

README.pdf for Brunn on Ubuntu

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1 Usernames and passwords

Ubuntu

This Ubuntu installation comes with running versions of Bioclipse and Brunn. It has a user with `sudo` powers which you might want to change the password for. Here is a list of all passwords in the system:

Program	User Credentials	
Ubuntu	username	brunn
	password	brunn
MySQL	username	root
	password	brunn

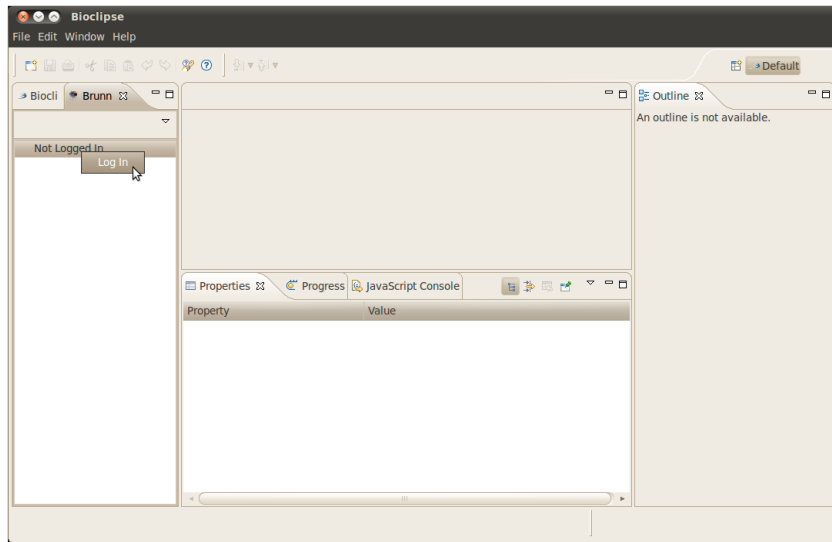
Brunn

There are two Brunn users created in the Brunn database.

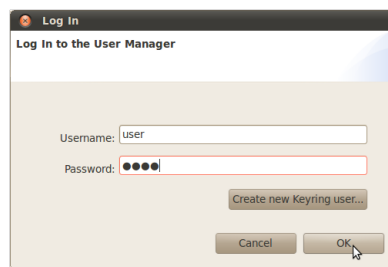
User type	User Credentials	
Administrator	username	admin
	password	admin
Standard User	username	user
	password	user

2 Getting started

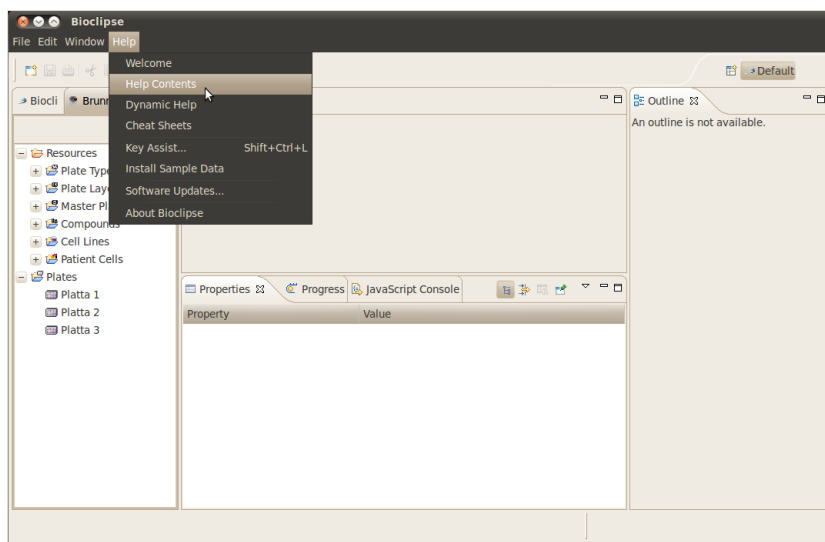
Start Bioclipse from the desktop. Bioclipse should start with the Brunn view to the left. Double click the **Not Logged In**, or right click and choose **Log In**.



Log in as one of the Brunn users. For example, **user** with password **user**.



To access the Brunn help, click **Help** and then **Help Contents**.



