

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

Version 1.0 ©2016 XenoBase

## Contents

Ма	nual for use of In vitro module of the XenoBase:	3
1.	Log in	3
2.	Register	5
3.	In vitro-Cell viability	6
3	3.1 Filters	8
3	3.2 Model Information	9
4.	Contact Us- Contact Us	.11
5.	Log out	.13

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

LO	GIN
👗 Username	
🔎 Password	
Log in	Remember Me
Not a user? Register now!	Forgot your password?
We recommend Google Chrome experience on this website.	or Firefox for the best browser

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:

Xe	no Base®		Hu	Base MuBase	administrator
CrownBio In vitro ~	In vivo Gene ∽ Sea	rch Help Y Contact Us			
Cell viability ×					
Navigation 😔	Model Information				•
	Summary Cell Line Name: Species: Cancer Type: Category: Subtype: Histopathology: Xenograft Model availability: Dose-Response Curve	22Rv1 Human Prostate Tumor Tumor Transitional cell carcinoma Yes			<u>~</u>
	125 100 75 100 75 50	22Rv1 Dose-Response Curve	<ul> <li>1: Cisplatin 72h 2.6076µM 99.08%</li> <li>1: Cisplatin 72h 2.6076µM 99.08%</li> <li>2: Cisplatin 72h 2.7101µM 98.29%</li> <li>3: Cisplatin 72h 2.7101µM 98.29%</li> <li>3: Cisplatin 72h 2.7101µM 98.27%</li> </ul>	≡	

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:

Change Personal Information					
Please complete this form to change your personal information.					
First Name:*					
Last Name:*					
Username:*					
Password:*	•••••				
Confirm Password:*	•••••				
Position/Title:*					
Department:*					
Institution:*					
Street Address:*					
City and State:*					
Country:*	C O				
Phone number:*					

## 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:

CrownBio				
CONNECTING SCIENCE TO PATIENTS				
		User Registration		
	Please complete this form to become a	database user.		
	First Name:*			
	Last Name:*			
	Company Email:*	Registration using personal email addres	zz will be rejected.	
	Username:*			
	Password:*			
	Confirm Password:*			
	Positian/Title:*			
	Department:*			
	Institution:*			
	Street Address:*			

## 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.

Xer	noBase®	
CrownBio CONNECTING SCENCE TO MATERIAS	In vivo Gene - Search Help - Contact Us	
Cell viability ×		
Navigation 😔	Model Information	
Cell Line Search     BT474     Filtes     Select drug     Key words     Cell Lines(336)     Adrenal gland(2)     NCI-H295R     SHadder(8)     Bladder(8)	Summary       Cell Line Name:     BT474       Species:     Human       Cancer Type:     Breast       Category:     Tumor       Subtype:     Ductal carcinoma       Histopathology:     Ductal carcinoma       Xenografi Model availability:     Yes	
<ul> <li>Biood/Leupemin(34)</li> <li>Biood/Lymphoma(31)</li> <li>Biodd/Wyeloma(13)</li> <li>BrainRNerves(16)</li> <li>BrainRNerves(16)</li> <li>Brast(22)</li> <li>BT-20</li> <li>BT-20</li> <li>BT-44</li> <li>CAL-120</li> <li>DU4475</li> <li>HCC1428</li> <li>HCC1954</li> </ul>	Dose-Response Curve         ET474 Dose-Response Curve           125	E
<ul> <li>JIMT-1</li> <li>KPL-4</li> <li>MCF7</li> <li>MDA-MB-134VI</li> <li>MDA-MB-231</li> </ul>	• 3: Cisplatin 72h 36.7341µM 69.17% • 4: Cisplatin 72h 36.7341µM 69.17% • 4: Cisplatin 72h 78.5587µM 60.92% • 5: Cisplatin 72h 78.5587µM 60.92% • 5: Cisplatin 96h 35.7032µM 80.16% • 5: Cisplatin 96h 35.7032µM 80.16%	

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.

Summary	
Cell Line Name:	BT474
Species:	Human
Cancer Type:	Breast
Category:	Tumor
Subtype:	Ductal carcinoma
Histopathology:	Ductal carcinoma
Xenograft Model availability:	Yes

## 3.2.2 Dose-Response Curve

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

🛛 衬 Xe	noBase®
CrownBio CONVECTIVE SCIENCE TO MATIENTS	In vivo Gene V Search Help V Contact Us
Cell viability ×	
Navigation 👻	Model Information
Cell Line Search BT474 Cittere	Dose-Response Curve
Select drug Key words Cell Lines(396)	BT474 Dose-Response Curve
Adrenat gland(2)     Bladder(8)     Bladder(8)     Blood/Leukemia(34)     Blood/Leukemia(34)     Blood/Leukemia(34)     Blood/Leukemia(34)     Blood/Leukemia(34)     Blood/Leukemia(34)     Blood/Leukemia(34)     Brada     Br-20     Br-20     Br-20     Br-34     BT-549     CAL-120     DU4475     HCC1437     HCC1437     HCC1937     HCC1954     HTT-1	100 75 50 50 50 50 50 50 50 50 50 5
MCF7 MDA-MB-134VI	-25 -4 -3 -2 -1 0 1 2 Log Compound Con. (µM)

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.

