



User Training Workshop: GnplS tool training session

Survey sequence, physical map integrated to GnplS

Michael Alaux

Wheat website @ URGI



Wheat website

Wheat

- [Sequence Repository](#)
- [Projects](#)
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URGI PLANT AND FUNGI DATA INTEGRATION

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SEARCH OK ?

Species

Vitis
Wheat

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Botrytis
Leptosphaeria
Microbotryum
Venturia
Arabidopsis
Oryza
Populus
Maize
Medicago
Pisum
Flax

You are here : Home / Home URG / Species / Wheat

Wheat

No one can be a statesman who is entirely ignorant of the problems of wheat (Socrates, 470-399BC).

New IWGSC Survey Sequence Repository is available !



Why develop Wheat genomics?

Today, agriculture is facing one of its greatest challenges since it began 10 000 years ago, that of producing an ample supply of high quality food and feed for a growing world population in a sustainable and environment friendly manner. Bread wheat (*Triticum aestivum L.*) is the staple food for more than 35% of the people and is grown on over 95% of the wheat growing area. Its sequence holds the key to genetic improvements that will allow growers to meet the increasing demands for high quality food and feed produced in an environmentally sensitive, sustainable, and profitable manner. Further, because of its recent history, hexaploid wheat is a very good model to study polyploidy, a driving evolutionary force for more than 90% of all plants.

The International Wheat Genome Sequencing Consortium (IWGSC), was established by a group of plant scientists, breeders, and growers dedicated to sequencing the wheat genome to enhance our knowledge of the structure and function of the wheat genome. By gaining increased understanding of the biology of agronomically important traits and deploying state-of-the-art molecular tools, plant scientists and breeders will be able to accelerate wheat improvement to meet the challenges of the 21st century. The IWGSC is committed to ensuring that the sequence of the wheat genome and the resulting DNA-based tools are available for all to use without restriction.

The European Triticeae Genomics Initiative (ETGI) is a platform for the coordination and representation of Triticeae (Wheat, barley, rye) genomics research at the European level and serves as a link to the International research community represented by the International Triticeae Mapping Initiative (ITMI). ETGI consists of European scientists from public and private research institutes who are interested in developing complementary and coordinated research projects on Triticeae genomics to pave the way for a better understanding of crop plant systems biology and, thereby, enable substantial improvements of these essential crop species for the EU and world agriculture. ETGI partners coordinate applications for national and European research and training projects to assist in strengthening and structuring of the European Research Area (ERA). For three years beginning in 2007, ETGI networking activities are supported by the COST action "Tritigen" (FA0604).



<http://urgi.versailles.inra.fr/Species/Wheat>

Wheat website

Wheat

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3BSeq



Sequencing, annotation and characterization of the bread wheat chromosome 3B
3BSeq is a flagship project funded by the ANR and France Agrimer for a duration of 3 years (2010-2013). The website and data from the 3BSEQ project are ...

TriticeaeGenome



Improvement of Triticeae genomics
TriticeaeGenome project is a european EC 7th Framework Program (-Food, Agriculture and Fisheries) project, where INRA URGI platform is in partnership. TriticeaeGenome goal is to improve the genomics of Triticeae (wheat, barley). It is a large collaborative international project coordinated ...

BreedWheat



Breeding for economically and environmentally sustainable wheat varieties: an integrated approach from genomics to selection.
BREEDWHEAT project is a long-term public-private research initiative coordinated by Catherine Feuillet from INRA-GDEC. In total, 39 M€ is being invested over 9 years by 26 French partners, including ...

Wheat Initiative



Launch of the Wheat Initiative, 15 September 2011
The Wheat Initiative (International Research Initiative for Wheat Improvement) was officially launched on the 15th of September 2011 (see). The Wheat Initiative, proposed by research and funding organisations from several countries (see

Wheat website

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	free access data		registered access data
--	------------------	--	------------------------

Sequence survey		
Physical maps : 3B (v1 v2), 1BL (v1 v2), 1AS, 1AL, 3DS and 3DL		
Annotations : 13 contigs of 3B		
Deletion bins of 3B chromosome		
Genetic maps		
QTL, MetaQTL		
Markers		
Genetic resources		
EST		
SNP		

Wheat website

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Public data

Genetic maps	26
Physical maps	3
Reference sequence chromosomes	1
Survey sequence chromosomes	21
QTL	324
Markers	19029
Accessions	2245
SNP	10819
EST	544529

<http://urgi.versailles.inra.fr/Species/Wheat>

Wheat website

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	free access tool		registered access tool
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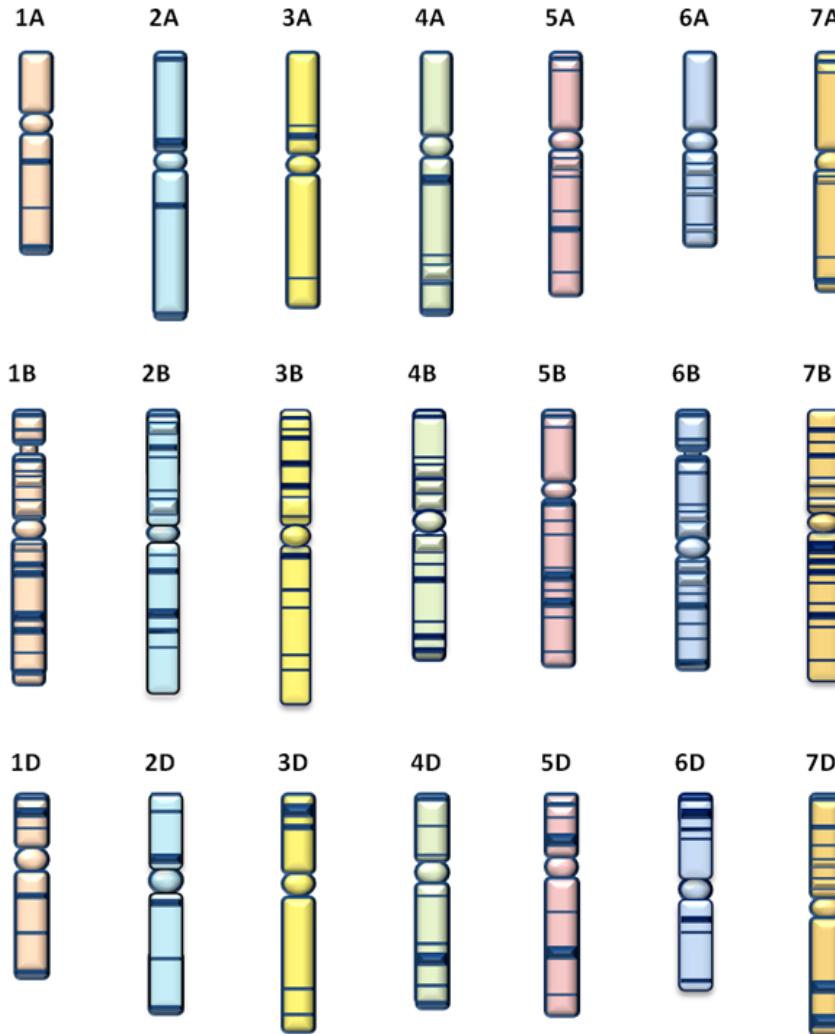
TriAnnot Pipeline		
Quick search		
Taxon card		
Physical map viewer		
Annotation viewer		
dbWFA		

<http://urgi.versailles.inra.fr/Species/Wheat>

Wheat website

Wheat

- Sequence Repository** (highlighted with a red oval)
- Projects
- Data
- Tools
- Triannot Pipeline
- Deletion Bins
- Publications
- Links

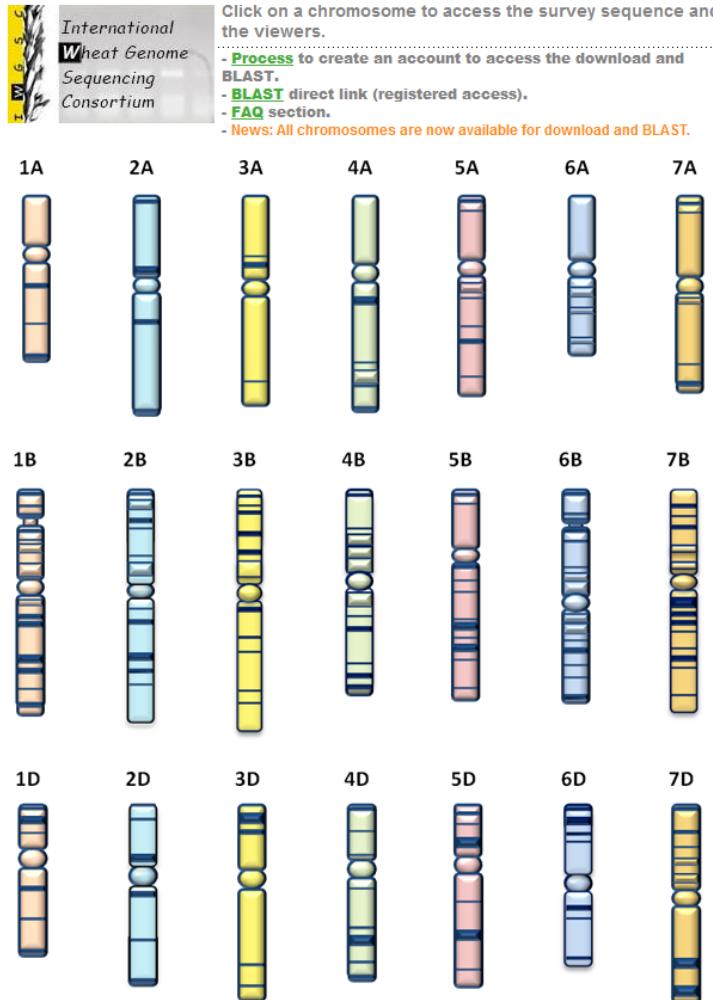


<http://urgi.versailles.inra.fr/Species/Wheat>

Survey Sequence & Physical maps



Survey Sequence Repository



Click on a chromosome to access the survey sequence chromosome arm assemblies for:

