

Resource Summary Report

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modelcrop.org

RRID:SCR_005542

Type: Tool

Proper Citation

modelcrop.org (RRID:SCR_005542)

Resource Information

URL: <http://www.modelcrop.org/>

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Description: A Brachypodium distachyon comparative genomics resource offering a genome browser, BLAST server, download capabilities, Brachypodium physical map, Comparative maps, and comparison with rice and Sorghum chromosomes. * Genome browser >>> Browse the v1.0 genome assembly and the v1.0 gene predictions from JGI/MIPS. Also displays JIC FST data (T-DNA lines) and alignments of ESTs from wheat, barley and Brachypodium. * BLAST server >>> BLAST your sequences against the Brachypodium sequence assembly and the predicted proteome. * Download sequence >>> Download sequence from the brachy assembly (limited to 50kb regions). Download complete assembly file as FASTA. Download sequence and additional data from the v1.0 annotated assembly including protein-coding sequences as FASTA, translated coding sequences as FASTA, gene sequences as FASTA, and COS markers. PLEASE NOTE: The published genome analysis is based on the v1.0 annotation. The v1.2 annotation can be downloaded from MIPS. * Brachypodium physical map >>> Brachypodium physical map data displayed using SyMAP. (view in genome browser) * Comparative maps >>> Brachypodium genetic and physical maps aligned to rice and wheat. * Comparison with rice and Sorghum chromosomes >>> Dotplots of the Brachypodium assembly aligned to rice and Sorghum chromosomes.

Abbreviations: modelcrop.org

Synonyms: modelcrop.org - The Brachypodium distachyon comparative genomics resource, modelcrop.org - Comparative genomics using the model grass Brachypodium distachyon

Resource Type: data or information resource, production service resource, data analysis service, database, analysis service resource, service resource

Keywords: comparative genomics, rice, grass

Resource Name: modelcrop.org

Resource ID: SCR_005542

Alternate IDs: nlx_144635

Record Creation Time: 20220129T080230+0000

Record Last Update: 20260808T185842+0000

Ratings and Alerts

No rating or validation information has been found for modelcrop.org.

No alerts have been found for modelcrop.org.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Ahmadi N, et al. (2023) Genome Scan of Rice Landrace Populations Collected Across Time Revealed Climate Changes' Selective Footprints in the Genes Network Regulating Flowering Time. Rice (New York, N.Y.), 16(1), 15.

Wen R, et al. (2012) Centromeres cluster de novo at the beginning of meiosis in Brachypodium distachyon. PloS one, 7(9), e44681.

Bragg JN, et al. (2012) Generation and characterization of the Western Regional Research Center Brachypodium T-DNA insertional mutant collection. PloS one, 7(9), e41916.

Gasperini D, et al. (2012) Genetic and physiological analysis of Rht8 in bread wheat: an alternative source of semi-dwarfism with a reduced sensitivity to brassinosteroids. Journal of experimental botany, 63(12), 4419.

Opanowicz M, et al. (2011) Endosperm development in Brachypodium distachyon. Journal of experimental botany, 62(2), 735.

Peraldi A, et al. (2011) Brachypodium distachyon: a new pathosystem to study Fusarium head blight and other Fusarium diseases of wheat. BMC plant biology, 11, 100.

Mochida K, et al. (2011) In silico analysis of transcription factor repertoires and prediction of stress-responsive transcription factors from six major gramineae plants. DNA research : an international journal for rapid publication of reports on genes and genomes, 18(5), 321.

Higgins JA, et al. (2010) Comparative genomics of flowering time pathways using *Brachypodium distachyon* as a model for the temperate grasses. PloS one, 5(4), e10065.

Febrer M, et al. (2010) An integrated physical, genetic and cytogenetic map of *Brachypodium distachyon*, a model system for grass research. PloS one, 5(10), e13461.