

RNASeqExpressionBrowser - Installation guide (v1.22)

The tool can be installed by executing the following command:

```
python installation.py <installation_example.conf>
```

Configuration file

The configuration file includes the paths to the input files, examples for the search pages and the settings necessary for the mysql server used as back-end of the integrated data. Keyword and value pairs are separated by '::'.

This is the example for a runnable file as it was used in <http://pgsb.helmholtz-muenchen.de/cgi-bin/db2/barleyV2/index.cgi>. The respective settings are save under the directory **example/**.

```
project_name::barleyV2
hrd::example/barley/hrd.TXT
dom::example/barley/domain.TXT
fpkm_value_matrix::example/barley/fpkm.TXT
transcripts_NT::example/barley/transcripts_NT.fa
transcripts_AA::example/barley/transcripts_AA.fa
html_description::example/barley/description.TXT
db_link_path::http://mips.helmholtz-muenchen.de/plant/barley/ga/reportsjsp/geneticElement.jsp?gene=
webserver::http://pgsb.helmholtz-muenchen.de/db2
mysql_host::server (or localhost)
mysql_db:: test4
mysql_user::user
mysql_password::password
example_gene_identifier::MLOC_65699.1
example_keyword::WRKY
example_GO_ID::GO:0004568
example_Interpro_ID::IPR008147
example_FASTA::AACTCCGGCGAGACGAGAGGAGATATTGGCCTATCTGCTCTCCTCGATCAAGTACCGAAGTACGTG
```

a) project_name
defines the project name

b) hrd
this represents a file that contains the mapping between gene to the human readable description

c) dom
this represents a file that contains the mapping between gene to the domain description

d) fpkm_value_matrix
this represents a file that contains the expression per gene and condition.

e) transcripts_NT
This contains the nucleotide sequences of the genes

f) transcripts_AA
this contains the amino acid sequences of the genes

g) Html_descriptions

Contains the html text to describe the project

h) db_link_path

Defines the path to external databases

i) webserver

defines the URI of the webserver (e.g. pgsb.helmholtz-muenchen.de)

j) mysql_host

defines the location of the mysql database. If it's the local machine, can be defined with "localhost"

k) db_name

this represents the database name of mysql database

l) mysql_user

defines the user name for the mysql database

m) mysql_password

defines the password for the mysql_user for the mysql database

n) example_gene_identifier

defines the gene id that should be shown on the entry page

o) example_keyword

defines the keyword example that should be shown on the entry page

p) example_GO_ID

defines the Gene Ontology example that should be shown on the entry page

q) example_interpro_ID

defines the example for the Interpro-based search

r) example_FASTA

defines the FASTA sequence example for the BLAST-based search