

# 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 display another option for the user to select either searching in local or central database.
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 and Lists.
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.

The screenshot displays the Germplasm Browser interface. At the top, there are navigation tabs: "Welcome to the Germplasm and Study Browser", "Germplasm Browser", "Study Browser", and "Retrieve Germplasms By Phenotypic Data". Below these, the "Search Form" is visible, featuring a "Search for" section with radio buttons for "GID" and "Names", a text input field containing "IR 64", and a "Search" button. Below the search form is the "Germplasm Search Result Table", which lists search results with columns for GID, NAMES, and METHOD. The table includes entries such as "110 IR 64,IR 64-CROSS,IRIS 10-110" and "433635 IR 64,IRIS 3-5816". Below the table are two buttons: "Save to List" and "Close All Tabs", with a red arrow pointing to them and the text "Save to List and Close All Tabs buttons". Below the buttons is the "Germplasm Detail Tab" for the selected entry "433635". This tab shows detailed information for the germplasm, including GID, Prefname, Location, Germplasm Method, Creation Date, and a list of names. The "Germplasm Detail Tab" is divided into several sections: Characteristics, Names, Attributes, Generation History, Pedigree Tree, and Lists.

GID	NAMES	METHOD
110	IR 64,IR 64-CROSS,IRIS 10-110	Single c
50533	IR 18348-36-3-3,IR 64,IRTP 12158,OM 89,KSB 199,OMCS 95-3,COTTONDORA SANNALU,OM 1270,OM 997-6,COTTONDORA SANNALU,DONG 256,OM 987-1,PSB RC 7 (BANAHAW),AS 996,MR 185,OM 1271,P 4,KSB 140-5	Single c
202580	IR 64	Unknown
432785	IR 64,IRIS 3-3632	Cultivar
432786	IR 64,JET 9671,IRIS 3-3633	Cultivar
433635	IR 64,IRIS 3-5816	Cultivar
510553	IR 64,PI 497682,IR 18348-36-3-3	Collect
522594	IR 64,Q 35020,BE 7120	Collect

GID	433635
Prefname	IR 64
Location	Bhutan
Germplasm Method	Cultivar release
Creation Date	19880000
GID	INTERNATIONAL RICE GENEALOGY DATABASE VARIETY LIST (VARIETY.DBF)

## Searching Germplasms by GID

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

Welcome to the Germplasm and Study Browser
Germplasm Browser
Study Browser
Retrieve Germplasms By Phenotypic Data

Search for
☒ GID
☐ Names

Germplasm Search Result: 1

GID	NAMES
50533	IR 18348-36-3-3,IR 64,IRTP 12158,OM 89,KSB 199,OMCS 95-3,COTTONDORA SANNALU,OM 1270,OM 997-6,COTTONDORA SANNALU

50533 x

Characteristics

GID	50533
Prefname	IR 64
Location	International Rice Testing Program, IRRI
Germplasm Method	Single plant selection
Creation Date	0
GID	PARENTAGE OF IRRI CROSSES IR 1-IR 50000

Names

Attributes

Generation History

Pedigree Tree

Lists

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.
- Click the **Central** or **Local** radio button . **Central** radio button is selected as the default.
- Type the search string in the Search Textbox then click the **Search** Button.

Welcome to the Germplasm and Study Browser
Germplasm Browser
Study Browser
Retrieve Germplasms By Phenotypic Data

Search for  
☐ GID ☒ Names    
☒ Central ☐ Local

Germplasm Search Result: 93

GID	NAMES
110	IR 64,IR 64-CROSS,IRIS 10-110
50533	IR 18348-36-3-3,IR 64,IRTP 12158,OM 89,KSB 199,OMCS 95-3,COTTONDORA SANNALU,OM 1270,OM 997-6,COTTONDORA SANN,
202580	IR 64
432785	IR 64,IRIS 3-3632
432786	IR 64,IET 9671,IRIS 3-3633
433635	IR 64,IRIS 3-5816
510553	IR 64,PI 497682,IR 18348-36-3-3
522594	IR 64,Q 35020,BE 7120

Note: The user can add wildcard character '%' 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 Germplasm 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, Prefname, Location, Germplasm Method, Creation Date.
- 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.

