



➤ IWGSC Data Repository news and WheatIS overview

IWGSC Business Meeting



➤ IWGSC Data Repository news

February 2022:

- Data from the reference sequence of the Turkish elite cultivar Sonmez are now available to **download** (IWGSC **news**).

April 2021:

- **IWGSC RefSeq v2.1** assembly and annotation is available in open access to download, BLAST and display in a browser (IWGSC **announcement**).

July 2020:

- Chromatin accessibility data are **available** in open access (E. Akhunov).



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➤ IWGSC Data Repository news

The screenshot displays the IWGSC BLAST web interface. At the top, there is a navigation bar with 'Genome', 'Track', 'View', 'Help', and 'How to cite this resource'. Below this is a genomic scale from 0 to 350,000,000. A track on the left shows various annotations including 'Reference sequence', 'HighConfidenceGenesv2.1', 'LowConfidenceGenesv2.1', 'TaBW280K', 'ClariTE_annotation', and 'Chr1A_DTX_famn10_000040'. The main content area is titled 'IWGSC BLAST' and contains 'BLAST parameter settings' with a text input field for query sequences, a file upload button, and a dropdown menu for database selection. The dropdown menu is open, showing options for 'IWGSC RefSeq v2.1 all chromosomes' and individual chromosomes 1A through 7A. Below the settings is a table of search results.

Query	Databanks	Subject	BEST HSP						
			Score	Identities (Query length)	Percentage	Expect	Start	End	
Synth12	IWGSC RefSeq v2.1 chromosome 3B only	<input type="checkbox"/> Chr3B	2805	1559/1560 (1560)	99	0.0	16057592	16059150	
Synth12	IWGSC RefSeq v2.1 chromosome 4A only	<input type="checkbox"/> Chr4A	848	630/731 (1560)	86	0.0	588816565	588817281	
Synth12	IWGSC RefSeq v2.1 chromosome 7D only	<input type="checkbox"/> Chr7D	845	633/732 (1560)	86	0.0	74968086	74968795	
Synth12	IWGSC RefSeq v2.1 chromosome 5A only	<input type="checkbox"/> Chr5A	836	625/731 (1560)	85	0.0	652964188	652964894	
Synth12	IWGSC RefSeq v2.1 chromosome 3D only	<input type="checkbox"/> Chr3D	816	631/752 (1560)	84	0.0	604203107	604203813	
Synth12	IWGSC RefSeq v2.1 chromosome 7A only	<input type="checkbox"/> Chr7A	814	634/744 (1560)	85	0.0	641413686	641412970	



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➤ IWGSC Data Repository metrics

IWGSC Data Repository resources	2020	2021	2022
Data Repository website visits	34525	30249	29160
Downloads	34236	36309	25240
Genome browsers visits	82834	31261	34171
BLAST searches	82968	94920	54029



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➤ WheatIS news

- New version of the WheatIS Data Discovery tool
 - Ontologies
 - BrAPI sources

wheatIS WHEAT INFORMATION SYSTEM WHEAT INITIATIVE Home Wheat@URGI More... ▾

Data providers

WheatIS DataDiscovery

Examples: yield, fhb

IWGSC@GnpIS [19,195,264]

- brapi@INRAE-URGI [15,949]
- OpenMinTeD@GnpIS [1,692]
- WheatIS File Repository [6]

EBI

- Ensembl Plants [3,071,189]

IPK

- CR-EST [199,220]
- GEBIS [51,820]
- MetaCrop [355]

Gramene

- Gramene [229,851]

T3

- The Triticeae Toolbox [206,406]
- UniProt by T3 [16,607]

UWA

- Wheat Pangenome [167,167]

Rothamsted Research

- KnetMiner [108,474]

GrainGenes

- GrainGenes [20,190]
- Komugi wheat gene catalog by GrainGenes [3,119]

PGSB

- CrowsNest [13,324]

CIMMYT

- CIMMYT Publications [1,600]
- CIMMYT Datasets [183]

EVA

- brapi@EVA [710]



> WheatIS news

- Short demo

<https://urgi.versailles.inrae.fr/wheatis/>



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➤ WheatIS plan

- Data updates of existing sources
 - Ensembl, GrainGenes, Gramene
- Addition of new IWGSC sources
 - Apollo from Australia
- Promotion of the WheatIS Data Discovery tool
 - Talks
 - Videos
- Workshop to support the use of the wheat gene nomenclature and guidelines

