

The GenTaR Web Application Sandbox

<https://www.gentar.org/production-tracker-sandbox/#/>

A stable prototype for you to test

- Data replaced every Saturday
- **NOT** the final version
- feedback really welcome

Sandbox data

Some public data from iMits has been loaded into the database.

For demonstration purposes a few changes have been made to the data:

Projects with genes starting with an 'A' have been made restricted

Projects with genes starting with a 'B' have been made protected

In iMits all the data is associated with CMG, but in the sandbox the project associated with the gene Atrx has been made an internal Baylor (BCM) project.

Difference in the data model compared to iMits:

- **Work Units / Work Group / Consortium**
 - GenTaR Work Units == iMits Centre (e.g. Harwell)
 - GenTaR Work Group == iMits Consortium (e.g. BASH)
 - GenTaR Consortium - collaborating projects - (e.g. CMG, Kids First)
- **Projects & plans**
 - GenTaR project == iMits plan
 - GenTaR plan (production) == iMits mi_attempt
- A GenTaR production plan can have multiple Outcomes
- Outcomes are linked to a colony or a specimen (haplo-essential project)
- Projects, Plans and Outcomes have identifiers

Working with the application

Public data

If you are not logged into the system you can view and search public data

This is the project view showing all public projects. This opens by default, but you can also open this view from the “Search Projects” item of the “Search” menu.

		Search	Account	Reports	Manual	Privacy Notice ⁱ	
<div>Gene symbol (s)</div> <div>Search</div> <div>Filters</div> <div>Work units</div> <div>Work groups</div>	Project summary		Allele Intentions	Gene Symbol / Location	Project Assignment	Privacy	Access Status
	Summary		Null	Cdc16	Assigned	public	✓
	Summary		Null	Cnm1	Assigned	public	✓
	Summary		Null	Ctnnd1	Assigned	public	✓
	Summary		Null	Cwf19l1	Assigned	public	✓
	Summary		Null	Dnah10	Assigned	public	✓
	Summary		Null	Efl1	Assigned	public	✓
	Summary		Null	Fsd1l	Assigned	public	✓
	Summary		Null	Klhl33	Assigned	public	✓
	Summary		Null	Lbr	Inspect - Conflict	public	✓
	Summary		Null	Nsdhl	Assigned	public	✓

Specific projects can be found by gene symbol or synonym

Gene symbol (s)

Prex2

Search

Search

Account

Reports

Manual

Privacy Notice

Search term	Search Result comments	Project summary	Allele Intentions	Gene Symbol / Location	Project Assignment	Privacy	Access Status
Prex2		Summary	Null	Prex2	Inspect - Conflict	public	✓

Filters

Work units

Work groups

Items per page: 20

1 - 1 of 1

< >

Alternatively, the projects can be filtered by Work Unit (a production centre such as TCP), or by a Work Group (e.g. BASH)

Search Account Reports Manual Privacy Notice						
Gene symbol (s) Search	Project summary	Allele Intentions	Gene Symbol / Location	Project Assignment	Privacy	Access Status
Filters Work units <input type="checkbox"/> Select/ Unselect All <input type="checkbox"/> APN <input checked="" type="checkbox"/> BCM <input type="checkbox"/> CAM-SU GRC <input type="checkbox"/> CCP-IMG <input type="checkbox"/> CDTA <input type="checkbox"/> CIPHE <input type="checkbox"/> CNB <input type="checkbox"/> CNRS	Summary	Null	Cdc16	Assigned	public	✓
	Summary	Null	Dnah10	Assigned	public	✓
	Summary	Null	Efl1	Assigned	public	✓
	Summary	Null	Fsd11	Assigned	public	✓
	Summary	Null	Kihl33	Assigned	public	✓
	Summary	Null	Lbr	Inspect - Conflict	public	✓
	Summary	Null	Prex2	Inspect - Conflict	public	✓
	Summary	Null	Prpf8	Assigned	public	✓

Clicking on the Summary link of a project gives you an overview of that project

Search Account Reports Manual Privacy Notice

History
Go back

Project Details.
Project id: TPN:000000005
Intentions:

Cdc16 - CDC16 cell division cycle 16
Mus musculus
Accession Id: MGI:1917207
Allele Type: Null
Molecular: Deletion
Mutation Type:

Assignment: Assigned
Status:
Active?: ☒
Privacy: public
Withdrawn?: ☐
Recovery?: ☐
Comment:

Status Stamps

Production Plans

Plan Details
Plan id: PIN:0000000005
Status: Micro-injection Complete
WorkUnit: BCM
[See plan](#)

Phenotyping Plans

Plan Details
Plan id: PIN:0000000006
Status: Phenotyping Started
WorkUnit: BCM
[See plan](#)

The project identifier

Production and phenotyping plans associated with the project

Each plan shows its current status

Clicking the “See plan” link shows detailed information about the plan.

