Germplasm Cross Importer Documentation

Release 1

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CHAPTER 1

Features

Germplasm Cross Importer is developed following Tripal Developer's Guide » Creating Custom Data Loaders. This module is developed for bulk load germplasm crosses into database.

1.1 File Upload

Format requirements for upload files can be found easily in UI while using this module.

Load germplasm into database

Upload file must in TSV (tab-separated values) format. Please confirm file format and column order before upload.



1.2 Prefix and Organism

Organism must be selected from dropdown menu before upload. Prefix text box is optional to fill in and default the value is 'GERM'. The uniquename for each germplasm will be 'GERM' followed by it's stock id but user can give a unique prefix to replace 'GERM'.



1.3 Bulk load germplasm crosses

As Chado is the data store for Tripal, germplasm data will be saved in five chado tables: cv, cvterm, stock, stockprop, and stock_relationship in this module.

- required control vocabularies (CVs) and CV terms will be checked before data loading
- · germplasm crosses will be loaded into table stock
- properties for each germplasm will be loaded into table stockprop
- relationships with parents for each germplasm will be loaded into table stock_relationship

Note: CVs and CV terms used in this module is customized for our database. Users can check their own database and modify CVs and CV terms accordingly.

1.4 PHP UnitTest

PHP UnitTest is created to guarantee the integrity of data insertion.

CHAPTER 2

Installation

Note: It is recommended to clear cashes regularly in this installation processes.

2.1 Download Module

The module is available as one repository for Pulse Bioinformatics, University of Saskatchewan on GitHub. Recommended method of downloading and installation is using git:

```
cd [your drupal root]/sites/all/modules
git clone https://github.com/UofS-Pulse-Binfo/tripal_germplasm_importer.git
```

Germplasm Cross Importer should be installed by now and the status of this module can be checked in "Home » Administration » Tripal » Modules".



2.2 Enable Module

The module can be enabled in "Home » Administration » Tripal » Modules" by select the checkbox under "EN-ABLED" column (as shown in above image) and then click on "Save Configuration" button by the bottom of page.

Another method that can enable our module is using drush:

drush pm-enable tripal_germplasm_importer

2.3 Use Module

After Germplasm Cross Importer is installed and enabled, it should be ready to use in "Home » Administration » Tripal » Data Loader".

