

EmBiology Insights guide: NEW search filters

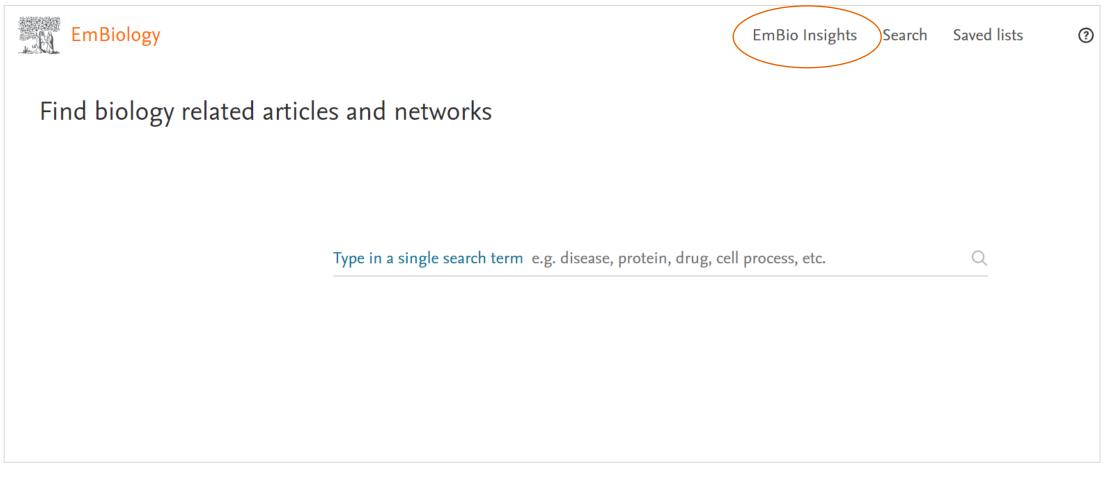
(Refer to pages 9-11 for new filter workflow)

June 2024



Select EmBio Insights to upload and find information about multiple genes/proteins*

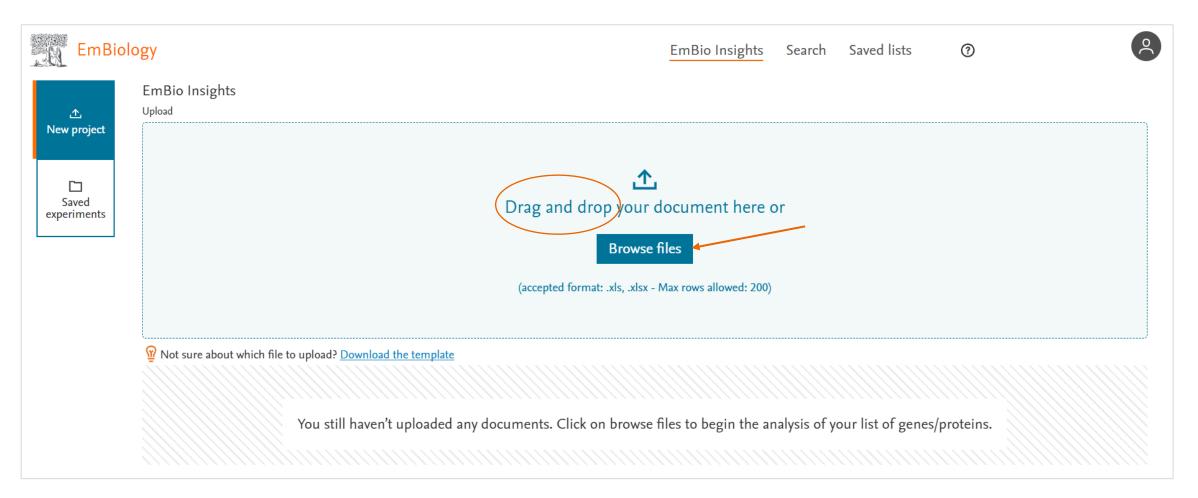




* Genes and proteins fall into the same concept type in EmBiology – for the remainder of this guide, they will be referred to as Proteins

