增强了茶树机械相关叶下垂的负调控

Nitrogen addition influences tomato resistance to the destructive invasive pest *Tuta absoluta*
原文链接：https://doi.org/10.1093/hr/uhaf099
氮添加影响番茄对破坏性入侵害虫的抗性

CsPRMT5-mediated histone H4R3 dimethylation negatively regulates resistance to gray blight in tea plants (*Camellia sinensis* L.)
原文链接：https://doi.org/10.1093/hr/uhaf100
微信导读：Hortic Res | 安徽农业大学张照亮团队揭示组蛋白 CsPRMT5 通过介导 H4R3sme2 修饰调控茶树对轮斑病的抗性机制

Strigolactones enhance apple drought resistance via the MsABI5-MsSMXL1-MsNAC022 cascade
原文链接：https://doi.org/10.1093/hr/uhaf101
微信导读：Hortic Res | 中国农业大学李天红教授团队揭示独脚金内酯激活 MsABI5 调控苹果抗旱的分子机制

Ca^{2+} suppresses stone cell through PuNAC21–PuDof2.5 module that regulates lignin biosynthesis in pear fruits
原文链接：https://doi.org/10.1093/hr/uhaf102
微信导读：沈阳农业大学杜国栋团队解析钙素通过 PuNAC21-PuDof2.5 复合体调控梨果实石细胞形成的机制

Evergreen citrus trees exhibit distinct seasonal nitrogen remobilization patterns between mature leaves and bark
原文链接：https://doi.org/10.1093/hr/uhaf103
常绿柑橘树在成熟叶片和树皮之间表现出明显的季节性氮再动员模式

The dynamics of wild *Vitis* species in response to climate change facilitate the breeding of grapevine and its rootstocks with climate resilience
原文链接：https://doi.org/10.1093/hr/uhaf104
微信导读：Hortic Res | 野生葡萄资源助力葡萄产业“突围”未来困局——中国农业科学院周永锋团队揭示野生葡萄应对气候变化的利用潜力

Clubroot resistant in cruciferous crops: recent advances in genes and QTLs identification and utilization
原文链接：https://doi.org/10.1093/hr/uhaf105
十字花科作物根肿病抗性：基因和 QTL 识别与利用的最新进展

The nature of complex structural variations in tomatoes
原文链接：https://doi.org/10.1093/hr/uhaf107
微信导读：Hortic Res | 东北农业大学王傲雪团队揭示复杂结构变异在番茄基因组中的本质特征

Working smarter, not harder: silencing *LAZY1* in *Prunus domestica* causes outward, wandering branch orientations with commercial and ornamental applications
原文链接：https://doi.org/10.1093/hr/uhaf106
更聪明地工作，而不是更努力地工作：沉默李中 LAZY1 基因造成分枝角度变大，从而具有商业和观赏应用价值

Slow and steady wins the race: the negative regulators of ethylene biosynthesis in horticultural plants
原文链接：https://doi.org/10.1093/hr/uhaf108
慢而稳方致远：园艺作物乙烯生物合成的负调控因子

Integration of GWAS and transcriptome approaches for the identification of nitrogen-, phosphorus-, and potassium-responsive genes in tomato
原文链接：https://doi.org/10.1093/hr/uhaf112
整合 GWAS 和转录组方法鉴定番茄中氮、磷和钾响应基因

The circadian clock module LgPRR7–LgFKF1 negatively regulates flowering time in *Luculia gratissima*, a woody ornamental plant
原文链接：https://doi.org/10.1093/hr/uhaf110
生物钟模块 LgPRR7-LgFKF1 负调控木本观赏植物馥郁滇丁香的开花时间

CaSun1, a SUN family protein, governs the pathogenicity of *Colletotrichum camelliae* by recruiting CaAtg8 to promote mitophagy
原文链接：https://doi.org/10.1093/hr/uhaf121
SUN 家族蛋白 CaSun1 通过募集 CaAtg8 促进线粒体吞噬，从而控制山茶炭疽菌的致病性

AcABI5a integrates abscisic acid signaling to developmentally modulate fruit ascorbic acid biosynthesis in kiwifruit
原文链接：https://doi.org/10.1093/hr/uhaf111
AcABI5a 整合脱落酸信号调控猕猴桃果实抗坏血酸的生物合成

Linking the structure of vascular bundles and mineral element deposition reveals the hub role of nodes in bamboo
原文链接：https://doi.org/10.1093/hr/uhaf113
微信导读：Hortic Res | 浙江农林大学揭示了竹子竹节的维管束结构和功能

Evolutionary diversification of acyl-CoA synthetases underpins hydrophobic barrier formation across diverse tomato tissues and beyond
原文链接：https://doi.org/10.1093/hr/uhaf114
微信导读：Hortic Res | 浙江大学范鹏祥团队在番茄多组织疏水屏障形成机制研究中取得新进展

Phenotypic dynamics and temporal heritability of tomato architectural traits using an unmanned ground vehicle-based plant phenotyping system
原文链接：https://doi.org/10.1093/hr/uhaf109
微信导读：Hortic Res | 浙江大学岑海燕教授团队提出番茄株型动态与遗传力时序解析新方法

Optimization and application of genome prediction model in rapeseed: flowering time, yield components, and oil content as examples