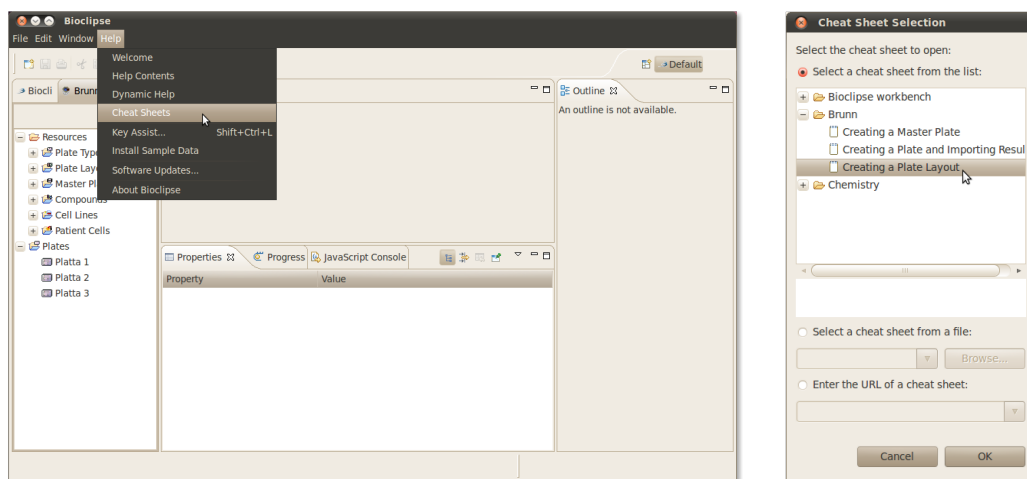
 A screenshot of the 'Help - Bioclipse' window. The left sidebar shows a 'Contents' list with categories like Balloon, Bioclipse Scripting, Bioclipse users manual, Brunn help (selected), Chemistry Development Kit user interface, External Libraries, JChemPaint, Jmol, Molecules Table, SMARTS matching, and The Web Services Plug-in. The main content area is titled 'Brunn overview' and contains a diagram and text.

Brunn overview

Brunn is a laboratory information system for Bioclipse.

A plate type defines the size, number of columns and rows, of a plate. A plate layout defines where on the plate the controls, number of compounds and the compounds are to be placed. Based upon this plate layout a number of equal plates are made, conforming to a so-called master plate that defines which drugs are placed in which wells. Each one of these plates is seeded with one cell type and incubated. After incubation, the plate is centrifuged and washed, and fluorescein diacetate is added. Then the plate is washed again, and incubated once more, before fluorescence generated from fluorescein diacetate transformed into a fluorescent by cells with intact cell membranes is measured with a microplate fluorometer. The measurements are imported into Brunn and can be viewed in the Plate editor.

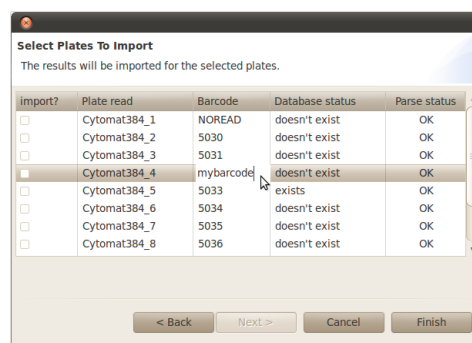
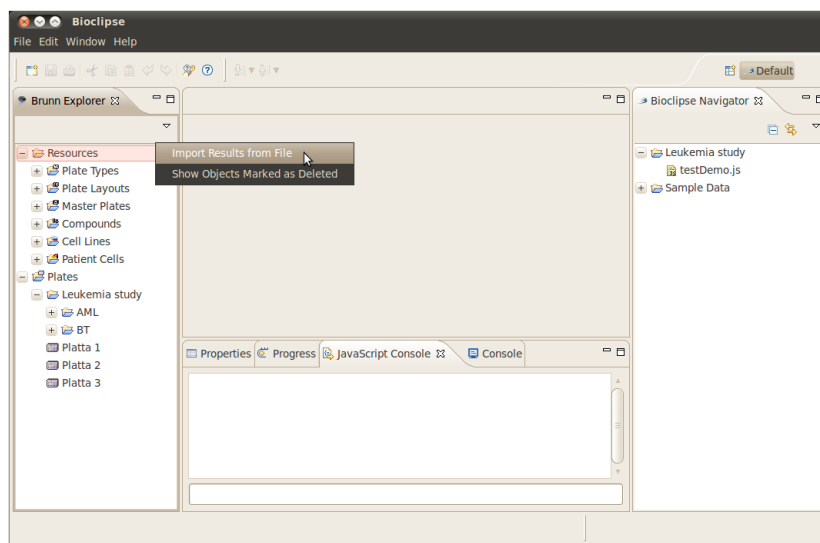
Cheat sheets are instructions for performing more specific tasks and can be displayed inside the Bioclipse application. To open a Brunn cheat sheet, click **Help** and **Cheat Sheets**, then select one of the Brunn cheat sheets.



