

Resource Summary Report

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Planteome

RRID:SCR_014411

Type: Tool

Proper Citation

Planteome (RRID:SCR_014411)

Resource Information

URL: <http://planteome.org>

Proper Citation: Planteome (RRID:SCR_014411)

Description: An international collaborative effort to develop and enrich new and existing reference ontologies for plants, improve ontology use and cross-references, and to develop data annotation standards. Users can search for ontology terms and bioentities and submit the ontology-related term requests by visiting the following GitHub request trackers.

Resource Type: data or information resource, database

Keywords: database, ontology, plant, genome

Funding: NSF IOS:1340112

Availability: Available to the research community, Only registered users of the GitHub website are allowed to submit requests and make suggestions or comments

Resource Name: Planteome

Resource ID: SCR_014411

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Record Creation Time: 20220129T080320+0000

Record Last Update: 20260912T200214+0000

Ratings and Alerts

No rating or validation information has been found for Planteome.

No alerts have been found for Planteome.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 28 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Hernández-Miranda OA, et al. (2025) Transcriptomic analysis reveals molecular phenological changes during the flower-to-fruit transition in *Vanilla planifolia* Andrews (Orchidaceae). *BMC plant biology*, 25(1), 437.

He Z, et al. (2024) scPlantDB: a comprehensive database for exploring cell types and markers of plant cell atlases. *Nucleic acids research*, 52(D1), D1629.

Podkolodnyy NL, et al. (2024) Ontologies in modelling and analysing of big genetic data. *Vavilovskii zhurnal genetiki i selektsii*, 28(8), 940.

Cooper L, et al. (2024) Planteome 2024 Update: Reference Ontologies and Knowledgebase for Plant Biology. *Nucleic acids research*, 52(D1), D1548.

Xie C, et al. (2024) PotatoG-DKB: a potato gene-disease knowledge base mined from biological literature. *PeerJ*, 12, e18202.

Dumschott K, et al. (2023) Ontologies for increasing the FAIRness of plant research data. *Frontiers in plant science*, 14, 1279694.

Thessen AE, et al. (2023) Using knowledge graphs to infer gene expression in plants. *Frontiers in artificial intelligence*, 6, 1201002.

Yang G, et al. (2022) Genetic Diversity of Transcription Factor Genes in *Triticum* and Mining for Promising Haplotypes for Beneficial Agronomic Traits. *Frontiers in plant science*, 13, 899292.

Zogopoulos VL, et al. (2021) Arabidopsis Coexpression Tool: a tool for gene coexpression analysis in *Arabidopsis thaliana*. *iScience*, 24(8), 102848.

Zhang L, et al. (2021) Which methods are the most effective in enabling novice users to participate in ontology creation? A usability study. *Database : the journal of biological databases and curation*, 2021.

Arnaud E, et al. (2020) The Ontologies Community of Practice: A CGIAR Initiative for Big Data in Agrifood Systems. *Patterns (New York, N.Y.)*, 1(7), 100105.

Cui H, et al. (2020) Measurement Recorder: developing a useful tool for making species descriptions that produces computable phenotypes. *Database : the journal of biological databases and curation*, 2020.

Pommier C, et al. (2019) Applying FAIR Principles to Plant Phenotypic Data Management in GnpIS. *Plant phenomics* (Washington, D.C.), 2019, 1671403.

Roitsch T, et al. (2019) Review: New sensors and data-driven approaches-A path to next generation phenomics. *Plant science : an international journal of experimental plant biology*, 282, 2.

Walls RL, et al. (2019) The Plant Ontology Facilitates Comparisons of Plant Development Stages Across Species. *Frontiers in plant science*, 10, 631.

Ortiz JPA, et al. (2019) Small RNA-seq reveals novel regulatory components for apomixis in *Paspalum notatum*. *BMC genomics*, 20(1), 487.

Ward BP, et al. (2019) Genome-wide association studies for yield-related traits in soft red winter wheat grown in Virginia. *PloS one*, 14(2), e0208217.

Oliveira D, et al. (2018) Improving the interoperability of biomedical ontologies with compound alignments. *Journal of biomedical semantics*, 9(1), 1.

Endara L, et al. (2018) Extraction of phenotypic traits from taxonomic descriptions for the tree of life using natural language processing. *Applications in plant sciences*, 6(3), e1035.

Venkatesan A, et al. (2018) Agronomic Linked Data (AgroLD): A knowledge-based system to enable integrative biology in agronomy. *PloS one*, 13(11), e0198270.