CrownBio

CONNECTING SCIENCE TO PATIENTS

Manual for the use of *in vitro* module of XenoBase

Contents

Manual for use of *in vitro* module of the XenoBase:

The new *in vitro* module of XenoBase allows you to search for and browse not just the results for *in vivo* studies, but also now the *in vitro* results we have published in XenoBase.

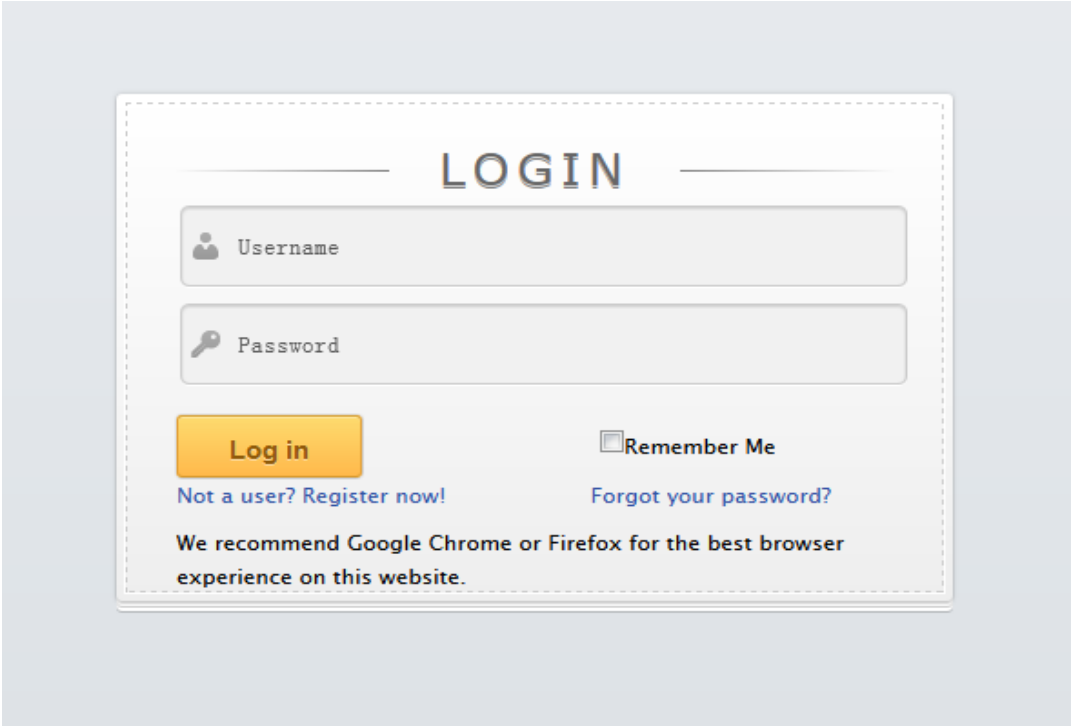
You can search for relevant models base of different criteria – cell line, Standard of Care drug names or other key words such as “NSCLC”.

A summarized and curated dataset for each cell line is available such as subtype and histopathology, to save time searching for further information.

Each model has an instance link to the corresponding *in vivo* Xenograft data already published in XenoBase, including tumor growth curves, Immunohistochemistry, pathology data and Standard of Care data.

