Genetic Management Tools - Version 0.5.30 (20190829)

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# Genetic Management Tools

Select how you are submitting data.

**File Type**
- ◉ Excel
- ○ Text

**File Content**
- ◉ Pedigree(s) file only; genotypes not provided
- ○ Pedigree(s) and genotypes in one file
- ○ Pedigree(s) and genotypes in separate files
- ○ Breeders only; pedigree obtained from database

**Select Pedigree File**

[ Browse... ] No file selected

**Minimum Parent Age (years)**

[ 4.0 ]

[ Read and Check Pedigree ]

☐ Debug on

## Input File Handling:

- This software requires an input file for each breeding colony to be analyzed. Multiple separate pedigrees within the same breeding colony can be accommodated within the same input file.

- If an animal is missing information on one parent, that cell should be blank. For animals with no information on either parent, both cells under "Sire ID" and "Dam ID" should be blank. For animals with information on one parent a unique "placeholder" ID (designated as UnkownID and UnkID in Pedigree Brower tab) will be assigned by the software to represent the unknown parent. *Please be aware that animals with no parents will be treated as founders in these calculations, i.e., sources of new genetic variation in the colony.*

- Genotypic information for a single locus can be included in the genetic analyses. See Pedigree File Format and Genotype File Format below for file descriptions. Observed genotypic information can be supplied for any members of the pedigree. Designation of two alleles is required as currently there is no accommodation for partial genetic information for an individual. Please contact R. Mark Sharp if you need to be able to enter partial genetic information.

## Pedigree File Format Details:

The following columns names are reserved and will be recognized:

*Ego ID, Sire ID, Dam ID,* and *Sex* are required columns.

Either *Age* or *Birth* must also be provided.

- Use the Allowable Names listed in the table below. Allowable Name case and order are not significant. The first Allowable Name listed for each column is the name used internally and is the name used in examples and output.

- If the *Age* column is provided, the program will use the user-specified age.

- Otherwise, the program will calculate age based on the *Birth* column and the current date, or the *Death, Departure,* or *Exit* columns, if provided.

- *Exit* dates, if provided, will supercede *Death* and *Departure* dates. If *Exit* is not provided, *Death* and *Departure* will be combined based on which date is chronologically first. (This functions primarily to catch clerical errors or historical changes in record-keeping practices).

- Dates should be in the format YYYY-MM-DD (this date option can be found under the "English-U.K." locale option under the "Format