For these assignments, you only need to copy the answers to these questions from you RStudio console on this Word document with an appropriate title (e.g., question 1, af\_A1 matrix for the entire dataset).

1. **Compute the allelic frequencies of the SNP rs56286275:**

* **in the entire dataset**
* **for each population**

In this assignment, you need to compute, as we did in the popgen\_tutorial, the af\_A1 and af\_A2 matrices for the entire dataset and then for each population. Once you have done it, you’ll simply paste the matrices on this Word document.

1. **Compute the genotypic frequencies of the SNP rs56286275 for each population.**
2. **Where does the individual HG01620 come from?** Please, copy from your RStudio console the RMP vector (with RMP values for each population) and the LR obtained using 30 random markers (RMP\_r and LR\_r) and then the same variables using Global AIMs Nano set (RMP\_n and LR\_n). Then, write in the Word document, if it is possible, where the individual comes from. If you cannot answer, please write me why, in your opinion, it is not possible to assign with high confidence an ancestry to this individual.