Site Search

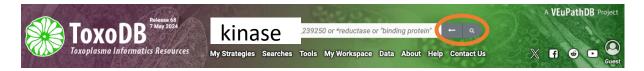
Note: this exercise uses ToxoDB.org as an example database, but the same functionality is available on all VEuPathDB resources.

Learning objectives:

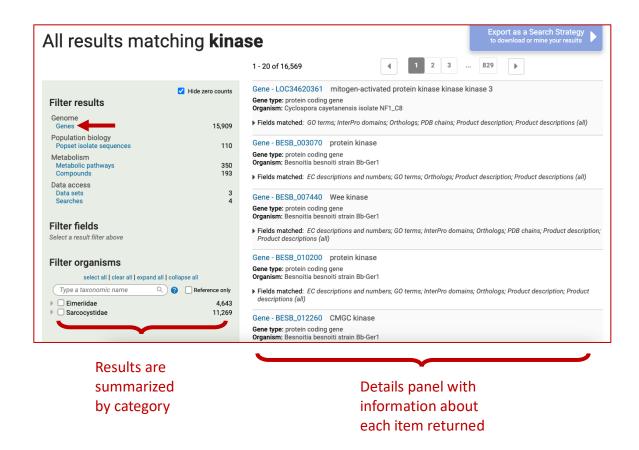
- Search by keywords or identifiers
- Filter site search results by categories and fields
- Export results to a search strategy
- Find a specific gene using its ID in site search
- Navigate to and from the site search result
- Explore searches using wild cards (*) and quotation marks (" ")

The site search is located in the header of any VEuPathDB site and is available from every page. The site search queries the databases for your term or ID and returns a list of pages and documents that contain your query term.

1. **Search for a keyword**. Enter the word *kinase* in the site search window. Then click enter on your keyboard or click on the search icon.

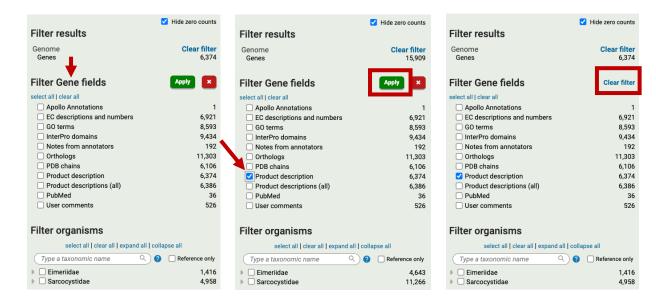


2. **Site Search result format**: The site search returns a categorized list of pages and documents that contain your term. Site search results are summarized on the left with a details panel on the right. Changing the panel on the left will populate the details panel with that result. What is the total number of results with the word kinase? Are all the results genes?



3. **Filter the site search result by category:** How many of the genes included the word kinase in their product descriptions?

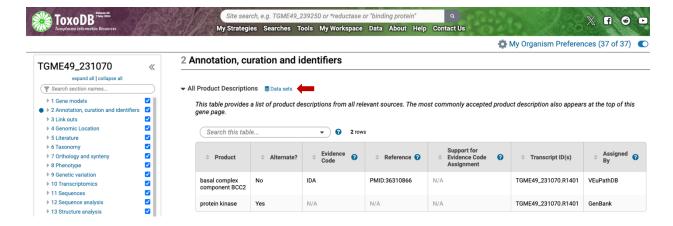
Filter the results so that you only view gene results and the Filter Fields section expands to reveal additional filtering options. Select the *Product descriptions* field and choose *Apply*. Once a filter is applied it can be removed by clicking on *Clear filter* (right panel below).



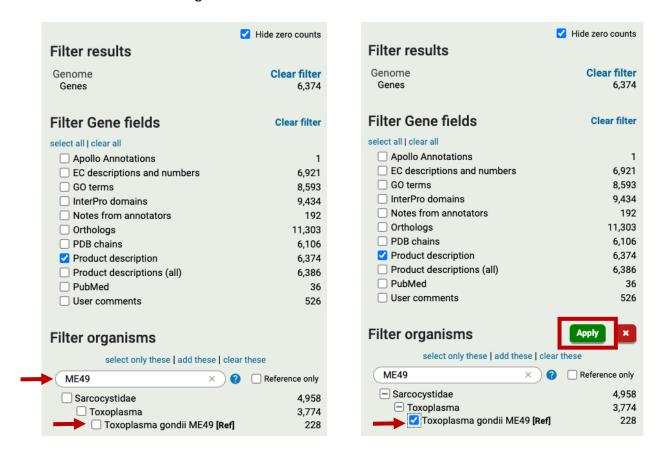
Did you notice that there are two product description search options? The search option *Product description* searches for the preferred product displayed on the top of the gene record page.



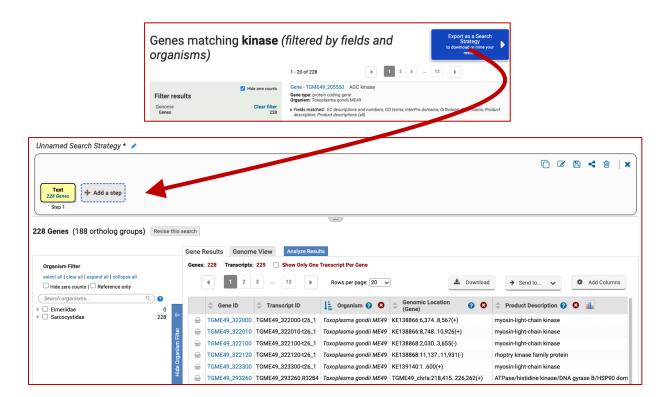
There are genes that have more than one product description, i.e. from different sources. The product descriptions are all listed in the *All Product Descriptions* table on the gene record page. Use the search option *Product descriptions* (all) to search all product descriptions listed in the table.