原文链接：https://doi.org/10.1093/hr/uhaf115

油菜基因组预测模型的优化与应用：以开花时间、产量构成和含油量为例

High-quality *Lindera megaphylla* genome analysis provides insights into genome evolution and allows for the exploration of genes involved in terpenoid biosynthesis

原文链接：https://doi.org/10.1093/hr/uhaf116

高质量的黑壳楠基因组解析：探索基因组进化及萜类化合物生物合成基因的见解

The pan genome analysis of *WOX* gene family in apple and the two sides of *MdWUS-1* in promoting leaf-borne shoot

原文链接：https://doi.org/10.1093/hr/uhaf117

苹果 WOX 基因家族的全基因组分析以及 MdWUS-1 在促进叶芽生长方面的作用

Two DNA-binding One Zinc Finger transcription factors, MdCDOF3 and MdDOF3.6, accelerate leaf senescence by activating *cytokinin oxidase MdCKX7* in response to sorbitol signaling in apple

原文链接：https://doi.org/10.1093/hr/uhaf120

两种 DNA 结合单锌指转录因子 MdCDOF3 和 MdDOF3.6 通过激活细胞分裂素氧化酶 MdCKX7 加速苹果叶片衰老，以响应山梨醇信号

Scaffold protein RhCASPL1D1 stabilizes RhPIP2 aquaporins and promotes flower recovery after dehydration in rose (*Rosa hybrida*)

原文链接：https://doi.org/10.1093/hr/uhaf119

微信导读：中国农业大学张常青团队揭示月季支架蛋白稳定 RhPIP2s 促进花朵失水后复水恢复的分子机制

Studies on the mother flower carnation: past, present, and future

原文链接：https://doi.org/10.1093/hr/uhaf118

康乃馨的研究：过去、现在和未来

Developing BrapaCapture40K liquid chip for genetic research and breeding in *Brassica rapa*

原文链接：https://doi.org/10.1093/hr/uhaf123

开发用于芸苔属植物遗传研究和育种的 BrapaCapture40K 液体芯片

Simulation of dry matter partitioning in cucumber fruits: reflecting gas exchange characteristics based on leaf position and cropping type

原文链接：https://doi.org/10.1093/hr/uhaf124

黄瓜果实干物质分配的模拟：基于叶片位置和种植类型的气体交换特征

PagKNAT5a promotes plant growth by enhancing xylem cell elongation and secondary wall formation in poplar

原文链接：https://doi.org/10.1093/hr/uhaf125

PagKNAT5a 通过增强杨树木质部细胞伸长和次生壁形成促进植物生长

Telomere to telomere flax (*Linum usitatissimum* L.) genome assembly unlocks insights beyond fatty acid metabolism pathways

原文链接：https://doi.org/10.1093/hr/uhaf127

亚麻 T2T 基因组组装揭示了脂肪酸代谢途径之外的见解

Two aquaporins, LcPIP1;4 and LcPIP1;4a, cooperatively regulate the onset of dormancy of the terminal buds in evergreen perennial litchi (*Litchi chinensis* Sonn.)
原文链接：https://doi.org/10.1093/hr/uhaf122
两种水通道蛋白 LcPIP1;4 和 LcPIP1;4a 共同调节荔枝顶芽休眠

Blueberry ripening mechanism: a systematic review of physiological and molecular evidence
原文链接：https://doi.org/10.1093/hr/uhaf126
蓝莓成熟机制：生理和分子证据的系统回顾

Deep learning empowers genomic selection of pest-resistant grapevine
原文链接：https://doi.org/10.1093/hr/uhaf128
微信导读：AI 赋能葡萄抗虫育种——中国热带农业科学院周永锋团队建立葡萄抗虫基因组选择育种模型

Overexpression of housekeeping gene *FveIPT2* enhances anthocyanin and terpenoid accumulation in strawberry fruits with minimal impact on plant growth and development
原文链接：https://doi.org/10.1093/hr/uhaf130
FveIPT2 的过表达增强草莓果实中花青素和萜类化合物的积累

QTL detection and candidate gene identification for prostrate growth habit in interspecific crosses of wild chrysanthemum (*Chrysanthemum yantaiense* × *C. indicum*)
原文链接：https://doi.org/10.1093/hr/uhaf129
野菊花种间杂交匍匐生长习性 QTL 检测及候选基因鉴定

Opposing regulation of L-theanine biosynthesis by CsWRKY65 and CsWRKY69 in tea plant roots
原文链接：https://doi.org/10.1093/hr/uhaf131
CsWRKY65 和 CsWRKY69 对茶树根系 L-茶氨酸生物合成的反向调控

Diversified alternaria pathogenicity alters plant–soil feedbacks through leaf–root-microbiome dynamics in agroforestry systems
原文链接：https://doi.org/10.1093/hr/uhaf137
链格孢菌致病性多样性通过农林系统中的叶-根-微生物组动态改变植物-土壤反馈

Identification of 2,3-oxidosqualene cyclase gene in *Eleutherococcus senticosus* and its regulatory mechanism in saponin synthesis
原文链接：https://doi.org/10.1093/hr/uhaf133
刺五加 2,3-氧化角鲨烯环化酶基因的鉴定及其对皂苷合成的调控机制

The GAs–RhMYB70 feedback loop fine-tunes cell expansion and petal size by modulating cellulose content in rose
原文链接：https://doi.org/10.1093/hr/uhaf134
GAs-RhMYB70 反馈回路通过调节玫瑰中的纤维素含量微调细胞扩增和花瓣大小