Uploading list of proteins



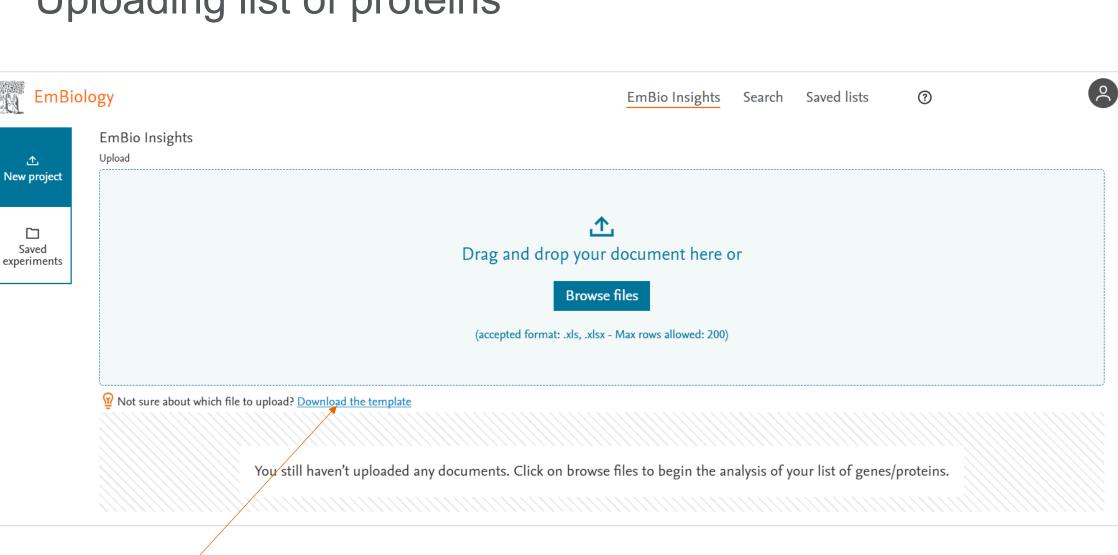


Drag files into the centre of the page or upload documents by clicking 'Browse files' You can upload a list of up to 200 proteins in an xls or xlsx format

Uploading list of proteins

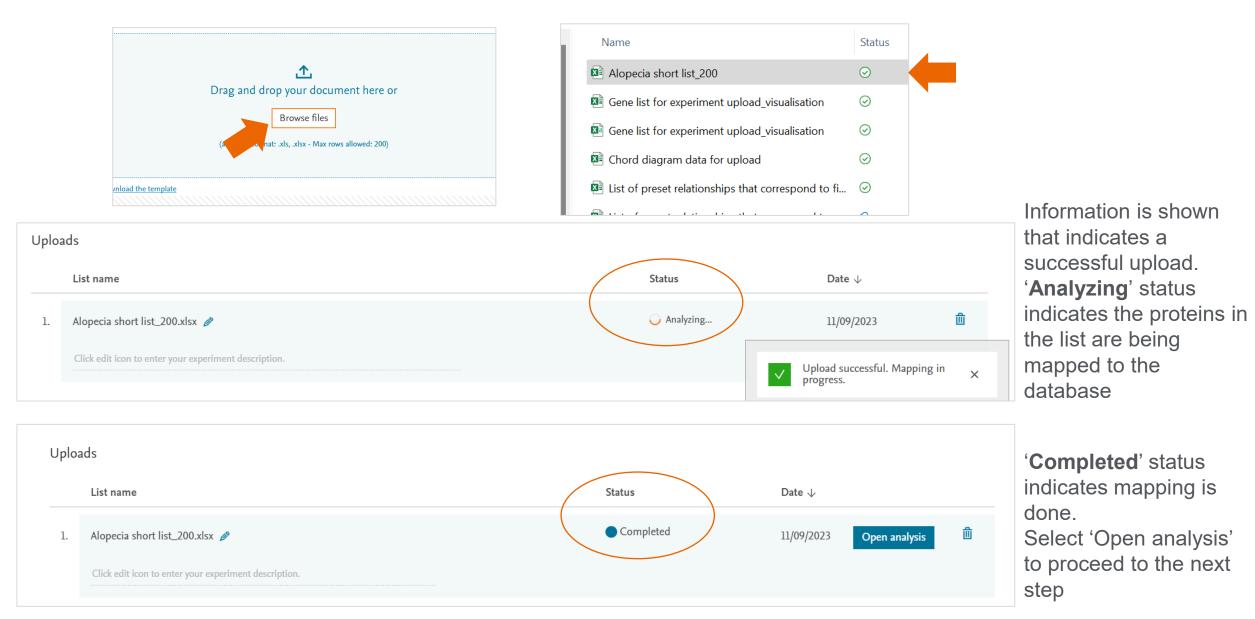
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Saved



