CREATING FUNCTION LOGOS, ID LOGOS, KLD LOGOS AND BUBBLE PLOT TABLE WITH TSFM

- 1. After preparing your Alignment results in folder **X** (Leish_paper_first_round ...) for both sites72 and sites 74, run the script extractFinalInput.sh inside folder X, to prepare the input for tsfm in two subfolders called: LogotaxAlignmentInputs/sites74/ and LogotaxAlignmentInputs/sites72/
- 2. For generating the logos of site72 we only need the folder site72 which has 9 subfolders one for each class of TriTryp genomes, and Homo. Each of these folders include the fasta files for 21 classes of tRNA.
- 3. Keep the file tRNA_L_skel_Leish_sites72_struct.txt and the script generateLogos.sh inside folder site72.
- 4. In script generateLogos.sh, change the variable tsfmpath to the tsfm.py on your laptop as the example. The last version of tsfm is provided in folder tsfm, you can provide the path to tsfm.py from this folder.
- 5. Finally:

cd workflow/site72 chmod +x generateLogos.sh

./generateLogos.sh

This should create all the function logos at first, ID logos second and KLD logos along with the table at the end.

Right now tsfm creates all the eps files for function logos, ID logos and KLD logos with the name of the Background Organism, so they will be overwritten if we create them in one run. So, that is why I generate them in order. it is not efficient!

6. Later, I used the bubbleV2.R to generate the bubble plots one pdf file per functional class. This version of all.bubble.R script will take three path to skel file, tables, and output file and reads all the tables from folder site72, aligns them to sprinzl and creates the bubble plots.

All the outputs will be in directory /site72/Logos.