

Data analysis

Friday, February 5, 2021 1:44 PM

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

- NanoSplicer accuracy (96%)

1. Check reason of failing
2. S_i analysis (validate)

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

- Accuracy (No S_i filtering)

```
minimap accuracy: 93.8096%
■ NanoSplicer accuracy: 92.6063%
proportion of Junction within read identified by both software: 91.1034%
```

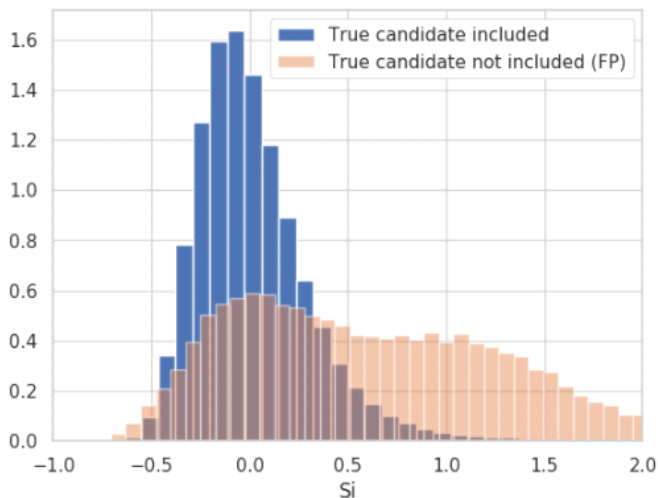
Clarify the definition of accuracy
(separate false positive and those
Junction within reads within the
10nt window from the true one)

- Accuracy (With S_i filtering)

```
minimap accuracy: 94.9447%
■ NanoSplicer accuracy: 94.1073%
proportion of Junction within read identified by both software: 90.4494%
```

DO NOT filter the minimap2 result:
People would never know what to filter
out before running NanoSplicer

- S_i distribution for true positive and false positives

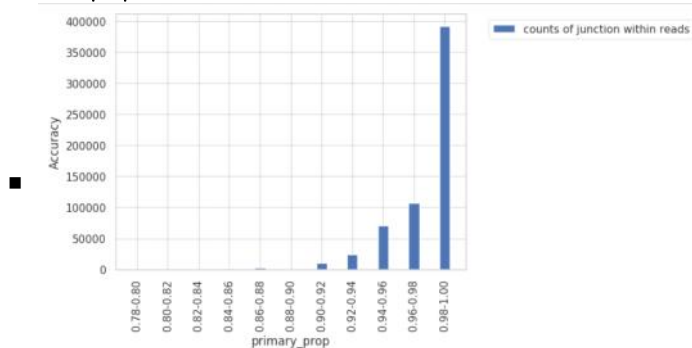


Double check the sequins annotation version. Doing analysis using v2.2?

This figure can also be used to validate Si

- Primary site proportion analysis

- Number of junction within reads from sets with certain primary site proportion



- Accuracy of NanoSplicer and Minimap2

Separate things

