



Inventory of Registered Crop Germplasm (IRCG)

USER GUIDE

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What kind of data is available for search?

Registered Germplasm data is available for searching for the following fields

1. **Crop name**
2. **Botanical name**
3. **Accession number**
4. **Donor id**
5. **INGR number**
6. **Year of registration**
7. **Pedigree**
8. **Developer**
9. **Developing institute**
10. **Novel unique features**

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How to use IRCG search engine application?

IRCG search engine can be used to search data in single (rice) or multiple keyword term (rice and 2008 etc) using combination of single/multiple Boolean operator (“AND”, “OR”) matched anywhere with the contents of data file. Search engine identifies all matches and lines up entire record set(s) to the display. Use of Boolean operator helps user to filter the result. The search is better begun with a term matching any of the ten fields Search terms

Open the IRCG search engine any web browser, application will automatically detect the web browser and load accordingly.

Following are the examples to use IRCG search engine

Example 1: To know if there was any wheat genotype registered, search term was ‘wheat’

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wheat Search

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[New Search](#)

You searched for term **wheat**
Total result found **152** out of **1030**

SNO	CROP NAME	BOTANICAL NAME	NATIONAL IDENTITY	DONOR INDEITYTY	INGR NO	YEAR	PEDIGREE	DEVELOPER	DEVELOPING INSTITUTE	NOVEL UNIQUE FEATURES
1	Barley	<i>Hordeum vulgare cv distichon</i>	IC546940	DWR51	06001	2006	BCU 73/PL172	RPS Verma, B Sarkar and Sewa Ram	Directorate of Wheat Research (DWR), Karnal	Excellent malt quality
2	Wheat	<i>Triticum aestivum</i>	IC470825	FLW 11	05003	2005	WH 542*/Hobbit	Dibendu Datta, M Prashar, SC Bhardwaj and RN Brahma	DWR, RS, Flowerdale, Shimla	Multiple rust resistance
3	Wheat	<i>Triticum aestivum</i>	IC470826	FLW 12	05004	2005	UP 2338/Mega	Dibendu Datta, M Prashar, SC Bhardwaj and RN Brahma	DWR, RS, Flowerdale, Shimla	Multiple rust resistance

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Example 2: To know if there was any wheat genotype registered in 2008, search term was ‘wheat AND 2008’




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[New Search](#)

You searched for term **wheat and 2008**
 Total result found **14** out of **1030**

SNO	CROP NAME	BOTANICAL NAME	NATIONAL IDENTITY	DONOR INDETTY	INGR NO	YEAR	PEDIGREE	DEVELOPER	DEVELOPING INSTITUTE	NOVEL UNIQUE FEATURES
1	Wheat	<i>Triticum aestivum</i>	IC553913	FLW-28	08001	2008	WH542/WC 1 F8	D Dutta, M Prashar, SC Bhardwaj, BS Tyagi, Jag Shoran and R Chatrath	DWR, RS, Flowerdale, Shimla	Resistance to brown and yellow rust
2	Wheat	<i>Triticum aestivum</i>	IC553914	FLW-29	08002	2008	PBW 343/Cappelle Desprez/ PBW 343/Lr 28 (CS2D2M 3/8)F2	D Dutta, M Prashar, SC Bhardwaj, BS Tyagi, Jag Shoran, R Chatrath	DWR, RS, Flowerdale, Shimla	Resistance to brown, black and yellow rust
3	Wheat	<i>Triticum aestivum</i>	IC553915	FLW-30	08003	2008	PBW 343/Yr15//PBW 343/Lr28	D Dutta, M Prashar, SC Bhardwaj, BS Tyagi, Jag Shoran, R Chatrath	DWR, RS, Flowerdale, Shimla	Resistance with diverse gene for yellow rust

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Example 3: To know if there was any wheat genotype from Flowerdale registered in 2008, search term was 'wheat AND 2008 and flowerdale'




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[New Search](#)

You searched for term **wheat and 2008 and Flowerdale**
 Total result found 3 out of 1030