Recent advances in biosynthesis and regulation of strawberry anthocyanins
原文链接：https://doi.org/10.1093/hr/uhaf135
草莓花青素生物合成及调控研究进展

Deciphering octoploid strawberry evolution with serial LTR similarity matrices for subgenome partition
原文链接：https://doi.org/10.1093/hr/uhaf132
利用序列 LTR 相似性矩阵进行亚基因组划分，解读八倍体草莓进化

BrHDA6 mediates nonhistone deacetylation of BrSOT12 to positively regulate downy mildew resistance in *Brassica rapa*
原文链接：https://doi.org/10.1093/hr/uhaf136
BrHDA6 介导 BrSOT12 的非组蛋白去乙酰化，正向调节油菜霜霉病抗性

CmFUL1 was potentially involved in fruit elongation in melon
原文链接：https://doi.org/10.1093/hr/uhaf138
CmFUL1 可能参与甜瓜果实伸长

The PlMYB73–PlMYB70–PlMYB108 complex regulates *PlTPS1* to promote geraniol biosynthesis in *Paeonia lactiflora*
原文链接：https://doi.org/10.1093/hr/uhaf141
PlMYB73-PlMYB70-PlMYB108 复合物调节 PlTPS1 促进芍药中香叶醇的生物合成

Genetic architecture of key traits for *Prunus* crop improvement: an overview of 25 years of curated genomic and breeding data
原文链接：https://doi.org/10.1093/hr/uhaf142
李属作物改良关键性状的遗传结构：25 年基因组和育种数据概述

Deciphering the near-complete genome and conducting pan-genome analysis of *Brassica oleracea*
原文链接：https://doi.org/10.1093/hr/uhaf189
甘蓝近全基因组破译及全基因组分析

CHROMOMETHYLASE3 governs male fertility to affect seed production in tomato
原文链接：https://doi.org/10.1093/hr/uhaf143
微信导读：Hortic Res | 云南农业大学杨建立课题组联合浙江大学和杭州师范大学等单位揭示 CMT3 调控番茄雄性育性的表观遗传机制

Genomic insights into deleterious mutations and their impact on agronomic traits during pear domestication
原文链接：https://doi.org/10.1093/hr/uhaf140
微信导读：Hortic Res | 山东农大联合南京农大揭示梨驯化过程中有害突变的积累模式及性状影响

Chromosome-level reference genome of *Vitis piasezkii* var. pagnucii provides insights into a new locus of resistance to grapevine powdery mildew
原文链接：https://doi.org/10.1093/hr/uhaf146
微信导读：Hortic Res | 西北农林科技大学文颖强团队发布中国野生少毛复叶葡萄基因组鉴定白粉病抗性新位点

GWAS identifies a molecular marker cluster associated with monoterpenoids in grapes
原文链接：https://doi.org/10.1093/hr/uhaf144
微信导读：Hortic Res | 中国农业大学联合北京市农林科学院锁定葡萄果实玫瑰香分子标记簇

The StUBC18-StPUB40 pair negatively regulate drought stress tolerance and influences tuber yield in potato
原文链接：https://doi.org/10.1093/hr/uhaf145
微信导读：Hortic Res | 甘肃农业大学马铃薯生物技术创新团队在马铃薯耐旱性调控机制研究中取得新进展

Melatonin in plant pathogen defense: a review of its role in horticultural crops
原文链接：https://doi.org/10.1093/hr/uhaf150
褪黑素在植物病原防御中的作用

Functional analysis of a UDP-glucosyltransferase gene contributing to biosynthesis of the flavonol triglycoside in tea plants
原文链接：https://doi.org/10.1093/hr/uhaf149
微信导读：Hortic Res | 浙江大学解析茶树槲皮素葡萄糖基鼠李糖基葡萄糖苷合成相关基因

Free fatty acid biosynthesis precursors are involved in pollen–stigma interactions in *Brassica*
原文链接：https://doi.org/10.1093/hr/uhaf147
芸薹属植物花粉-柱头相互作用中涉及游离脂肪酸生物合成前体

OVATE family gene *CmOFP6-19b* negatively regulates fruit size in melon (*Cucumis melo* L.)
原文链接：https://doi.org/10.1093/hr/uhaf148
OVATE 家族基因 *CmOFP6-19b* 负调控甜瓜果实大小

Single-cell transcriptomic analyses reveal cellular and molecular patterns of rose petal responses to gray mold infection
原文链接：https://doi.org/10.1093/hr/uhaf152
单细胞转录组分析揭示了玫瑰花瓣对灰霉病感染反应的细胞和分子模式

The BnSEP-BnTFL1s module regulates inflorescence architecture based on light duration in *Brassica napus* L
原文链接：https://doi.org/10.1093/hr/uhaf151
微信导读：Hortic Res | 青海大学杜德志团队揭示了甘蓝型油菜有限花序形成的分子机制

Substantial enhancement of *Agrobacterium*-mediated transgene-free genome editing via short-term chemical selection using citrus as a model plant
原文链接：https://doi.org/10.1093/hr/uhaf153
微信导读：Hortic Res 9 月封面文章 | 美国康涅狄格大学优化农杆菌瞬时表达体系，实现一步到位非转基因基因编辑效率显著提升

