I. Files needs to prepare by the users

File Necessary	
Supervised Mode	
Name	Description
prepare.txt	half-flesa format, only file head and length information is required
annotation.txt	half-gtf format, only need state name and position information corresponding to the trainseq.txt
trainseq.txt	fasta format
testseq.txt	fasta format
Unsupervised Mode	
para.txt	flesa format, see details in Part V
testseq.txt	fasta format

II. Command without Graphical Interface

The FLESA system provides two modes for retraining the parameter, supervised or unsupervised. Under supervised mode, annotations must be available, and users can also choose a state as null model. While in unsupervised mode, the system will treat the result file of previous iteration as the annotation file of next iteration, and users can set the final conditions through the interface. The final condition might be a specific number of iterations or a criteria of difference between results got from two iterations. Their command without graphical interface are:

Under Supervised Mode: perl src/supervise.pl

Under Unsupervised Mode: perl src/iteration.pl <iterations>

Or: ./src/criteria.exe <criteria>

In which, <iterations> and <criterias> are parameters provided by the users.

III. Using graphical interface, users don't need to prepare the file "prepara.txt" or "para.txt". The command line to run graphical interface is "java –jar FlexSA.jar".

IV. Setup Command: perl setup.pl