

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>

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Decoding the genetic basis of secretory tissues in plants

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解析植物分泌组织的遗传基础

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

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

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

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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*

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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>

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

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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

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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>

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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>

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A vacuolar invertase gene *SIVI* modulates sugar metabolism and postharvest fruit quality and stress resistance in tomato

原文链接: <https://doi.org/10.1093/hr/uhae283>

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Natural variation in MdNAC5 contributes to fruit firmness and ripening divergence in apple 苹果 MdNAC5

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CHH hypermethylation contributes to the early ripening of grapes revealed by DNA methylome landscape of 'Kyoho' and its bud mutant

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The amino acid permease *SIAAP6* 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>

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Glycerophosphodiester phosphodiesterase 1 mediates G3P accumulation for Eureka lemon resistance to citrus yellow vein clearing virus

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Disruption of *CLOSD1* leads to both somatic and gametic ploidy doubling in watermelon

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NpCIPK6-NpSnRK1 module facilitates intersubgeneric hybridization barriers in water lily (*Nymphaea*) by reducing abscisic acid content

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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>

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CsNAC17 enhances resistance to *Colletotrichum gloeosporioides* by interacting with CsbHLH62 in *Camellia sinensis*

原文链接: <https://doi.org/10.1093/hr/uhae295>

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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

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A transcription factor, PbWRKY24, contributes to russet skin formation in pear fruits by modulating lignin accumulation

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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>

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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>

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Mapping the genomic landscape of *Prunus* spp. with PrunusMap

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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

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Ectopic biosynthesis of catechin of tea plant can be completed by co-expression of the three *CsANS*, *CsLAR*, and *CsANR* genes

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GenoBaits Cassava35K: high-resolution multi-SNP arrays for genetic analysis and molecular breeding using targeted sequencing and liquid chip technology

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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

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Environmental and molecular regulation of flowering in cultivated strawberry (*Fragaria x ananassa*)

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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

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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.GLI* and *BjB02.GLI* control leaf trichomes and enhance resistance to aphids in *Brassica juncea*

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

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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>

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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*)

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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>

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

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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>

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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>

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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: Horti 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 CIWRKY61 interacts with CILEA55 to enhance salt tolerance in watermelon

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

转录因子 CIWRKY61 与 CILEA55 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: Horti Res | 山东农业大学冯守千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>

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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

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

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

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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>

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

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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 交互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>

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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>

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

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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>

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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>

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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>

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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: Horti 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)

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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>

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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 miRNA 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>

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Regulation of storage organ formation by long-distance tuberigen signals in potato

原文链接: <https://doi.org/10.1093/hr/uhae360>

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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/uhae005>

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>

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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 SINOR and SINOR-like1 is required for pollen development in tomato

原文链接: <https://doi.org/10.1093/hr/uhaf003>

转录因子 SINOR 和 SINOR-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 CsAN1

原文链接: <https://doi.org/10.1093/hr/uhaf002>

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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: Horti 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

SIH3 and SIH4 promote multicellular trichome formation and elongation by upregulating *Woolly* in tomato

原文链接: <https://doi.org/10.1093/hr/uhaf008>

SIH3 和 SIH4 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 germplasm

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: Horti 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 CO₂ by activating jasmonic acid and γ -aminobutyric acid biosynthesis

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

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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: Horti Res | 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>

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

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

微信导读: Horti 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: Horti 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: Horti 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 GA₄₊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: Horti 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 deneckylation 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: Horti 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: Horti 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: Horti 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: Horti 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: Horti 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: Horti 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: Horti 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 SITCP25 to regulate type I trichome branching in tomato

原文链接: <https://doi.org/10.1093/hr/uhaf032>

微信导读: Horti 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: Horti 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: Horti 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: Horti 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: Horti 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 microbiome

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: Horti Res | 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: Horti 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: Horti 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: Horti 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: Horti Res | 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: Horticulture 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蕹菜根的镉积累能力

A novel bHLH transcription factor PILHL1 targets *PILAC15* 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 PILHL1 靶向 *PILAC15*, 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 SIATL2 suppresses tomato immunity by promoting SICSN5a 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 SIATL2 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 SIRBP1-*SIFBA7/SIGPIMT* module regulates fruit size in tomato

原文链接: <https://doi.org/10.1093/hr/uhaf089>

微信导读: Horti 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: Horti 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: Horti 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: Horti 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

Ca²⁺ 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: Horti Res | 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

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>

气温升高降低了中国主要酿酒葡萄种植区的收获前冻害风险, 并改变了葡萄品种的适应性

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

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: Horti 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: 沉默李中的 *LAZY1* 基因造成分枝角度变大, 从而具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花花时间

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: Horti 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: Horti 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: Horti 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: Horti Res | 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: Hortic Res | 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 PIMYB73-PIMYB70-PIMYB108 complex regulates *PITPS1* to promote geraniol biosynthesis in *Paeonia lactiflora*

原文链接: <https://doi.org/10.1093/hr/uhaf141>

PIMYB73-PIMYB70-PIMYB108 复合物调节 PITPS1 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