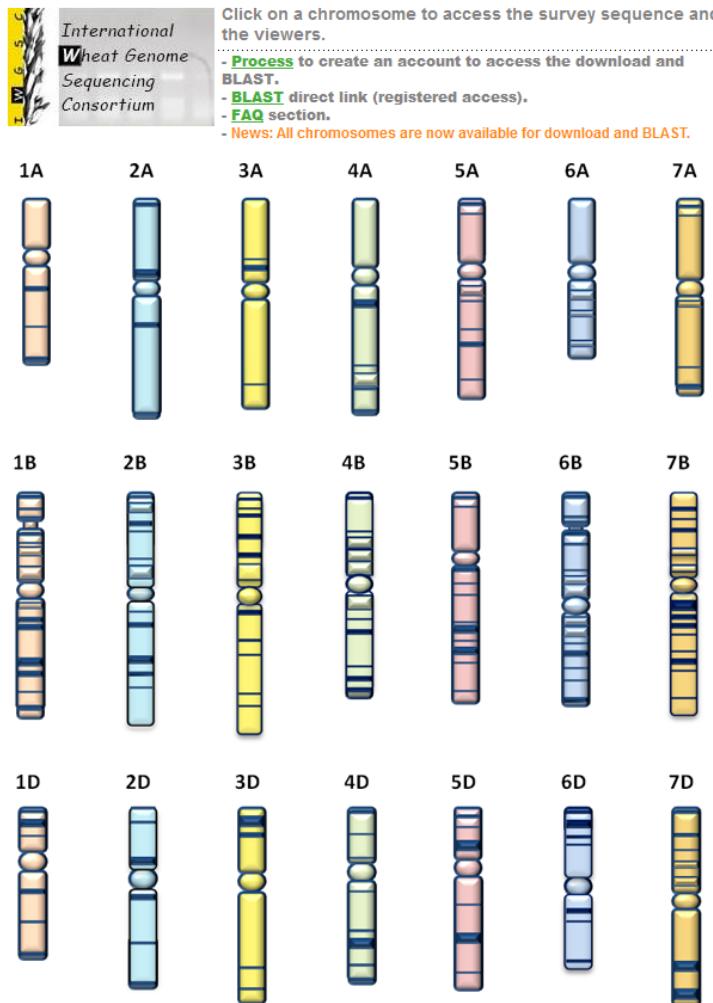
- **BLAST** search (*Blast agreement*)
- **Download** (*Data agreement*)
- **Viewers**: physical map, annotations when available

<http://urgi.versailles.inra.fr/Species/Wheat/Sequence-Repository>



Michael Alaux

Survey Sequence Repository



News:

- It is possible to **download contigs** from a BLAST result.
<http://urgi.versailles.inra.fr/srs83/displayTool.do?toolName=BlastN>
- **FAQ section**
<http://urgi.versailles.inra.fr/Species/Wheat/FAQ>
- Download preliminary genome **zipper** (MIPS)
- **BLAST Demo Video**

<http://urgi.versailles.inra.fr/Species/Wheat/Sequence-Repository>

Survey Sequence Repository

Account creation process is detailed on the IWGSC website:

<http://www.wheatgenome.org/Tools-and-Resources>

Tools and Resources

The IWGSC is developing a variety of tools and resources that are available first to members of the coordinating committee, second to general members of the consortium, and subsequently to the entire scientific community. On behalf of the IWGSC, a [central repository](#) for access to physical map data and sequences has been established by the [URGI](#) (France). Early, pre-publication access is provided to coordinating committee and individual scientists who agree to the data access statement. While scientists who agree to abide by the data access agreement will be able to BLAST the data in advance of publication, Coordinating Committee members and active members of their group will also be permitted to download the data. Data will be made available to the public upon publication, upon deposition into the public archives, or within one-year from the conclusion of the data generation. The IWGSC reserves the right to publish the first global analyses including:

- Whole chromosome or whole genome level analyses on genes, gene families, repetitive sequences; and
- Comparative analyses with other organisms.

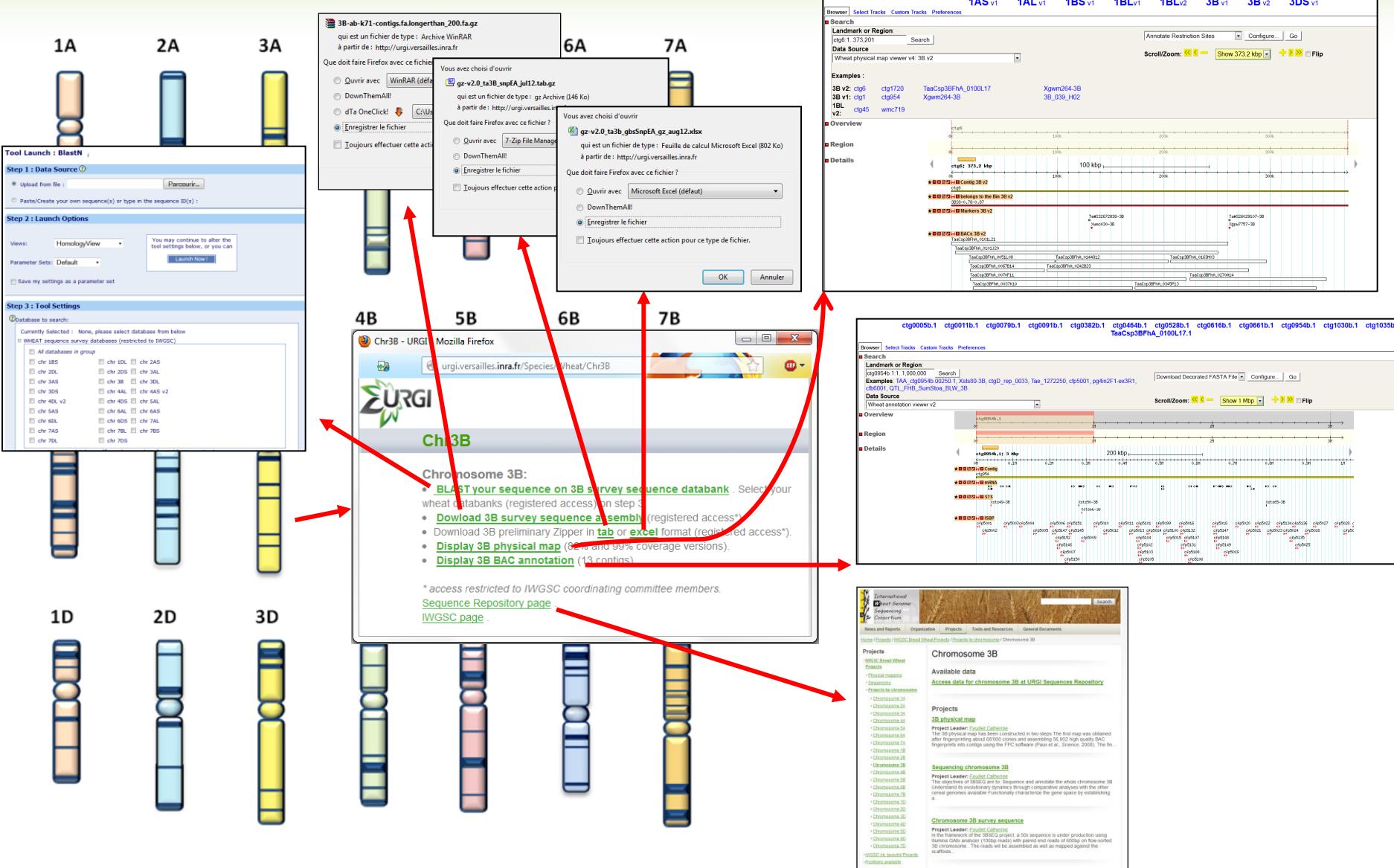
For Coordinating Committee members and their team members to gain full access, please sign-in to your IWGSC account and then agree to the [IWGSC Data Release Statement of Agreement](#). If you are not already a member of the IWGSC, you may register by clicking the "register" link at the top of any page on the IWGSC website. If you are not actively in a team or group of a Coordinating Committee or a staff member of a sponsor, please do not claim that you are part of the group or team as this may delay your account validation.

For general members of the IWGSC and nonmembers, you can gain early access to BLAST data by signing the [BLAST Access Agreement](#). If you are a general member of the IWGSC, please sign-in to your IWGSC account and then agree to the BLAST Access Agreement. Nonmembers may gain access by [registering for an IWGSC user account](#) and signing the [BLAST Access Agreement](#).