3 Examples

Example data

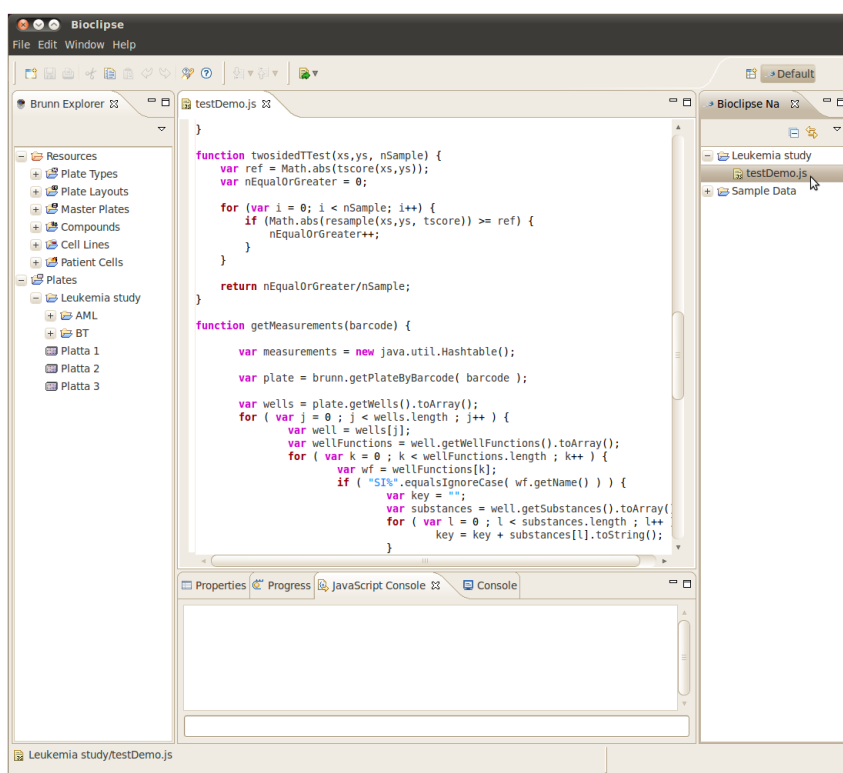
The database on this virtual box comes with a set of example plates with data imported for them and in the **example data** folder on the desktop are a series of files containing raw data for those and other plates. Although these files contain data from experiments and hence are run on some special plate layout they can of course be used as example data for any plates created while test running the system. During the import step, the barcode is read from the file but it can be changed into something else (*e.g.* the barcode of a newly created test plate which a user wants to populate with data) during the import step. Just try importing from one of those files and then change the barcode field in the table, and don't forget to check the box saying that you want to import data for that plate.



Example JavaScript

There is also an example JavaScript `exampleDemo.js` script available which gives a taste of what can be performed from the scripting environment. It can be found in the Leukemia Study folder in the Bioclipse Navigator view.

The `exampleDemo.js` script runs a t-test for one concentration of Melfalan on the two plate groups in the example data.



4 Updating

If updates are available on the update site, they can be installed by **Help** and **Software Updates...**. By default, the Updates dialog only lists update sites containing new versions so unless a new version of Brunn is available it will only show the two default Bioclipse update sites. If there are any desired updates on the site select to install them (if they have dependencies you can add those automatically by clicking **Select Required**) and install them.

