

GRIN-Global

New Gene bank management system
GRIN Czech



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The Germplasm Resources Information Network (GRIN) is superior American genebank information management system

Its successor for global use, GRIN-Global developer by the USDA-ARS in cooperation with Bioversity International and the Global Crop Diversity Trust

GRIN-Global is powerful, flexible, easy-to-use PGR information system



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GRIN Czech based on the system GRIN-Global was launched in the Czech Republic to replace old system EVIGEZ

EVIGEZ no longer fulfilled the requirements of modern documentation system

- on-line access of crop curators
- detail documentation of sets of characterization and storage data
- picture database and other aspects



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System EVIGEZ and GG contained the same basic parts consisting of passport, characterization and inventory data but they had a different structures

For proper data migration there was necessary to analyse the structure of two databases to avoid losing of any recorded information

GG allows recording of more detailed information on GR and on individual seed lots for conservation, including uploading of images, sets of molecular data



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The greater difference between both systems was in plant taxonomy because EVIGEZ was based on small species concept including subspecific classification (varieties are also determined) than used in taxonomy GG

The problem was currently solved using synonyms in taxonomic tables and no data was lost

The department USDA-ARS gradually includes missing verified varieties into the taxonomic system



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In Gene bank Prague for identification of botanical varieties in *Triticum* species we use **taxonomic treatment based on Dorofeev et al. (Flora of cultivated plants, I., Wheat, 1979)** classifications

For passport part and evaluation part of PGR we used **Descriptor list genus *Triticum* L. (Bareš et al., 1985)**; code list of scientific names is including



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Access to database of GRIN Czech is on-line via web site

Ordering of genetic resources is available via „shopping cart“

Change of GB management system will contribute to improving the quality of work of the gene bank, and thus improving the quality of services for users of genetic resources



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<https://grinczech.vurv.cz/gringlobal/search.aspx>

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<input type="checkbox"/>	01C0105610	Vlasta	Triticum aestivum var. lutescens	Czech Republic	Seed	CZE122	Add to Cart	
<input type="checkbox"/>	05L0200217	Vlasta	Pisum sativum	Czechoslovakia	Seed	CZE122	Add to Cart	
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01C0105610

Triticum aestivum L. var. lutescens

'Vlasta'

Status:	Available
Amt Distributed:	100
Type Distributed:	Seed

Developed from:	Czech Republic
Maintained by:	Genebank Dept.-Div. Genet. & Plant Breed.- Res. Inst. Crop Production
NPGS received:	01-I-1995
PI assigned:	1995
Backup location:	Research Institute of Plant Production
Life form:	Annual
Pedigree:	Hana//Brimstone/S 13;
Improvement status:	Advanced/improved cultivar
Reproductive uniformity:	
Form received:	Seed

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Accession names and identifiers

Vlasta

Type: Cultivar name

RU 488

Type: Donor identifier

Intellectual Property Rights

FAO Standard Material Transfer Agreement

Date Issued:

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Narrative

Curator: Jiří HERMUTH, [Genebank Dept.-Div. Genet. & Plant Breed.- Res. Inst. Crop Production \(CZE122\)](#)

Source History

- Accession was donated. 16-I-1996. Czech Republic
- Accession was developed. 16-I-1996. Czech Republic

Pedigree

Hana//Brimstone/S 13;

Observations

Click link below to see detailed observation data:

[Detailed Accession Observation Page](#)

Characterization and Evaluation Data:

Category	CHEMICAL			CYTOLOGIC	DISEASE				GROWTH	
Descriptor	Grain - crude protein content	Grain - starch content (Evers method)	Groats - sedimentation (SDS)	Presence Rht2 gene	Brown rust - resistance	Powdery mildew - plant - resistance	Stem rust - resistance	Stripe rust - resistance	Plant - height	Plant - t shape (tillering)
Value	5 - medium 12,7-13,8 %	4 - low-intermediate 62,1-64%	7 - good 5,1-7,0 ml	1 - present	5 - medium (medium resistant)	7 - high (high-resistant)	3 - low (sensitive)	6 - medium (medium resistant) - high (high-resistant)	5 - medium 81- 95 cm	5 - droopir 41-55°
Study/Environment	2012 Genebank Dept.-Div. Genet. & Plant Breed.- Res. Inst. Crop Production (01C0105610)	2012 Genebank Dept.-Div. Genet. & Plant Breed.- Res. Inst. Crop Production (01C0105610)	1998 Genebank Dept.-Div. Genet. & Plant Breed.- Res. Inst. Crop Production (01C0105610)	2002 Genebank Dept.-Div. Genet. & Plant Breed.- Res. Inst. Crop Production (01C0105610)	2008 Genebank Dept.-Div. Genet. & Plant Breed.- Res. Inst. Crop Production (01C0105610)	2012 Genebank Dept.-Div. Genet. & Plant Breed.- Res. Inst. Crop Production (01C0105610)	2002 Genebank Dept.-Div. Genet. & Plant Breed.- Res. Inst. Crop Production (01C0105610)	2002 Genebank Dept.-Div. Genet. & Plant Breed.- Res. Inst. Crop Production (01C0105610)	2012 Genebank Dept.-Div. Genet. & Plant Breed.- Res. Inst. Crop Production (01C0105610)	2002 Genebank Dept.-Div. Genet. & Plant Breed.- Res. Inst. Crop Production (01C0105610)



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01C0502185

Hordeum distichon L. var. nutans Schubl.

'KWS Ariane'

Origin from:	Germany
Maintained by:	Crop Research Institute, Prague, Gene Bank
Received:	2015
PI assigned:	
Growth class:	winter
Backup location:	
Life form:	Annual
Pedigree:	unknown
Improvement status:	Advanced/improved cultivar
Reproductive uniformity:	
Form received:	Seed

Status:	Not Available
Amt Distributed:	0
Type Distributed:	

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(Not available to order)

Accession names and identifiers

KWS Ariane

Type: Cultivar name

KW 2 - 822

Type: Other or unclassified name

Hordeum vulgare distichon var. nutans

Type: Full taxon

Intellectual Property Rights

MLS

Comment: Multi-Lateral System FAO item

Date Issued:

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Thank you for your attention!