

Integration of External Tools with ICIS

Pedigree Download Tool

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Current Tools on Web interface



The screenshot displays a web browser window with the URL <http://mendel.laifs.uq.edu.au:8080> and the title "GWIS - Mozilla Firefox". The main content area is titled "Gemplasm Details" and contains the following information:

Git: 83331
Name: HART00
Method: RANDOM BULK SF
Date: 00-00-1992
Country: AUSTRALIA

Location: QUEENSLAND WHEAT RESEARCH INSTITUTE
Reference:
Group: PAVON
Source: CM8398-D-4M-4Y-2M-2Y

Alternative Names:

type	name	location
ACONO	CW29546	INT. CENTER FOR THE IMPROVEMENT OF MAIZE AND WHEAT, EL BATAN
NTEST	IAT-19	AUSTRALIA
ITEST	2718/ASN386	INT. CENTER FOR THE IMPROVEMENT OF MAIZE AND WHEAT, EL BATAN

Attributes : -

Related Links:
[ORAMENE - HART00](#)

The "Pedigree Tree" section shows a hierarchical structure of genotypes:

- HART00
 - PAVON
 - VICAM S 71/CIANO F 67/SIETE CERROS T 66
 - VICAM S 71
 - I22388
 - INA F 66
 - NAPO 63
 - CIANO F 67/SIETE CERROS T 66

Done

- Query DMS across studies
- Limited phenotypic/DMS data downloadable
- Query pedigree data
- Pedigree data cannot be downloaded

Current tools on stand alone version

- SETGEN
 - Create lists of germplasm
 - Export to spreadsheet or text file
- Users need to have ICIS running on PC

Required

- **Pedigree Download Tool**
 - Allows users to select a number of varieties
 - Gives each variety's pedigree
 - Details of all parents in each pedigree (i.e. full ancestry tree)
 - Ancestry tree can be defined to n generations

Advantages for users

- Download can be in database format as well as spreadsheet and text file
- Can create a subset of a much larger database
- Smaller database – faster performance
- Web enabled tool – allows users to download data without the need to run ICIS on their PC

Advantages for administrators

- Tool useful in “pulling out” data from local databases for uploading to central
- Helps to segregate confidential data from public data
- Can be extended to be applied to the DMS part of the system – uploading only public phenotypic and analysis data to the central

Create Cultivar list for download

The screenshot displays the 'Create Cultivar list for download' interface. It features a search bar on the left with a dropdown menu for 'Select Name/Country' and a text input field for 'Enter name or country of'. A blue oval highlights these search elements. To the right, there is a 'Download format' section with radio buttons for 'Excel file' and 'ICIS database (Access)'. A 'Download Pedigrees' button is highlighted with a blue oval and a green arrow. Below the search bar is an 'Add cultivars to download list' button, also highlighted with a blue oval. The interface is divided into two main sections: 'Search results shown here' on the left and 'Selected Cultivars list for download shown here' on the right. A large green arrow points from the search results area to the selected list area. The search results area contains a placeholder text: 'Search results shown here: List of cultivars is returned when user performs a search. User selects one or more cultivars to add to download list on the right hand side.'

- Search for variety by name or country of origin

- List of search results

- Add selected entries to list

- Select output format (either or both)

- Download pedigrees button

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Development

- Currently:
 - Some code in Fortran (.EXT LST command in BROWSE)
 - Some code in VBA
 - Uses lists from SETGEN
- Web Enabled tool
 - JAVA / ASP.NET
 - Users create lists “on the spot”
 - Output in spreadsheet or Access format
 - To be included in standard ICIS web interface

THANK YOU