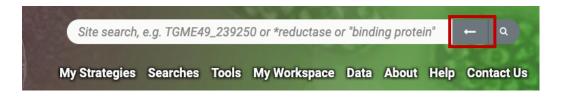
4. **Filter the site search result by organism:** How many of the above genes are found in *Toxoplasma gondii* ME49? Explore the *Filter organisms* section of the results filter and use the search filter to navigate the tree.



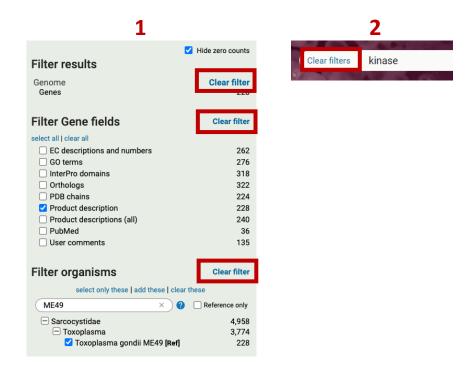
5. **Export the results to a search strategy**. Use the blue *Export as a search strategy* button at the top right-hand side of the results. Once exported you will be able to take advantage of over 100 specialized searches using the Add Step button. We will learn more about this in a future exercise.



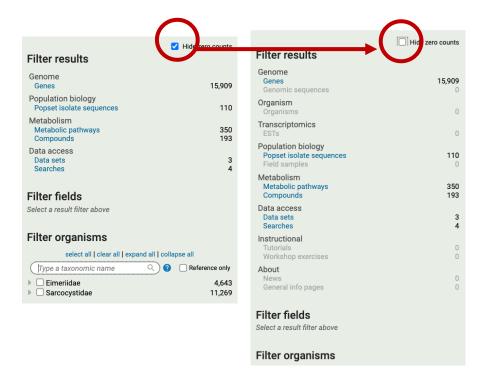
6. **Return to the site search results page.** You can achieve this in two ways: 1. Your previous results and filter settings were preserved and can be accessed by clicking on the 'back to results' arrow in the site search window. 2. Click on your browser's back arrow.



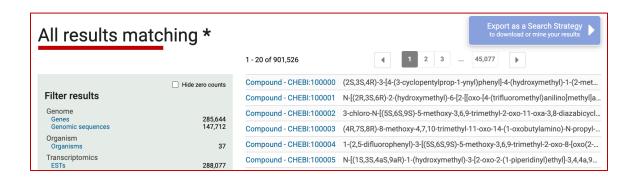
7. **Clear all filters**. You can achieve this in two ways: 1. You can click on each of the *clear filter options* in the filter results panel. 2. You can click on the *clear filters option* in the site search window, which serves to Clear All filters.

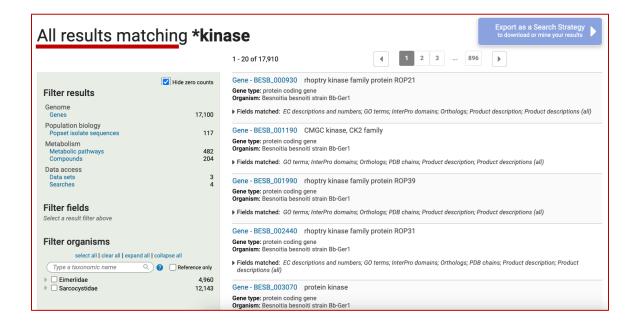


8. Click the Hide zero counts check box in the Filter results panel. What does this do?

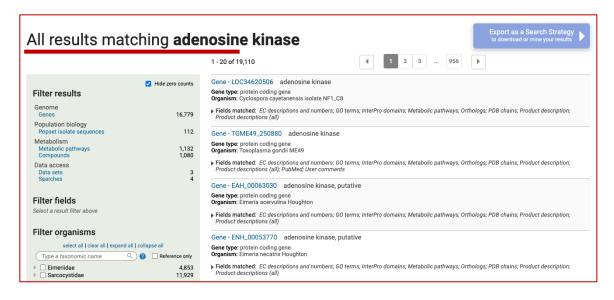


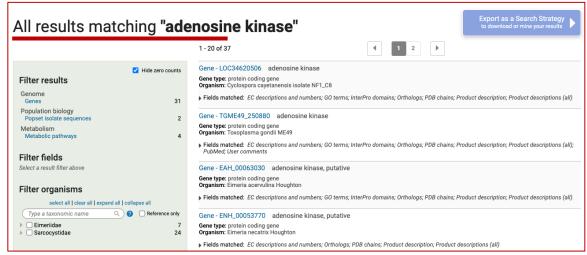
9. Run a wild card search. The wild card (denoted by an asterisk *) can be used alone to retrieve all site search results or combined with a word such as *kinase to retrieve compound words ending with the word kinase like phosphofructokinase. As usual, results can then be explored using the filters in the Results filter on the left side of the website. Feel free to compare the results you get when you run a search of the word kinase to a search with a wild card *kinase or *kinase*.





10. **Search for an exact term.** Quotation marks around your search term can make your search results more precise. This ensures only results containing the exact phrase you are looking for are retrieved. Search for the term *adenosine kinase*. Now run the same search with quotation marks: "*adenosine kinase*". Can you observe a difference?





11. Search for a specific gene ID. Enter the gene ID in the site search window:

TGME49_311100. When there is an exact match for an ID in the database, the site search offers a card in the details panel to draw attention to the direct link to the gene page. Although your search for TGME49_311100 does return a direct link to the gene in *T. gondii* ME49, it also returns links to two other genes. Why?

Genes matching TGME49_311100

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