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Helium Exporter for Helium Pedigree Visualization Framework is custom data exporter that will transform germplasm and phenotypic data into format fully compatible with Helium Pedigree Visualization application.

**Helium Pedigree Visualization Framework:** Shaw, P.D., Kennedy, J., Graham, M., Milne, I. and Marshall, D.F. 2014. Helium: Visualization of Large Scale Plant Pedigrees. BMC Bioinformatics. 15:259. [DOI: 10.1186/1471-2105-15-259](https://bmcbioinformatics.biomedcentral.com/articles/10.1186/1471-2105-15-259)

DEPENDENCIES

|  |  |  |
| --- | --- | --- |
| Avoiding Drupal 7 #AJAX Pitfalls  Drupal 7 | Tripal | Tripal  Tripal 3.x | PostgresSQL 9.3 |
| RAWPHENOTYPES MODULE | | |

INSTALLATION

1. Install all dependencies (please note to install all dependencies directly related to RAWPHENOTEYPES MODULE)
2. Install and enable this module as you would any other Drupal Module.
3. Configure module using configuration page. Link is displayed next to the enabled module in the modules page.



CONFIGURATION

|  |  |
| --- | --- |
| Text  Description automatically generated with low confidence | **Configuration Variables**  **SUBJECT IS PARENT**  The parent-side of the relationship is the subject  **OBJECT IS PARENT**  The parent-side of the relationship is the object  **TERM USED TO IDENTIFY**  **MATERNAL PARENT**  Term used to indicate a germplasm is a maternal parent of another germplasm.  **TERM USED TO IDENTIFY**  **PATERNAL PARENT**  Term used to indicate a germplasm is a paternal parent of another germplasm. |

Data Exporter requires vocabulary terms used to relate germplasm to one another namely, Subject is Parent, Object is Parent and Parental Relationships (to determine male and female parents) variables.

Note: A warning message is shown on both configuration page and exporter page when this module is not configured correctly.

DATA EXPORTER INTERFACE

|  |  |
| --- | --- |
| Graphical user interface, application  Description automatically generated | 1. Link to Data Exporter for Helium Pedigree Visualization application knowledgebase/help. 2. Graphical step by step guide showing you how to export data and setup Helium Pedigree Visualization application. 3. Experiment selector. 4. Germplasm/lines selector with search functionality. 5. Trait/categorical data selector with search functionality. 6. Parental Relationship option. 7. Submit or export button. 8. Helium Pedigree Visualization Framework citation information. |

EXPORT DATA AND VISUALIZE USING HELIUM PEDIGREE VISUALIZATION

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