Production plan

A production plan has information about the strategy used to produce the mouse line

SearchAccountReportsManual

Privacy Notice

Project TPN:000000005/ Plan PIN:000000005

HistoryGo back

Plan Details

Id:

PIN:000000005

Type:

production

Status:

Micro-injection Complete

Work Unit:

BCM

Funder:

KOMP2

Products available for general public?:

☒

Comment:

Project id:

Crispr Attempt Details

Attempt Type:

MI date:

Jan 23, 2018

MI external Ref:

Cdc16 Cas9ZyElectroA

Experimental:

☐

Comments:

LIMS Colony Prefix: CDZE B6/N Electroporation (30V, 12 pulses, 1 msec, 100 msec interval) Cas9 protein 480ng/ul 2 sgRNA pools 53.25ng/ul each in a total volume of 20ul Modified TE+OptiMem

Mutagenesis Details

Mutagenesis External Ref:

MF-23667

Delivery Method:

Electroporation

Voltage:

30

Number of pulses:

12

Guides

Sequence	Chr	Chr Start	Chr Stop	Truncated Guide	gRNA Concentration
CCTGGTGAAGCTAAGGCTTCGTT		13762678	Not defined		53.25
TATTGATTATACCTGTGCCTTGG		13762716	Not defined		
TTAAGGGCAAGGTACACAATAGG		13763130	Not defined		
CCTAATGTCTTCAGGTAGTAAGC		13763172	Not defined		

Genotype Primers

Name	Sequence	Start Coordinate	End Coordinate
Cdc16 KO F	AGTGTCAGGAAAGACAGGC	Not defined	Not defined
Cdc16 KO R	GCTCTGAGATTGGGACTTGGA	Not defined	Not defined
Cdc16 Endo R	CAAACCTTCCTGTGCTGTCAAG	Not defined	Not defined
Cdc16 Endo F	AGTGTCAGGAAAGACAGGC	Not defined	Not defined

Vector/Ologos (Mutagenesis Donors)

Concentration	Sequence	Preparation
---------------	----------	-------------

Phenotype plan

A phenotype plan has details about who is phenotyping the mouse

[Search](#) [Account](#) [Reports](#) [Manual](#) [Privacy Notice](#)

Project TPN:000000005/ Plan PIN:000000006

[History](#)
[Go back](#)

Plan Details

Id:

PIN:000000006

Type:

phenotyping

Production Plan reference:

Status:

Phenotyping Started

Work Unit:

BCM

Funder:

KOMP2

Products available for general public?:

☒

Comment:

To edit the information, you need to log into the system

GenTaR Sandbox Users

We have created a number of users in the sandbox so that you can explore the system from different perspectives.

Name	E-mail	Password	Workunit	Work unit Role	Consortium	Consortium Role	Description
CMG Manager	cmg-manager@ebi.ac.uk	cmg-manager			CMG	Manager	CMG only user (manager)
CMG	cmg@ebi.ac.uk	cmg			CMG	General	CMG only user (general)
BCM Manager	bcm-manager@ebi.ac.uk	bcm-manager	BCM	Manager			BCM Manager
BCM	bcm@ebi.ac.uk	bcm	BCM	General			BCM General
TCP	tcp@ebi.ac.uk	tcp	TCP	General			TCP General

Logging into the Web Application

You can find the “Sign In” option under the Account tab

SearchAccountReportsManual

Privacy Notice

Sign in

Login

Email

Password

Login

Data Access – Protected and Restricted Projects

Signing in as the Baylor (BCM) general user:

Shows all the public, protected and restricted projects and their access status for the Baylor user. Baylor has an association with the CMG consortium, so all CMG projects are visible to the Baylor user.