50533 x

Basic Details

GID	50533
Preferred Name	IR 64
Location	International Rice Testing Program, IRRI
Creation Method	Single plant selection
Creation Date	0
Reference	PARENTAGE OF IRRI CROSSES IR 1-IR 50000

Names

Attributes

Generation History

Pedigree Tree

Lists

Group Relatives

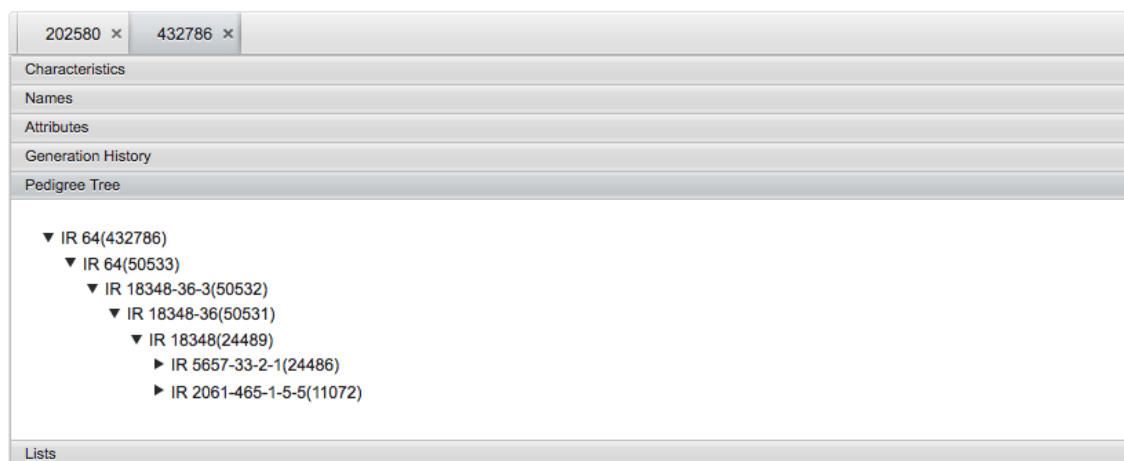
Management Neighbors

Derivative Neighborhood

Inventory Information

Study Information

- 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.
- 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.
- Click on the **Management Neighbors** tab to view the germplasms which belong to the same management group as the selected germplasm.
- Click on the **Derivative Neighborhood** tab to view the germplasms which belong to the derivative neighborhood of the selected 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.

50533 x

Basic Details

Names

Attributes

Generation History

Pedigree Tree

Lists

Group Relatives

Management Neighbors

Derivative Neighborhood

Number of Steps Backward 2 Number of Steps Forward 3 **Display**

▼ IR 18348-36(50531)

▼ IR 18348-36-3(50532)

▼ IR 64(50533)

▼ IR 64 R(83106)

▼ IR 66707 B(764554)

▼ IR 64 (TUNGRO R)(87404)

▼ IR 64 (NH)(94413)

▼ IR 64(432785)

▼ IR 64(432786)

▼ IR 64(433635)

▼ IR 18348-36-3-3(510553)

▼ IR 64(522594)

▼ IR 64(569052)

▼ PB 64(569736)

▼ IR 64(675472)

▼ IRGC 66970:1986WS(1721992)

▼ IRGC 66970:2000DS(1790747)

▼ IRGC 66970:1989WS(1721993)

▼ IR 64(2874129)

▼ IR 64(2874408)

- Click on the **Inventory Information** tab to view data on seed stocks available for the selected germplasm.
- Click on the **Study Information** tab to view the list of studies where the selected germplasm was involved in.
- Click on the (x) beside the Tab Caption to close the Germplasm Detail Tab selected.