SNO	CROP NAME	BOTANICAL NAME	NATIONAL IDENTITY	DONOR INDEITY	INGR NO	YEAR	PEDIGREE	DEVELOPER	DEVELOPING INSTITUTE	NOVEL UNIQUE FEATURES
1	Wheat	<i>Triticum aestivum</i>	IC553913	FLW-28	08001	2008	WH542/WC 1 F8	D Dutta, M Prashar, SC Bhardwaj, BS Tyagi, Jag Shoran and R Chatrath	DWR, RS, Flowerdale, Shimla	Resistance to brown and yellow rust
2	Wheat	<i>Triticum aestivum</i>	IC553914	FLW-29	08002	2008	PBW 343/Cappelle Desprez/ PBW 343/Lr 28 (CS2D2M 3/8)F2	D Dutta, M Prashar, SC Bhardwaj, BS Tyagi, Jag Shoran, R Chatrath	DWR, RS, Flowerdale, Shimla	Resistance to brown, black and yellow rust
3	Wheat	<i>Triticum aestivum</i>	IC553915	FLW-30	08003	2008	PBW 343/Yr15//PBW 343/Lr28	D Dutta, M Prashar, SC Bhardwaj, BS Tyagi, Jag Shoran, R Chatrath	DWR, RS, Flowerdale, Shimla	Resistance with diverse gene for yellow rust

[New Search](#)

Total result found 3 out of 1030

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Example 4: To know if there was any durum wheat genotype registered in 2008, search term was 'wheat AND 2008 and durum'




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[New Search](#)

You searched for term **wheat AND 2008 and durum**

Total result found 1 out of 1030

SNO	CROP NAME	BOTANICAL NAME	NATIONAL IDENTITY	DONOR INDEITY	INGR NO	YEAR	PEDIGREE	DEVELOPER	DEVELOPING INSTITUTE	NOVEL UNIQUE FEATURES
1	Wheat	<i>Triticum durum</i>	IC553919	GW-2002-51	08005	2008	GW 1053/RD 214	AV Agalodiya and SS patel	Wheat Research Station, SDAU, Gujarat	High grain weight in durum wheat

[New Search](#)

Total result found 1 out of 1030

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Example 5: To know if there was any tomato genotype registered for the trait high TSS, search term was 'tomato AND high TSS'




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[New Search](#)

You searched for term **tomato AND high TSS**
 Total result found **1** out of **1030**

SNO	CROP NAME	BOTANICAL NAME	NATIONAL IDENTITY	DONOR INDETTY	INGR NO	YEAR	PEDIGREE	DEVELOPER	DEVELOPING INSTITUTE	NOVEL UNIQUE FEATURES
1	Tomato	<i>Lycopersicon esculentum</i>	IC564448	NBGR Tomato-1	09065	2009	EC 13904	SK Yadav, KK Gangopadhyay, SK Mishra, Gunjeet Kumar, Chitra Pandey, BL Meena, RK Mahajan, Mathura Rai, SK Sharma, Rajesh Kumar, HC Prasanna, Nagender Rai	NBGR, New Delhi	High TSS (6.00B)

[New Search](#)

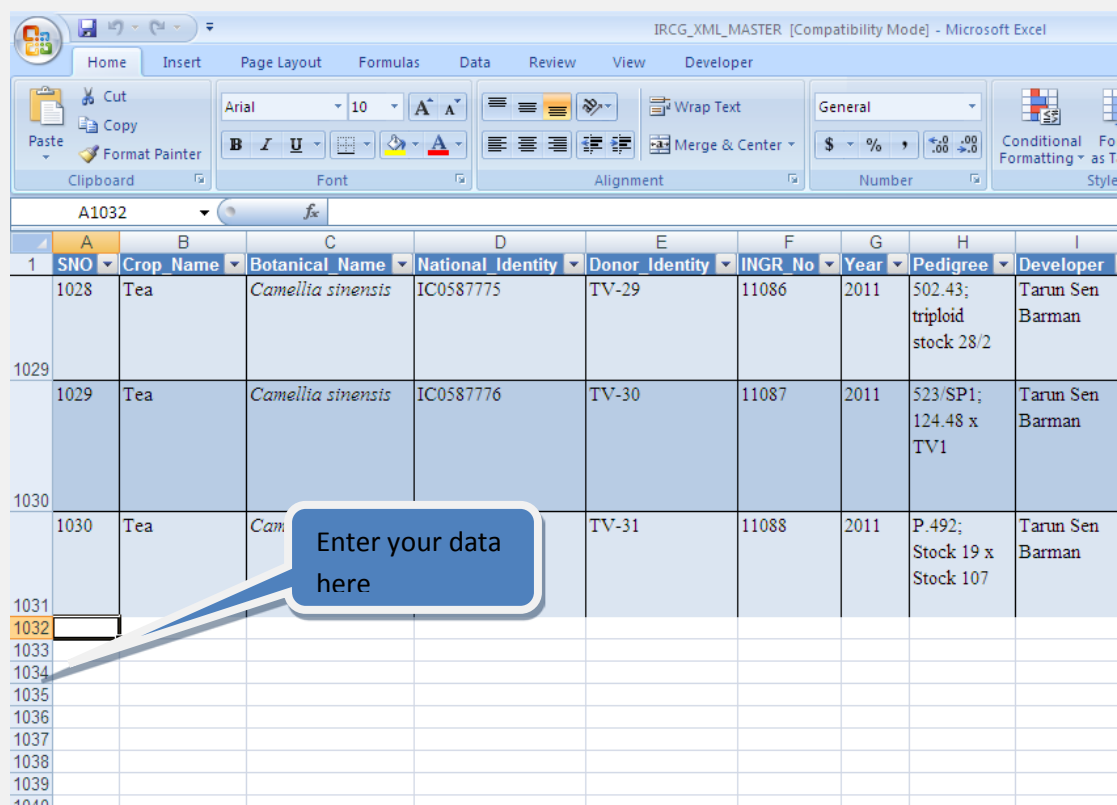
Total result found **1** out of **1030**

