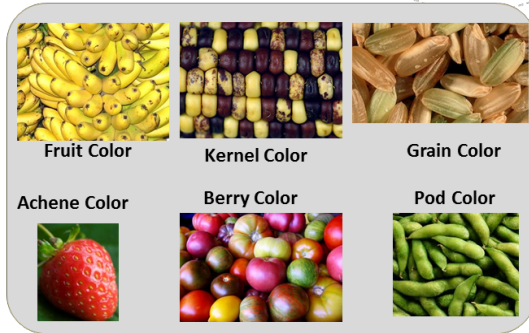


Diversity of data descriptions results in inconsistent nomenclature



Planteome provides consistent terminology for all things plant biology related, all the way from the molecular to environment level.

Environment Ontology (ENVO)						
Plant Environmental Conditions (EO)						
GRANULARITY	Plant Taxonomy	NCBI, uBio	Plant Stress Ontology (PSO)	Phenotypic Quality (PATO)	Biological Process (GO)	
	Anatomy	Plant Anatomical Entity Plant Ontology (PO)		Plant Trait Ontology (TO)		Plant Structure Development Stage (PO)
	Cell	Plant Cell (PO)				
		Cell (CL)				
	Cellular Components	Cellular Component (GO)				
	Molecules	Molecular Entity (ChEBI, PR)		Molecular Function (GO)	Molecular Process (GO)	

Key to Colors: Yellow & Orange: to be developed and maintained by Planteome. Blue: external reference ontologies

Contact us:

Visit www.planteome.org and click on the **Contact Tab** to send a message

Goals of the Planteome:

- Develop and maintain a network of reference ontologies to link plant traits, phenotypes, gene expression, genomes and genetic diversity data across a wide range of plant species on a centralized platform
- Align reference ontologies with descriptors from species-specific vocabularies to link to breeding data (intersects on networks)
- Create mappings (links) to other ontologies and databases



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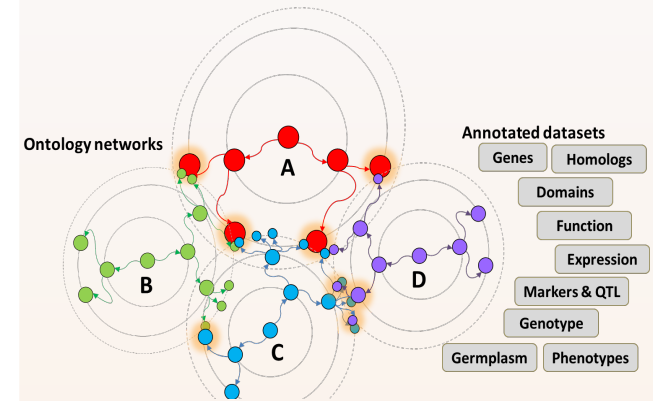


Funded by the National Science Foundation



What is the Planteome?

A suite of ontologies and annotations for all plants that covers all things plant related.



A source for standard definitions reviewed by experts & links to annotations from plant genome databases

www.planteome.org

@Planteome

Navigating the Planteome website:

Planteome Home Search Browse Tools & Resources Feedback About

Annotations
Ontology
Bioentity

Search Planteome

Sample Searches: endosperm' or 'PO:0009089'
CONSTANS' or 'AT5G15850'

More information on quick search

Search

A web-based interface that allows users to:

- browse the ontology
- search for terms and annotations
- summarize annotations
- download annotations

Request New Terms:
The **"Feedback"** tab allows you to ask questions, make comments, and report bugs.

Search results can be filtered by taxon, source database, evidence type, and object type.

Directly search for ontology terms, annotations, or bioentities

Download annotations directly from search results

Filter results

Total annotations: 2362

No current user filters.

