

Using the caBIO Portlet Simple Search Tool to Find Diseases and Compounds Associated with a Gene

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To Print the Guide

We recommend you print one wiki page of the guide at a time. To do this, click the printer icon at the top right of the page; then from the browser File menu, choose Print. Printing multiple pages at one time is more complex. For instructions, refer to [How do I print multiple pages?](#).



Having Trouble Reading the Text?

Resizing the text for any web page is easy. For information on how to do this in your web browser, refer to this [W3C tutorial](#) .

Selecting a Gene Search Term

The [caBIO Portlet Simple Search](#) tool creates an auto-populated list of caBIO terms that match the characters you have entered (1). Thus, you may select any of these suggested terms that match your disease concept of interest (for example, "TOP2A") to search for objects that match the term. If you would like to use a more general search term in order to retrieve objects that are associated with more than one disease term (for example, any cancer term associated with the ovary), you may use the "*" wild card character, which will replace zero or more characters (for example, a search for "TOP*").

caBIO Portlet



The [caBIO portlet](#) is a portal user interface built on top of the caBIO APIs. [caBIO](#) is a repository of data useful in biomedical research, compiled from multiple primary sources.



Simple Search

Templated Searches

About

top|

Search

dna [topoisomerase](#), type ia, central
 dna [topoisomerase](#), type iia, subunit a or c-terminal
[topotecan](#)
[toprim](#)
[top2a](#)
[topoisomerase](#)
[top2b](#)
[topoisomerase inhibitors](#)
[topoisomerase-ii inhibitor](#)
[topoisomerase-ii inhibitors](#)

US

PRIVACY NOTICE

DISCLAIM



Simple Search Tool Retrieved Results

Once you have found a search term (1), click the Search button (2). If you would like, you may refine your search by clicking the Advanced Options (3). The Exclude field allows you to exclude objects that match your desired terms. You may select the format for retrieved results as lists of "simple" records, the default setting, or as objects. The Simple view returns at most three pieces of information from each retrieved object: the object name in blue text, miscellaneous data specific to the object's type in black text, and the type name in green text. You can view all of the object's attributes and data by clicking on the blue object name link. Alternatively, the Objects view will give a list of all attributes and metadata from retrieved objects.



Note

Due to space constraints and the nature of the Simple Search (that is, you must click through to a separate caBIO viewer to find the desired diseases and compounds), you will likely not find this view to be a useful option.


You may also increase the number of results per page from the default value of five to either ten or fifteen. Finally, if you enter multiple keywords, you may define whether to search for objects with attributes that contain any of the keywords, the default setting or that contain all of the keywords. This advanced option is only useful if you do not take advantage of the auto-populated list of matched search options.



Search Tip

It is strongly advised for you to select 15 returned results per page from the Advanced Options.

Simple Search queries retrieve lists of caBIO objects. The list is formatted such that, in general, three pieces of information are shown for each object - a blue link to all of the object's attributes and data, type-specific information (not present for these objects) in black text, and the object's type in green text. You do not have to first search the NCI Thesaurus to find an appropriate search term or code. Review the list of retrieved objects, clicking through to subsequent results pages, until you find an Evidence type object (green box).



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Advanced Options

Match Terms: ☒ any ☐ all

Exclude:

View: ☒ simple ☐ objects

Results per page:

Results 11 - 15 of 128 for top2a

[We sought to identify the frequency of amplification of the topois...](#)
Evidence

[The clinical implications of TOP2A amplification and deletion in b...](#)
Evidence

[CONTEXT: The Topoisomerase IIalpha \(TOP2A\) protein is the target o...](#)
Evidence

[TOP2A and HER-2 gene amplification in fine needle aspirates from b...](#)
Evidence

[Excess copies of the TOP2A were also seen at the DNA level in 10 o...](#)
Evidence

[Previous](#)
[1](#)
[2](#)
[3](#)
[4](#)
[5](#)
[6](#)
[7](#)
[8](#)
[9](#)
[10](#)
[...](#)
[26](#)
[Next](#)

Once you click on the object's name, you may review the sentence, [sentence status flag](#), [cell line indicator](#), and [negation indicator](#) data for the object (1). In order to view the gene associated with this piece of evidence, you must use the caBIO Object Graph Browser.



Warning!

If you do not want to spend time navigating through the caBIO object model for candidate gene-disease or gene-compound/agent associations that were found to be false positives, unclear, or redundant to other data, you should first view the check that the [sentenceStatus](#) attribute is set to finished and the [negationIndicator](#) to no (1) before opening the caBIO Viewer (2).

To open the browser, click the [Open this record in the caBIO Object Graph Browser](#) link at the bottom of the page (2). A new window or tab in your web browser should open and display the [Evidence](#) type object. To return to the list of retrieved results, you may return to the Simple Search window or tab in your web browser and click the "Return to results" link (3).

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▼ Advanced Options

Match Terms: ☒ any ☐ all

Exclude:

View: ☒ simple ☐ objects

Results per page: 5 ▼

3 « Return to results

1 Evidence

negationStatus	no
comments	
celllineStatus	no
sentenceStatus	finished
pubmedId	10469452
bigid	
sentence	Among the 70 primary tumors with ERBB2 amplification, amplification of TOP2A was found in 29 (41%); 30 tumors (43%) showed a physical deletion of TOP2A ; and the copy number for TOP2A was not altered in 11 tumors with ERBB2 amplification (16%).

External Links

2 • [Open this record in the caBIO Object Graph Browser](#)

You must scroll to the right, represented as the black double line breaks in the Browser record, and click the `getGeneFunctionAssociationCollection` method link (1, blue box). You will then view links to access the Diseases or Genes (or even possibly both) that are associated with the gene and evidence, which will be grouped by the `GeneDiseaseAssociation` or `GeneAgentAssociation` type. To find the disease associated with a `GeneDiseaseAssociation` type object, click the `getDiseaseOntology` method link (2, blue box). You then can view the associated disease term name and EVS Identifier (3, blue box). To find the disease associated with a `GeneAgentAssociation` type object, click the `getAgent` method link, and view the associated compound term name and EVS Identifier (not shown).

Criteria: gov.nih.nci.cabio.domain.Evidence					
1-1 of 1					
gov.nih.nci.cabio.domain.Evidence					
bigid	celllineStatus	sentenceStatus	evidenceCodeCollection	geneFunctionAssociationCollection	interactionCollection
-	no	finished	getEvidenceCodeCollection	getGeneFunctionAssociationCollection	getInteractionCollection

1

Criteria: Evidence[@id=1193462]

| 1-1 of 1 |

gov.nih.nci.cabio.domain.GeneDiseaseAssociation

bigid	id	role	source	gene	evidenceCollection	diseaseOntology
-	19609246	Gene_Product_Increased_in_Disease	Cancer Gene Index	getGene	getEvidenceCollection	getDiseaseOntology

2

Criteria: GeneDiseaseAssociation[@id=19658304]					
gov.nih.nci.cabio.domain.DiseaseOntology					
bigid	EVSId	id	name	childDiseaseOntologyRelationshipCollection	
hdl:/2500.1.PMEUQUCL5/TOIZ2HXAVR	C7550	5677	ovarian serous adenocarcinoma	getChildDiseaseOntologyRelationshipCollection	5

3