Once the appropriate access agreement has been signed and your access or website account has been validated, an account will be established for you at the URG to access the IWGSC repository and you will automatically receive an email regarding "Your INRA URG account". If you already have a URG account, this account will be upgraded to permit you to access the IWGSC repository and you will receive a confirmation email.

If you have any questions regarding account access, please contact [Kellye Eversole](#).

Survey Sequence Repository



Survey Sequence Repository

Step 1 : Data Source ?

Upload from file : Parcourir...

Paste/Create your own sequence(s) or type in the sequence ID(s)

Step 2 : Launch Options

Views: HomologyView You may continue tool settings below

Parameter Sets: Default Save my settings as a parameter set

Step 3 : Tool Settings

Database to search:
Currently Selected : None, please select database from below
 WHEAT sequence survey databases (restricted to IWGSC)

chr 1AL_v2 chr 1AS chr 1BL
 chr 1BS chr 1DL chr 1DS
 chr 2AL chr 2AS chr 2BL
 chr 2BS chr 2DL chr 2DS
 chr 3AL chr 3AS chr 3B
 chr 3DL chr 3DS chr 4AL
 chr 4AS_v2 chr 4BL chr 4BS
 chr 4DL_v2 chr 4DS chr 5AL
 chr 5AS chr 5BL chr 5BS
 chr 5DL chr 5DS chr 6AL
 chr 6AS chr 6BL chr 6BS
 chr 6DL chr 6DS chr 7AL
 chr 7AS chr 7BL chr 7BS
 chr 7DL chr 7DS

Step 4 : (Optional) Advanced Settings

Search Parameters

Options to limit the number of results

The E value: 10.000000

Number of hits and alignments to show: 50

Use Best-Hits filtering algorithm:

Best Hits algorithm overhang value: 0.100000

Best Hits algorithm score edge: 0.100000

Culling Limit:

Minimum identity percentage:

Advanced HSP Extension Options

Query Filtering Options

Save my settings as a parameter set

Survey Sequence Repository

Step 1 : Data Source ?

Upload from file C:\Users\malaux\Downloads\bac

Paste/Create your own sequence(s) or type in the sequence ID(s) :

Step 2 : Launch Options

Views: HomologyView ▾

You may continue to alter the tool settings below, or you can

Parameter Sets: Default ▾

Save my settings as a parameter set

Step 3 : Tool Settings

? Database to search:

Currently Selected : chr 1AS
chr 1BL

WHEAT sequence survey databases (restricted to IWGSC)

<input type="checkbox"/> chr 1AL_v2	<input checked="" type="checkbox"/> chr 1AS	<input checked="" type="checkbox"/> chr 1BL
<input type="checkbox"/> chr 1BS	<input type="checkbox"/> chr 1DL	<input type="checkbox"/> chr 1DS
<input type="checkbox"/> chr 2AL	<input type="checkbox"/> chr 2AS	<input type="checkbox"/> chr 2BL
<input type="checkbox"/> chr 2BS	<input type="checkbox"/> chr 2DL	<input type="checkbox"/> chr 2DS
<input type="checkbox"/> chr 3AL	<input type="checkbox"/> chr 3AS	<input type="checkbox"/> chr 3B
<input type="checkbox"/> chr 3DL	<input type="checkbox"/> chr 3DS	<input type="checkbox"/> chr 4AL
<input type="checkbox"/> chr 4AS_v2	<input type="checkbox"/> chr 4BL	<input type="checkbox"/> chr 4BS
<input type="checkbox"/> chr 4DL_v2	<input type="checkbox"/> chr 4DS	<input type="checkbox"/> chr 5AL
<input type="checkbox"/> chr 5AS	<input type="checkbox"/> chr 5BL	<input type="checkbox"/> chr 5BS
<input type="checkbox"/> chr 5DL	<input type="checkbox"/> chr 5DS	<input type="checkbox"/> chr 6AL
<input type="checkbox"/> chr 6AS	<input type="checkbox"/> chr 6BL	<input type="checkbox"/> chr 6BS
<input type="checkbox"/> chr 6DL	<input type="checkbox"/> chr 6DS	<input type="checkbox"/> chr 7AL
<input type="checkbox"/> chr 7AS	<input type="checkbox"/> chr 7BL	<input type="checkbox"/> chr 7BS
<input type="checkbox"/> chr 7DL	<input type="checkbox"/> chr 7DS	

Survey Sequence Repository

To speed up your Blast

Step 4 : (Optional) Advanced Settings

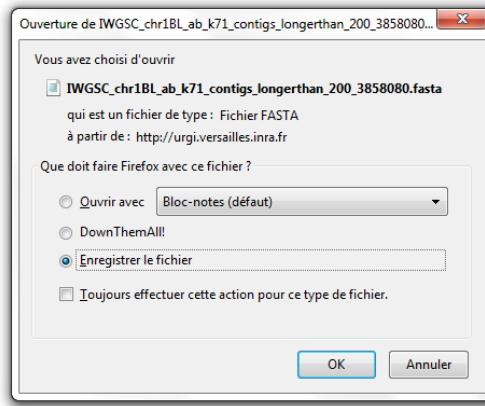
The E value: 0.001000 (circled)
 Number of hits and alignments to show: 25 (circled)
 Use Best-Hits filtering algorithm:
 Best Hits algorithm overhang value: 0.100000
 Best Hits algorithm score edge: 0.100000
 Culling Limit:
 Minimum identity percentage:

Save my settings as a parameter set

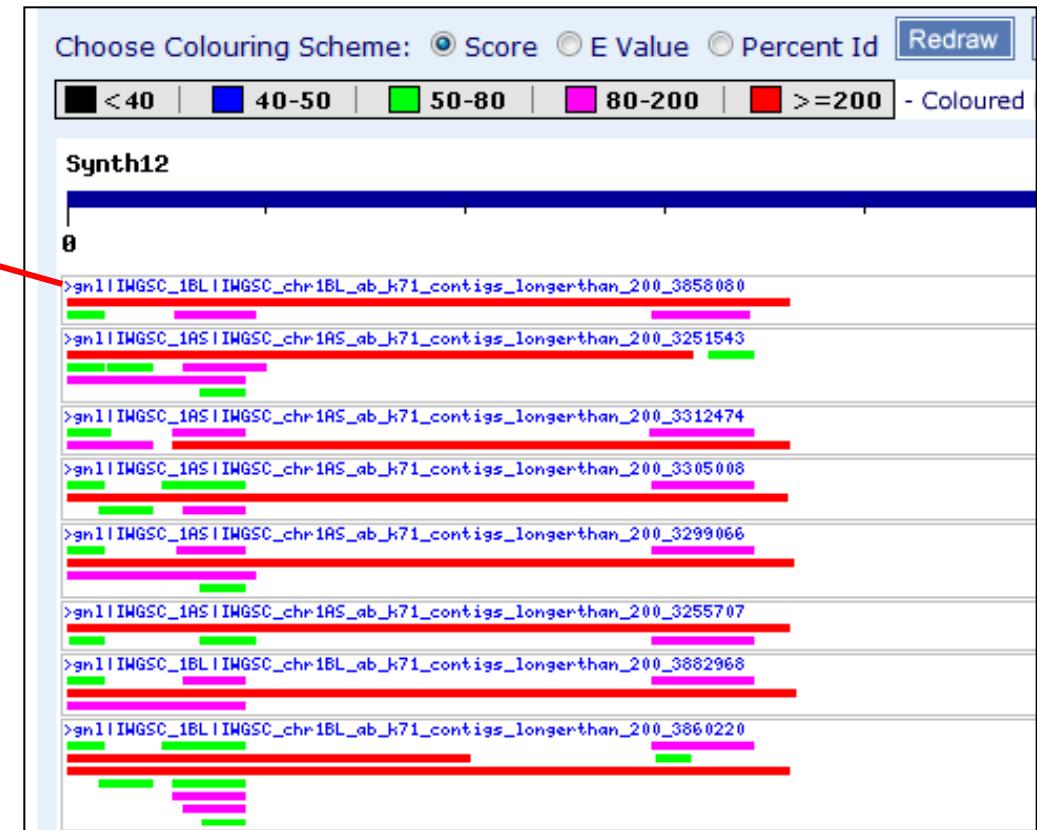
<http://urgi.versailles.inra.fr/Species/Wheat/Sequence-Repository>

Survey Sequence Repository

To download the contigs



Homology View (default view)

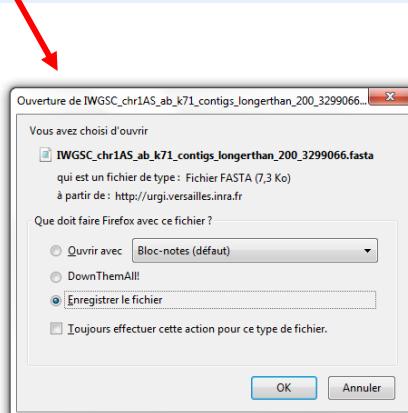


Survey Sequence Repository

To download the contigs

Blast View

Primary Search	Query	Database	Hit	Description	Top Score	E value	Percentage Identity	Match Length
BLASTN:temp_job19_1	Synth12	IWGSC_1BL	>gnl IWGSC_1BL IWGSC_chr1BL_ab_k71_contigs_longerthan_200_3858080		769	0.0	84	722
BLASTN:temp_job19_2	Synth12	IWGSC_1AS	>gnl IWGSC_1AS IWGSC_chr1AS_ab_k71_contigs_longerthan_200_3251543		762	0.0	87	624
BLASTN:temp_job19_3	Synth12	IWGSC_1AS	>gnl IWGSC_1AS IWGSC_chr1AS_ab_k71_contigs_longerthan_200_3312474		733	0.0	87	616
BLASTN:temp_job19_4	Synth12	IWGSC_1AS	>gnl IWGSC_1AS IWGSC_chr1AS_ab_k71_contigs_longerthan_200_3305008		708	0.0	83	720
BLASTN:temp_job19_5	Synth12	IWGSC_1AS	>gnl IWGSC_1AS IWGSC_chr1AS_ab_k71_contigs_longerthan_200_3299066		700	0.0	80	726



<http://urgi.versailles.inra.fr/Species/Wheat/Sequence-Repository>

Survey Sequence Repository

To launch TBlastX or other tools

The screenshot shows the biowisdom SRS web interface. At the top left is the logo "biowisdom SRS". A search bar with "Find" and a dropdown menu with "my SRS" are also visible. On the right, there's a user session status: "malaux logged in | Start permanent session".

