

## CITRUS GENOME DATABASE











Resources for citrus genomics, genetics, breeding and disease research

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## What is CGD?

**CGD** is a centralized database containing genomics, genetics, and breeding data and Genome analysis tools for citrus research. 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.

## **Updates to Genetic Data Resources**

There have been a few improvements to the search interfaces for genetic data and MapViewer over the last few months.

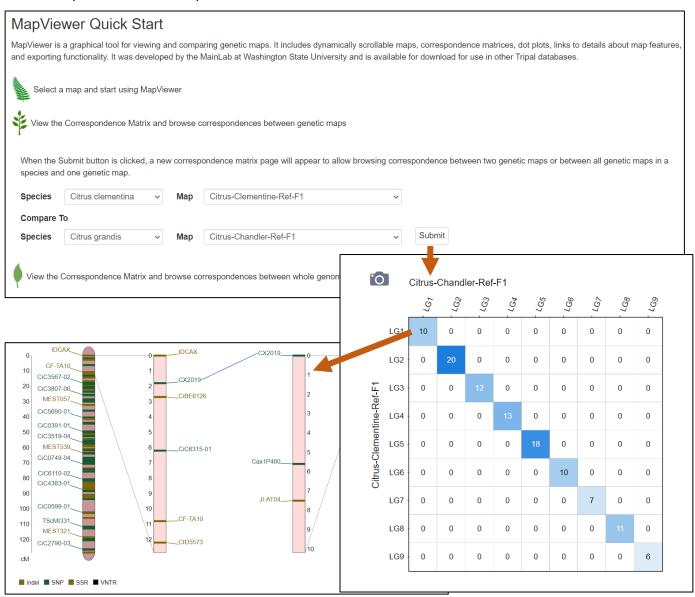
Improved Map Search — Previously the map search was more of a filtering interface with only genus and species as the option, but now that we are using a MegaSearch interface users have numerous options on how to configure the search. Organism is still an option and the following have been added: map name, mapping population name, maternal parent name, paternal parent name, QTL labels, QTL traits, publication citation, and number of map LG and loci.

Data Type Мар Reset Map Search Interface 85 Map. Note: actual rows in downloaded file depend on the selected fields. Query Downloadable Fields All Fields Organism Refresh Count View CSV TSV Clear Any Citrus clementina Map Name Citrus grandis Description Citrus reshni Unit Type **Map Name** Organism Any Population Mapping population Maternal Parent Paternal Parent **Population** contains Number of LG Maternal Parent contains Number of Loci Number of QTL **Paternal Parent** contains Publication QTI Expandable Select what is Publication option fields viewed/downloaded

## Improved MapViewer Features

We have made it easier to download corresponding marker information and compare 'Tools' maps. From the menu, 'MapViewer'. And then click on the 'View Correspondence Matrix and browse correspondences between genetic maps'. Two sets of pull-down menus appear, and you can select maps that have correspondences.

Once you click submit, a Correspondence Matrix appears with numbers that correspond to the number of corresponding markers between linkage groups. Clicking on the number opens the maps of the linkage groups so you can view them and download information on the corresponding markers and view a dot plot graph.



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