

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.

dictyExpress

Login

Username:

Password:

Output

☒ Genes in rows

☐ Genes in columns

Commit

Refresh

1 Available projects: 15

Filter:

Project	Experiment	Citation	Growth	Treatment	Parental strain
1. D. discoideum vs. D. purpureum	D. purpureum	Parikh A et. al.	K. pneumoniae	Filter Development	DpAX1
2. Filter Development vs. cAMP Pul...	Filter development	Rosengarten et. al.	HL5	Filter Development	AX4
2. Filter Development vs. cAMP Pul...	cAMP pulses	Rosengarten et. al.	HL5	cAMP Pulses	AX4
4. Comparative transcriptomics	D. fasciculatum (Illumina)	Schilde et.al.		Filter Development	SH3
4. Comparative transcriptomics	D. lacteum (Illumina)	Schilde et.al.		Filter Development	
4. Comparative transcriptomics	D. fasciculatum (454)	Gloeckner et.al.	E. coli	Filter Development	SH3
4. Comparative transcriptomics	P. pallidum (454)	Gloeckner et.al.	E. coli	Filter Development	PN500
3. GtaC: WT vs. mutants	KO - gtaC knockout	Santhanam et. al.	HL5	Filter Development	AX2
3. GtaC: WT vs. mutants	Wild Type	Santhanam et. al.	HL5	Filter Development	AX2
3. GtaC: WT vs. mutants	CS - Cysteine-substituted...	Santhanam et. al.	HL5	Filter Development	AX2
3. GtaC: WT vs. mutants	CM - Complemented mut...	Santhanam et. al.	HL5	Filter Development	AX2
1. D. discoideum vs. D. purpureum	D. discoideum	Parikh A et. al.	K. pneumoniae	Filter Development	AX4
5. IncRNA transcriptome	D. discoideum	Rosengarten et. al.	HL5	Filter Development	AX4

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.



