

Ubiquitous Genomics: Hackathon2

Maya Anand
mva2112@columbia.edu

Anne Bozack
akb2134@cumc.columbia.edu

Cheyenne Parsley
cep2141@columbia.edu

Robert Piccone
rap2186@columbia.edu

Daniel Speyer
dls2192@columbia.edu

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Problem 1

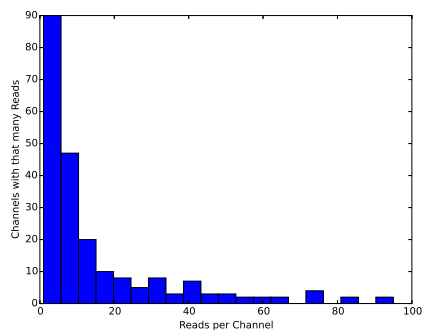
Number of 2D reads classified as failed: 257

Number of 2D reads classified as passed: 1082

Problem 2

1 channels had at least one read, and 1 had at least five. This compares with 434 “active” channels during initialization, and 651 immediately after loading fuel

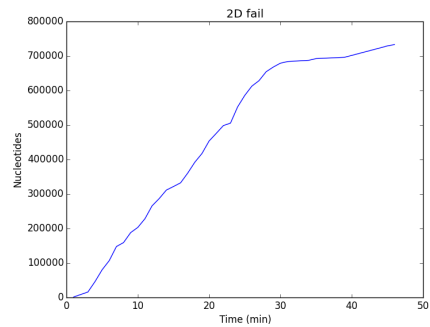
The average channel had 2520.0 reads. Channel 29 had 2520 reads, which was the most.



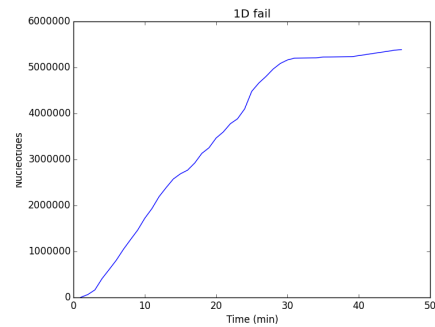
Problem 3

Failed Reads

The following histograms show the length distribution of 2D and 1D reads for fails.



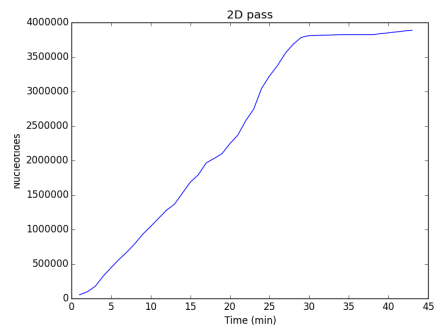
2D Reads



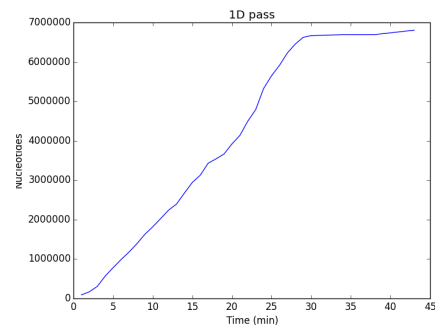
1D Reads

Passed Reads

The following histograms show the length distribution of 2D and 1D reads for passes.



2D Reads

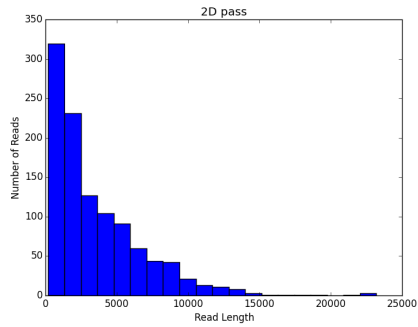


1D Reads

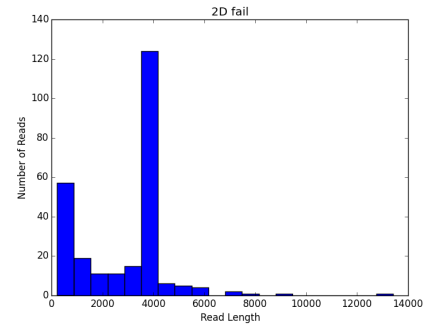
Problem 4

2D reads

The following histograms show the length distribution of 2D reads for passes and fails.



Passed Reads



Failed Reads

Problem 5

LONGEST PASSED 2D READ

From file: MINION02_Hackathon2_group4_TeamAWESOME_4029_1_ch9_file8_strand.fast5

Number of nucleotides: 23196

LONGEST FAILED 2D READ

From file: MINION02_Hackathon2_group4_TeamAWESOME_4029_1_ch360_file3_strand.fast5

Number of nucleotides: 13419