1. Log in

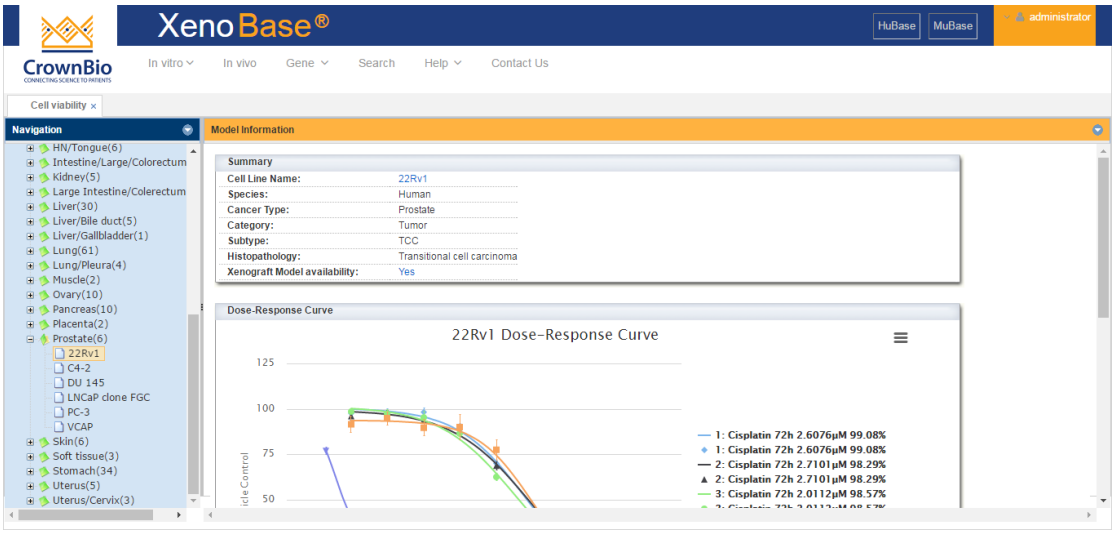
Type "https://xenobase.crownbio.com " into the address bar of the browser, the login page should appear as below:



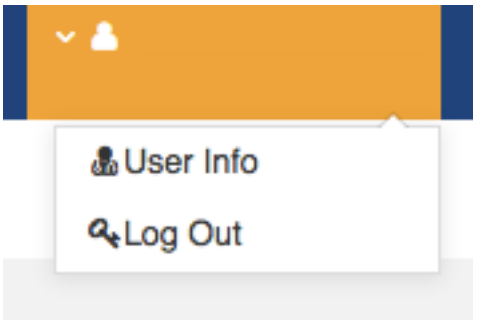
If checked "Remember Me" you will stay logged in for 1 week.

If clicked "Forgot your password" you will retrieve your password.

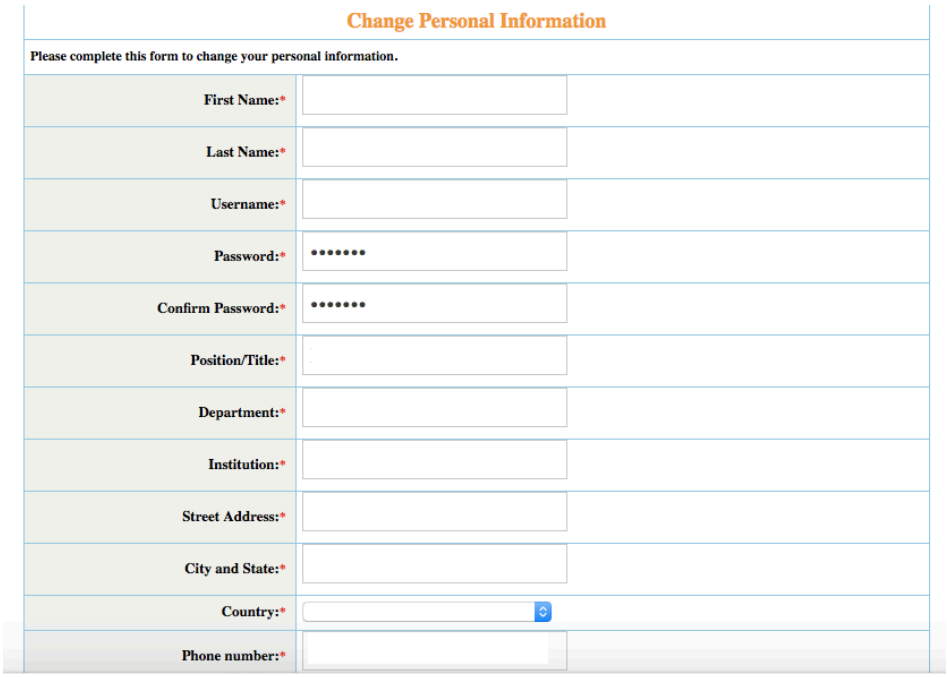
Type in your username, password, and click "Log in". XenoBase opens at the “Cell Viability” tab similar to the screenshot below:



You can change your personal information by clicking the top right corner of the page where your name is visible. This will drop down a menu and you can click on “User Info”:

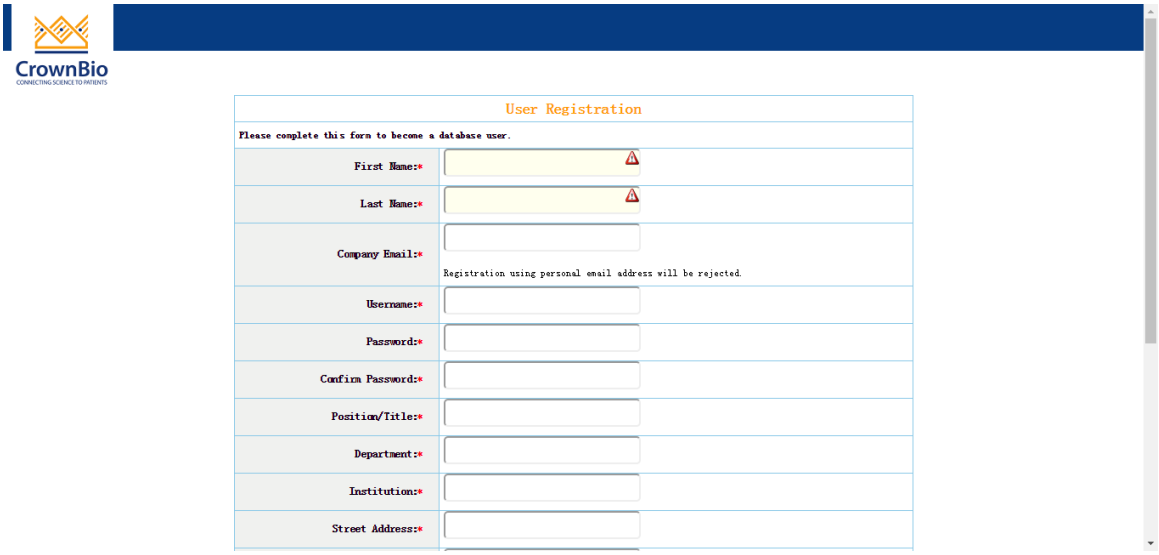


A new page will then open containing your personal information. You can edit this page and when you have finished, click “submit” at the bottom of the page. Your information is updated and the page closes:



2. Register

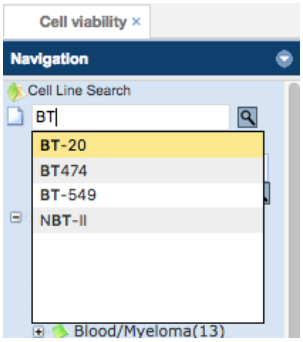
If you do not have an account, click the "Not a user? Register now!" link on the login page. The User Registration page will open. Complete all the fields and click submit. A dialogue box will open to inform you that your registration request has been successfully submitted. Once your request is received, we will process your application within one working day, and you will receive an email confirming that your registration is active:



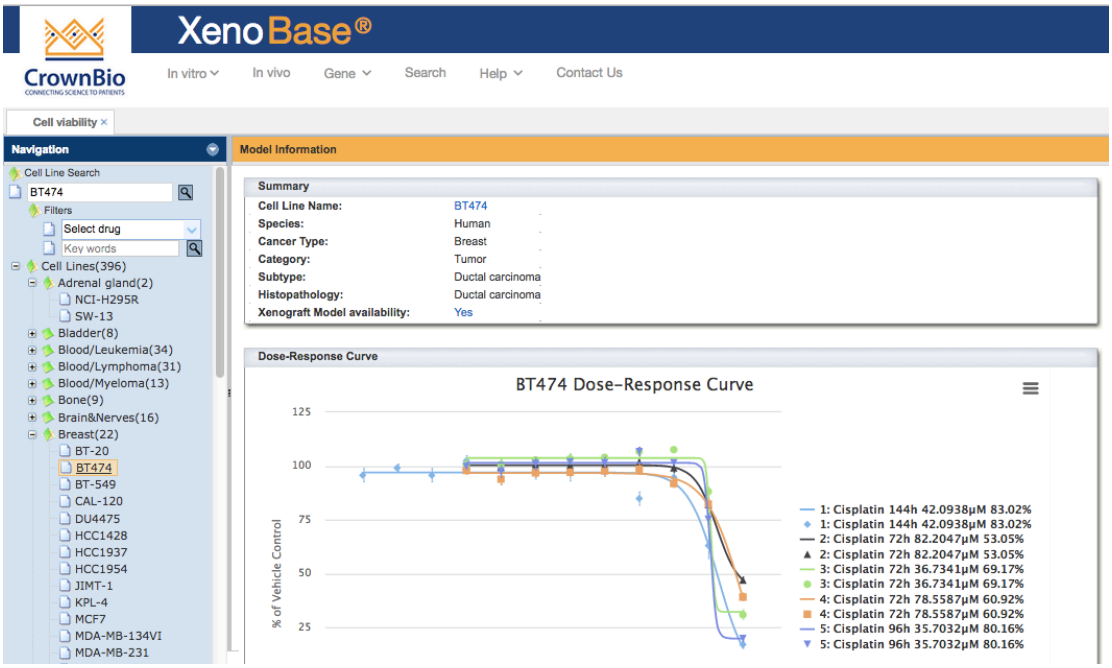
3. *in vitro*-Cell viability

To begin to use the in vitro Cell Viability tab, you can either:

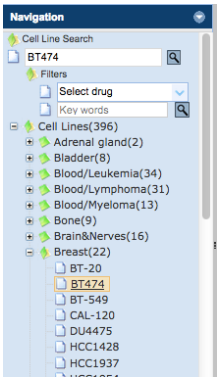
1) In the Navigation Panel on the Left hand side, select a cell line by beginning to type in the name of the model, and then clicking  . The cell line search has type-ahead so as you type you see the potential cell line names that fit the criteria and you can select a model from the list.

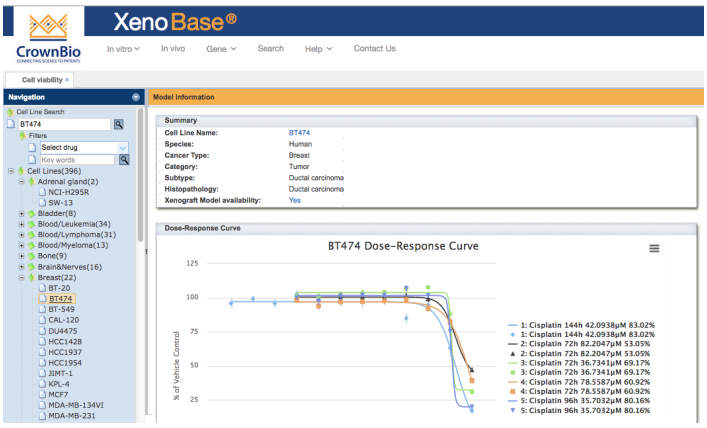


Once selected, the Pharmacology information will appear in the right hand pane.



2) Drop down one of the cancer types in the Navigation panel, and then select the cell line you wish to review. In this case BT474. The cell line data then appears in the right hand pane.

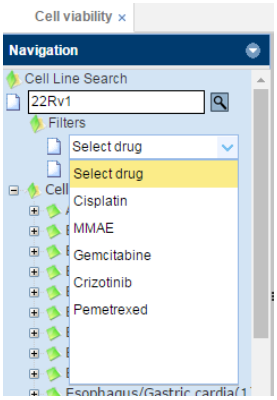




3.1 Filters

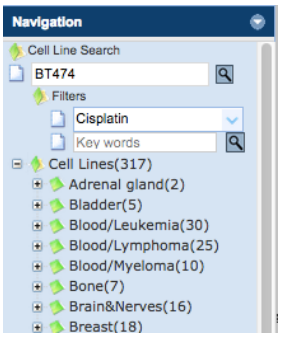
3.1.1 Filter by drug selection

You can constrain the number of models which will be displayed to only cell lines which have been data from being challenged with specific drug by selecting the "**Select Drug**" box under Filters prompt.