See an example of what the file should look like by clicking 'Download the template'

E.g., browse files to upload and map to the database



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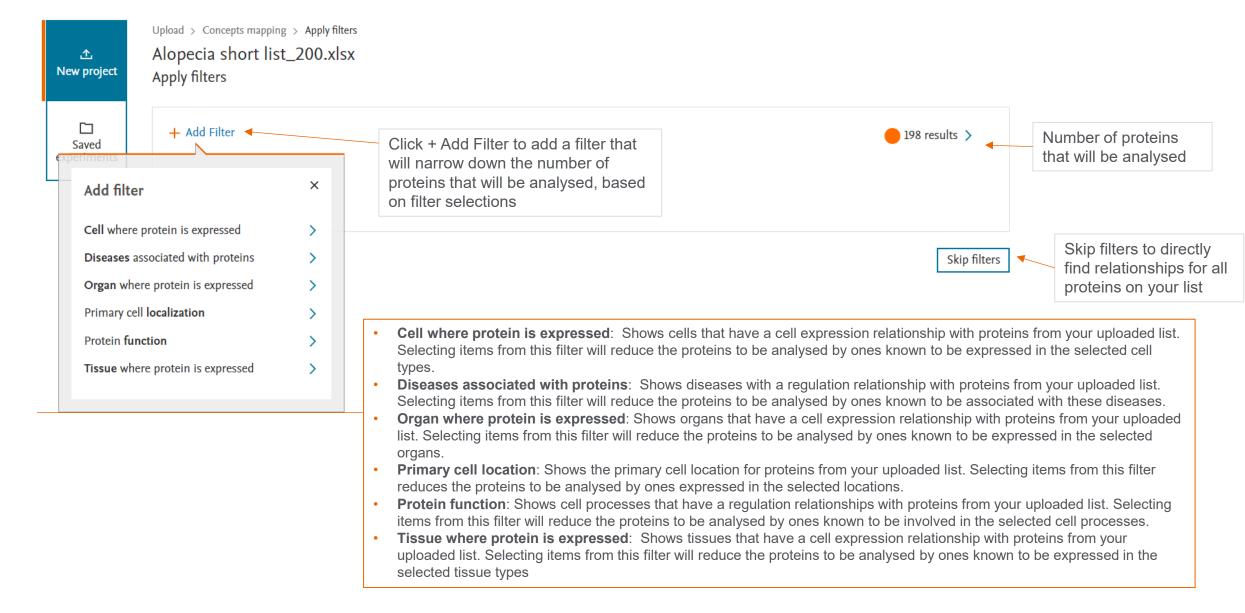
To see relationships for all proteins on your list, click find connections – or apply additional filters



Proteins (198)	Database match (196/198)	Total references	Concept type	Description from databases		
A2ML1 >	•	43	Protein	Alpha-2-macroglobulin like 1	-	Use the scrollbar to see all proteins in
A4GALT >	•	84	Protein	Alpha 1,4-galactosyltransferase (p blood group)		your list
AAAS >	•	107	Protein	Aladin wd repeat nucleoporin		
AACS >	•	115	Protein	Acetoacetyl-coa synthetase		
AADACL3 >	0	0	Protein	Arylacetamide deacetylase like 3		
AADAT >	•	237	Protein	Aminoadipate aminotransferase		
AAED1 >	0	4	Protein	Peroxiredoxin like 2c		
	-	skip filters see relatio proteins o	d connections' t and immediate onships for all n your list – ski or this workflow	p to		Apply filters to narrow down your list of proteins before identifying connections for the proteins in your list

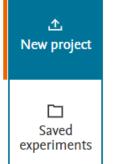
Applying filters to your uploaded list of proteins





Select the question to investigate, which will define the relationships searched





Upload > Concepts mapping > Apply filters > Find connections Alopecia short list_200.xlsx

Select a question

I'm looking for...

