This document contains an exercise associated with the 1000 Genomes Project and beyond seminar as part of EMBL-EBI's NGS training course held between April 13th and April 16th.

Allele Frequency Calculator Exercise

1. Use the Allele Frequency Calculator

http://browser.1000genomes.org/Homo\_sapiens/UserData/Allele

2. Look at frequencies for variants between the positions: 8:141203500-141204500

3. Consider the populations below. You can use the ctrl button to select multiple populations.

* GBR
* GIH
* GWD
* MXL
* JPT

4. Identify the variant that has a much higher frequency in the GBR and MXL than the other populations.

The output of the Allele Frequency Calculator is a tab file. You should be able to find a spreadsheet program on your computer to help with this last task.

5. Find that variant in the browser?

6. Does that variant have any phenotype associations?