

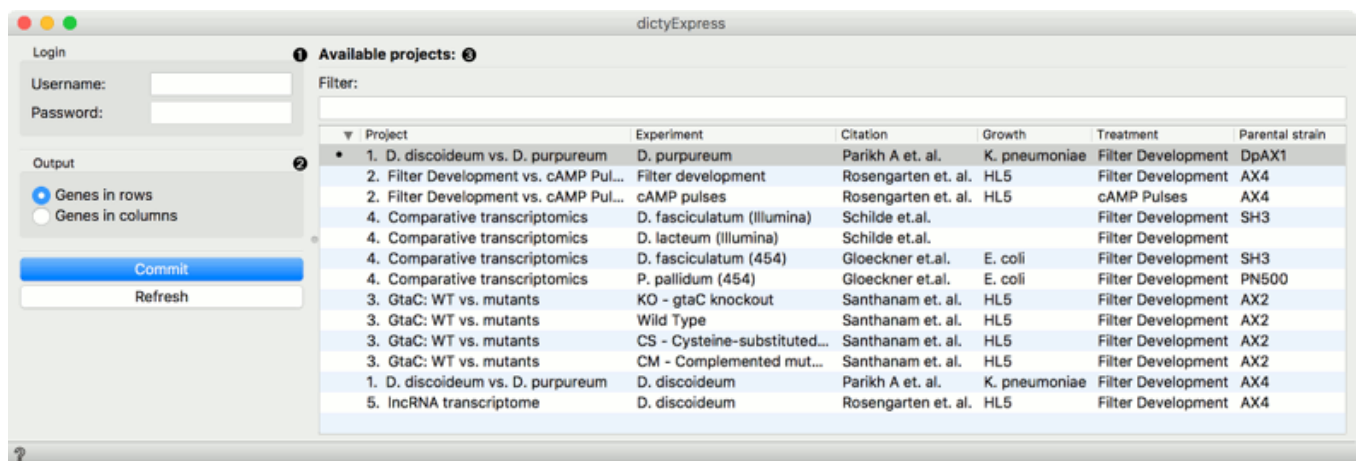
# dictyExpress

Gives access to [dictyExpress](#) databases.

**Inputs** - None

**Outputs** - Data: Selected experiment (time-course gene expression data).

**dictyExpress** widget gives a direct access to the [dictyExpress](#) database. It allows you to download the data from selected experiments in *Dictyostelium* by Baylor College of Medicine. The widget requires internet connection to work.



1. Log into the database to access personal files.
2. Define the output. Genes from experiments can be either in rows or in columns. Press *Commit* to output the data and *Refresh* to update the list of experiments.
3. List of available experiments. Use *Filter* to find a particular experiment.

## Example

**dictyExpress** widget can be used to retrieve data from a database, just like **GEO Data Sets** and similar to the **File** widget. We have retrieved the

*D. discoideum* vs. *D. purpureum* data and sent it to the output by pressing *Commit*. We have observed the data in a **Data Table** and in a **Heat Map**, where we used *Merge by k-means* and clustering by rows to find similar genes.

The screenshot displays the Orange Data Mining interface with the following components:

- dictyExpress widget:** Shows a list of available projects. The first project is selected: "1. D. discoideum vs. D. purpureum".
- Data Table widget:** Displays a table of gene expression data. The table has columns for Time, Gene, Entrez ID, and four time points (TP 0, TP 4, TP 8, TP 12).
- Heat Map widget:** Visualizes the data with a color scale from 0.00 (blue) to 31511.84 (yellow). It includes a dendrogram for row clustering and various configuration options.

Time	Gene	Entrez ID	TP 0	TP 4	TP 8	TP 12
1	DPU_G0051...	?	66.673	59.988	57.520	19.795
2	DPU_G0051...	?	45.124	7.322	5.961	6.363
3	DPU_G0058...	?	0.409	0.089	0.000	16.703
4	DPU_G0051...	?	167.725	258.765	305.212	211.966
5	DPU_G0051...	?	41.677	81.354	34.629	47.455
6	DPU_G0058...	?	3.617	2.659	3.280	4.170
7	DPU_G0058...	?	1.725	1.248	1.002	0.835
8	DPU_G0051...	?	2.285	17.571	34.665	30.361
9	DPU_G0058...	?	0.000	0.000	0.062	9.201
10	DF					78
11	DF					81