Tool Launch : BlastN (with a help icon)

Step 1 : Data Source (with a help icon)

Upload from file : C:\Users\malaux\Do...

Paste/Create your own sequence(s) or t...

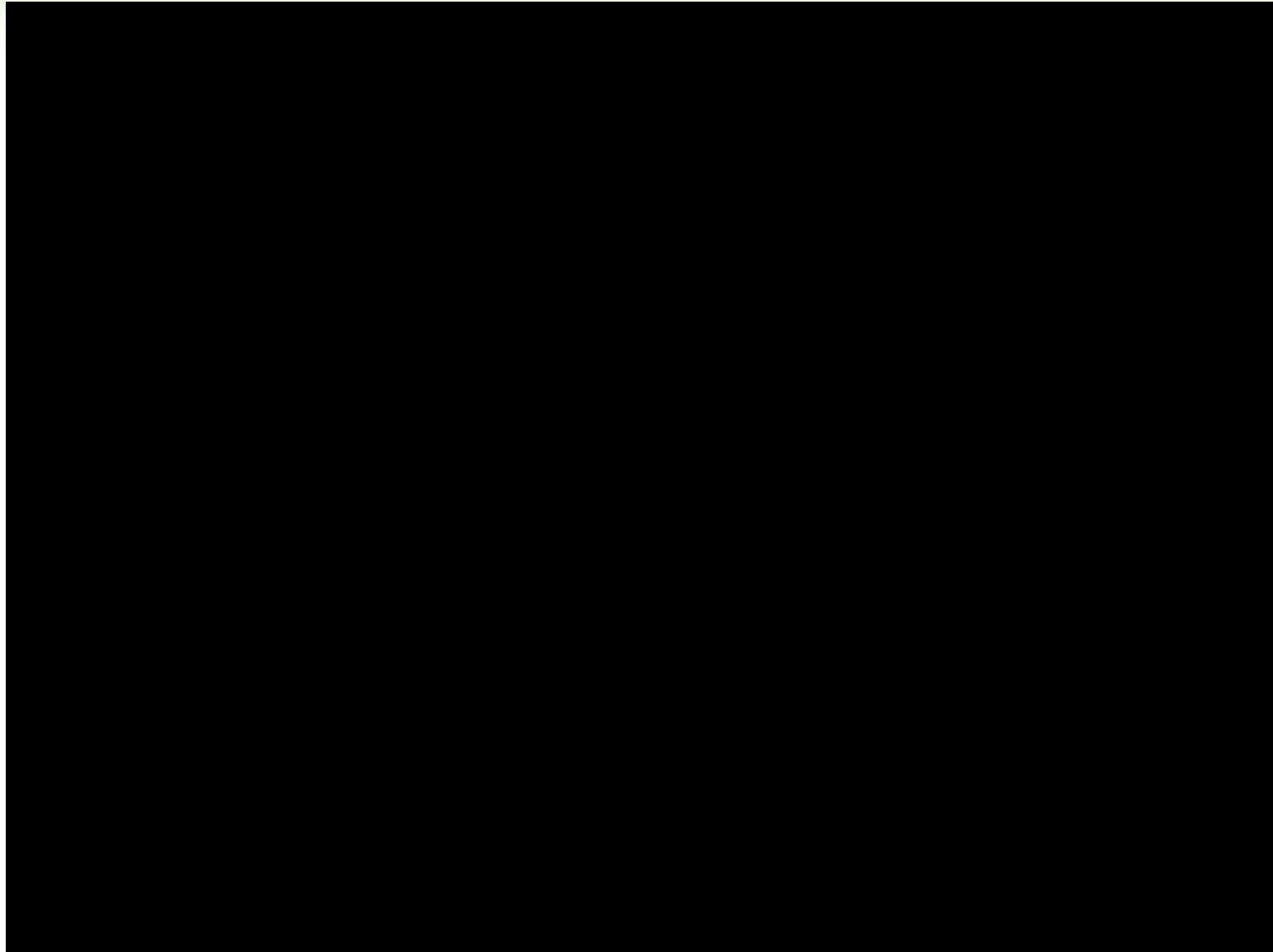
Analysis Tools

Quick Launch

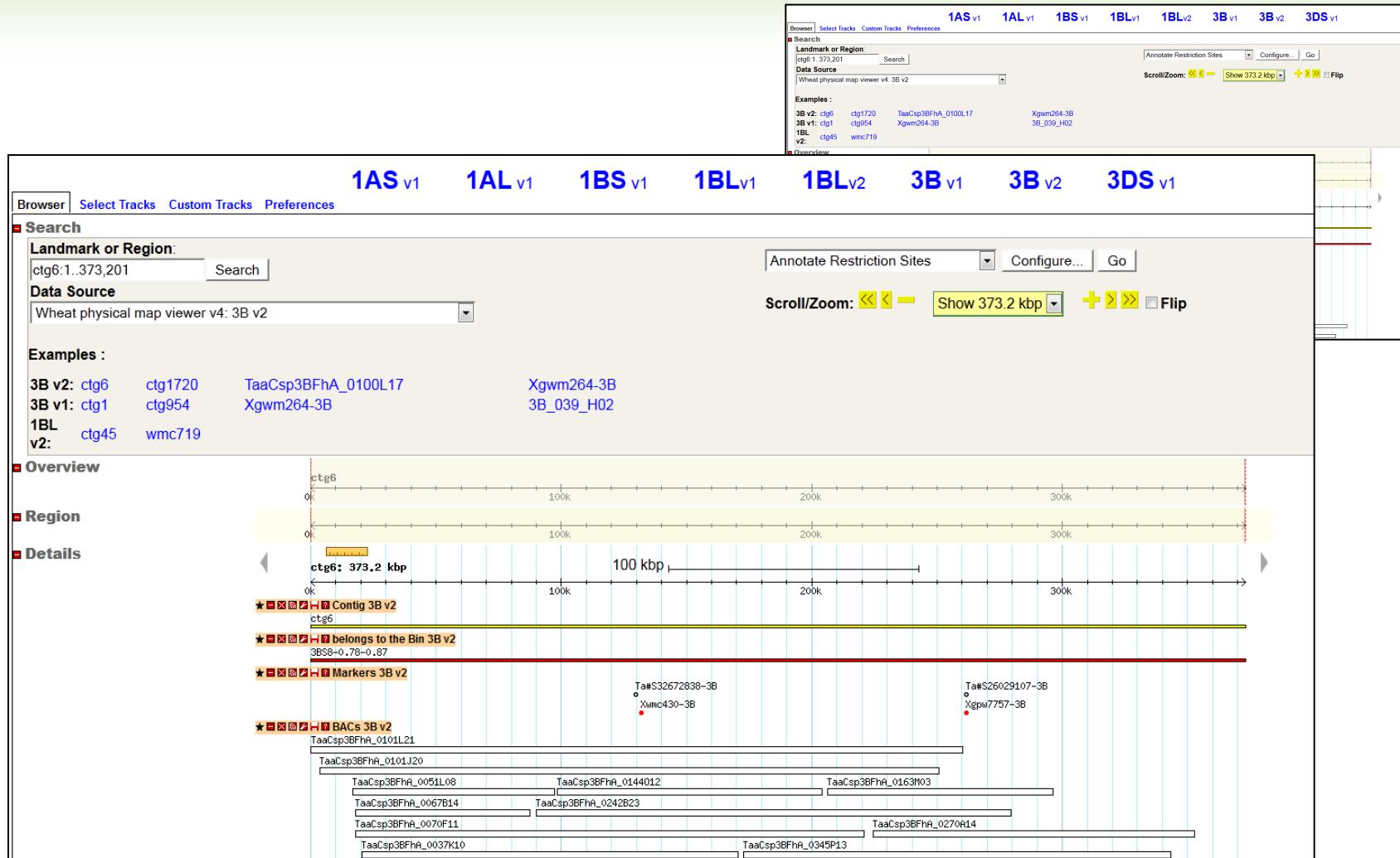
Launch analysis tool :

- TBlastX
- SplitterN
- SplitterP
- StretcherN
- StretcherP
- SupermatcherN
- SupermatcherP
- Syco
- TblastN
- TblastX** (highlighted in blue)
- TFastA
- TFastX
- TFastY
- Tcode
- Tfscan
- Tmap
- Transeq
- Trimest
- TrimseqN
- TrimseqP
- UnionN
- UnionP

