



Food and Agriculture
Organization of the
United Nations



The International Treaty
ON PLANT GENETIC RESOURCES
FOR FOOD AND AGRICULTURE

Implementation of the Global Information System and DOIs

12 – 14 December 2017, Cape Town, South Africa

Background

The Multilateral System (MLS) and the Global information System (GLIS)

- GLIS facilitates access to information about Plant Genetic Resources for Food and Agriculture (PGRFAs) as a form of **non-monetary benefit**
 - Scope is all PGRFA, not just genebanks
- Based on existing systems
 - Links existing systems
 - Does not duplicate existing systems

Why DOIs?

The community agreed on the need of accurately and permanently identifying PGRFAs

- The Secretariat conducted:
 - a study on available technologies
 - a survey among over 200 experts worldwide
 - a validation study involving 23 selected experts
- The outcome of the process was the adoption of Digital Object Identifiers (DOIs) by the Scientific Advisory Committee (SAC) on the Global Information System

DOI's main facts

- International DOI Foundation created in 1996 by the three major international publishing trade associations
- ISO 26324 standard
- About 150 Million DOIs registered so far, with an annual growth rate of 16%
- IDF maintains the Global DOI System (network of redundant servers worldwide)

Documentation published online

- **Descriptors** associated to the DOI
 - Based on Multi Crop Passport Descriptors with some extensions
 - **Mandatory:** Holder, species, method, date, local identifier
 - **Recommended:** Biological status, MLS status, links to websites etc.
 - **Additional:** Information on collecting, breeding, etc.
- **Guidelines** with concrete use cases to help integrate DOIs in existing genebank workflows
 - Working on more areas (e.g. in-situ and breeding)
- Formats and protocols for registration, update and transfer notification
- Documentation available at <http://www.fao.org/plant-treaty/areas-of-work/global-information-system>

GLIS Registration Service: DOIs online



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Home

Login

185,428 DOIs assigned so far

Welcome to the DOI Registration Service of the Global Information System of the [International Treaty on Plant Genetic Resources for Food and Agriculture](#).

This service assigns Digital Object Identifiers (DOIs) to Plant Genetic Resources for Food and Agriculture (PGRFA) for reference in third party systems and scientific literature.

Access to the system is free and open to anyone.

If you wish to obtain DOIs for your PGRFA, please send an email to PGRFA-Treaty@fao.org requesting a user account.

By using this system you declare to have read and accepted the [Terms of use](#).

Type the DOI of the PGRFA you
want to find



Search

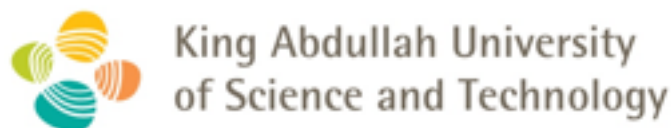
or go to the [advanced search form](#)

30 October 2017

Partnerships

- FAO: CIO, WIEWS, AGP, OPC
- CGIAR Genebank and Plant Breeding Platforms
- Genesys
- ECPGR EURISCO
- USDA-ARS
- GODAN
- SDIS
- CBD
- CAPFITOGEN
- GRIN-Global
- IRRI B4R

Pioneer DOI registrants



The Scientific Advisory Committee

Advises the Secretariat and provides:

- Recommendations on the development and deployment of GLIS
- Advice on improving the documentation
- Advice on relevant new areas of work
- Advice on selection of pilot activities

Two meetings of the SAC held so far

- November 2016 – endorsement of DOIs and descriptors
- June 2017 – adoption of the Guidelines

Capacity building

A three-year project funded by Germany is underway to:

- Promote the adoption of DOIs
- Contribute to the development and hosting of GLIS in FAO
- Provide capacity building support in NENA and SADC regions
- Strengthen existing networks using EURISCO as model

Activities and calls for support in Regions:

- Indonesia-IRRI project funded by the Benefit-sharing Fund to create capacity for the registration of rice accessions in GLIS and SMTA reporting in Easy-SMTA
- GRULAC has requested support for the adoption of DOIs and the connection of existing systems to GLIS

In collaboration with FAO's OPC:

- Webinars on DOIs and application of DOIs to PGRFA in GLIS

Near East and North Africa Workshop and Scientific Advisory Committee



Next steps

- Further promote the adoption of DOIs and scale-up the registration of PGRFA in GLIS
- Build relationships among PGRFAs and provide advanced query and visualization tools
- Improve documentation and extend use cases to other communities
- Promote DOIs for datasets related to PGRFA DOIs
- Improve documentation systems and data quality
- Develop other functions of the GLIS Portal and other activities of the adopted Programme of Work
- Mobilise additional resources to facilitate the implementation of GLIS
- Serve the work of the Scientific Advisory Committee

Resolutions on GLIS

- The implementation is reported in document IT/GB-7/17/14
- Draft resolution on 12 points
- The role of the SAC is expanded to include consideration of scientific and technical issues of relevance to genetic sequence information and their implications for the implementation of the International Treaty. CPs also invited to provide views and information to relevant fora
- Integrate the elements on the relationship with DivSeek
- Call for resources to implement the POW
- Progress report to be presented at the Eighth Session, based on the recommendations of the SAC

RECAP

In only 2 years the text of the Resolution became operational:

- DOIs Descriptors and guidelines adopted
- DOI Registration Module up and running
- GLIS online in collaboration with FAO
- Connections with other Systems – CGIAR Genebanks, Genesys, NordGen, IPK, Netherlands – masterplan to be developed
- More than 185,000 DOIs registered so far
- More than 30 trainees in NENA, more in SADC upcoming
- Other functions to be developed for the Portal
- More resources to be mobilised

Thank you!

Q & A

PGRFA-Treaty@fao.org