

# CLR Analysis Tool

A tool to analyze genetic data based on a composite likewise ratio analysis.

## Installation

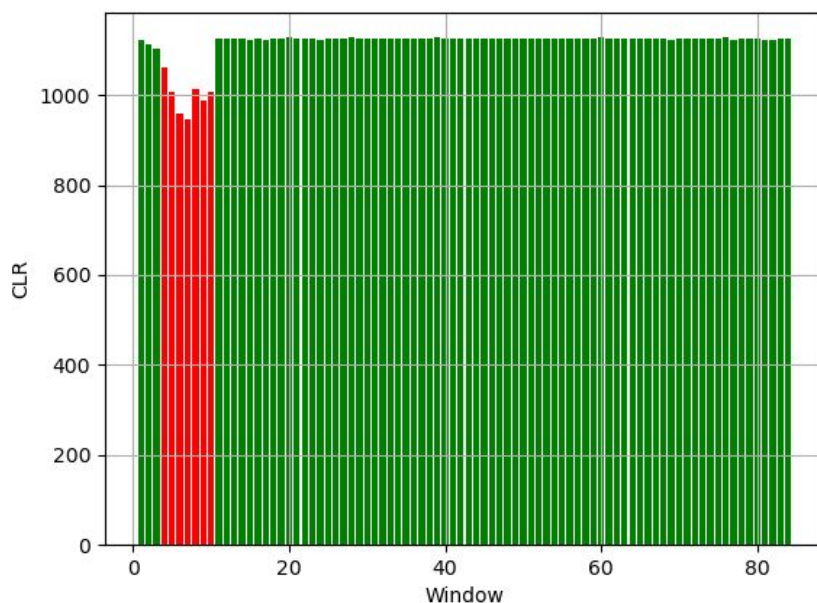
The CLR Analysis Tool is a single python script that can be run on any platform that can run python. There is, however, one dependency required, Matplotlib, for which instructions to install can be found [here](#). (NOTE: Use the py command instead of the python command on windows).

## Input

The CLR Analysis Tool can be run like a standard python script. It takes in 2 required parameters with an optional third parameter. The first parameter is the file path to a file of SLiM sample or full (non-ms) output. The second parameter is the window size for each window. The third parameter, which is optional, is the threshold for the standard deviation multiplier for determining whether or not a window is significantly different from its other data points. If a CLR value of a window is more or less than this number times the standard deviation, it is highlighted in red.

## Output

The program will output a graph similar to the one below.



## Example Usage

The following command will run the script (replace python with py on Windows):

```
python script.py test.txt 10000
```

You can also specify a standard deviation multiplier limit (see above for what this does):

```
python script.py test.txt 10000 1.3
```