

CITRUS GENOME DATABASE











Resources for citrus genomics, genetics, breeding and disease research

Issue 3 | April 2022

What is CGD?

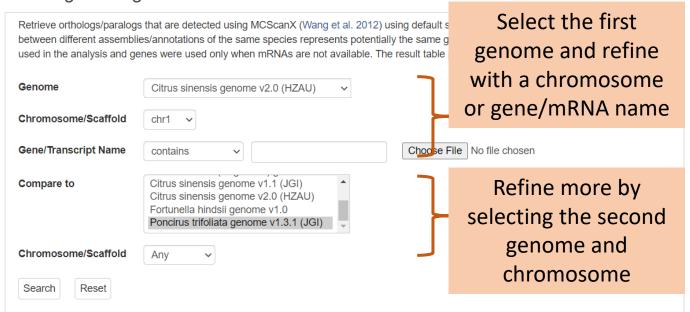
CGD is a centralized database containing genomics, genetics, and breeding data and analysis tools for citrus research. Genome sequences are available to view and search and there is also information about genetic maps, molecular markers, and QTL. If you are a breeder who needs to manage private breeding program data, access to the Breeding Information Management System (BIMS) can be requested. Visit us at www.citrusgenomedb.org to see everything that is available. Each issue of the newsletter will focus on a different type of data and what features are available.

New Ortholog/Paralog Search

While ortholog and paralog data are stored in our database as part of the MCScanX synteny analysis are viewable in the Synteny Viewer tool, there was not a way to search that data directly. To remedy this, we have designed the new Ortholog/Paralog Search feature. See the diagram below for details on how to use it.

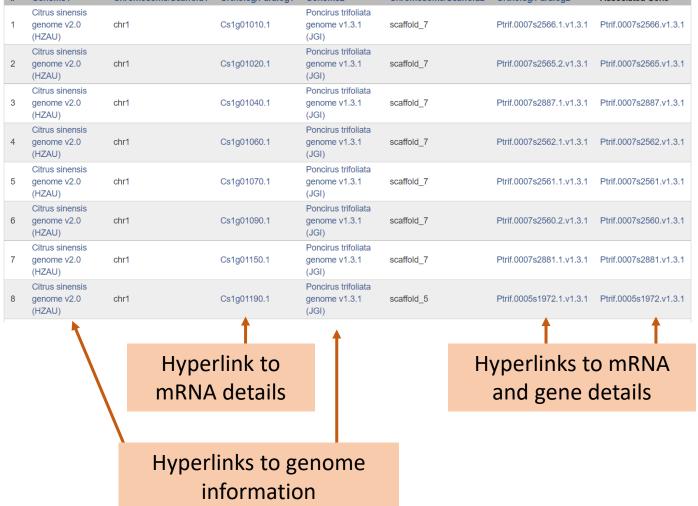
Remember that clicking on mRNA names opens the details page for that mRNA where you can see all the functional annotation details. Can't find your genome on the list in the new search? Only genomes that are within the Synteny Viewer are currently available. The missing genomes will be added soon. Please <u>contact us</u> with feedback.

Ortholog/Paralog Search



See the Page 2 for the results!

Ortholog/Paralog Search Results Link to download results as file Genome 2 Genome 1 information information 1612 records were returned Download Table Chromosome/Scaffold1 Chromosome/Scaffold2 Associated Gene Ortholog/Paralog1 Ortholog/Paralog2 Genome1 Genome2 Poncirus trifoliata Citrus sinensis Ptrif.0007s2566.v1.3.1 genome v2.0 chr1 Cs1g01010.1 genome v1.3.1 scaffold_7 Ptrif.0007s2566.1.v1.3.1 (HZAU) (JGI) Citrus sinensis Poncirus trifoliata genome v2.0 chr1 Cs1g01020.1 scaffold_7 Ptrif.0007s2565.2.v1.3.1 Ptrif.0007s2565.v1.3.1 genome v1.3.1 (HZAU) (JGI) Citrus sinensis Poncirus trifoliata



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