A nearly complete haplotype-phased genome assembly of nerve plant (*Fittonia albivenis*) provides insights into leaf color evolution
原文链接：https://doi.org/10.1093/hr/uhaf154
微信导读：Hortic Res | 济南大学生物学院完成网纹草近完整参考基因组的构建并为叶色演化提供了新视角

OfWRKY33 binds to the promoter of key linalool synthase gene *OfTPS7* to stimulate linalool synthesis in *Osmanthus fragrans* flowers
原文链接：https://doi.org/10.1093/hr/uhaf155
OfWRKY33 通过与芳樟醇合成酶关键基因 *OfTPS7* 启动子结合，刺激桂花中芳樟醇的合成

CrWRKY57 and CrABF3 cooperatively activate *CrCYCD6;1* to modulate drought tolerance and root development
原文链接：https://doi.org/10.1093/hr/uhaf158
CrWRKY57 和 CrABF3 协同激活 *CrCYCD6;1* 调节抗旱性和根系发育

Uncovering the genetic basis for enhanced mushroom flavor in *Quercus fabri* through genome sequencing and metabolic profiling
原文链接：https://doi.org/10.1093/hr/uhaf156
通过基因组测序和代谢谱分析揭示栎蘑菇风味增强的遗传基础

A NAC family gene *PmNAC32* associated with photoperiod promotes flower induction in *Prunus mume*
原文链接：https://doi.org/10.1093/hr/uhaf157
微信导读：南京农业大学高志红教授团队发现光周期相关的 NAC 家族基因 PmNAC32 促进梅树花芽分化

Essential gene dynamics across distinct growth conditions in *Xanthomonas citri*
原文链接：https://doi.org/10.1093/hr/uhaf160
柑橘溃疡病菌在不同生长条件下必需基因的动态变化

Untargeted metabolomic genome-wide association study reveals genetic and biochemical insights into polyphenols of apple fruit
原文链接：https://doi.org/10.1093/hr/uhaf159
非靶向代谢组学全基因组关联研究揭示了苹果果实多酚的遗传和生化见解

Genome-wide association studies revealed partial genetic links between early vigour and precocity in macadamia
原文链接：https://doi.org/10.1093/hr/uhaf162
全基因组关联研究揭示了澳洲坚果早期活力和早熟之间的遗传联系

StMYB113b is a key regulator of red skin pigmentation in potato tubers
原文链接：https://doi.org/10.1093/hr/uhaf164
StMYB113b 是马铃薯块茎红皮色素沉着的关键调节因子

Mango pangenome reveals dramatic impacts of reference bias on population genomic analyses
原文链接：https://doi.org/10.1093/hr/uhaf166
微信导读：Hortic Res | 热科院品资所联合广西师范大学揭示参考基因组选择对群体基因组分析的巨大影响

Resequencing and phenotyping of the first highly inbred eggplant multiparent population reveal *SmLBD13* as a key gene associated with root morphology
原文链接：https://doi.org/10.1093/hr/uhaf167
高度近交茄子多熟群体的重测序和表型分析表明 *SmLBD13* 是与根形态相关的关键基因

Genomic selection for growth and wood properties in multi-generation hybrid populations of *Populus deltoides*
原文链接：https://doi.org/10.1093/hr/uhaf165
美洲黑杨多世代杂交群体生长、材性基因组选择研究

Sorbitol promotes the graft healing process in pears
原文链接：https://doi.org/10.1093/hr/uhaf168
山梨醇促进梨树嫁接愈合

The role of *Fragaria vesca* homolog of a (Z)-3:(E)-2-hexenal isomerase in the development of green-leafy fruit aroma
原文链接：https://doi.org/10.1093/hr/uhaf163
草莓 a（Z）-3:（E）-2-己烯醛异构酶同源物在果实香气形成中的作用

Integrative linkage mapping, GWAS, and RNA-Seq analysis unravel the genetic architecture and candidate genes for drought tolerance in *Chrysanthemum* interspecific F_1 progeny
原文链接：https://doi.org/10.1093/hr/uhaf169
微信导读：南京农业大学菊花遗传与种质创新团队在菊花近缘种抗旱性遗传和候选基因挖掘方面取得新进展

Functional characterization of key enzymes involved in the biosynthesis of distinctive flavonoids and stilbenoids in *Morus notabilis*
原文链接：https://doi.org/10.1093/hr/uhaf171
桑中参与独特黄酮和二苯乙烯类化合物生物合成关键酶的功能特征

The MaASR3–MaHDT1 module modulates high-temperature-inhibited chlorophyll breakdown in banana fruit by suppressing the E3 ligase MaNIP1
原文链接：https://doi.org/10.1093/hr/uhaf172
MaASR3-MaHDT1 模块通过抑制 E3 连接酶 MaNIP1 调节香蕉果实中高温抑制的叶绿素分解

SlALKBH9B is involved in drought-induced flower drop by regulating ethylene production
原文链接：https://doi.org/10.1093/hr/uhaf173
微信导读：Hortic Res | 沈阳农业大学李天来/许涛团队揭示去甲基化酶 SlALKBH9B 通过表观遗传调控干旱胁迫下番茄落花的新机制

The *CsMYB36-CsSWEET17* module mediates the calcium-induced sucrose accumulation in citrus
原文链接：https://doi.org/10.1093/hr/uhaf175
CsMYB36-CsSWEET17 模块介导钙诱导的柑橘蔗糖积累