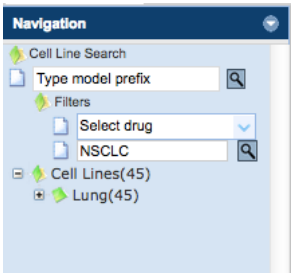
A drop down menu appears of the drugs you can select from. Simply select the drug and the list in the Navigation panel will be limited to those models with relevant data. For example if you select Cisplatin, 317 models have data for Cisplatin out of the 396

in the database.



3.1.2 Filter by Key words

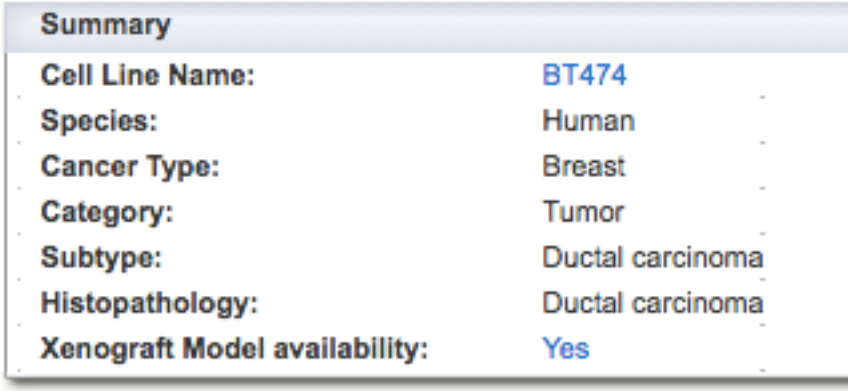
You can limit the models displayed by checking the “Key words” box under Filters prompt. Simply enter the text you wish to search for and hit  . In this example, we entered NSCLC and only those lung models that have NSCLC in their content are displayed.



3.2 Model Information

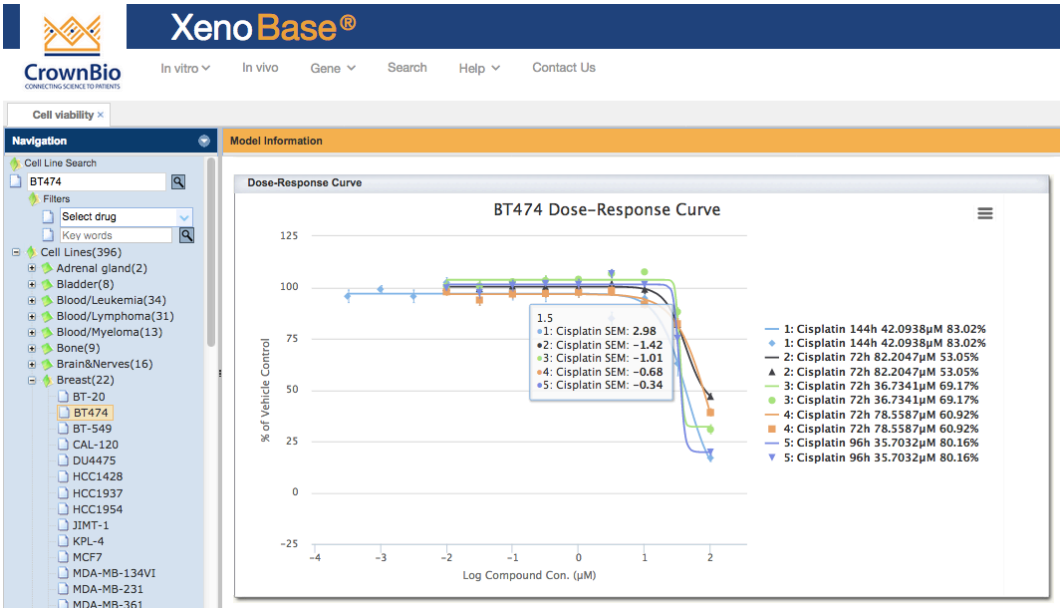
3.2.1 Summary

After a model has been selected, the model information is displayed in the right hand pane.



