

A brief update on data curation activities associated with the www.brassica.info website, managed in the UK at Rothamsted Research for the Multinational Brassica Genome Project (MBGP).

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N.B. The value of the information made available via www.brassica.info is determined by the quality and coverage of the information made accessible by the research community. There are a number of areas we have identified that particularly require input from researchers elsewhere.

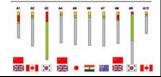
These are indicated by



Updates and information now available:

BrGSP BAC Registry

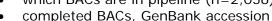
http://www.brassica.info/resource/sequencing.php



2008

Update on status of B. rapa Genome Sequencing project

which BACs are in pipeline (n=2,056)



assignment to chromosomes, genetic map location, map graphics

FISH assignment

2009

Ensembl Brassica-centric viewer, to enable navigation and alignment to consensus genetic maps and conserved collinearity blocks

Gene Nomenclature

http://www.brassica.info/info/reference/gene-nomenclature.php

Update on status of *B. rapa* Genome Sequencing project

2008

Agreed and published in Plant Methods

2009

Online Gene Registry in progress





TILLING consortium http://www.brassica.info/research/activities/tilling.php **Update of TILLING populations** 2008 Established by Lars.Ostergaard@bbsrc.ac.uk 17 populations collated, contact details etc 2009 Compile information on mutant load Screening availability?

Genetic and genomic resources

Inventory and detailed curated datasets

Clone **libraries**

http://www.brassica.info/resource/clones.php

- Provenance, status, ownership, etc
 - BACs
 - ESTs
 - GSS



Plant populations

Mapping populations

brassica.info/resource/plants/mapping-populations.php

- description, size, status, nomenclature
- plant line names, subset populations used for different maps etc
- seed and DNA availability

Diversity Sets

http://www.brassica.info/resource/plants/diversity_sets.php

- description, lines, numbers, status, provenance
- status of genetic fixing
- seed and DNA availability





Genetic maps	 http://www.brassica.info/resource/maps.php Nomenclature Assignment to populations and subpopulations Linkage groups and map positions Assignment of marker loci to marker_assays Downloadable data + initial CMAP output 	1253 rM157a rM259a rM259a rM259a rM259a rM259a rM256aM rM266a rM266a rM266a rM266a rM266a rM27a rM196b rM27a rM196b rM27a rM197a rM25a rM197a rM196a rM197a rM196a
2009	 Extend to include consensus integrated maps, links to genome sequence More sophisticated map interface 	
Genetic markers	 http://www.brassica.info/resource/markers.php Assignment of marker_assays to 'canonical marker name' and hence to sequence assignment - for map integration and comparative analysis Marker sets - details of sequence-tagged genetic markers, with primer information 	
2009	Extend to include MBrGSP SSRs that anchor genome sequence to genetic maps	



- Integrated schema to manage plant, map, marker, trait datasets
- Established nomenclature conventions and MBGP registries
- Input templates (MS Excel) available for download and data entry
- Web-based interface to download datasets in MS Excel, with detailed provenance data



2009

2008

- Proposal and agreement on wider range of nomenclature conventions
- PC-based interface will be available for distribution; MySQL dumps to be available for local implementation



Reference Information

http://www.brassica.info/information.php

Look-up data for consistency

2008 Gene Nomenclature

Genome sizes

Linkage group assignments

Nomenclature conventions

2009



Publications

Publications only available via

www.brassica.info

2008 Cruciferae Newsletter

- vols 26-27 available for download
- vols 22-25 archive issues scanned (at INRA) and available

Cruciferae Trait Genetics (from AAFC)

available for download

Guide to Wild Germplasm (from AAFC)

available for download

2009 Cruciferae Newsletter

vol 28 (Jan 2009) already available



Planned for 2009-

2009

- Map integration
- SeqStore for Brassica, to include concept of Registry 'Sequence Collections'

New datasets, activities and services

- QTL repository
- Ionomics datasets
- Links to transcriptomic datasets?

