



GMSInput

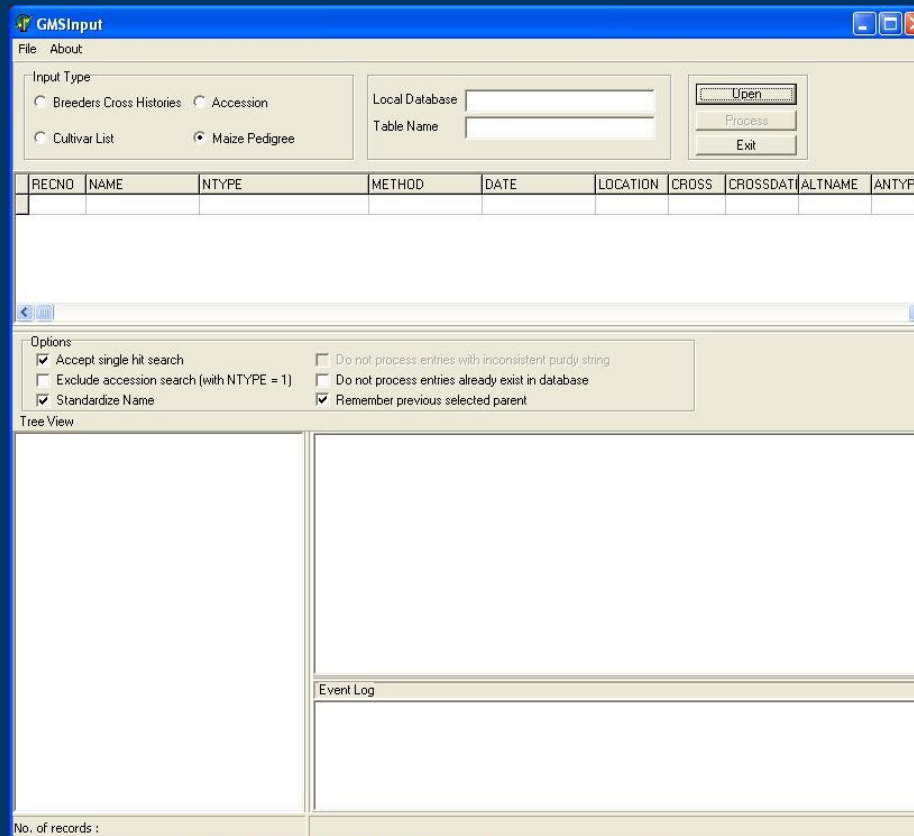
A Batch processing download tool for historical crosses and pedigree selection data

William H. Eusebio



What is GMSInput?

- Application for loading large volumes of historical germplasm data into the GMS database.





Basic functionality

- Parse cross history strings of unknown crosses and look for the for parents in the database.

Example: PR35793 = MATATAG 3//PR33220/MAGNOLIA

GID	Name	Source	Group
1329424	MATATAG 3	IR 68305	IR 68305-18
-1	PR33220	unknown	unknown
421970	MAGNOLIA	BLUE ROSE/FORTUNA	unknown
		Female	Male
-2	PR33220/MAGNOLIA	PR33220	MAGNOLIA
-3	PR35793	MATATAG 3	PR33220/MAGNOLIA



Basic functionality

- Derivative names of the parents are recognized by looking for a cross number followed by letters and numbers separated by dashes. These derivatives are parsed back to crosses where possible.

Example: IR 9000-1-2-3-4

	Source	Group
IR 9000-1-2-3-4	IR 9000	IR 9000-1-2-3
IR 9000-1-2-3	IR 9000	IR 9000-1-2
IR 9000-1-2	IR 9000	IR 9000-1
IR 9000-1	IR 9000	IR 9000
	Female	Male
IR 9000	B 6144 F-MR-6	DAW SAHM DEUAN



Basic functionality

- User can control the selection of parents found in the database, and those not found are added with unknown source and origin.

The screenshot displays the 'Search GMS' application window. At the top, there are input fields for 'Search for name' (containing 'PSB RC 28') and 'or Retrieve GID' (containing '1857446'). Buttons for 'Search', 'More', 'New', 'Select', and 'Cancel' are visible. Below the search fields is a table with columns: Names, Type, Method, Location, and Unique ID.