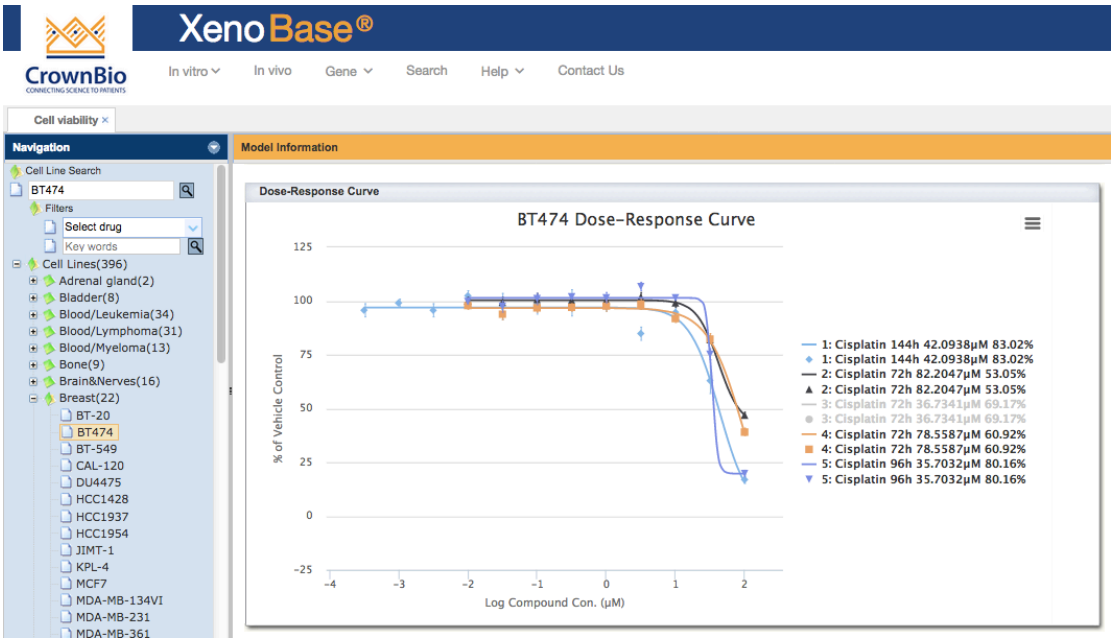
3.2.2 Dose-Response Curve

Under the summary model data, the Dose-Response Curve data is displayed.



Additionally, as you hover over the dose response curves, a popout box appears listing the dose response curves.

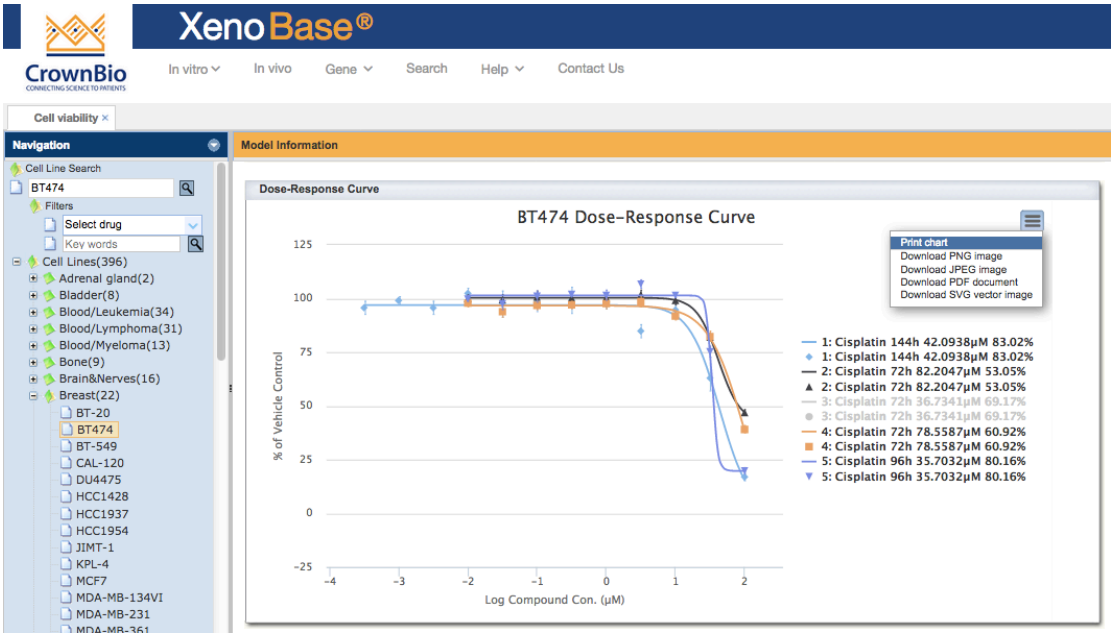
You can deselect a curve or its associated data points by clicking on the lsit to the right of the dose response curves. In this case we have deselected the green curve and data points.