Warming temperature reduces the risk of pre-harvest freezing injury and modifies variety suitability in the main winegrape-growing regions of China
原文链接：https://doi.org/10.1093/hr/uhaf176
温暖的温度降低了收获前冻害的风险，并改变了中国主要酿酒葡萄种植区的品种适宜性

Chromosome-specific oligo-painting provides insights into the cytogenetic basis of karyotypic stasis in paleo-allotetraploid *Cucurbita*
原文链接：https://doi.org/10.1093/hr/uhaf179
染色体特异性寡染为古异源四倍体葫芦科植物核型停滞的细胞遗传学基础提供了见解

Decoding steroid-derived metabolite engineering in *Solanum*
原文链接：https://doi.org/10.1093/hr/uhaf178
茄属植物类固醇衍生代谢产物工程的解码

Multi-omics analyses reveal the effects of layerage and grafting on flavonoid synthesis and accumulation in *Citrus reticulata* ‘Chachi’
原文链接：https://doi.org/10.1093/hr/uhaf177
微信导读：Hortic Res | 华南农业大学吴鸿团队揭示嫁接影响茶枝柑中橙皮苷合成的机制

CsCOI1 regulates plant growth and defense in citrus
原文链接：https://doi.org/10.1093/hr/uhaf174
CsCOI1 调节柑橘的植物生长和防御

Volatile organic compounds in *Solanum lycopersicum* leaves and their roles in plant protection
原文链接：https://doi.org/10.1093/hr/uhaf181
番茄叶片中的挥发性有机化合物及其在植物保护中的作用

Origin and evolution of signaling pathways responsible for ascorbic acid synthesis and catabolism during plant terrestrialization
原文链接：https://doi.org/10.1093/hr/uhaf184
微信导读：Hortic Res | 南京农业大学熊爱生课题组解析植物抗坏血酸合成及代谢通路演化模式

First interspecific multi-parent advanced generation inter-cross (MAGIC) population in *Capsicum* peppers: development, phenotypic evaluation, genomic analysis, and prospects
原文链接：https://doi.org/10.1093/hr/uhaf182
辣椒第一个种间双亲高级世代间杂交群体：发育、表型评价、基因组分析和前景

Telomere-to-telomere genome assembly of yellow-fruited allotetraploid American ginseng (*Panax quinquefolius* L.) provides insights into flavonoid biosynthesis
原文链接：https://doi.org/10.1093/hr/uhaf198
微信导读：Hortic Res | 吉林农业大学联合南京农业大学发表首个西洋参 T2T 基因组

Combination of 3D chromatin architecture and omics analysis provides insight into anthocyanin regulation in *Actinidia arguta*
原文链接：https://doi.org/10.1093/hr/uhaf183
微信导读：中国农业科学院郑州果树研究所齐秀娟团队构建软枣猕猴桃三维基因组并揭示果皮色泽形成机制

Harnessing apomixis: natural mechanisms and synthetic innovations for advancing crop and forage breeding
原文链接：https://doi.org/10.1093/hr/uhaf186
利用无融合生殖：推进作物与牧草育种的天然机制与合成创新

Cysteine-rich receptor-like secreted protein 1 promotes intercellular infection and enhances nodulation in *Aeschynomene indica*
原文链接：https://doi.org/10.1093/hr/uhaf185
微信导读：Hortic Res | 浙江大学梁岩团队发现固氮菌胞间侵染机制的调控因子 CRRSP1

Walnut genome editing: an optimized CRISPR/Cas9 platform with superior genotypes and endogenous promoters
原文链接：https://doi.org/10.1093/hr/uhaf187
核桃基因组编辑：一个具有优良基因型和内源性启动子的优化 CRISPR/Cas9 平台

AraceaeDB: a functional genomics database of the Araceae family with a focus on konjac glucomannan biosynthesis in *Amorphophallus konjac* corms
原文链接：https://doi.org/10.1093/hr/uhaf188
微信导读：西南科技大学构建首个天南星科功能基因组数据库并阐明魔芋块茎葡甘聚糖生物合成机制

H_2S promotes flowering in *Brassica rapa* ssp. pekinensis by persulfidation of the splicing factor BraATO2
原文链接：https://doi.org/10.1093/hr/uhaf190
H_2S 通过调控剪接因子 BraATO2 的过硫化作用促进油菜开花

Systematic identification of terpene synthases from sacred lotus (*Nelumbo nucifera*) and heterologous biosynthesis of the insecticidal and antimicrobial compound γ-eudesmol
原文链接：https://doi.org/10.1093/hr/uhaf191
微信导读：Hortic Res | 武汉大学鲁丽课题组在莲中 γ-桉叶醇生物合成研究中取得进展

A transposon insertion in *CmKNAT2-like2* disrupts mottled rind formation in melon (*Cucumis melo* L.)
原文链接：https://doi.org/10.1093/hr/uhaf195
微信导读：Hortic Res | 青岛农业大学与山东省农科院蔬菜所联合克隆甜瓜果皮覆纹形成关键基因 Mt2

Precise pigment biosynthesis for flower color design in *Brassica napus*
原文链接：https://doi.org/10.1093/hr/uhaf193
微信导读：Hortic Res | 中国农科院油料所王汉中院士团队精准调控色素合成实现油菜花色定制