Demo Video

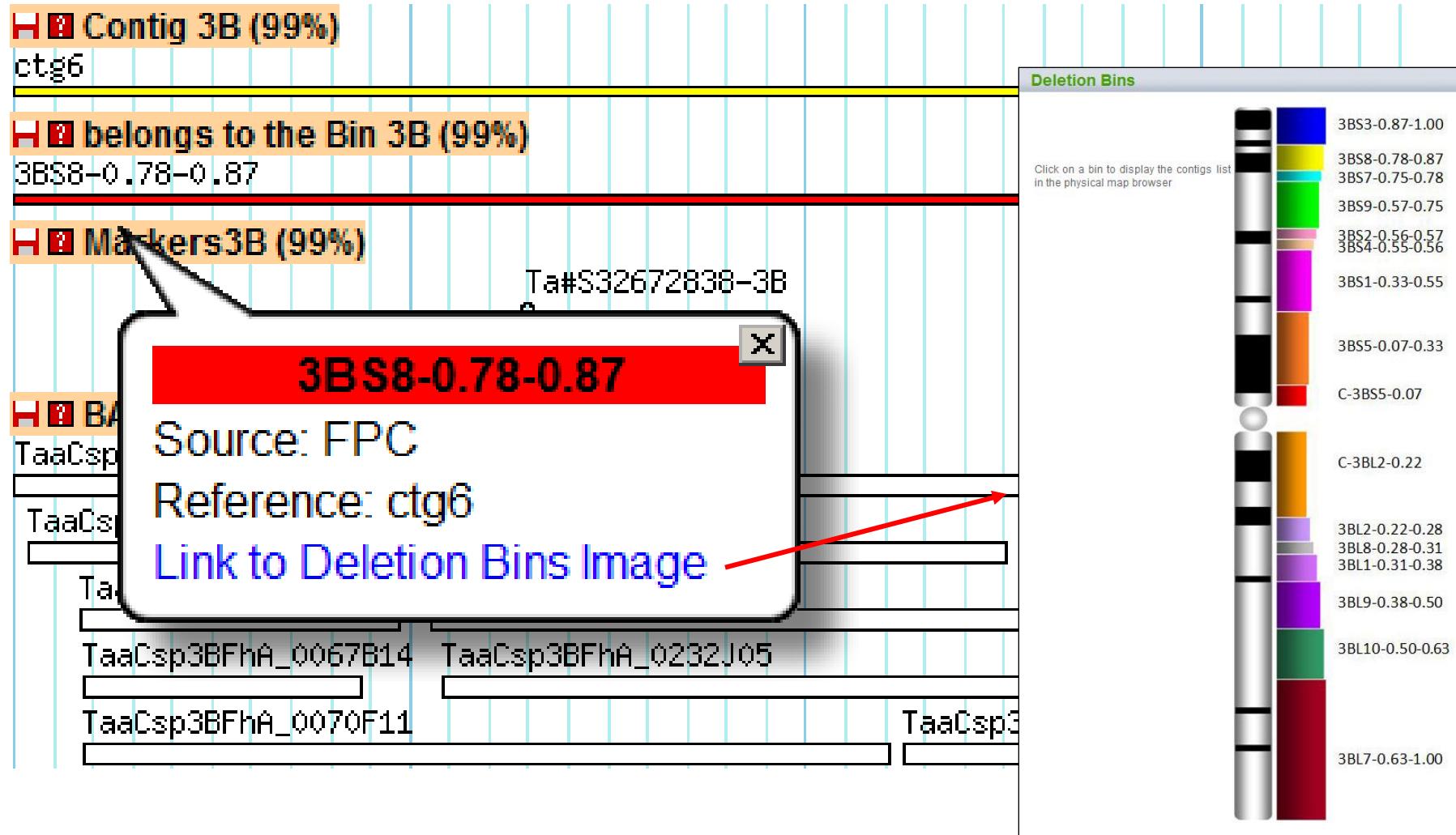


Survey Sequence Repository



http://urgi.versailles.inra.fr/gb2/gbrowse/wheat_phys_pub/

Wheat Physical Map Viewer



Wheat Physical Map Viewer

H ? Contig 3B (99%)

ctg6

H ? belongs to the Bin 3B (99%)

3BS8-0.78-0.87

H ? Markers3B (99%)

H ? BACs 3B (99%)

TaaCsp3BFhA_0101L21

TaaCsp3BFhA_0101J20

TaaCsp3BFhA_0051L08 TaaCsp3BFhA_0051R08

TaaCsp3BFhA_0067B14 TaaCsp3BFhA_0067R14

TaaCsp3BFhA_0070F11 TaaCsp3BFhA_0070R23

TaaCsp3BFhA

Position: 18001..220801

Source: FPC

Reference: ctg6

Zoom to this feature

Detailed Report

Name:	TaaCsp3BFhA_0070F11
Class:	BAC
Type:	BAC
Description:	
Source:	FPC
Position:	ctg6:18001..220801
Length:	202801
Config_hit:	"6"
Marker_hit:	Xwmc430-3B 0 0
Name:	TaaCsp3BFhA_0070F11
primary_id:	24477
gbrowse_dbid:	wheatFPC3B:database

Wheat Physical Map Viewer

MARKER DETAILS

Marker name :	WMC430
Taxon :	Triticum aestivum
Marker type :	SSR
Marker origin :	amplicon
Target :	WMC
Origin laboratory :	ITCF
Reverse primer :	TAGGGACCCCTTGACAAAAAA
Forward primer :	TAGGGACCCCTTGACAAAAAA

MAPPED LOCI

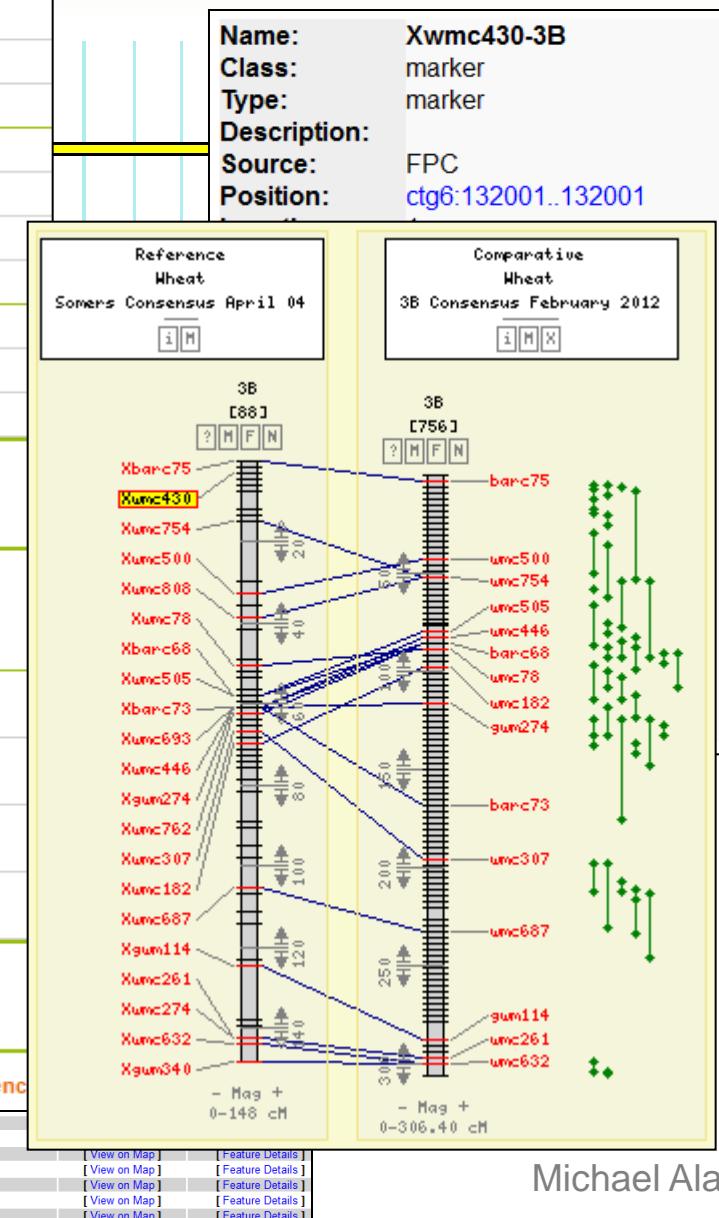
Mapped loci: 4

Locus name	Map name	Taxon	Linkage group	Distance	Reliability / (source map name)
Xwmc430-5B	TaVirtualPop01_071219	Triticum aestivum	5B	154.0	non_framework
Xwmc430-5B	RLAc_071219	Triticum aestivum	5B	162.6	non_framework
Xwmc430-3B	SupBW_071212	Triticum aestivum	3B	3.1	non_framework
Xwmc430-3B	TaVirtualPop01_071219	Triticum aestivum	3B	3.0	non_framework

