



EURISCO and Genesys





“Genesys is a global portal to information about Plant Genetic Resources for Food and Agriculture (PGRFA). It is a gateway from which germplasm accessions from genebanks around the world can be easily found...”



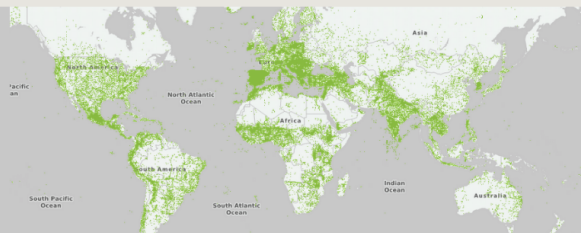
Welcome to Genesys - the Global Gateway to Genetic Resources

Genesys is a global portal to information about Plant Genetic Resources for Food and Agriculture (PGRFA). It is a gateway from which germplasm accessions from genebanks around the world can be easily found and ordered.

[READ MORE ABOUT GENESYS](#)

ACCESSION MAP

The map shows the collecting site of geo-referenced accessions.



2,664,574 Accessions
44B Institutes



SEARCH GENESYS...

Please enter your search query.



ORGANIZATIONS AND PROJECTS

CGIAR International Genebanks • ECPGR EURISCO network • USDA ARS NPGS • COGENT CWR Project



HELP

Visit the tutorials section to learn how to use Genesys.

RECENT ACTIVITY



Australian Pastures Genebank

[Add new post](#)

Passport data on 83,465 accessions from Australian Pastures Genebank is now also published on Genesys!

Last updated by Matija Obreza 3 weeks ago Sep 26, 2016

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Genesys News Atom Feed

The recent Genesys activity is also available as an Atom feed. Add <https://www.genesys-pgr.org/content/news/feed.atom> to your Feed reader.

Last updated by Matija Obreza 2 months ago Aug 9, 2016

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Genesys and the MCPD CROPNAME descriptor

Genesys now allows data providers to specify the CROPNAME when uploading accession passport data. Genesys had previously used taxonomic information to assign an accession to a crop. With this update, genebanks are able to precisely specify accession's crop name instead of relying on complicated taxonomic rules.

Data providers should use the 1.1 version of [Genesys Anno](#) tool which supports the CROPNAME descriptor.

GENESYS NEWSLETTER

Want to keep up to date with our latest news and information? Send an email message to the list to subscribe to the Genesys Newsletter.

CROP LIST

[Rebuild](#)

All crops

- Apple
- Banana
- Barley
- Beans
- Breadfruit
- Cassava
- Chickpea
- Coconut
- Cowpea
- Eggplant
- Faba bean

Statistical overview

A statistical overview of the information stored in Genesys for the currently applied filters – everything from the total number of accessions by country, to the diversity of the collections.

[Back](#)
[Browse accessions](#)
[View map](#)

Holding institutes

Holding Institute

| | | |
|--------------|---------|--------|
| MEX002 | 164,094 | 6.16% |
| SYR002 | 146,729 | 5.51% |
| USA029 | 141,924 | 5.33% |
| DEU146 | 137,007 | 5.14% |
| PHL001 | 126,954 | 4.77% |
| RUS001 | 123,430 | 4.63% |
| IND002 | 123,023 | 4.62% |
| USA022 | 98,331 | 3.69% |
| USA016 | 94,352 | 3.54% |
| AUS167 | 83,465 | 3.13% |
| GBR004 | 68,641 | 2.58% |
| COL003 | 64,721 | 2.43% |
| TWN001 | 60,426 | 2.27% |
| BGR001 | 57,048 | 2.14% |
| POL003 | 56,215 | 2.11% |
| USA020 | 53,802 | 2.02% |
| HUN003 | 46,750 | 1.76% |
| CZE122 | 43,151 | 1.62% |
| UKR001 | 35,120 | 1.32% |
| USA970 | 33,960 | 1.28% |
| <i>Other</i> | 904,343 | 33.95% |

Country of holding institute

| | | |
|--------------------------|---------|--------|
| United States of America | 639,685 | 24.02% |
| Germany | 173,981 | 6.53% |
| Mexico | 164,094 | 6.16% |
| Syria | 146,729 | 5.51% |
| United Kingdom | 144,627 | 5.43% |
| Philippines | 126,954 | 4.77% |
| Russia | 123,430 | 4.63% |
| India | 123,023 | 4.62% |
| Ukraine | 98,089 | 3.68% |
| Australia | 83,747 | 3.14% |
| Spain | 71,933 | 2.70% |
| Colombia | 64,721 | 2.43% |
| Italy | 62,282 | 2.34% |
| Bulgaria | 61,462 | 2.31% |
| Taiwan | 60,426 | 2.27% |
| Poland | 58,934 | 2.21% |
| Czech Republic | 53,240 | 2.00% |
| Hungary | 46,750 | 1.76% |
| Romania | 45,208 | 1.70% |
| Switzerland | 41,165 | 1.55% |
| <i>Other</i> | 273,006 | 10.25% |