SlPPR138-mediated RNA editing of *rpoC1* is essential for chloroplast development in tomato
原文链接：https://doi.org/10.1093/hr/uhaf194
微信导读：浙江大学卢钢团队发现 SlPPR138 通过调控叶绿体 RNA 编辑介导番茄叶色可逆黄化的分子机制

Analysis of telomere-to-telomere genome of red carrot TXH4 elucidates the role of DcLCYE and DcLCYB1 in lycopene accumulation in carrot
原文链接：https://doi.org/10.1093/hr/uhaf192
微信导读：11 月封面文章 | 北京市农林科学院梁毅研究员团队揭示红色胡萝卜中番茄红素积累的遗传机制

SSA-mediated selection marker gene activation enhances relative gene targeting efficiency in plants
原文链接：https://doi.org/10.1093/hr/uhaf196
SSA 介导的选择标记基因激活提高了植物中相对基因靶向效率

FveTRM5 plays a critical role in regulating fruit shape in woodland strawberry
原文链接：https://doi.org/10.1093/hr/uhaf199
微信导读：Hortic Res | 华中农业大学康春颖团队揭示草莓 FveTRM5 在果实形状调控中的重要作用

Deciphering the underlying genetics of galling resistance to the blueberry stem gall wasp in northern highbush blueberry
原文链接：https://doi.org/10.1093/hr/uhaf197
解析北方高丛蓝莓抗茎瘿蜂形成的潜在遗传机制

MdMAPK6-mediated phosphorylation of MdWRKY9 regulates apple fruit ripening through interaction with MdERF5L
原文链接：https://doi.org/10.1093/hr/uhaf200
微信导读：Hortic Res | 西北农林科技大学联合山东农业大学揭示苹果果实成熟关键调控网络

Evolutionary dynamics and functional divergence of the UDP-glycosyltransferases gene family revealed by a pangenome-wide analysis in tomato
原文链接：https://doi.org/10.1093/hr/uhaf204
番茄泛基因组分析揭示 UDP-糖基转移酶基因家族的进化动态和功能分化

Building a directed evolution–genome editing pipeline for metabolic traits in specialty crop breeding
原文链接：https://doi.org/10.1093/hr/uhaf203
构建针对特种作物育种中代谢性状的定向进化-基因组编辑流程

Phenotypic, genetic, and population structure analysis offer insights into the genetic architecture of root shape in *Beta vulgaris*
原文链接：https://doi.org/10.1093/hr/uhaf201
表型、遗传和群体结构分析为了解甜菜根形状的遗传结构提供了见解

Integrated single-cell transcriptomics and spatial metabolomics unveil cellular differentiation and ginsenosides biosynthesis in *Panax* root tips
原文链接：https://doi.org/10.1093/hr/uhaf202
整合单细胞转录组学和空间代谢组学揭示人参根尖细胞分化和人参皂苷生物合成

Mastering the balance: BAK1's dual roles in steering plant growth and immunity
原文链接：https://doi.org/10.1093/hr/uhaf206
微信导读：Hortic Res 综述 | BAK1：调控植物生长与免疫的核心决策蛋白

Genome-wide expression atlas of tomato flower buds revealed the *SllncERF162-SlERF162* module associated with basal thermotolerance
原文链接：https://doi.org/10.1093/hr/uhaf205
微信导读：Hortic Res | 中国农业大学林涛团队揭示 SllncERF162-SlERF162 模块调控番茄花粉耐热性机制

The evolution of the aquaporin gene family and drought tolerance mechanisms in green plants
原文链接：https://doi.org/10.1093/hr/uhaf209
绿色植物水通道蛋白（AQP）基因家族进化与耐旱性演化机制分析

RAGA: a reference-assisted genome assembly tool for efficient population-scale assembly
原文链接：https://doi.org/10.1093/hr/uhaf207
微信导读：广西大学陈玲玲团队联合西南大学宋佳明团队开发适用于群体规模组装的参考基因组辅助组装工具

Large-scale analysis of MYB genes in Cucurbitaceae identifies a novel gene regulating plant height
原文链接：https://doi.org/10.1093/hr/uhaf210
对葫芦科植物 MYB 基因的大规模分析发现了一个新的调控植物高度的基因

Identification and characterization of *Bol.TNL.2*, a key clubroot resistance gene from cabbage, in *Arabidopsis* and *Brassica napus* L.
原文链接：https://doi.org/10.1093/hr/uhaf208
在拟南芥和甘蓝型油菜中鉴定和表征了甘蓝根肿病关键抗性基因 *Bol.TNL.2*

Heterometric expression of an LBD gene via LBD-TCP assembly regulates floral organ size and fruit weight in Physalis
原文链接：https://doi.org/10.1093/hr/uhaf211
LBD 基因通过 LBD-TCP 组装进行异位表达，从而调控酸浆的花器官大小和果实重量

CsUGT89A2 enhances tea plant resistance to *Toxoptera aurantia* by mediating flavonoid glycosides biosynthesis
原文链接：https://doi.org/10.1093/hr/uhaf212
CsUGT89A2 通过调控黄酮苷的生物合成增强茶树对金斑蜈的抗性

Epigenetic crop improvement: Integrating ENCODE strategies into horticultural breeding
原文链接：https://doi.org/10.1093/hr/uhaf213
微信导读：扬州大学陈学好团队综述植物表观遗传育种新策略：ENCODE 理念引领园艺作物精准改良

