

The problem:

when we have -g 0 -e4 and a nuc4.4 score matrix (5 for match, -4 for mismatch) the second best the blue line with first nt “GG” for alignment.

When we have -g0 -e4 and a nuc4.4 matrix, the second best one is the second diagonal line, starting as the blue one and go down as a straight line to the right bottom corner with a score of much larger.

The above picture is for the first case score table. It seems in this case the first optimal alignment cut off the second one. Can we do anything in the future??? It seems that we

~~what about non-intersecting vs intersecting local alignment???~~

~~it seems that now we are doing intersecting local alignment now?????need to further look at this issue!!!~~

it is non-intersecting.

The LocalAlignment\_CT is not working. Still need more work.

Check the case :”../ngs\_umi\_barcode -s temp\_125.fastq -t -x -p NNNNNNNNNGGGAAA -f0 -  
g0 -e3 -n1”

in this file there are case to align with

-g0 -e3 -n1 for local align

“

p:GGGATATATA   
  
s:GGGTATATAT  
“

8/27/2021. it seems that the new localalignment\_ct works!!!???? or I should say it is better.

Anyway, check the readme for cases for comparison.