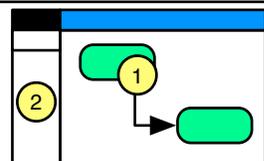


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[see the Manual online](#)

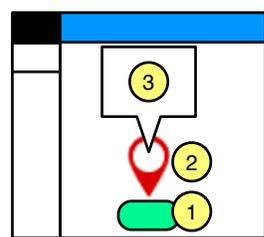
POINT AND CLICK

See annotations for elements and reactions



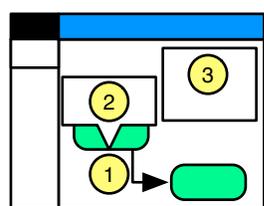
- 1 **Left click** on an element or reaction
- 2 Annotation is displayed in the left panel

Look for drug/chemical/miRNA targeting an element

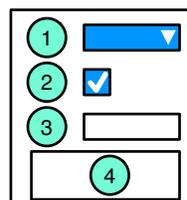


- 1 **Left click** on an element (protein, RNA)
- 2 **Left click** on the pin to invoke the popup
- 3 Search for drugs, chemicals and miRNA targeting this element

Leave comment

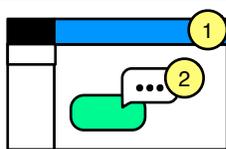


- 1 **Right click** where you want to comment
- 2 **Choose** 'Add comment' from the popup menu
- 3 Fill out the comment form shown below



- 1 **Type:** you can choose to link the comment to an element nearby
- 2 **Pinned:** makes comment visible on the map (see 'Browse' below)
- 3 **Your details** (only for map admins)
- 4 **Your comment**

Browse visible comments

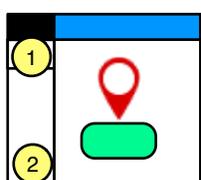


- 1 **Select** 'Comments' tick box to show all visible comments (pinned), see above

'Refresh' button becomes available

- 1 **Left click** on 'Refresh' to update visible comments
- 2 **Left click** on comment icons displays the comment id and text

Change between active tabs



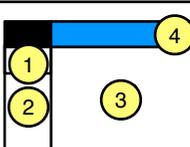
- 1 The following tabs are available: Search, Overlay, Submaps, Info
- 2 Note that annotations of selected elements are retained when the active tab is changed

See 'Help' text

'**Help**' button can be found next to many interface elements. **Left click** on the button shows a small description of associated function.

SEARCH

Set the scope of the search



- 1 **Select** an active search subtab to change the scope of the search (see below)
- 2 Use semicolon (;) to search for multiple terms, each term has a separate tab

- 3 Search results are marked by pins specific for the scope (as below) and different colors for multiple terms

- 4 **Clear** button removes all search results from the map

Available scopes

- Search:** look for elements and interactions in the map by name or synonym. Returns all matching terms. Selecting 'Perfect match' makes 'Search' look for exact matches
 - **by reaction id:** put 'reaction:' before reaction id e.g. 'reaction:re1234'
 - **by PubMed:** put 'pubmed:' before searched PubMed id e.g. 'pubmed:1234567'. Literature search also in 'Info' tab
 - **by element type:** put element type before searched term e.g. 'RNA:MAPT'. Type must match the ones in the map

Drug: look for drugs targeting elements in the map. Looks for synonyms and brand names. Sources: drugbank.ca, ebi.ac.uk/chembl/

Chemical: look for small molecules interacting with elements in the map. Looks for exact names, synonyms not handled, in doubt check the source: ctdbase.org

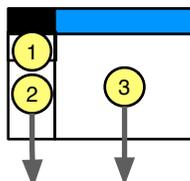
miRNA: look for drugs targeting elements in the map. Accepts full, mature miRNA ids, e.g. hsa-miR-125a-3p (see mirbase.org). Source: mirtarbase.mbc.nctu.edu.tw

DATA OVERLAYS

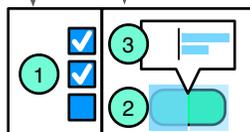
Access and use General Overlays

- 1 **Select** 'Overlays' tab

- Map display mode** changes how the map is shown
 - 'Pathways and compartments' masks elements by compartments on zoom out
 - 'Network' always shows the entire network structure
 - 'Empty' removes all coloring and masking; recommended for exploring data overlays