Names	Type	Method	Location	Unique ID
PSB RC 28	CVNAM	ISE	CHINA	109-4654
PSB RC 28, RC 28, IR 56381-139-2-2, PSBRC 28, AG RELNM	DSP		PHILIPPINES	10-80172

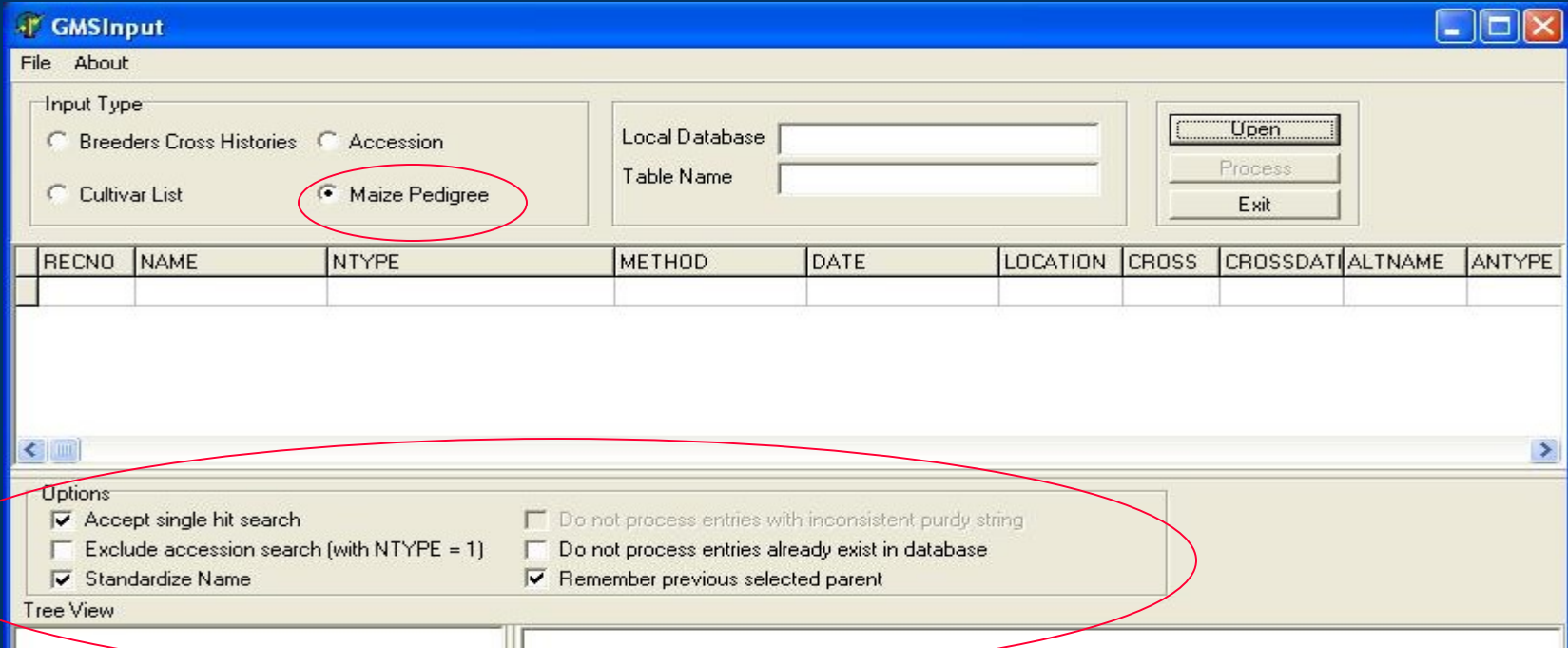
Below the table is a 'Tree' view showing a hierarchical structure of germplasm characteristics for GID: 1857446. The selected node is 'PSB RC 28'. The tree includes nodes for IR 56381, IR 28239-94-2-3-6-2, IR 28239, IR 25621, IR 50, IR 64, IR 18348, IR 5657-33-2-1, and IR 2061-465-1-5-5.

The main panel displays detailed information for the selected 'PSB RC 28' entry:

- Preferred**: Display GID: PSB RC 28, Name Date: 2005- 6- 2, Name Location: CHINA
- Method**: IMPORT, Germ. Date: 2005- 6- 2, Germ. Location: CHINA
- Cross**: IR 19660-152-3/IR 9129-209-2-2//IR 50///IR 5657-33-2-1/IR 206, Levels: 2
- Generation No.**: C2W(F4,S3,M1)ISE, Unique ID: [empty], DrawTree: [button]
- Descendants**: Descendants, Group Relatives
- Group**: IR 56381 (68880), **Source**: PSB RC 28 (80172)
- Alternative Names**: Type Name: CVNAM PSB RC 28
- Attributes**: Type Value: MTA IS2005-009, IPSTAT RESTRICTED - NOT FOR DISTRIB
- List/s where this Germplasm is present**: IS2005-009(1361)



Added feature



- An “Option” panel was added to give users the freedom to setup the appropriate settings.
- “Maize Pedigree” input type was added to handle the CIMMYT’s maize pedigree selection history.