BCM

Search

Account

Projects

Reports

Manual

Privacy Notice

Gene symbol (s)

Search

Filters

Work units

Work groups

Project summary	Allele Intentions	Gene Symbol / Location	Project Assignment	Privacy	Access Status
Summary	Null	Atrx	Assigned	restricted	✓
Summary	Null	Bcor	Inspect - Conflict	protected	✓
Summary	Null	Bricd5	Assigned	protected	✓
Summary	Null	Bsdc1	Assigned	protected	✓
Summary	Null	Cdc16	Assigned	public	✓
Summary	Null	Cnm1	Assigned	public	✓
Summary	Null	Ctnnd1	Assigned	public	✓
Summary	Null	Cwf19l1	Assigned	public	✓
Summary	Null	Dnah10	Assigned	public	✓
Summary	Null	Efl1	Assigned	public	✓

Signing in as the TCP general user:

TCP has an association with the CMG consortium, so all CMG projects are visible, however the restricted project specific to Baylor is flagged with a different access status.

TCP

Search

Account

Projects

Reports

Manual

Privacy Notice

Gene symbol (s)

Search

Filters

Work units

Work groups

Project summary	Allele Intentions	Gene Symbol / Location	Project Assignment	Privacy	Access Status
Summary	Null	Atrx		restricted	
Summary	Null	Bcor	Inspect - Conflict	protected	
Summary	Null	Bricd5	Assigned	protected	
Summary	Null	Bsdc1	Assigned	protected	
Summary	Null	Cdc16	Assigned	public	
Summary	Null	Cnnm1	Assigned	public	
Summary	Null	Ctnnd1	Assigned	public	
Summary	Null	Cwf19l1	Assigned	public	
Summary	Null	Dnah10	Assigned	public	
Summary	Null	Efl1	Assigned	public	

Clicking on the project summary link as a TCP user just shows high level information about the project, the plans associated with the project are not shown.

eTCP

SearchAccountProjectsReportsManual

Privacy Notice


History
Go back

Project Details.
Project id: TPN:000000001
Intentions:

Atrx - ATRX, chromatin remodeler
Mus musculus
Accession Id: MGI:103067
Allele Type: Null
Molecular: Deletion
Mutation Type:
Assignment
Status:
Active?: ☒
Privacy: restricted
Withdrawn?: ☐
Recovery?: ☐
Comment:

Status Stamps

In contrast the BCM user has access to details of the plans to produce and phenotype the mice.




Search

Account

Projects

Reports

Manual

Privacy Notice 

History

Go back

Project Details.

Project id: TPN:000000001

Intentions:

Atrx - ATRX, chromatin remodeler

Mus musculus

Accession Id: MGI:103067

Allele Type: Null


Molecular Deletion

Mutation Type:

Assignment Assigned

Status:

Active?: ☒

Privacy: restricted 

Withdrawn?: ☐

Recovery?: ☐

Comment:

Update

Status Stamps

Production Plans

Plan Details

Plan id: PIN:0000000001

Status: Micro-injection aborted

WorkUnit: BCM

See plan

Editing a Record

A user logged into the system from a Work Unit that is directly associated with a project or a plan has a different view of the data that allows them to update it.

Compare the view of a protected project between the BCM and TCP users

BCM user:

BCM

Search

Account

Projects

Reports

Manual

Privacy Notice

Project TPN:000000004/ Plan PIN:0000000003

History

Go back

Plan Details

Id:

PIN:0000000003

Type:

production

Status:

Micro-injection Complete

Work Unit:

BCM

Funder:

KOMP2

Products available for general public?:

☒

Comment:

Project id:

Crispr Attempt Details

Attempt Type:

MI date:

1/23/2018

MI external Ref:

Bsdc1 Cas9ZyElectroA

Experimental:

☐

Comments:

LIMS Colony Prefix: BDZE

The data can be edited in this view.

The view for the TCP user of the same plan:

TCP

Search

Account

Projects

Reports

Manual

Privacy Notice

1

Project TPN:000000004/ Plan PIN:0000000003

History

Go back

Plan Details

Id:

PIN:0000000003

Type:

production

Status:

Micro-injection Complete

Work Unit:

BCM

Funder:

KOMP2

Products available for general public?:

☒

Comment:

Project id:

Crispr Attempt Details

Attempt Type:

MI date:

Jan 23, 2018

MI external Ref:

Bsdc1 Cas9ZyElectroA

Experimental:

☐

Comments:

LIMS Colony Prefix: BDZE B6/N Electroporation (30V, 12 pulses, 1 msec, 100 msec interval) Cas9 protein 480ng/ul 2 sgRNA pools 53.25ng/ul each in a total of 20ul Modified TE+OptiMem

Mutagenesis Details

Mutagenesis External Ref:

MF-23666

Delivery Method:

Electroporation

The TCP user can see the details but is not able to edit the data.

