

My Organism Preferences

Note: this exercise uses VEuPathDB.org as an example database, but the same functionality is available on all VEuPathDB resources.

Learning objectives:

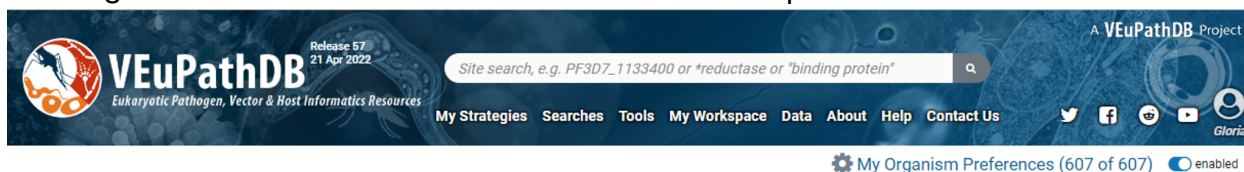
- Navigate to the organism preferences page
- Set your organism preferences
- Toggle the organism preferences enable/disable switch

The My Organism Preferences feature allows you to cherry-pick any combination of organisms you might be interested in. Enabling this feature applies your organism preferences globally across the site resulting in a filtered view to help focus your work. The goal of this exercise is to set your organism preferences to include Arthropods and exclude all other organisms in the database.

1. Click on the “My Organism Preferences” link at the top right of the page.

The screenshot shows the VEuPathDB website interface. At the top, the header includes the VEuPathDB logo, release information (Release 57, 21 Apr 2022), a search bar, and a navigation menu with links: My Strategies, Searches, Tools, My Workspace, Data, About, Help, and Contact Us. A red box highlights the 'My Organism Preferences (607 of 607)' link, which is accompanied by a gear icon and a toggle switch labeled 'enabled'. Below the header, the main content area is divided into a left sidebar with search filters (Genes, Organisms, Popset Isolate Sequences, Genomic Sequences, Genomic Segments, ESTs) and a main panel titled 'Overview of Resources and Tools'. This panel includes icons for 'Take a Tour', 'Getting Started', 'Search Strategies', 'Genome Browser', 'Transcriptomic Resources', 'Phenotypic Data', and 'Analyze My Data'. A 'Getting Started' section provides an introduction to the site's search functionality. At the bottom, there is a 'Tutorials and Exercises' section with links to 'Apollo: Manual gene annotation', 'Gene Pages', and 'Genetic Variation'. The footer contains the BRC (NIH Bioinformatics Resource Centers) logo, a row of icons representing various biological data types, the copyright notice '©2022 The VEuPathDB Project Team', and a 'COMMUNITY CHAT' button.

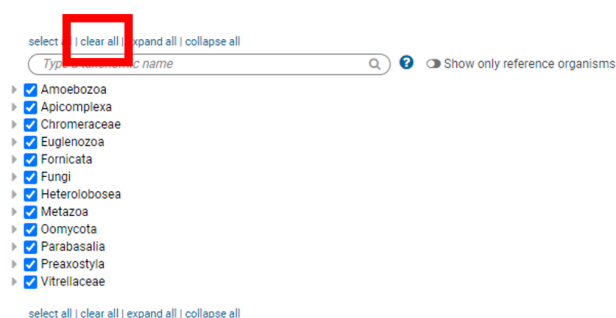
- The next page displays the current organism preferences selection. If you haven't set these preferences before you should see the default selection which is all organisms in the database. Click on the clear all option.



My Organism Preferences

Set your **My Organism Preferences** to limit the organisms you see throughout VEuPathDB.

Choose organisms to keep



My Organism Preferences (607 of 607)

VEuPathDB will restrict the organisms it displays, throughout the site, to those you have chosen, as shown below.

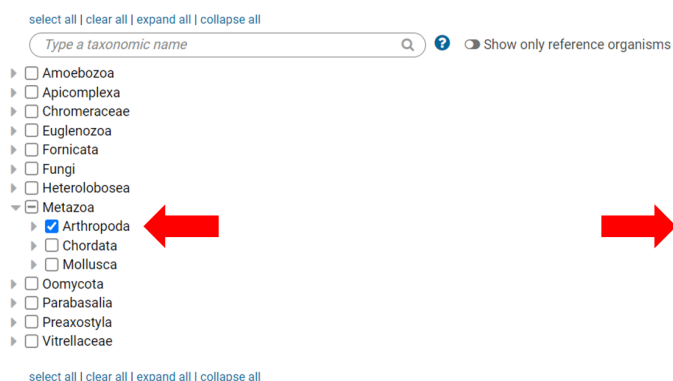
- Amoebozoa
 - Discosea
 - Acanthamoeba astronyxis Unknown [Reference]
 - Acanthamoeba castellanii
 - Acanthamoeba castellanii Ma
 - Acanthamoeba castellanii str. Neff [Reference]
 - Acanthamoeba culbertsoni A1 [Reference]
 - Acanthamoeba lenticulata PD2S [Reference]
 - Acanthamoeba lugdunensis L3a [Reference]
 - Acanthamoeba mauritaniensis 1652 [Reference]
 - Acanthamoeba palestiniensis Reich [Reference]
 - Acanthamoeba quina VII3 [Reference]
 - Acanthamoeba rhyodes Singh [Reference]
 - Acanthamoeba sp.