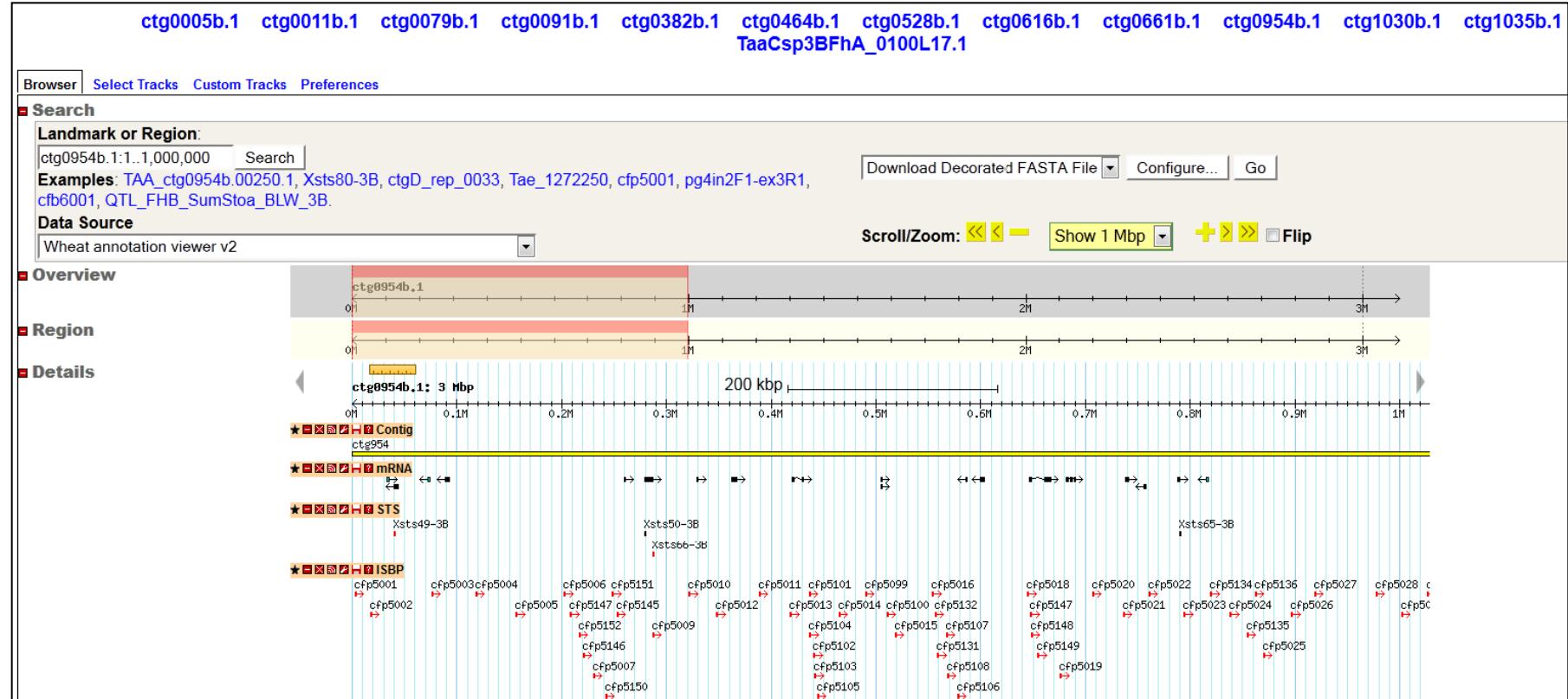
CROSS REFERENCES

Cross references: 1

Db name	Reference name	Reference value	Evidence
WMC430	SSR	Wheat	Framework Feb07
Xwmc430	SSR	Wheat	RL4452'AC Domain SO 05/08
Xwmc430	SSR	Wheat	Somers Consensus April 04
Xwmc430	SSR	Wheat	Somers Consensus April 04
Xwmc430	SSR	Wheat	Somers Grain Genes Consensus Map
Xwmc430	SSR	Wheat	Somers Grain Genes Consensus Map
wmc430	SSR	Wheat	5B Consensus November 2011

