

About PlantEMS

PlantEMS (Plant Epigenetic Modification Sites) is an integrative database for storing, analyzing and visualizing of DNA, RNA, and protein PTM (post-translational modification) sites in plant. The PlantEMS provides the experimental-confirmed modification datasets in 51 plants from published literatures and databases. In total, 12,970,491 DNA modification sites for 4 types, 23,500 RNA modification sites for 26 types, and 139,231 PTM sites for 23 types are collected and integrated in the PlantEMS. The PlantEMS will become a powerful tool to offer a comprehensive view of epigenetic modification in plant.

Major Genera Quick Start



E.salsugineum



F.vesca



G.max



G.hirsutum

News and Updates

- PlantEMS is online (2021.7.1)

[More](#)

Click and select the plants of interest

[DNA](#)[RNA](#)[PTM](#)

About **PlantEMS**

Select the level
of modification

Choose species and type

species:

type:

Browse

Select species and
modification type

Select the information
of interest

Information

Overview

Density

Gnomic feature

Coverage

Score

PlantEMS

[DNA](#)[RNA](#)[PTM](#)

Select a search strategy

Select the level of modification

DNA modification search

1. Search by **Gene**

Species: Mod type: Gene name:

2. Search by **Position**

Species: Chromosome: Mod type:
from to

3. Search by **Sequence**

Species: Sequence: Example

4. Search by **Modification type**

Mod type: Example

Display columns:

- ☒ Species
- ☒ View
- ☒ Chromosome
- ☒ Position
- ☒ Type
- ☒ Gene
- ☒ Feature
- ☒ Strand
- ☐ Score
- ☐ Coverage
- ☐ Fraction
- ☐ IdentificationQV
- ☐ IPDRatio
- ☒ Context

Select the information of interest

Select the level of modification

USER GUIDE

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DNA

RNA

PTM

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data downlo

Select the species of interest and download

DNA modification data download

| Species | Download |
|-------------------------------------|----------|
| <i>Arabidopsis thaliana</i> | Download |
| <i>Casuarina equisetifolia</i> | Download |
| <i>Fragaria vesca</i> | Download |
| <i>Oryza sativa ssp. japonica</i> | Download |
| <i>Oryza sativa ssp. Nipponbare</i> | Download |