IC	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		
	۲									
10	) 🔻 📢 Pag	ge 1 of 1 🕨 🕨	Ó				Displaying 1	to 5 of 5 items		

Xe	enoE	Base®	l.						
CrownBio CONNECTING SCENCE TO MATERIAS	<ul> <li>In vive</li> </ul>	o Gene ∽	Search Hel	p ∽ Contact	Us				
Cell viability ×									
Navigation	Model In	formation							
■ El Line Search           ■ B474         ■           ■ Bidet         ■           ■ Select drug         ■           ■ Keywords         ■           ■ Cell Lines(396)         ■           ■ Address Igland(2)         ■           ■ Bidder(8)         ■           ■ Bidder(8)         ■           ■ Silocd/Lvuckmia(34)         ■           ■ Silocd/Lvuckmia(31)         ■           ■ Silocd/Lvuckmia(31)         ■           ■ Silocd/Lvuckmia(13)         ■           ■ Silocd/Lvuckmia(13)         ■           ■ Silocd(22)         ■	% of Vehicle Cor	50 25 0 -25	-3 -2 Log	-1 0 g Compound Con. (p	iM)	2	▲ 2: Cisplatin 77 → 3: Cisplatin 72 → 3: Cisplatin 72 → 4: Cisplatin 72 ← 4: Cisplatin 72 ← 4: Cisplatin 94 ▼ 5: Cisplatin 96	21: 82.2047μM 53.055 21: 36.7341μM 69.175 18.7341μM 69.175 21: 78.5587μM 60.925 21: 78.5587μM 60.925 21: 78.5587μM 60.925 21: 35.7032μM 80.167 21: 35.7032μM 80.167	- - - - - - - - - - - - - - - - - - -
BT474	IC50								
CAL-120	Ce	I_Line_Name	Reference_Control	Median_IC50	IC50_uM	Max_Inhibition%	Cancer_Type	Assay_Type	Readout_Ty
	1 BT	474	Cisplatin	42.0938	42.0938	83.02	Breast	CTG	2D
HCC1937	2 B1	474	Cisplatin	78.5587	82.2047	53.05	Breast	CTG	2D
- HCC1954	3 B1	474	Cisplatin	78.5587	36,7341	69.17	Breast	CTG	2D
U JIMI-1	4 01	474	Cisplatin	78 5587	78 5587	60.92	Breast	CTG	2D
- MCF7	10	474	Cisplatin	35 7032	25 7022	80.16	Broast	CTG	20
- MDA-MB-134VI	30		Cispiduit	33.7032	33.7032	00.10	Diodot	013	20
DA-MB-231	40	1							
MDA-MB-361	40 -	j 📢 🖣 Pa	ige 1 of 1 🕨 🕅	0				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.

## **North America**

#### Crown Bioscience Inc.

3375 Scott Blvd., Suite 108 Santa Clara, CA 95054 Tel: 855.827.6968 Fax: 888.882.4881

#### Crown Bioscience San Diego

11011 Torreyana Road San Diego, CA 92121 Tel: 858.622.2900 Fax: 858.622.2938

### Europe

#### **Crown Bioscience UK Ltd**

Hillcrest Dodgeford Lane Belton Loughborough LE12 9TE UK Tel:+44 (0)870 166 6234 Fax: +44 (0)870 166 6233

#### China

#### **Crown Bioscience Inc. (Beijing)**

Light Muller Building Changping Sector of Zhongguancun Science Park, No.21 Huoju Street Changping District Beijing P.R. China 102200 Tel: +86-10-5633-2600 Fax: +86-10-5633-2700/2800

#### **Crown Bioscience Inc. (Taicang)**

Science & Technology Innovation Park No.6 Beijing West Road Taicang City Jiangsu Province P.R. China 215400 Tel: +86-512-5387-9999 Fax: +86-512-5387-9801

#### Taiwan

#### **Crown Bioscience Inc.**

333 Keelung Road Xinyi District Taipei Taiwan 11012 Tel: +886-2757-6690

# 3. Log out

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