Simply clicking on the grayed out list items reselects them for viewing.

In the top right hand corner of the Dose Response panel, there is a drop down menu

from which you can choose to print or download picture files or PDF.



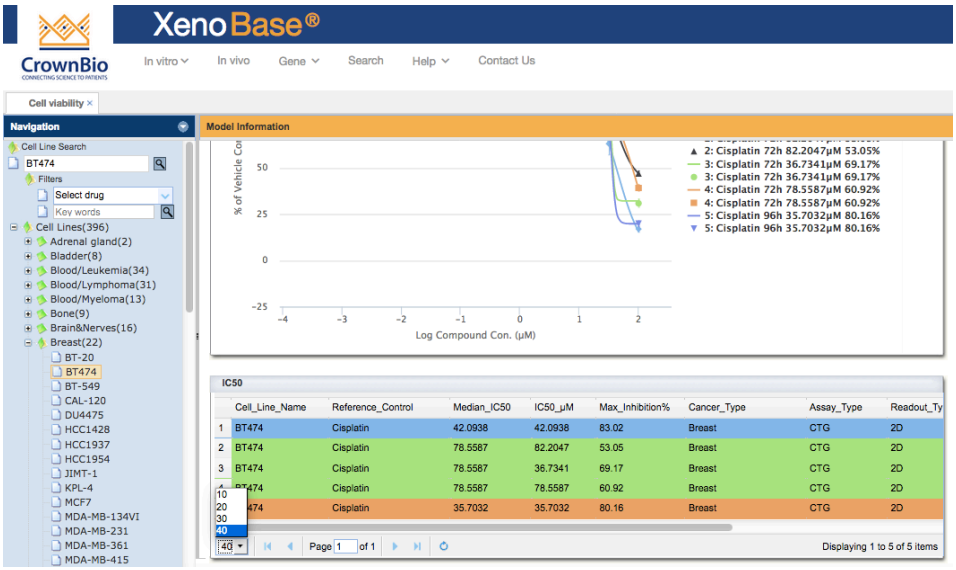
3.2.3 IC50

The IC50 data from the studies in the Dose Response is displayed in the last panel of the right hand pane. In the bottom left hand corner you can select the number of rows that will be visible per page.

IC50

	Cell_Line_Name	Reference_Control	Median_IC50	IC50_μM	Max_Inhibition%	Cancer_Type	Assay_Type	Readout_Ty
1	22Rv1	Cisplatin	2.65885	2.6076	99.08	Prostate	CTG	2D
2	22Rv1	Cisplatin	2.65885	2.7101	98.29	Prostate	CTG	2D
3	22Rv1	Cisplatin	2.65885	2.0112	98.57	Prostate	CTG	2D
4	22Rv1	Cisplatin	2.65885	2.9463	98.04	Prostate	CTG	2D
5	22Rv1	Gemcitabine	0.0079	0.0079	77.94	Prostate	CTG	2D

10 ▾ Page 1 of 1 Displaying 1 to 5 of 5 items



2. Contact Us- Contact Us

If you would like additional information about any of our products or services, or to talk to one of our staff about your project and how we might be able to help, we'd certainly like to hear from you. We welcome the opportunity to discuss your requirements, answer your questions, and deliver the details that you need.

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3. Log out

To Logout, simply drop down the menu under your name in the top right corner and click log out.