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How to add new entries in XML Database?

Database of IRCG is maintained in XML, it is an easy to use technology to maintain data in minimum storage. Portable edition of IRCG contains a XML based master database file in Excel version (\\IRCG\\raw data\\IRCG_XML_MASTER.xls), user can directly append new data under corresponding column for new registered germplasm.

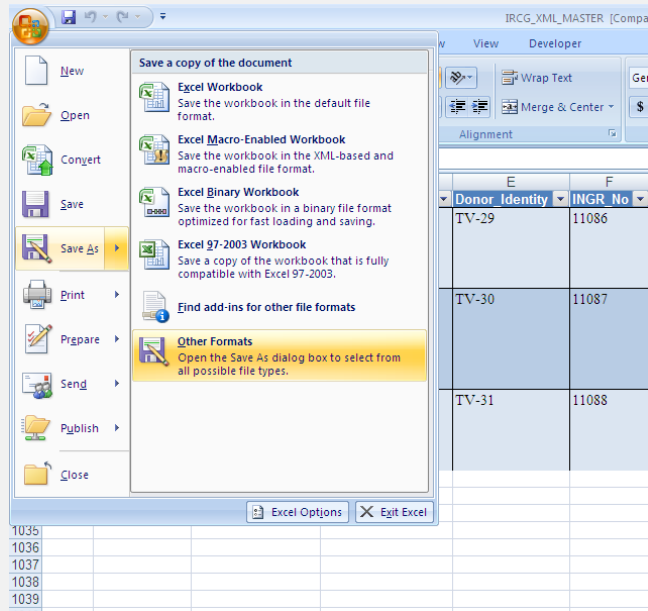
STEP - 01




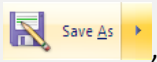
SNO	Crop Name	Botanical Name	National Identity	Donor Identity	INGR No	Year	Pedigree	Developer
1028	Tea	Camellia sinensis	IC0587775	TV-29	11086	2011	502.43; triploid stock 28/2	Tarun Sen Barman
1029	Tea	Camellia sinensis	IC0587776	TV-30	11087	2011	523/SP1; 124.48 x TV1	Tarun Sen Barman
1030	Tea	Cam		TV-31	11088	2011	P.492; Stock 19 x Stock 107	Tarun Sen Barman
1031								
1032								
1033								
1034								
1035								
1036								
1037								
1038								
1039								
1040								

STEP - 02

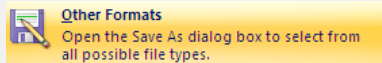
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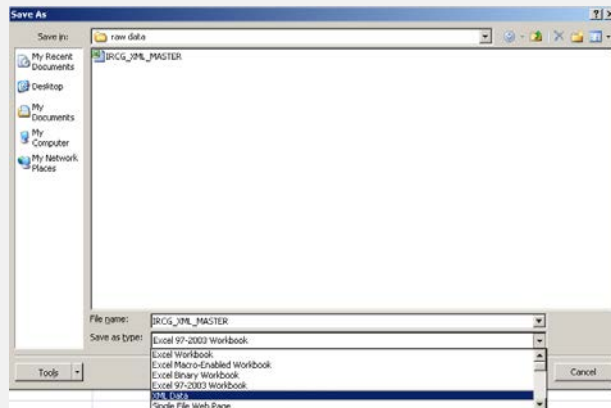
When data entry is done for new germplasm, Click OFFICE icon , select the Save As



Click on Other drop down list, file.



Formats, Select XML Data from File name: revise the name to index, then Save the



Now replace this file (index.xml) to XML database file (\\IRCG\xml\index.xml), soon this file is replaced then IRCG search engine will automatically accept the changes in data and will act accordingly.

However NBPGR will supply the revised XML database file (index.xml) on request, so user only have replace the old file with new one.

For more information regarding IRCG search engine and data, please contact at [aris \(at\) nbpgr.ernet.in](mailto:aris(at)nbpgr.ernet.in)

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