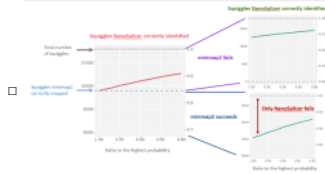


Result

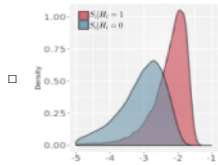
Wednesday, February 17, 2021 10:29 PM

Part. 1 Check whether or not squiggle has information to distinguishing close splice site.

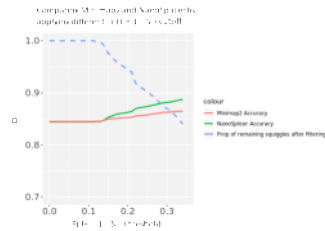
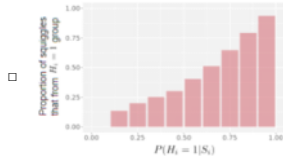
- NanoSplicer accuracy (96%)
 - TestDTW setup
 - Different distance function
 - DTW band
 - Don't allow warping in junction squiggle
 - Minimum dwell time
 - Laplace vs normal
 - Ratio to the highest probability



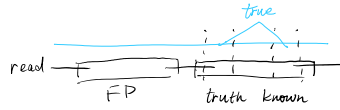
- H₀ and H₁ simulation
 - S_i empirical distribution



- S_i validation

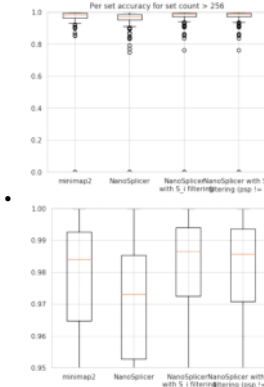


Part. 2 Sequins analysis using real data analysis pipeline (do not use transcript annotation except for the performance assessment)

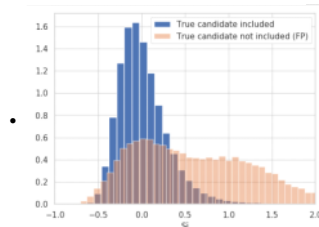
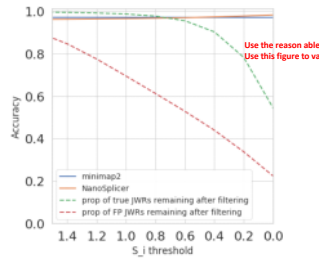


- Accuracy (for truth known JWRs and No S_i filtering)
 - minimap2 accuracy: 97.2207%
 - NanoSplicer accuracy: 95.9925%
 - proportion of junction within read identified by both softwares: 94.4238%

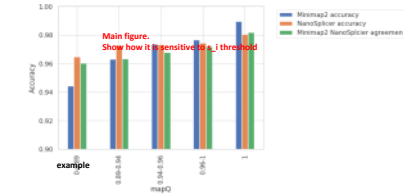
- Per junction accuracy for JWR set with enough counts



- Using S_i to identify false positives

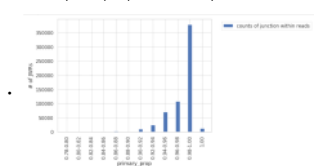


- Junction mapping quality



counts for each bar (before and after si filtering)

- Primary site proportion analysis

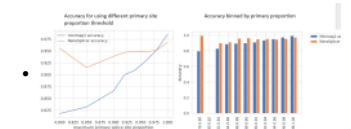


- Accuracy of NanoSplicer and Minimap2

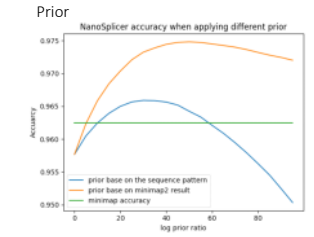
Part.3 Real data analysis

Overall accuracy (update needed)

- All the analysis will follow the way we did in part2

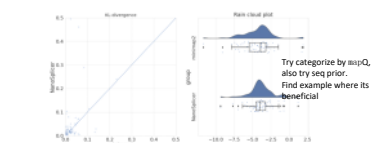


Extra thing:



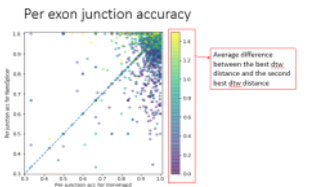
Quantification

- Different way of measure the divergence

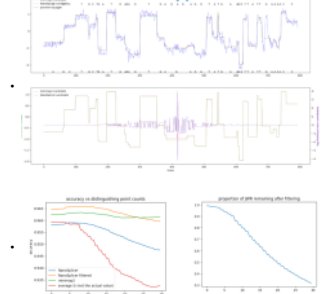


Other analysis

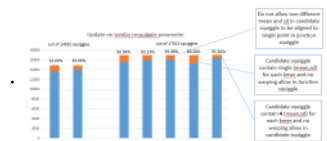
- Probability ratio



- Distinguishing putin analysis



- Different DTW setting



- Sequins reads subsample bias analysis

