

Gene/Gene Search tutorial

This tutorial is intended to explain the features of the gene/gene set search tool in the genesetdb tool available at "<http://genesetdb.auckland.ac.nz/haeremai.html>".

The user interface:

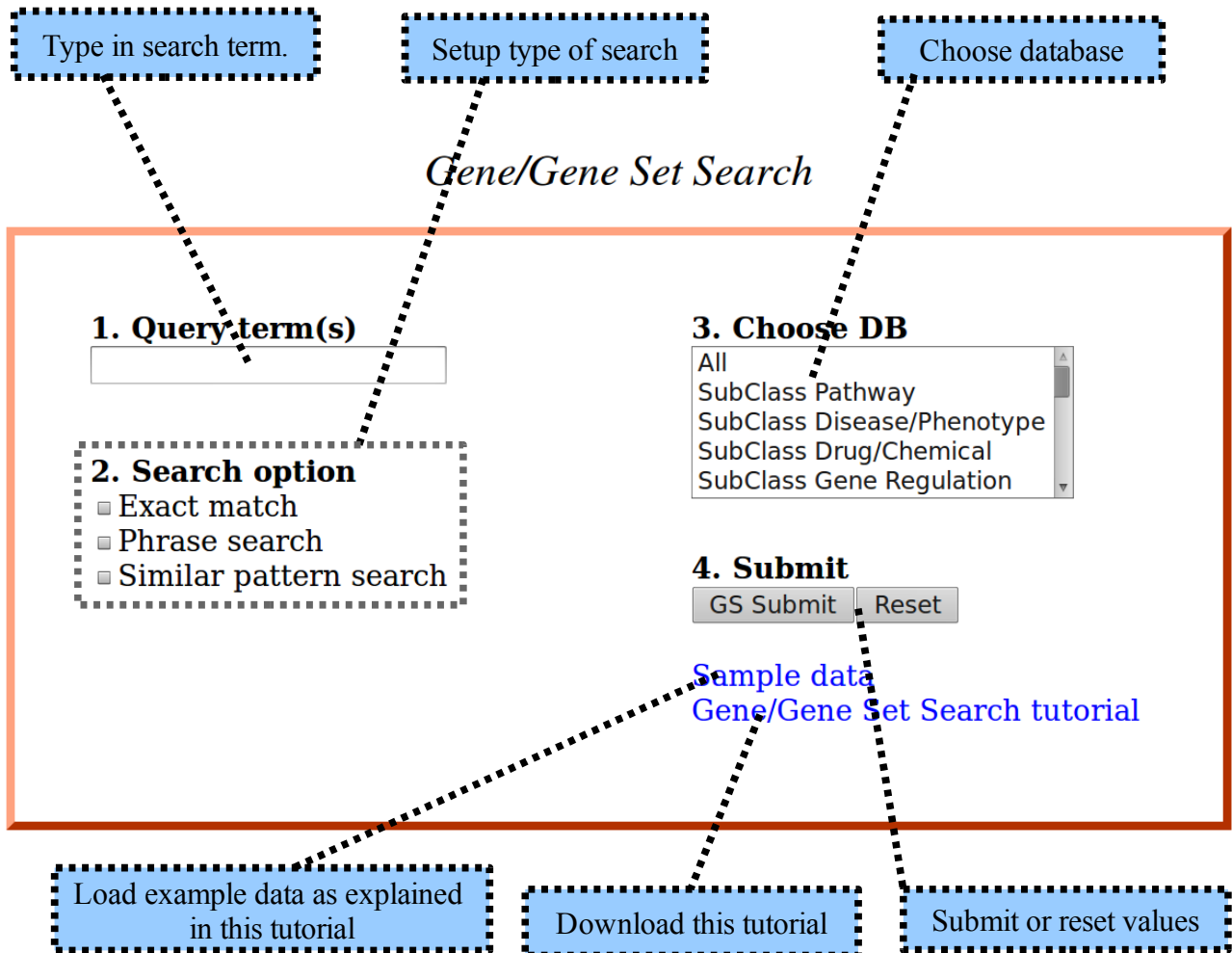


Fig. 1: Short explanation of the interface.

1. Query terms

Type in the search term for your search. For this tutorial we will type in “FOXL2 lung cancer imatinib”.

Gene/Gene Set Search

1. Query term(s)
FOXL2 lung cancer imatinib

2. Search option

- Exact match
- Phrase search
- Similar pattern search

3. Choose DB

- All
- SubClass Pathway
- SubClass Disease/Phenotype
- SubClass Drug/Chemical
- SubClass Gene Regulation

4. Submit

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Fig.2: Type in the search term and select the setting for the search.