Diseases associated with proteins in my list Diseases that are positively regulated by proteins on my list Diseases that have known biomarkers in my list Diseases that have (potential) novel biomarkers in my list Cell processes regulated by proteins in my list Expression targets (proteins) regulated by proteins in my list Common regulators (proteins) of proteins in my list Drugs that directly interact with proteins in my list Drugs that regulate proteins in my list

Find Q

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Filters applied: downstream direction, positive effect, Regulation relationship

Click 'i' to see the relationships that are applied to address each question

Use the NEW filters to narrow down your search



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From < 1963

Supporting references

Relation filters

upstream

Binding

Effect All

positive

negative

undefined

unknown

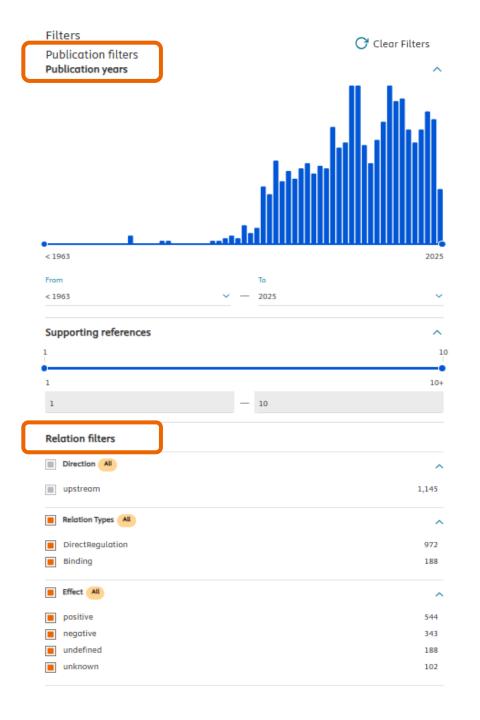
Relation Types All

DirectRegulation

Filters

Publication filters

Publication years



Take advantage of the NEW filters to refine your results by Publications or by Relations.



Publication Filters

Publication years: Allows filtering by specific years. For example, setting the lower limit to 1992 and upper limit to 2021 means results will include all articles published between the years 1992 and 2021.

References: Allows filtering by a specific number of references per relation. For example, if the No. references per relation = 5, results will include articles where all primary relationships are supported by 5 or more references.

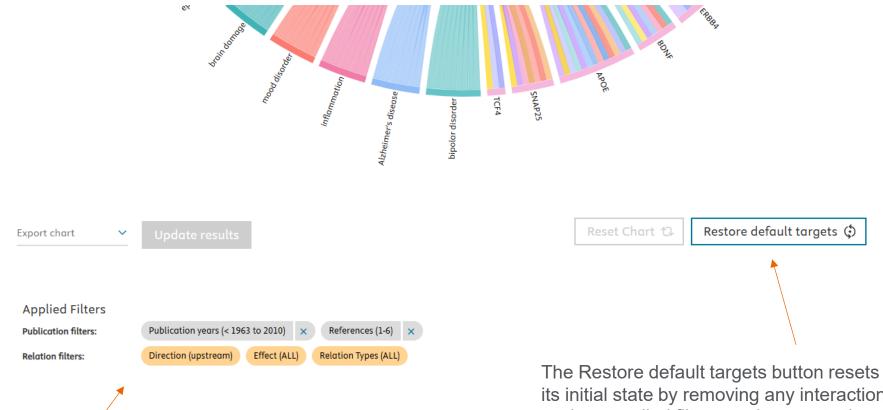
Relation Filters

Direction: results will include articles where all primary relationship are 1) upstream (meaning concepts act on the search term) or 2) downstream (concepts are acted on by the search term). The filter option is disabled (greyed out) when there is only one possible choice, based on the original question being examined.

Relation Types: results will include articles where all primary relationships are of the selected type(s).

Effect: results will include articles where all primary relationships are of the selected effect(s) – positive, negative, unknown (meaning the effect of the relationship has not been identified) and undefined (meaning the relationship type does not have a positive/negative effect).





The applied filters will appear here. You can add or remove selected filters, and the chart will update automatically. The Restore default targets button resets the interface to its initial state by removing any interactions you've made, such as applied filters or changes to the selected items in the chart. It will return to the starting point, showing the first 25 results connected with the highest number of proteins from the uploaded list.