H_2S modulates *BrSDH1-1* alternative splicing to induce stomatal closure in Chinese cabbage
原文链接：https://doi.org/10.1093/hr/uhaf214
H_2S 通过调节 *BrSDH1-1* 基因的选择性剪接诱导大白菜气孔关闭

A synthetic microbial community derived from healthy apple rhizosphere alleviates apple replant disease
原文链接：https://doi.org/10.1093/hr/uhaf217
微信导读：Hortic Res | 河南农业大学郑先波团队通过构建合成微生物群落有效缓解苹果再植病

Decoding hybrid origins and genetic architecture of leaf traits variation in *camellia* via high-density 21K SNP array for genomic prediction
原文链接：https://doi.org/10.1093/hr/uhaf221
微信导读：Hortic Res | 中国林科院亚林所殷恒福团队开发山茶属 Camellia21K 高密度 SNP 芯片助力遗传育种

AcJAZ2L2 confers resistance to kiwifruit bacterial canker *via* regulation of JA signaling and stomatal immunity
原文链接：https://doi.org/10.1093/hr/uhaf215
AcJAZ2L2 通过调节茉莉酸信号传导和气孔免疫赋予猕猴桃对细菌性溃疡病的抗性

Cytokinin response factor LcARR11 promotes floral bud physiological differentiation by activating *LcIPT3* and *LcFT1* in litchi
原文链接：https://doi.org/10.1093/hr/uhaf218
微信导读：华南农业大学李建国团队创新研发荔枝隔年交替结果新技术并解析荔枝成花调控的分子机制

Single-nucleus RNA-sequencing reveals the cellular programs driving nematode-induced giant cell formation in tomato
原文链接：https://doi.org/10.1093/hr/uhaf223
单核 RNA 测序揭示番茄中根结线虫诱导巨型细胞形成的细胞程序

EIN3-binding F-box protein SlEBF3 modulates resistance against *Botrytis cinerea* and carotenoid biosynthesis by degradation of BBX20 in tomato
原文链接：https://doi.org/10.1093/hr/uhaf219
微信导读：Hortic Res | 四川大学刘明春团队解析调控番茄果实灰霉抗性和类胡萝卜素合成的分子机制

Single-cell transcriptome atlas unveils transcriptional regulation networks of banana root tips in response to *Fusarium oxysporum* infection
原文链接：https://doi.org/10.1093/hr/uhaf220
单细胞转录组图谱揭示香蕉根尖响应枯萎病侵染的转录调控网络

High-quality genome assembly of *Impatiens noli-tangere* reveals key insights into α-linolenic acid biosynthesis and metabolic volatiles
原文链接：https://doi.org/10.1093/hr/uhaf216
微信导读：东北林业大学联合吉林农业大学发表水金凤高质量基因组助力功能脂质与植物源抗菌资源开发

A near-complete genome assembly of cucumber line 6457 and identification of candidate gene controlling pedicel length
原文链接：https://doi.org/10.1093/hr/uhaf222
微信导读：Hortic Res | 河北科技师范学院联合华北理工大学、中国农业大学发表首个旱黄瓜 T2T 基因组

Bee-mediated pollination enhances fruit set and seed yield in *Paeonia ostii* 'Fengdan': insights into physiological and molecular mechanisms
原文链接：https://doi.org/10.1093/hr/uhaf224
微信导读：河南科技大学揭示蜜蜂授粉提高油用牡丹'凤丹'种子产量的生理及分子调控机制

Structural composition and evolution of jujube centromere reveal a dominant role for LTR retrotransposon
原文链接：https://doi.org/10.1093/hr/uhaf244
微信导读：Hortic Res | 河北农业大学枣团队破解枣树着丝粒结构之谜，为果树基因组研究提供新思路

The ClWRKY53-ClBCM/ClSGR module controls plant senescence via chlorophyll degradation in watermelon
原文链接：https://doi.org/10.1093/hr/uhaf234
ClWRKY53-ClBCM/ClSGR 模块介导叶绿素降解途径调控西瓜植株衰老

A novel MLO protein CsMLO4 plays an essential role in cucumber resistance to target leaf spot
原文链接：https://doi.org/10.1093/hr/uhaf225
微信导读：Hortic Res | 沈阳农业大学联合上海交通大学揭示新型 MLO 蛋白 CsMLO4 在黄瓜抗靶斑病中起着至关重要的作用

Integrated genomic and DNA methylome analyses reveal epigenetic regulation of stevia glycoside biosynthesis in *Stevia rebaudiana*
原文链接：https://doi.org/10.1093/hr/uhaf226
整合基因组和 DNA 甲基化组分析揭示了甜叶菊中甜菊糖苷生物合成的表观遗传调控

Postharvest preservation efficacy and optimization strategies of fresh cut flowers: a meta-analysis and machine learning approach
原文链接：https://doi.org/10.1093/hr/uhaf227
鲜切花采后保鲜效果及优化策略：meta 分析和机器学习方法

QTL and candidate gene analysis unveil genetic control of floret aliphatic glucosinolate side-chain modification in *Brassica oleracea* through multiparent F_2 populations
原文链接：https://doi.org/10.1093/hr/uhaf232
微信导读：Hortic Res | 浙江省农科院顾宏辉团队揭示甘蓝类蔬菜脂肪族芥子油苷遗传机制，助力青花菜"高硫苷"分子育种