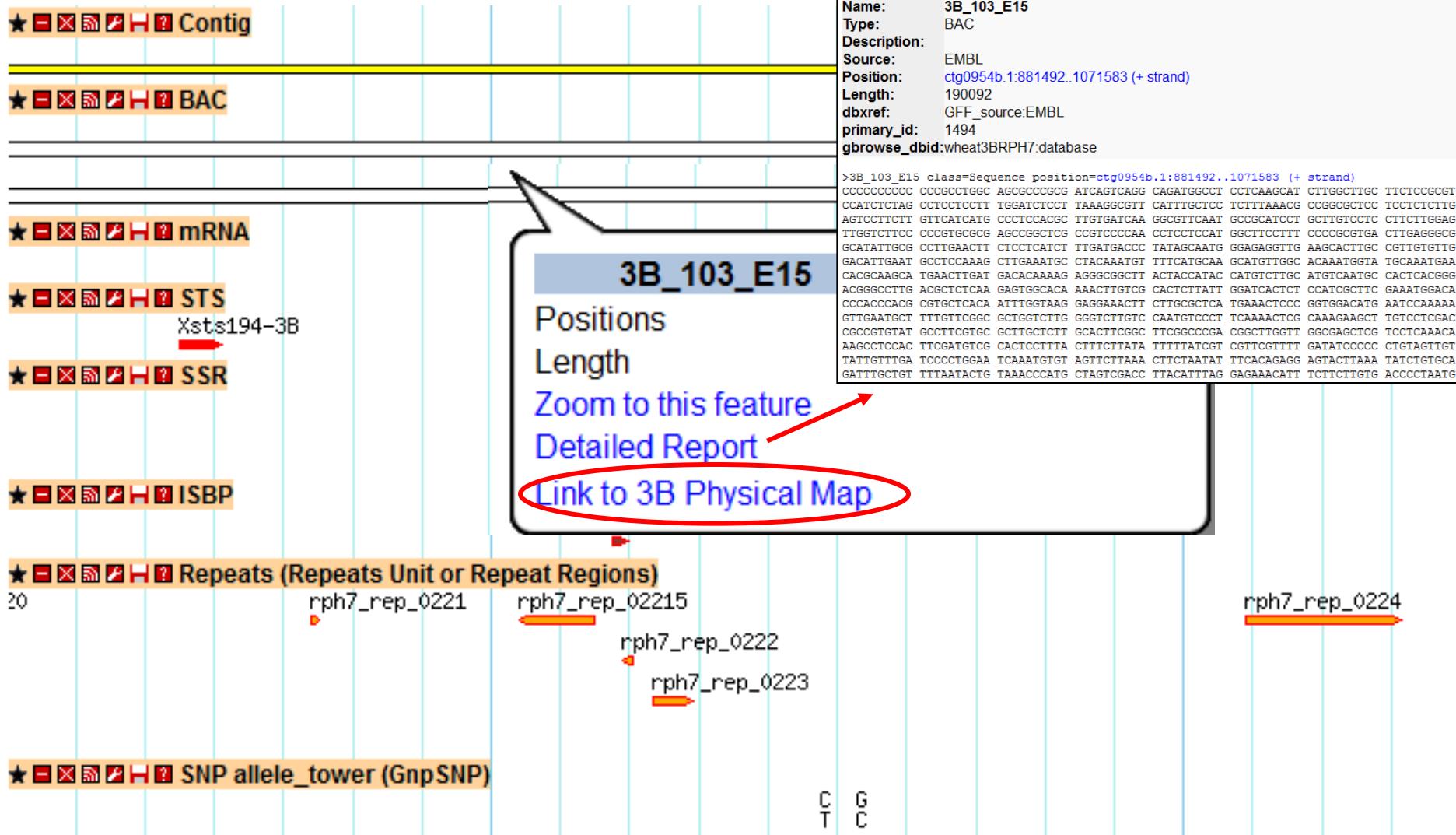


Survey Sequence Repository



http://urgi.versailles.inra.fr/gb2/gbrowse/wheat_3B_RPH7_pub/

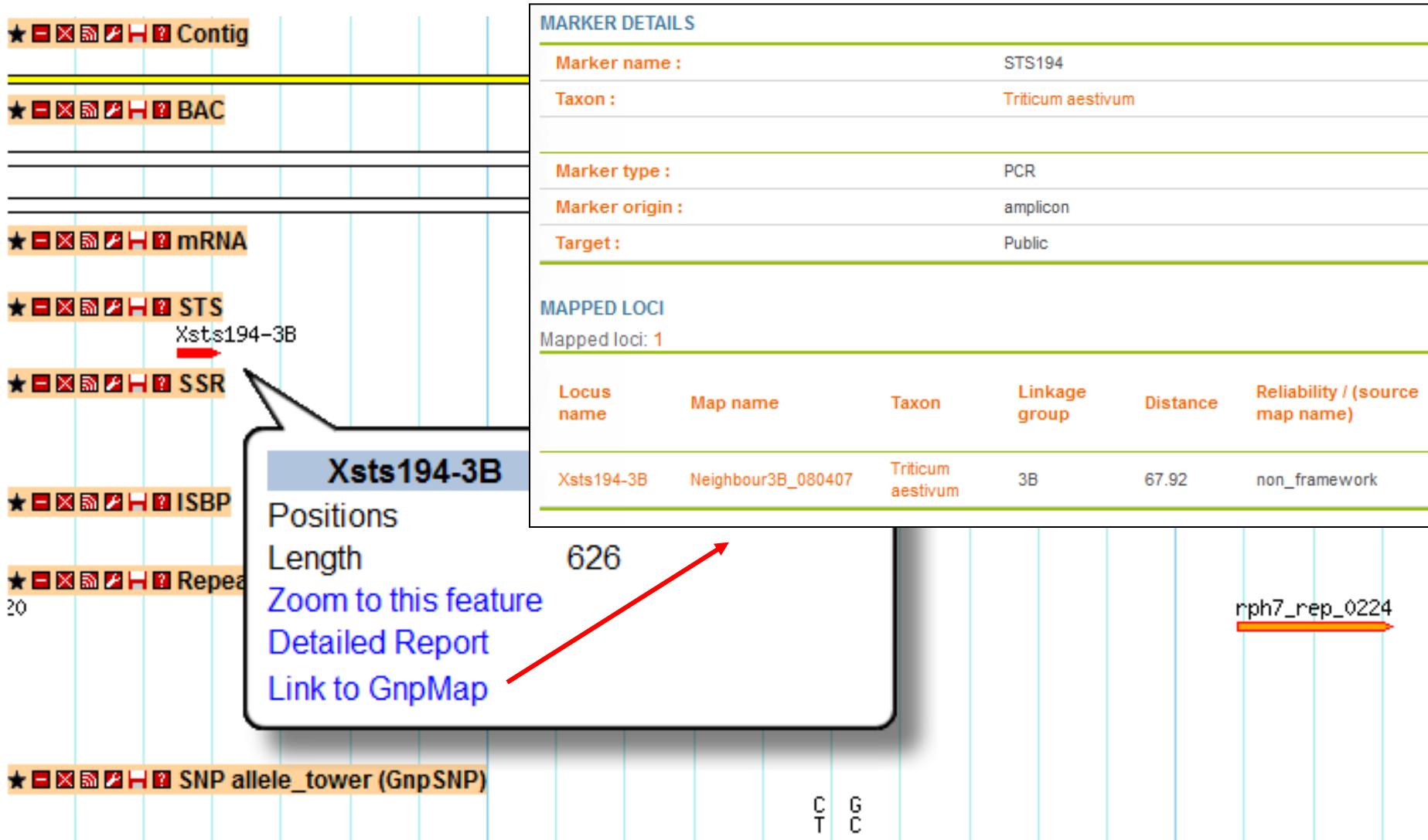
Wheat Annotation Viewer



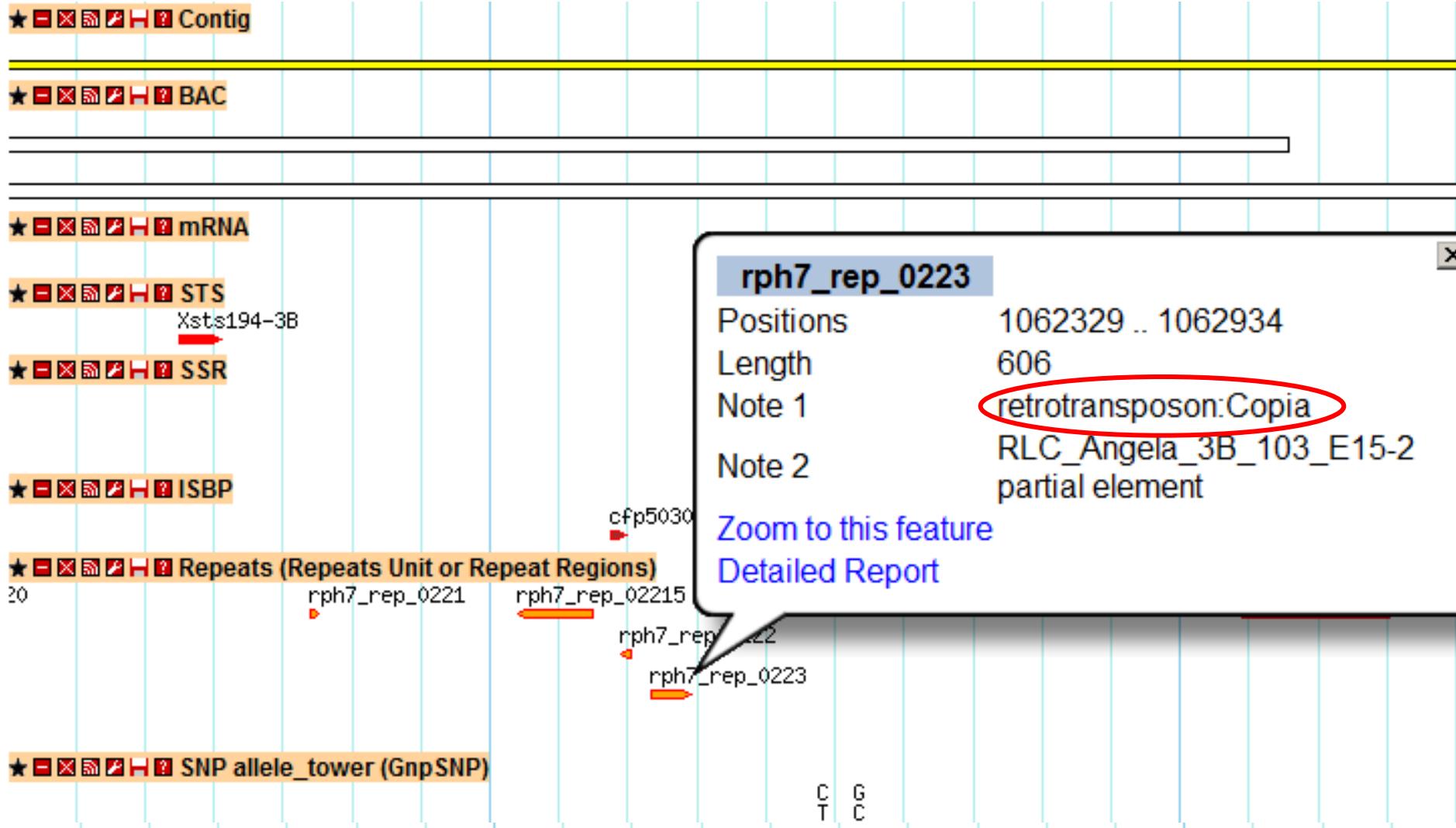
Wheat Annotation Viewer



Wheat Annotation Viewer



Wheat Annotation Viewer



Wheat Annotation Viewer

DETAILS

Name : Tae_1272250
 Source : GnpSNP

COMPLEMENTS

Type : SNP
 Sequence variation : C/T
 Linked with variations : INRA_CF_ASP [View list]
 Linked with lines : ARCHE [View list]

INTERNAL REFERENCES

Database	Reference name	Reference value
Wheat 3B annotation (FHB)	SNP name	Tae_1272250

SEQUENCES

5' flanker on ref.seq. : >Tae_1272250-5'
 ctgattttgtataatttgggggtgcgtatgtgaactgtcaaganctgcctcctccgtatTTTgtacgtacgc
 acggcgattgcactgtcacntgtataattcnatctgttttttaataaaagggtttccccggctccagtttcggtg
 atgaaaccaggcagcagactcaaagtcccaggcataaccaaaggtagtcagccaggtaagacgttcaaccaaaggct
 gtcataaaga

3' flanker on ref.seq. : >Tae_1272250-3'
 ccatgagaataactctttccaactggctactataatcaggtttgccta

Genomic context on ref. seq. : >Tae_1272250-genomic_context
 ctgattttgtataatttgggggtgcgtatgtgaactgtcaaganctgcctcctccgtatTTTgtacgtacgc
 acggcgattgcactgtcacntgtataattcnatctgttttttaataaaagggtttccccggctccagtttcggtg
 atgaaaccaggcagcagactcaaagtcccaggcataaccaaaggtagtcagccaggtaagacgttcaaccaaaggct
 gtcataaaga [C/T]ccatgagaataactctttccaactggctactataatcaggtttgccta

IDENTIFICATION	
Accession number	964
Accession name	ARCHE
Synonyms	
subspecies	Triticum aestivum aestivum
Pedigree	TRIBUTE/VM644-9-4-1
Biological status	Advanced/improved cultivar
Comment	-
ORIGIN	
Geographical origin	France
Bred	
Breeding site	
Breeding institution	Nickerson
Creation year	-
Original number	-
French catalog registration year	1989
French catalog deregistration year	-
Donated	
Donor institution	Unité expérimentale du Magneraud, GEVES
Donation date	1989
Original number	-
Holding institution	UMR Génétique, Diversité et Ecophysiologie des Céréales, INRA-Clermont

Wheat Annotation Viewer

IDENTIFICATION

Accession number	964
Accession name	ARCHE
Synonyms	-
subspecies	Triticum aestivum aestivum
Pedigree	TRIBUTE/VM644-9-4-1
Biological status	Advanced/improved cultivar
Comment	-

ORIGIN

Geographical origin : France	Bred
Breeding site	
Breeding institution	Nickerson
Creation year	-
Original number	-
French catalog registration year	1989
French catalog deregistration year	-
Donated	
Donor institution	Unité expérimentale du Magneraud, GEVES
Donation date	1989
Original number	-

Holding institution UMR Génétique, Diversité et Ecophysiologie des Céréales, INRA-Clermont

Wheat Annotation Viewer

EVALUATION DATA

-	Growth class	Hiver - Winter
-	Days to heading (Counted as days from sowing to 50% of panicles fully emerged)	141
-	Scale of days to heading	7
-	Plant height (cm)	85
-	Scale of plant height	5
-	Scale of 1000 kernels weight	5
-	Wheat awnedness	5

DISTRIBUTION

Presence status	Maintained
Available	 Yes, with restrictions
Distributor(s)	UMR Génétique, Diversité et Ecophysiologie des Céréales, INRA-Clermont

COLLECTIONS

Part of	WHEAT_TRITIPOL_COL WHEAT_GENOPLANT_COL SOFT_WHEAT_CORE_COL WHEAT_INRA_COL
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GENOTYPING

This accession has been genotyped: see ARCHE in GnpSNP.