- Select the Metazoa > Arthropoda checkbox. Notice that the panel on the right updates automatically with your selection from the left.
- Once you are satisfied with your selection, click on the Apply button to activate your organism preferences.

Choose organisms to keep

Apply

X

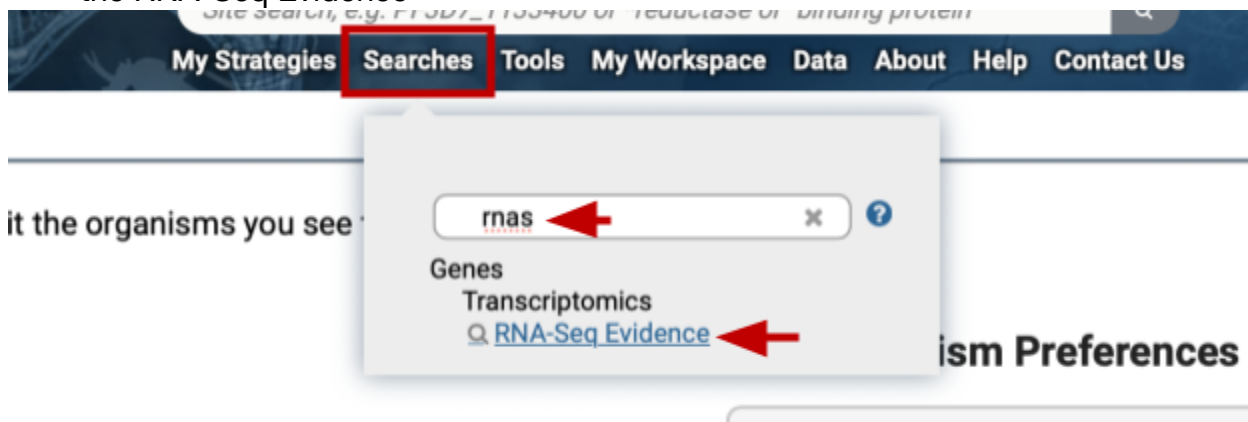


Preview of My Organism Preferences (57 of 607)

VEuPathDB will restrict the organisms it displays, throughout the site, to those you have chosen, as shown below.

- Metazoa
 - Arthropoda
 - Arachnida
 - Ixodida
 - Dermacentor silvarum Dsil-2018 [Reference]
 - Ixodes
 - Ixodes scapularis ISE6
 - Ixodes scapularis Wikel [Reference]
 - Rhipicephalus
 - Rhipicephalus microplus Rmic-2018 [Reference]
 - Rhipicephalus sanguineus Rsan-2018 [Reference]
 - Sarcoptiformes
 - Sarcoptes scabiei Arlian [Reference]
 - Trombidiformes
 - Leptotrombidium deliense UoL-UT [Reference]
 - Insecta
 - Diptera
 - Ceratopogonidae
 - Culicoides sonorensis PIR-s-3 [Reference]

- Explore how the My Organism Preference affects your experience on VEuPathDB. For example, try navigating to the “RNA-Seq Evidence” search page. Click on the searches menu item then search for RNAseq. Next click on the RNA-Seq Evidence



- Examine the available datasets. They should all be from organisms set in your preferences.



Identify Genes based on RNA-Seq Evidence

Filter Data Sets: ? Legend: C Coexpression PQ Quantitative Phenotype S Similarity SSL Splice Site Loc DE Differential Expression FC Fold Change
MC MetaCycle P Percentile SA SenseAntisense

Organism ?	Data Set	Choose a Search
<i>Aedes aegypti</i> LVP_AGWG	? Mating-induced transcriptome changes in the reproductive tract of female <i>Aedes aegypti</i> (Alfonso-Parra et al 2016)	FC P
<i>Aedes aegypti</i> LVP_AGWG	? Filarial worm-mosquito interactions (Choi et al 2014)	DE FC P
<i>Aedes aegypti</i> LVP_AGWG	? Male versus female carcass transcriptomes (Jiang et al 2015)	DE FC P SA

- Try toggling the “My Organism Preferences” switch (hint, just click on it to deactivate or activate). What happens to the list of datasets?



Identify Genes based on RNA-Seq Evidence

Filter Data Sets: ? Legend: C Coexpression PQ Quantitative Phenotype S Similarity SSL Splice Site Loc DE Differential Expression FC Fold Change
MC MetaCycle P Percentile SA SenseAntisense

Organism ?	Data Set	Choose a Search
<i>Acanthamoeba castellanii</i> str. Neff	? Trophozoite transcriptome of <i>A. castellanii</i> (Wojtkawska et al.)	P
<i>Aedes aegypti</i> LVP_AGWG	? Mating-induced transcriptome changes in the reproductive tract of female <i>Aedes aegypti</i> (Alfonso-Parra et al 2016)	FC P
<i>Aedes aegypti</i> LVP_AGWG	? Filarial worm-mosquito interactions (Choi et al 2014)	DE FC P