Evolution of terpene synthases in the sesquiterpene biosynthesis pathway and analysis of their transcriptional regulatory network in Asteraceae
原文链接：https://doi.org/10.1093/hr/uhaf229
微信导读：Hortic Res | 成都中医药大学联合华北理工大学基于泛基因组研究解析了菊科 TPS 基因的进化模式

The wucai genome and DNA methylation regulation on the inner leaves' yellowing response to low temperature
原文链接：https://doi.org/10.1093/hr/uhaf231
微信导读：Hortic Res | 安徽农业大学汪承刚课题组解析高质量乌菜基因组及低温下内叶黄化的表观调控机制

Calcium-sensing receptor AcCaS regulates chloroplast immunity in kiwifruit by competitively binding with Ca^{2+} or the *Psa* effector

原文链接：https://doi.org/10.1093/hr/uhaf230

猕猴桃中的钙敏感受体 AcCaS 通过与 Ca^{2+}或 *Psa* 效应蛋白竞争性结合来调节叶绿体免疫

SlCV affects starch metabolism by regulating SlBAM3 stability under low night temperature stress in tomatoes

原文链接：https://doi.org/10.1093/hr/uhaf233

在番茄中，SlCV 通过调节 SlBAM3 在低温夜间胁迫下的稳定性来影响淀粉代谢

Pangenomics and single-cell transcriptomics uncover the genetic basis of continuous bearing trait in grapevine

原文链接：https://doi.org/10.1093/hr/uhaf228

微信导读：青岛农业大学联合基因组所基于泛基因组和单细胞转录组揭示‘朱利安’葡萄连续开花结果机制

Two mutations in the same MYC-bHLH transcription factor cause segregation of purple coloration of stolons and seed heads in *Zoysia japonica* × *Zoysia matrella* F_2 and F_1 populations

原文链接：https://doi.org/10.1093/hr/uhaf235

同一个 MYC-bHLH 转录因子中的两个突变导致日本结缕草×马来结缕草 F_2 和 F_1 群体中匍匐茎和种子头紫色着色的分离

Genome resequencing and custom genotyping elucidates the origin and dissemination history of an emblematic grapevine cultivar, ‘Tempranillo Tinto’

原文链接：https://doi.org/10.1093/hr/uhaf237

基因组重测序和基因分型阐明了标志性葡萄品种“丹魄红葡萄酒”的起源和传播历史

The grape berry methylome reveals tissue-specific features associated with metabolism in ripening

原文链接：https://doi.org/10.1093/hr/uhaf238

微信导读：Hortic Res | 南方科技大学联合法国波尔多大学揭示葡萄成熟期组织特异性 DNA 超甲基化与特征代谢物积累的关联

TVIR 2.0: an enhanced database of the vegetables information resources

原文链接：https://doi.org/10.1093/hr/uhaf239

TVIR 2.0：蔬菜信息资源的增强型数据库

Auxin affects gene editing efficiency through regulating chromatin accessibility and plant regeneration process

原文链接：https://doi.org/10.1093/hr/uhaf240

生长素通过调节染色质可及性和植物再生过程影响基因编辑效率

Selenium phytofortification: enhanced stress resistance and nutraceutical enrichment in horticultural crops

原文链接：https://doi.org/10.1093/hr/uhaf236

微信导读：12 月封面文章 | 浙江大学李春阳团队综述硒植物强化对作物抗逆能力与营养品质的提升作用

A novel SlSTOP1–SlHAK5–cytosolic pH feedback loop drives dual adaptation to proton and aluminum toxicity in tomato

原文链接：https://doi.org/10.1093/hr/uhaf241

全新的 SlSTOP1–SlHAK5–胞质 pH 正反馈环回路驱动番茄酸铝的双重抗性

Sucrose as a key nutritional marker distinguishing vegetable and grain soybeans, regulated by *GmZF-HD1* via *GmSPS17* in seeds

原文链接：https://doi.org/10.1093/hr/uhaf242

微信导读：Hortic Res | 中国科学院东北地理所在鲜食大豆籽粒蔗糖积累调控分子机制方面取得新进展

Uncovering the genetic architecture of pungency, carotenoids, and flavor in *Capsicum chinense* via TWAS-mGWAS integration and spatial transcriptomics

原文链接：https://doi.org/10.1093/hr/uhaf243

通过 TWAS-mGWAS 整合和空间转录组学揭示辣椒辛辣味、类胡萝卜素和风味的遗传结构

The origin and evolution of HKT proteins with TrkH domain from aquatic plants to flowering plants

原文链接：https://doi.org/10.1093/hr/uhaf245

从水生植物到开花植物，具有 TrkH 结构域的 HKT 蛋白的起源和演化

Interspecific hybridization history of *Vaccinium* berry crops and potential in wild relatives

原文链接：https://doi.org/10.1093/hr/uhaf246

越橘属浆果作物的种间杂交历史及其在野生近缘种中的潜力

Transketolase-mediated erythrose-4-phosphate provides an essential source for anthocyanin biosynthesis in petunia

原文链接：https://doi.org/10.1093/hr/uhaf285

转酮醇酶介导的赤藓糖-4-磷酸为矮牵牛花中花青素的生物合成提供了必要的来源