2. Search Option

Now, we need to specify the type of search. Three possible choices are available. In this tutorial we tick “Phrase search” (Fig. 3). Genesetdb will search the database for every term in the search term separately. All entries containing the gene symbol “FOXL2” the words “lung”, “cancer” and “imatinib” will be in the output.

For more information on the search settings, please read the help page.

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GS Submit Reset

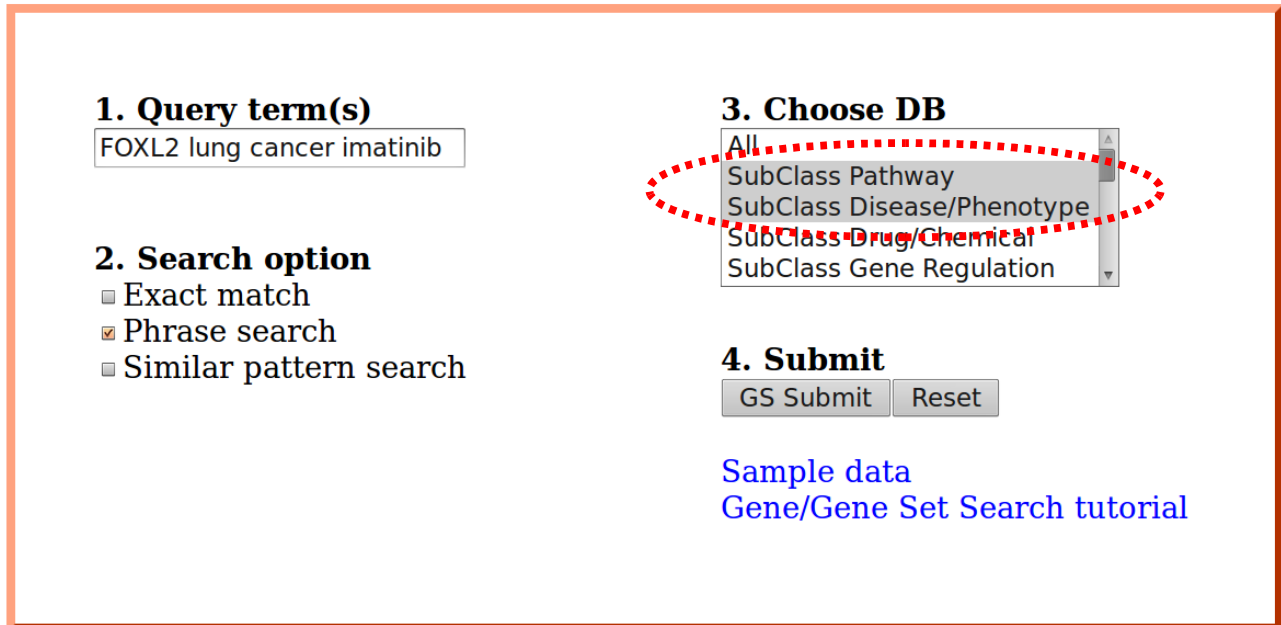
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Fig. 3: Select type of search.

3. Choose DB

Select the databases you want to search. In this tutorial we will select “SubClass Pathway” and “SubClass Disease/Phenotype” (Fig. 4). If you want to select more than one database press ”Ctrl” and click at the database you wish to select or deselect.

Gene/Gene Set Search



The screenshot displays the 'Gene/Gene Set Search' interface. It is divided into four main sections:

- 1. Query term(s)**: A text input field containing the query "FOXL2 lung cancer imatinib".
- 2. Search option**: Three radio button options: "Exact match", "Phrase search" (which is selected), and "Similar pattern search".
- 3. Choose DB**: A dropdown menu with the following options: "All", "SubClass Pathway", "SubClass Disease/Phenotype", "SubClass Drug/Chemical", and "SubClass Gene Regulation". A red dashed oval highlights the "SubClass Pathway" and "SubClass Disease/Phenotype" options.
- 4. Submit**: Two buttons labeled "GS Submit" and "Reset".

Below the submit buttons, there are two blue hyperlinks: "Sample data" and "Gene/Gene Set Search tutorial".

Fig. 4: Select the databases of your choice.

3. Press Submit

The “GS Submit” button will start the search with the given settings.

4. Press Reset

The reset button will clear all values back to default.

5. Load the values for this tutorial

For convenience, it is possible to load the exact values as described in this tutorial into the web interface. This gives the user a working example to see how the web interface could be filled in.

6. Download this tutorial

If the link “Download Gene/Gene Set Search tutorial” is clicked this tutorial can be downloaded.

If you have any questions or problems, please do not hesitate to contact us via

bioinformatics@auckland.ac.nz

Happy analyzing!