Managed Projects

A list of all projects that you manage can be obtained under the Projects menu when logged into the system as a member of a work unit.

<div><div>BCM</div><div><div>Search</div><div>Account</div><div>Projects</div><div>Reports</div><div>Manual</div></div><div><div>Privacy Notice</div></div></div>							
Project Id	External Reference	Marker Symbol(s)	Intention	Project Assignment	Privacy	Active/Inactive	Consortia
Type to filter	Type to filter	Type to filter	Select to filter	Select to filter	Select to filter	Active/Inactive	Consortia
TPN:000000001		Atrx	Null	Assigned	restricted	Active	
TPN:000000002		Bcor	Null	Inspect - Conflict	protected	Active	
TPN:000000004		Bsd1	Null	Assigned	protected	Active	
TPN:000000005		Cdc16	Null	Assigned	public	Active	
TPN:000000009		Dnah10	Null	Assigned	public	Active	
TPN:000000010		Etf1	Null	Assigned	public	Active	
TPN:000000011		Fsd11	Null	Assigned	public	Active	
TPN:000000012		Kih133	Null	Assigned	public	Active	
TPN:000000013		Lbr	Null	Inspect - Conflict	public	Active	
TPN:000000015		Prex2	Null	Inspect - Conflict	public	Active	
TPN:000000016		Prp18	Null	Assigned	public	Active	

Filters present at the top of the list can be used to locate specific projects

Filtered by Marker symbol

<div><div>BCM</div><div><div>Search</div><div>Account</div><div>Projects</div><div>Reports</div><div>Manual</div></div><div><div>Privacy Notice</div></div></div>							
Project Id	External Reference	Marker Symbol(s)	Intention	Project Assignment	Privacy	Active/Inactive	Consortia
Type to filter	Type to filter	Type to filter	Select to filter	Select to filter	Select to filter	Active/Inactive	Consortia
TPN:000000005		Cdc16	Null	Assigned	public	Active	

