Viewing Expression Data

You can now explore more gene or mRNA expression levels on GDV using the Expression Heatmap Tool. This tool displays expression levels of genes or mRNA from published manuscripts. Access the tool via the “Expression Heatmap” link in the Tools menu. You then are taken to an overview page with a few different sections. First note the table of Expression Datasets that are available with links to more information about the study and the genome the data is aligned to. You can create the heatmap by adding gene/mRNA names to the text box or by selecting the organism and then selecting features from the box or searching for a gene/mRNA name. Then click “Display Expression Heatmap” (also see video linked above).

Choose organism and select from list that populates below

Enter gene or mRNA names here

Links to dataset and genome details

What’s new in GDV?

**Outreach**
- How to go from a trait to a GWAS to a gene and to an ortholog (2:52 mins)
- How to use the Expression Heatmap Tool (2:23 mins)

**New Data**
- 2,098 genetic markers, 1 genetic map, 9 GWAS and 17 QTL added in last quarter
- 2 blueberry expression datasets
- 204 germplasm from USDA-GRIN

**Upcoming PAG Database Workshop**
- NRSP10 Database Workshop featuring Genome Database for Vaccinium, Jan. 14, 1:30-3:40 PM. Come to the workshop and learn how to use all the available tools and data in the database.
Heatmap and Gene/mRNA and Biosample Pages

There are links to details about the gene/mRNA and the sequenced samples along the axes of the heatmap. You can also adjust what is displayed on the heatmap and download the data.

Adjust how the data is displayed

Expression

Expression by

Details about samples that were sequenced

Details pane on gene or mRNA details page

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