CIMMYT maize pedigree

[[AC8232/[NPPXSC/GWEBI{1}TZMSR-W]#b]#b-144-5-4-1-3-Sn/GQL5]-B-28-1-1-1-B



CIMMYT maize pedigree

[[AC8232/[NPPXSC/GWEBI{1}TZMSR-W]#b]#b-144-5-4-1-3-Sn/GQL5]-B-28-1-1-1-B
+ [[AC8232/[NPPXSC/GWEBI{1}TZMSR-W]-#b]-#b-144-5-4-1-3-Sn/GQL5]



CIMMYT maize pedigree

[[AC8232/[NPPXSC/GWEBI{1}TZMSR-W]#b]#b-144-5-4-1-3-Sn/GQL5]-B-28-1-1-1-B

- [[AC8232/[NPPXSC/GWEBI{1}TZMSR-W]-#b]-#b-144-5-4-1-3-Sn/GQL5]

+ [AC8232/[NPPXSC/GWEBI{1}TZMSR-W]-#b]-#b-144-5-4-1-3-Sn

- GQL5



CIMMYT maize pedigree

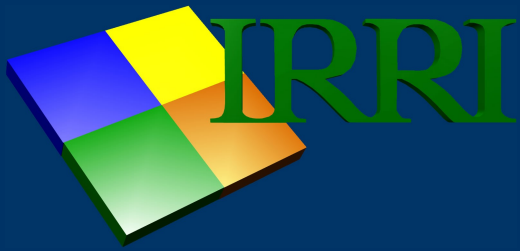
[[AC8232/[NPPXSC/GWEBI{1}TZMSR-W]#b]#b-144-5-4-1-3-Sn/GQL5]-B-28-1-1-1-B

- [[AC8232/[NPPXSC/GWEBI{1}TZMSR-W]-#b]-#b-144-5-4-1-3-Sn/GQL5]

- [AC8232/[NPPXSC/GWEBI{1}TZMSR-W]-#b]-#b-144-5-4-1-3-Sn

+ [AC8232/[NPPXSC/GWEBI{1}TZMSR-W]-#b]

- GQL5



CIMMYT maize pedigree

[[AC8232/[NPPXSC/GWEBI{1}TZMSR-W]#b]#b-144-5-4-1-3-Sn/GQL5]-B-28-1-1-1-B

- [[AC8232/[NPPXSC/GWEBI{1}TZMSR-W]-#b]-#b-144-5-4-1-3-Sn/GQL5]

- [AC8232/[NPPXSC/GWEBI{1}TZMSR-W]-#b]-#b-144-5-4-1-3-Sn

- [AC8232/[NPPXSC/GWEBI{1}TZMSR-W]-#b]

- AC8232

+ [NPPXSC/GWEBI{1}TZMSR-W]-#b

- GQL5



CIMMYT maize pedigree

[[AC8232/[NPPXSC/GWEBI{1}TZMSR-W]#b]#b-144-5-4-1-3-Sn/GQL5]-B-28-1-1-1-B

- [[AC8232/[NPPXSC/GWEBI{1}TZMSR-W]-#b]-#b-144-5-4-1-3-Sn/GQL5]

- [AC8232/[NPPXSC/GWEBI{1}TZMSR-W]-#b]-#b-144-5-4-1-3-Sn

- [AC8232/[NPPXSC/GWEBI{1}TZMSR-W]-#b]

- AC8232

- [NPPXSC/GWEBI{1}TZMSR-W]-#b

+ [NPPXSC/GWEBI{1}TZMSR-W]

- GQL5



CIMMYT maize pedigree

[[AC8232/[NPPXSC/GWEBI{1}TZMSR-W]#b]#b-144-5-4-1-3-Sn/GQL5]-B-28-1-1-1-B

- [[AC8232/[NPPXSC/GWEBI{1}TZMSR-W]-#b]-#b-144-5-4-1-3-Sn/GQL5]

- [AC8232/[NPPXSC/GWEBI{1}TZMSR-W]-#b]-#b-144-5-4-1-3-Sn

- [AC8232/[NPPXSC/GWEBI{1}TZMSR-W]-#b]

- AC8232

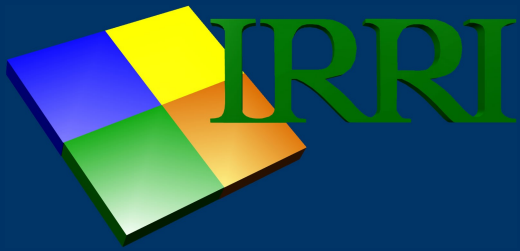
- [NPPXSC/GWEBI{1}TZMSR-W]-#b

- [NPPXSC/GWEBI{1}TZMSR-W]

- NPPXSC

+ GWEBI{1}TZMSR-W

- GQL5



CIMMYT maize pedigree

[[AC8232/[NPPXSC/GWEBI{1}TZMSR-W]#b]#b-144-5-4-1-3-Sn/GQL5]-B-28-1-1-1-B

- [[AC8232/[NPPXSC/GWEBI{1}TZMSR-W]-#b]-#b-144-5-4-1-3-Sn/GQL5]

- [AC8232/[NPPXSC/GWEBI{1}TZMSR-W]-#b]-#b-144-5-4-1-3-Sn

- [AC8232/[NPPXSC/GWEBI{1}TZMSR-W]-#b]

- AC8232

- [NPPXSC/GWEBI{1}TZMSR-W]-#b

- [NPPXSC/GWEBI{1}TZMSR-W]

- NPPXSC

- GWEBI{1}TZMSR-W

- GWEBI{1}TZMSR

- GQL5