Wheat dataflow overview

Species

- Vitis
- Wheat**
- Bryopsida
- Arabidopsis
- Oryza
- Populus
- Maize
- Medicago
- Pisum
- Flax

You are here : Home / Species / Wheat

Wheat website
http://urgi.versailles.inra.fr/Species/Wheat

New website soon available



GnpIS portal
Quicksearch
Google-like



1BL 3B (99% coverage) 3B (82% coverage)

ScrollZoom: Show 373.2 Kbp ▲ ▼ Flip

Wheat physical map viewer
GBrowse

Wheat annotation viewer
GBrowse

International Wheat Genome Sequencing Consortium

Click on a chromosome to have access to the survey sequence and the viewers when available.

Survey sequences in related databases are access restricted.
To download or blast the sequence, you have to be member of the IWGSC coordinating committee.
The process to ask an account will be soon available.
Survey sequence progress is available at TGAC for project leaders (access restricted).

Chromosomes 1B and 3B have already informations.

Wheat survey sequence repository
Blast
Download

Marker: WMC430

Genetic maps, Markers, QTLs, MetaQTLs
GnpIS

Marker details

Marker name	WMC430
Marker type	SNP
Marker region	WMC
Origin laboratory	ITC

Mapped loci

Locus name	Map name
Items<400	SLA-WG1210
Items<400	DgWg-474232
Items<400	Triticum aestivum
Items<400	Wm311

Cross references

Db name	Reference name	Reference value	Evidence	Contact
Observee Wheat 1B FPC	name	Wmc430	-	-

Results

The experiment IRI-A_CF_ASPLAT contains 46 marker(s)

Positions	24	68	R	Y
Ref. Sequence	TPA_B_1	TPA_B_1	A	A
Line	A1	A1	ATGGAGCTTGTGAACTCATCTGCAAAAGACGAGGAGGTTTCACG	
Line	AFEGIN_NOM	A	ATGGAGCTTGTGAACTCATCTGCAAAAGACGAGGAGGAGGTTTCACG	
Line	ARCHE	A	ATGGAGCTTGTGAACTCATCTGCAAAAGACGAGGAGGAGGTTTCACG	
Line	AUDRE	A	ATGGAGCTTGTGAACTCATCTGCAAAAGACGAGGAGGAGGTTTCACG	
Line	A1_C	C	GTGACCGCTTGAGAAGACTCTGACAAAGACGAGGAGGAGGTTTCACG	
Line	BASIRE_DJ	A	ATGGAGCTTGTGAACTCATCTGCAAAAGACGAGGAGGAGGTTTCACG	
Line	BELIEI_450	A	ATGGAGCTTGTGAACTCATCTGCAAAAGACGAGGAGGAGGTTTCACG	
Line	CHINESE_SPRING	A	ATGGAGCTTGTGAACTCATCTGCAAAAGACGAGGAGGAGGTTTCACG	
Line	CHORTANDINKA	A	ATGGAGCTTGTGAACTCATCTGCAAAAGACGAGGAGGAGGTTTCACG	
Line	CHIYANTANG	A	ATGGAGCTTGTGAACTCATCTGCAAAAGACGAGGAGGAGGTTTCACG	

Accession: (210-13*M)1-37

Identification

Accession number	27
Accession number	(210-13*M)-37
Synonyms	-
Subspecies	<i>A. ventricosa</i> (L.) TURCOT
Phenotype	AA. ventricosa L. (MOISSON)
Biological status	Breeder's material
Comment	-

Origin

Genetic resources GnpIS

Bred by:

- Breeding site: INRA Versailles, Institut National de la Recherche Agronomique, Technologie Végétale, INRA-Rennes
- Breeding institution: INRA Versailles, Institut National de la Recherche Agronomique, Technologie Végétale, INRA-Rennes
- Create year: -
- Origin name: -
- French catalog registration year: -
- French catalog deregistration year: -

Donated by:

- Donor institution: UMR Amélioration des Plantes et Biotechnologies Végétales, INRA-Rennes
- Donation date: 1984
- Original number: -

Holding institution: UMR Génétique, Diversité et Ecophysiology des Céréales, INRA-Clermont

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New Wheat website

The screenshot shows the EURGI Wheat website homepage. At the top, there's a navigation bar with links for FEEDBACK, CONTACT, SITE MAP, REGISTER, Projects, Data, Tools, Seq Repository, About us, and WHAT'S NEW? with an RSS icon. A large yellow wheat ear graphic is positioned in the center-left. On the right, a vertical column lists various genetic resources: Sequence survey, Physical maps, Annotations, Deletion bins, Genetic maps, QTL, Markers, SNP, EST, and Genetic resources. Below this is a 'QUICK SEARCH' box where users can type 'Xwmc430' and click 'SUBMIT'. The search results page shows a list of publications and events. The 'WHAT'S NEW?' section on the right tracks updates from August 2011 to December 2010.

FEEDBACK | CONTACT | SITE MAP

REGISTER

Projects **Data** **Tools** **Seq Repository** **About us**

WHAT'S NEW ? **RSS**

Sequence survey

Physical maps

Annotations

Deletion bins

Genetic maps

QTL

Markers

SNP

EST

Genetic resources

QUICK SEARCH

Xwmc430 **SUBMIT**

You can found the indexed data list [here](#).

Examples: [gene](#), [Xwmc430](#)

31 Jan 2012
TriAnnot: a versatile and high performance pipeline for the automated ...
ACL (papers with reading committee)
Frontiers in Plant Genetics and Genomics (2012) 3:1-14

12 Apr 2011
Breedwheat english press release
Breedwheat project english press release in PRweb.
...

04 Mar 2011
Breedwheat and Amaizing approvals press release
The 2 projects Breedwheat and Amaizing have been both approved by the french program ...

03 Aug 2011
Wheat annotation viewer v1.4
[Wheat_annotation_viewer_v1.4](#) is now available. The FHB QTL link to GnpMap is publicly available.

12 Jul 2011
New wheat data are now available on public site
[NeighbourBL_110314](#) map and [FHB_QTL](#) are now available on public site.

24 Mar 2011
Wheat annotation viewer v1.3
[Wheat_annotation_viewer_v1.3](#) is now available. It displays 13 annotated contigs of the 3B chromosome.

24 Mar 2011
Wheat physical map viewer v3.0
[Wheat_physical_map_viewer_v3.0](#) is now available. It displays the two versions of the 3B FPC assembly (82% and 99% coverage) and the 1BL FPC assembly.

15 Dec 2010
GnpGenome Wheat Physical Map v2.4 available
[v2.4](#) : Add link to deletion bins image and external link to CMap composite maps (R. Appels) at GrainGenes.

06 Dec 2010
TriAnnot v2.1

- Important improvement of the NIAS-search module, much more efficient (Developed by H. Sakai, N. Amano from NIAS and P. Leroy from GDEC).
- Databanks :
- New proteome databanks: CDS derived peptides from genome model and addition of EMBL proteomes for several plant species. Used within Block10 and Block17.
- Possibility to download best hit alignments from Block10.
- New Web interface for sequence submission:
- Block10: addition of % of protein coverage and % of protein positive

EVENT & PUBLICATIONS **RSS**

New Wheat website

The screenshot displays three main sections of the URGI wheat website:

- Projects:** Shows a navigation bar with "Feedback | Contact | Site Map" and a "REGISTER" button. Below the header is a banner featuring a wheat ear. The main content area includes a sidebar with "Projects" (3BSeq, BreedWheat, TriticeaeGenome), "Data" (Why develop Wheat?), and "Tools" (Map, Genome, Polymorphism, Genetic collections, EST, Transcriptome). A text box discusses the International Wheat Genome Sequencing Consortium's work on developing a reference genome for wheat.
- Data:** Shows a navigation bar with "Feedback | Contact | Site Map" and a "REGISTER" button. Below the header is a banner featuring a wheat ear. The main content area includes a sidebar with "Data" (Sequence survey, Physical maps : 3B, Annotations : 13 c, Deletion bins of 3B, Genetic maps, QTL, Markers, Genetic resources, EST, SNP) and "Tools" (Triannot pipeline, Help, Versions, Architecture, Usage, Softwares, Databanks, Defaults, List of users, Links, Presentation in congress, Run Pipeline, Acknowledgments). A text box discusses the European Triticeae Genomics research at the International Triticeae Mapping.
- Tools:** Shows a navigation bar with "Feedback | Contact | Site Map" and a "REGISTER" button. Below the header is a banner featuring a wheat ear. The main content area includes a sidebar with "Tools" (Triannot pipeline, Help, Versions, Architecture, Usage, Softwares, Databanks, Defaults, List of users, Links, Presentation in congress, Run Pipeline, Acknowledgments) and "Data summary" (Quick search in GnpIS, Physical map viewer, Annotation viewer, Deletion Bins, dbWFA). A text box discusses the International Wheat Genome Sequencing Consortium (IWGSC) and its work on sequencing the wheat genome.

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