Composition of genebank holdings

Crop name

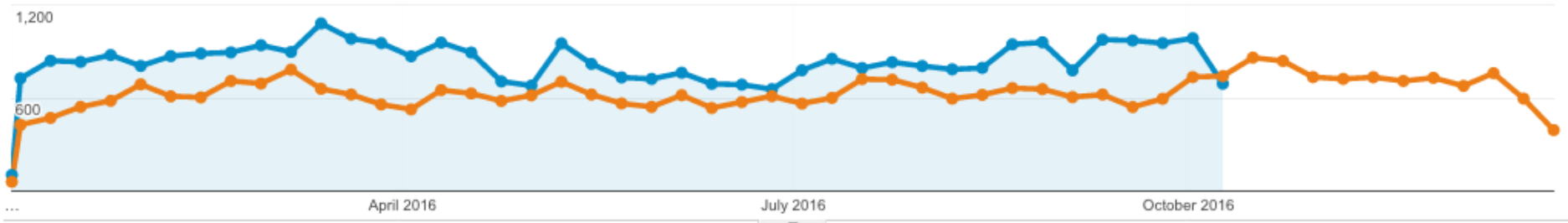
| | | |
|---------|---------|--------|
| Wheat | 378,299 | 14.20% |
| Rice | 208,233 | 7.82% |
| Barley | 176,130 | 6.61% |
| Maize | 128,476 | 4.82% |
| Beans | 108,577 | 4.08% |
| Sorghum | 97,225 | 3.65% |
| Forages | 83,465 | 3.13% |

Biological status of accession

| | | |
|-------------------------------|---------|--------|
| Traditional cultivar/Landrace | 706,125 | 26.51% |
| Advanced/improved cultivar | 323,060 | 12.13% |
| Wild | 322,993 | 12.13% |
| Breeding/Research Material | 305,645 | 11.48% |
| Other | 190,127 | 7.14% |
| Breeders Line | 120,112 | 4.51% |
| Natural | 88,243 | 3.31% |

Jan 1, 2016 - Oct 14, 2016: ● Sessions

Jan 1, 2015 - Dec 31, 2015: ● Sessions



Sessions
4.60%
 34,726 vs 33,200

Users
3.87%
 26,116 vs 25,143

Pageviews
2.79%
 210,203 vs 204,490

Pages / Session
-1.72%
 6.05 vs 6.16

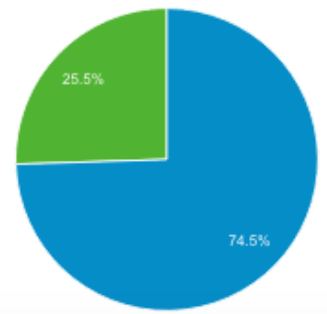
Avg. Session Duration
2.50%
 00:03:50 vs 00:03:44

Bounce Rate
2.63%
 61.17% vs 59.60%

% New Sessions
-1.04%
 74.43% vs 75.21%

■ New Visitor ■ Returning Visitor

Jan 1, 2016 - Oct 14, 2016



Jan 1, 2015 - Dec 31, 2015

Genesys Data Providers

- EURISCO, USDA GRIN
- 11 CGIAR genebanks: CIP, CIAT, CIMMYT, ICARDA, AfricaRice, Bioversity, IITA, ILRI, ICRAF, ICRISAT, IRRI
- Individual genebanks: MSB Kew, WGRC KSU, WorldVeg, APG
- Coming soon: RDA South Korea, EMBRAPA

Genesys development

- Publicly available source code repositories since the official release in 2014
 - Open-source Apache v2 license
 - <https://bitbucket.org/genesys2>
 - <https://gitlab.croptrust.org/groups/genesys-pgr>
- Toolbox
 - Genesys API and client libraries
 - Data uploader, Taxonomy checker, Geo tools

Activities

- Coordination
 - Engaging data providers to update data
- Capacity building and support
 - Documentation workshops, standards and tools
 - Additional data validation and feedback to data providers
 - Facilitate knowledge exchange and best practice
- Make data available to the public
 - “Public interface”, requests for material
 - Resolving data licensing issues
- Publication on GBIF?

EURISCO

- EURISCO role in the Community
 - Coordination of regular updates
 - Capacity building and support with data quality
 - Provides a public interface
 - Facilitates knowledge exchange and best practice
- Provides “clean” dataset to Genesys!

EURISCO and Genesys

- Community
- Best practice
- Data standards
- Data validation
- Support
- **Data publication**

<https://www.genesys-pgr.org>