**FST sliding windows with popoolation2**

*Script name:* launch\_popoo2\_from\_bam.pl

What it does: calcul fst in sliding windows from BAM files (all possible combinations) with popoolation2 <https://sourceforge.net/p/popoolation2/wiki/Main/>

*Synopsis:*

***perl launch\_popoo2\_from\_bam.pl –s pop\_size\_tab\_file –x bam***

/!\ The jobarray was done with SGE on a cluster

/!\ BAM files have to be present in the current directory

/!\ Change the parameters –t (5th line of the script) to the number of accessions you have to treat in the current directory

*Parameters:*

-s (string): a tab delimited file with the population to treat and the size of it (initial number of individuals in the group)

-x (string): file extension (bam)

*All the steps in detail*

[*https://sourceforge.net/p/popoolation2/wiki/Tutorial/*](https://sourceforge.net/p/popoolation2/wiki/Tutorial/)

* Samtools mpileup with two BAMs to get a mpileup file.

<http://samtools.sourceforge.net/mpileup.shtml>

* Mpileup2sync with mpileup2sync.jar from popoolation2
* Calcul FST in sliding windows with popoolation2

<https://sourceforge.net/p/popoolation2/wiki/Tutorial/>