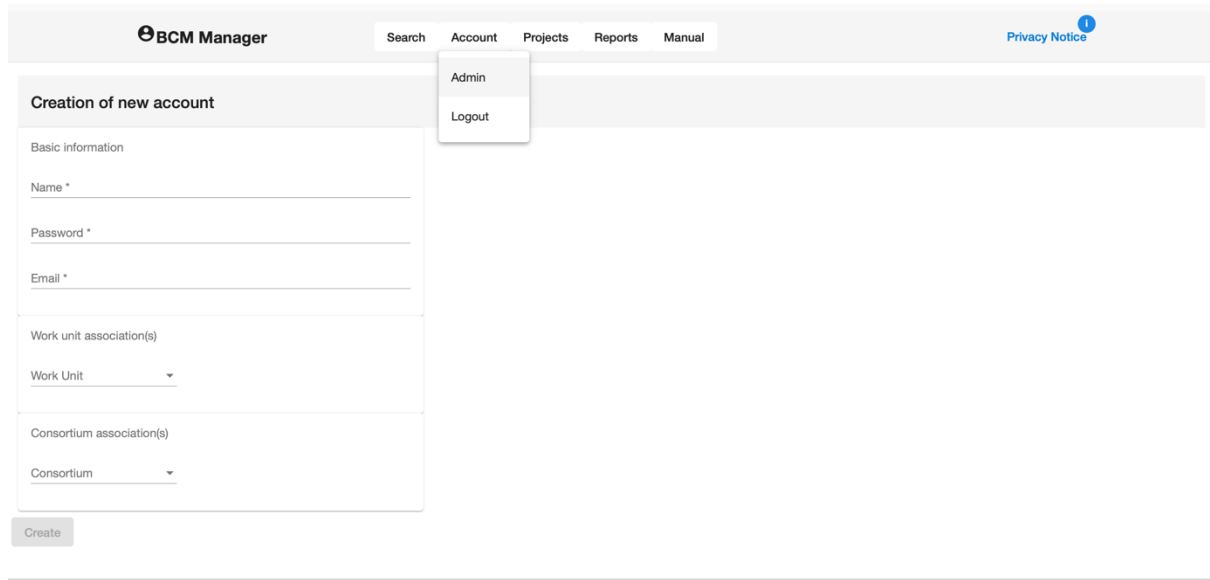
Filtered by data access policy

<div><div>BCM</div><div><div>Search</div><div>Account</div><div>Projects</div><div>Reports</div><div>Manual</div></div><div><div>Privacy Notice</div></div></div>							
Project Id	External Reference	Marker Symbol(s)	Intention	Project Assignment	Privacy	Active/Inactive	Consortia
Type to filter	Type to filter	Type to filter	Select to filter	Select to filter	Select to filter	Active/Inactive	Consortia
TPN:000000001		Atrx	Null	Assigned	restricted	Active	
TPN:000000002		Bcor	Null	Inspect - Conflict	protected	Active	
TPN:000000004		Bsd1	Null	Assigned	protected	Active	

Creating new users

Users who have the Manager role can create users associated with their Work Unit or Consortium.

This function is available from the “Admin” item of the “Account” menu, which only appears for a manager logged into the system.



The screenshot shows the 'BCM Manager' interface. At the top, there is a navigation bar with the logo 'BCM Manager' on the left and a search bar followed by menu items: 'Search', 'Account', 'Projects', 'Reports', and 'Manual'. On the far right of the navigation bar is a 'Privacy Notice' link with a small blue circle containing the number '1'. Below the navigation bar, the 'Account' menu is expanded, showing 'Admin' and 'Logout' options. The main content area is titled 'Creation of new account'. It contains a form with the following sections: 'Basic information' with fields for 'Name *', 'Password *', and 'Email *'; 'Work unit association(s)' with a 'Work Unit' dropdown menu; and 'Consortium association(s)' with a 'Consortium' dropdown menu. At the bottom left of the form is a 'Create' button.


The ability to delete users or reset the password will be added in the future.

Managed Gene Lists

A member of a consortium has access to the consortium gene list. There are separate lists for each consortium. The list can be used to record all genes of interest to the consortium, not just those entered into the production tracking system.

For genes on the list in the production pipeline

Every project associated with the gene is shown



Search

Account

Projects

Reports

Manual

[Privacy Notice](#)

Gene List for CMG

Please select the consortium for which you want to view/manage the gene list:


Consortium

CMG

Export

Gene(s)	Note	Associated Projects
Togaram1	Tier1	TPN:000000177 [Inspect - GLT Mouse]
Fivcr2		
Tomm40l		
Myh6	Tier1	
Acta2	Tier1	
Myh7	Tier1	
Csnk2a1		
Fam126a	Tier1	
Rac3		

The gene lists can be maintained by members of the consortium who have been assigned the Manager role. When they open the gene list page, they have a different view that allows them to edit the list or import additional genes from a CSV file.



Search

Account

Projects

Reports

Manual

[Privacy Notice](#)

Gene List for CMG

Please select the consortium for which you want to view/manage the gene list:

Consortium

CMG

Import

Export


Gene(s)	Note	Associated Projects
<div>Togaram1</div>	Tier1	TPN:000000177 [Inspect - GLT Mouse]
<div>Flvcr2</div>		
<div>Tomm40l</div>		
<div>Myh6</div>	Tier1	

The format of a CSV file is:
< gene symbol >, <note>

However, this is something that could change in a future version of the application.

Members of a work unit who are not a member of the consortium cannot view the gene list.

Members of the consortium can see all the information about public plans, as well as protected and restricted plans that are associated with the consortium, however they do not have permission to edit the plans or projects.



Search

Account

Projects

Reports

Manual

Privacy Notice

History

Go back

Project Details.

Project id: TPN:000000041

Intentions:

Cpsf1 - cleavage and polyadenylation specific factor 1

Mus musculus

Accession Id: MGI:2679722

Allele Type: Null

Molecular Deletion

Mutation Type:

Assignment Assigned

Status:

Active?: ☒

Privacy: public

Withdrawn?: ☐

Recovery?: ☐

Comment:

Status Stamps

Production Plans

Plan Details

Plan id: PIN:0000000044

Status: Micro-injection Complete

WorkUnit: BCM

See plan