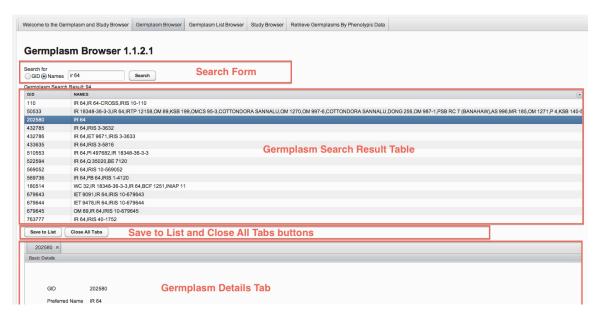
# **Germplasm Browser User's Manual**

The Germplasm Browser is a tool that allows you to search for germplasm records in the Integrated Breeding Database (IBDB) central or local instances. It displays information related to a specific germplasm like its basic information, attributes, names, generation history and its pedigree tree.

#### Main Screen

- 1. **Search Form** In the Search Form the user is given an option to search either by GID or by Name. Searching by name will retrieve records from both local and central databases. The search will be based on original format, standardized equivalent, and non-space version of the search string. Wildcard search can also be done with the use of '%' character, but no space removal and name standardization is done on wildcard searches.
- 2. **Germplasm Search Results Table** The Germplasm Search Results Table displays the results of the search. It presents the GID, Names, Method of creation and Location of creation of the germplasms included in the results of a search.
- 3. Germplasm Details Tab The Germplasm Details Tab displays information for a specific germplasm entry. It is displayed after the user has selected a specific Germplasm to view from the Germplasm Results Table or a search by GID with exact match has been performed. The details section is divided in several sections: Characteristics, Names, Attributes, Generation History, Pedigree Tree, Lists, Group Relatives, Management Neighbors, Derivative Neighborhood, Inventory Information and Study Information.
- 4. Save to List and Close All Tabs There is an option to save an existing selection of germplasms into a list. This can be done by clicking the Save to List button. There is also an option to clear the selection of germplasms by clicking the Close All Tabs button.



### Searching Germplasms by GID

- To search for Germplasms by GID, click the GID radio button.
- Type the GID in the Search text box and click the **Search** button.

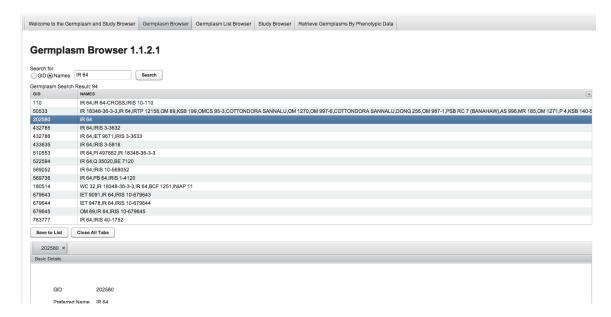


Note: Providing a negative input value will automatically perform the search on the Local database. Positive input values will cause the search to be performed on the Central database.

 Search results will be displayed on the Germplasm Search Results Table. In the above figure, the germplasm detail tab is automatically shown since the search returned an exact match result.

## Searching for Germplasms By Name

- To search for Germplasms by Name, click the **Names** radio button. The search performed is based on the given input, the standardized version and the non-space equivalent.
- Type the search string in the Search text box then click the Search Button.



Note: The user can add wilcard charater '%' on the search string. For example 'IR 64%" perform a search on all germplasm whose names start with "IR 64".

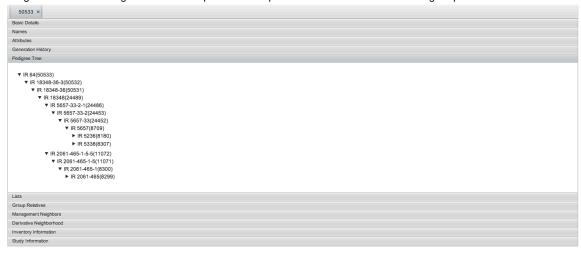
• Search results will be displayed on the Germplasm Search Results Table.

#### Displaying the Germplasm Details Tab

- After a search is executed, the results are displayed on the Germlasm Search Results Table. The user can select the row of the Germplasm to be viewed by clicking on it to open the Germplasm Details Tab. When searching by GID, the Germplasm Details Tab for the germplasm identified by the given id will automatically be opened.
- By default, the Characteristics tab is shown. It shows the GID, Preferred Name, Location, Germplasm Method, Creation Date and Reference.

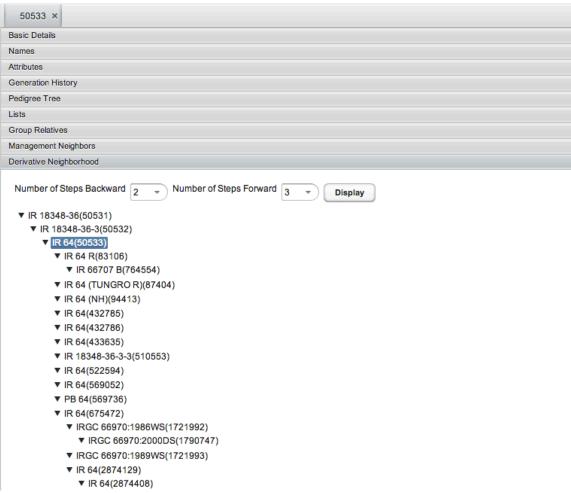


- Click on the Names Tab to view the names of the Germplasm. Type, Name, Date, Location and Type Description are shown.
- Click on the Attributes Tab to view the attributes of the Germplasm. Type, Name, Date, Location and Type Description are shown.
- · Click on the Generation History Tab to view the generation history of the Germplasm. GID and PrefName are shown.
- Click on the **Pedigree Tree** tab to view the pedigree of the Germplasm. Click on the arrows beside the nodes to expand them and navigate the tree. Clicking on a node will open the Germplasm Details Tab of the selected germplasm.



- Click on the Lists Tab to view the Germplasm Lists the selected germplasm belongs to. List Name, Date and Description are shown.
- Click on the Group Relatives tab to view the germplasms which belong to the same group as the selected germplasm and they were also created via a derivative or maintenance breeding method. GID and Preferred Name are shown.
- Click on the Management Neighbors tab to view the germplasms which belong to the same management group as the selected germplasm. GID and Preferred Name are shown.
- Click on the Derivative Neighborhood tab to view the germplasms which belong to the derivative neighborhood of the selcted germplasm.
  - By default the derivative neighborhood tree initially displayed shows germplasms which is 2 steps backward and 3 steps forward
    from the selected germplasm.

- The number of steps backward and forward can be changed and then the **Display** button should be clicked to display the
  desired derivative neighborhood.
- Clicking on a node will open the details tab for that germplasm.



- Click on the **Inventory Information** tab to view data on seed stocks available for the selected germplasm. Actual Lot Balance, Location Name, Scale Name and Lot Comment are shown.
- Click on the Study Information tab to view the list of studies where the selected germplasm was involved in. Study Name, Description
  and Number of Rows are shown.
- Click on the (x) beside the Tab Caption to close the Germplasm Detail Tab selected.