- 2 **Select** a tick box to display an overlay (an overlay may take time to load)
- 3 Elements colored by an overlay will be visible on the map



- 1 Multiple overlays can be shown
- 2 Elements are colored by multiple overlays

- 3 **Left click** on the colored part element to see normalized values assigned to colors (e.g. differential expression)

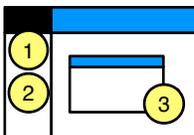
Download overlay data; **mouse over** the icon to see the description of the dataset

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[see the Manual online](#)

SUBMAPS

Access and use Submaps



- 1 Select 'Submaps' tab
- 2 Left click on the magnifying glass icon  to display the submap

3 The submap will appear over the main map

Search in Submaps

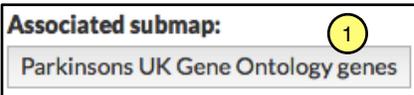


Search browses submap contents as well

Search results are then highlighted by 'In submap:' text

- 1 Left click on the submap name in search results displays the submap

Use 'anchor elements' to open Submaps

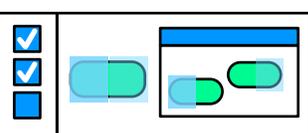


Certain elements in the map and submaps, called anchors, are associated with a given submap

Anchors are annotated as 'Associated submap:'

- 1 Left click on the submap name in the annotation displays the submap

Data overlays in Submaps

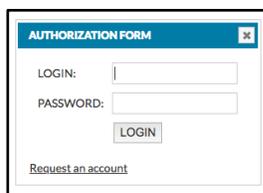


Data overlays will color corresponding elements in the map and in submaps at the same time

LOGIN

Registered user login

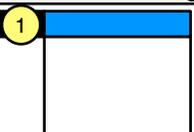
Registered users can log in to upload their data overlays and to edit their profile. They can login at two locations: 'Overlays' and 'Info' tabs, by left click on the 'Login' button



Enter the login and password provided to you by map admins. After logging in, you will be able to:

- in the 'Overlays' tab upload your data overlays
- in the 'Info' tab edit your profile information

Administrator login



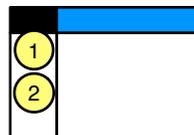
Administrators can log in to manage the map contents and the users.

- 1 Left click on the lock icon in the left upper corner of the window

Use the lock icon **only** if you are the administrator of the map

INFO

Access and use Info



- 1 Select 'Info' tab
- 2 Explore information about the map

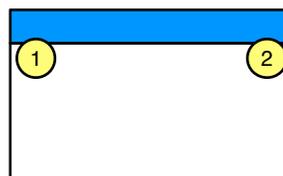
Available information

Project info: name, version and description of the map

Data: advanced information about the map

-  - **n publication(s)** - number of articles supporting the map, the count of PubMed ids for elements and interactions
-  - **Left click** to access publication search (see below)
-  - **Source file** - link to the original files used to construct the map. **Left click** to download
-  - **Export** - export the contents of the map. **Left click** to access the export menu (see below)
-  - **Manual** - detailed user manual for the map. **Left click** to access

Publication search



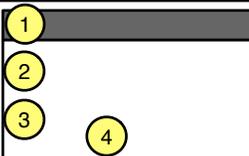
Publication search is accessible from the 'Info' tab (see above). It displays the list of publications for the map with filtering options

- 1 Set number of items per page
- 2 Filter publications by given term, e.g. the author's surname, a keyword in the title or PubMed id

Available information

- **PubMed id** of the paper (it is also a hyperlink to the respective publication on PubMed)
- **Title, Authors, Journal, Year** of the paper
- **Elements on map** - ids of the map elements and interactions annotated with this PubMed id; these are direct links to the elements and interactions in the map

Export map elements, interactions or graphics



Export menu is accessible from the 'Info' tab (see above). Three export options are available

- 1 Select export option Elements, Network or Graphics

Elements/Network export

- 2 Choose 'Type/Node', 'Columns' and 'Annotations' for exported elements/interactions. 'Columns' describe what parameters will be exported, available for 'Elements' export only
- 3 Include or exclude compartments and pathways, for which elements should be exported
- 4 Download the file

Graphics export

- 2 Choose map or submap to be exported
- 4 Download the file in PNG, PDF or SVG format