

# GRIN-Global

## New Gene bank management system GRIN Czech



# GRIN-Global

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



# GRIN-Global

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 evalaution 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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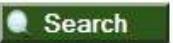
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<input type="checkbox"/> Group By: Plant ID	Plant Name	Taxonomy	Origin	Material	Maintained By	Availability	
<input type="checkbox"/> 01C0105610	Vlasta	<a href="#">Triticum aestivum var. lutescens</a>	Czech Republic	Seed	<a href="#">CZE122</a>	<a href="#">Add to Cart</a>	
<input type="checkbox"/> 05L0200217	Vlasta	<a href="#">Pisum sativum</a>	Czechoslovakia	Seed	<a href="#">CZE122</a>	<a href="#">Add to Cart</a>	
<input type="checkbox"/> 07S0102150	Vlasta	<a href="#">Solanum tuberosum</a>	Czech Republic	In vitro collection (slow growth)	<a href="#">CZE027</a>	<a href="#">Add to Cart</a>	
<input type="checkbox"/> 13T0100384	Vlasta	<a href="#">Medicago sativa</a>	Czechoslovakia	Seed	<a href="#">CZE122</a>	<a href="#">Not Available</a>	
<input type="checkbox"/> 45DH300424	Vlasta	<a href="#">Iris hybr.</a>	Czech Republic	on farm	<a href="#">CZE042</a>	<a href="#">Add to Cart</a>	

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01C0105610

**Triticum aestivum L. var. lutescens**

'Vlasta'

Developed from:	Czech Republic
Maintained by:	<a href="#">Genebank Dept.-Div. Genet. &amp; Plant Breed.- Res. Inst. Crop Production</a>
NPGS received:	01-1-1995
PI assigned:	1995
Backup location:	<a href="#">Research Institute of Plant Production</a>
Life form:	Annual
Pedigree:	Hana//Brimstone/S 13;
Improvement status:	Advanced/improved cultivar
Reproductive uniformity:	
Form received:	Seed

 Add to My Favorites Add to Order**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 - tiller 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:	<a href="#">Crop Research Institute, Prague, Gene Bank</a>
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!