

# NEW RELEASE

Memo no. 2022-02 June 2022

# BMS v21

We are happy to release v21 of BMS Pro, with the following improved features:

What's new in **BMS v21**?

- **Lot creation:** You can now create inventory lots from planted material directly, without generational advancement.
- **Coefficient of parentage (Beta version):** You can now calculate the pedigree coefficient of parentage for a limited set of germplasm. More to come soon!
- **Import files associated to environments:** You can now upload files and photos associated to the study environments details or conditions.
- **Graphical filtering tool:** You can now filter by your favorite locations and export transposed versions of your dataset.

## Highlights:

The Coefficient of Parentage (COP), also known as the Coefficient of Kinship measures the genetic relationship between strains of germplasm according to the proportion of identical alleles that they share by descent through their pedigrees. COP values are therefore important measures of genetic diversity. Two times the COP value is known as the Coefficient



9  
BUG  
FIXES

of Relationship and is related to the additive genetic correlation between the strains. This makes them a powerful statistic for analyzing breeding strategies. In this version of the BMS we have launched beta functionality that gives the users the possibility to select a limited set of germplasm within a list and launch the calculation. Results can be exported in excel file.

Further improvements of this tool will include scaled-up performance and visualization/clustering tools.

	I GEO TZE	IR 2	BPI 76	IR 3	H 105	IR 4	PETA	TANGKAI ROTAN	IRO0A118	IR 5-CROSS	SIA	ENTRY_SOURCE
5	I GEO TZE	0.9688	0.4844	0	0	0	0	0	0	0	0	Unknown
6	IR 2	0	0.5	0	0	0	0	0	0	0	0	Unknown
7	BPI 76	0	0	0.9688	0.4844	0	0	0	0.0318	0	0	Unknown
8	IR 3	0	0	0	0.5	0	0.2422	0	0	0.0855	0	Unknown
9	H 105	0	0	0	0.9688	0.4844	0	0	0	0	0	Unknown
10	IR 4	0	0	0	0	0.5	0	0	0.0697	0	0	Unknown
11	PETA	0	0	0	0	0	0.5	0	0.1355	0.25	0	Unknown
12	TANGKAI ROTAN	0	0	0	0	0	0	0.9688	0	0.4344	0	Unknown
17	IRO0A118	0	0	0	0	0	0	0	0.991	0.0878	0	Unknown
8	IR 5-CROSS	0	0	0	0	0	0	0	0	0.5	0	Unknown
9	SIAM 29 (ACC 42)	0	0	0	0	0	0	0	0	0	0.9	Unknown
10	IR 6	0	0	0	0	0	0	0	0	0	0	Unknown
11	IR 7	0	0	0	0	0	0	0	0	0	0	Unknown
12	IR 8-CROSS	0	0	0	0	0	0	0	0	0	0	Unknown
13	IRO0A117	0	0	0	0	0	0	0	0	0	0	Unknown

If you are already using BMS Pro within your organization, the IBP Deployment Manager assigned to your server instance will be in contact with you to upgrade to the latest version. Otherwise, BMS Pro is available upon request. Contact us for a guided demo: [www.bmspro.io](http://www.bmspro.io)

### Useful Links

- ✓ [Frequently Asked Questions](#)
- ✓ [Help Desk](#)
- ✓ [Support articles \(How to and trouble shooting\)](#)



**BMS Pro: better data, better crops.**  
A product of the Integrated Breeding Platform  
[www.integratedbreeding.net](http://www.integratedbreeding.net)

