

# First Tutorial using BDQC on a MS Windows Platform

Updated: 2018-02-05 - Eric Deutsch

If you have questions or suggestions with this tutorial, please contact [edeutsch@systemsbiology.org](mailto:edeutsch@systemsbiology.org)

## 0) Before you begin

This tutorial assumes that you will be running this tutorial on a modern Microsoft Windows system with Perl installed. BDQC will also run on a Linux or OS X system that has Perl installed, although the details on how to set up and execute BDQC are slightly different than described on this tutorial. If Perl is not installed on your system, you will need [Strawberry Perl](#) or [ActiveState Perl](#) or some other Perl first.

**Make sure that you are connected to the Internet for this tutorial!**

## 1) Download and install BDQC software and verify execution

- Download the latest BDQC package from GitHub with a web browser:
  - Go to: <https://github.com/ini-bdds/bdqc>
  - Click the green [Clone or download] button
  - Choose [Download ZIP] and save the bdqc-master.zip file in your home directory
- Open a cmd window and unpack the zip file in your home directory

```
cd %HOMEPATH%
unzip bdqc-master.zip
```
- Verify that the bdqc.bat program is in the expected place:

```
dir bdqc-master\analysis\bin
```
- If the result doesn't show a bdqc.bat executable program, then fix before proceeding
- Put the BDQC bin directory in your PATH:

```
set PATH=%HOMEPATH%\bdqc-master\analysis\bin;%PATH%
```
- And then test that it executes:

```
bdqc --help
```
- And then run the basic self-test and module check:

```
bdqc --selftest
```
- If you do not get OK for all modules except for optional ones that explicitly state that their absence is okay, install the necessary modules with the cpan program.

## 2) Perform a test run

- Move into the testdata folder, unzip a test dataset archive and run bdqc:

```
cd %HOMEPATH%\bdqc-master\analysis\testdata
unzip test2_UniformQlogFiles_1outlier.zip
set test=test2_UniformQlogFiles_1outlier
bdqc --kbRootPath %test% --data %test%
```
- On the terminal output, you should see one file listed with 4 outlier flags
- Open up the output file [test2\\_UniformQlogFiles\\_1outlier.html](file:///C:/Users/YOURUSERNAME/testdata/test2_UniformQlogFiles_1outlier.html) in your web browser to explore the output more interactively at something like [file:///C:/Users/YOURUSERNAME/testdata/test2\\_UniformQlogFiles\\_1outlier.html](file:///C:/Users/YOURUSERNAME/testdata/test2_UniformQlogFiles_1outlier.html)

Finis.