Your search is pinned to these filters

- document_category: annotation
- regulates_closure: TO:0000439

Source

Assigned by

Ontology (aspect)

Evidence type

Annotation qualifier

Taxon

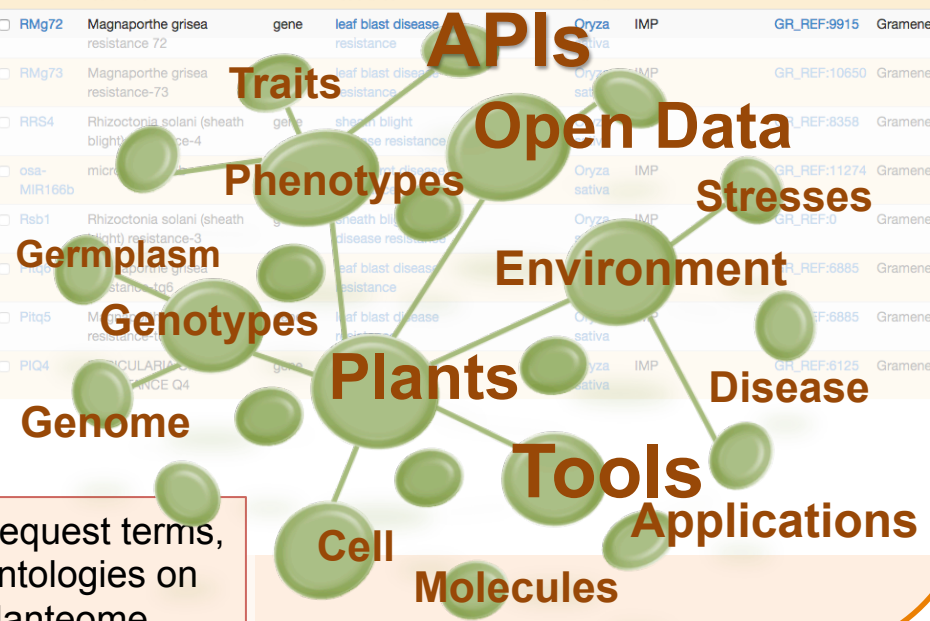
Object Type

Direct annotation

Total annotations: 2362; showing: 1-10
Results count 10

«First <Prev Next> Last» Download

Object	Object name	Object Type	Direct annotation	Annotation extension	Taxon	Evidence	with/from	Reference	Assigned by
<input type="checkbox"/>	Lrd33	gene	leaf blast disease resistance		Oryza sativa	IMP		GR_REF:10628	Gramene
<input type="checkbox"/>	RMg71	gene	leaf blast disease resistance		Oryza sativa	IMP		GR_REF:7746	Gramene
<input type="checkbox"/>	RMg72	gene	leaf blast disease resistance		Oryza sativa	IMP		GR_REF:9915	Gramene
<input type="checkbox"/>	RMg73	gene	leaf blast disease resistance		Oryza sativa	IMP		GR_REF:10650	Gramene
<input type="checkbox"/>	RRS4	gene	sheath blight resistance		Oryza sativa	IMP		GR_REF:8358	Gramene
<input type="checkbox"/>	osa-MIR166b	microRNA	sheath blight resistance		Oryza sativa	IMP		GR_REF:11274	Gramene
<input type="checkbox"/>	Rsb1	gene	sheath blight resistance		Oryza sativa	IMP		GR_REF:6885	Gramene
<input type="checkbox"/>	Pitq5	gene	leaf blast disease resistance		Oryza sativa	IMP		GR_REF:6885	Gramene
<input type="checkbox"/>	PIQ4	gene	leaf blast disease resistance		Oryza sativa	IMP		GR_REF:6125	Gramene



Report bugs, request terms, or download ontologies on [GitHub.com/Planteome](https://github.com/Planteome)

Using the Planteome

Hierarchical structure allows for taxon-specific annotation and comparisons across taxa.

You can ask questions such as:

- Is there lentil germplasm with known plant height characteristics?
- What genes are expressed that have an effect on a plant's height?
- What traits have been characterized in lentil variety REDCHIEF?

