

TRIMMING AND ERROR CORRECTION

28 SEPT 15

ANNOUNCEMENTS

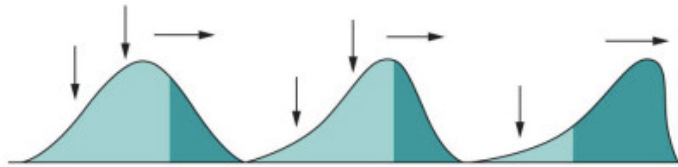
LAB REVIEW: WHAT DID GRAPH MEAN?

EXAM REVIEW

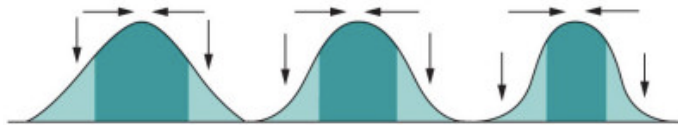
Evolution is:

The 4 mechanisms are:

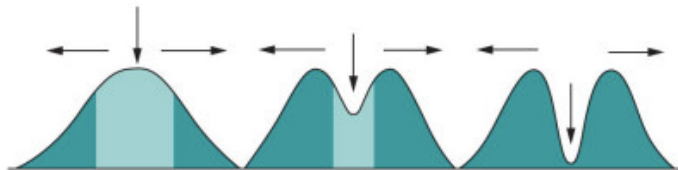
EXAM REVIEW



(a) Directional selection



(b) Stabilizing selection



(c) Disruptive selection

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EXAM REVIEW

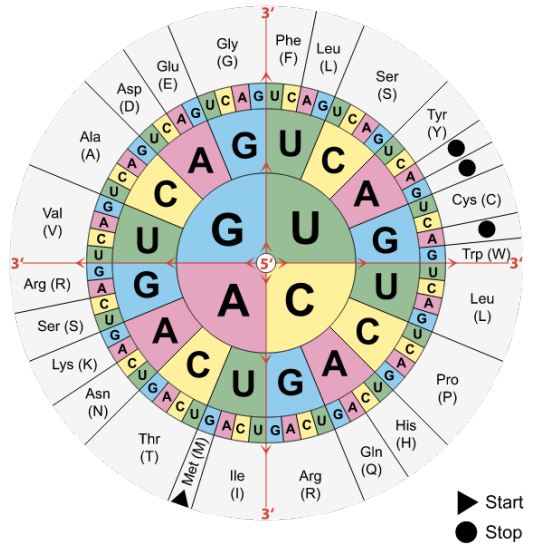
- Synonymous change

5'-AUGCAGGCAUGA-3'

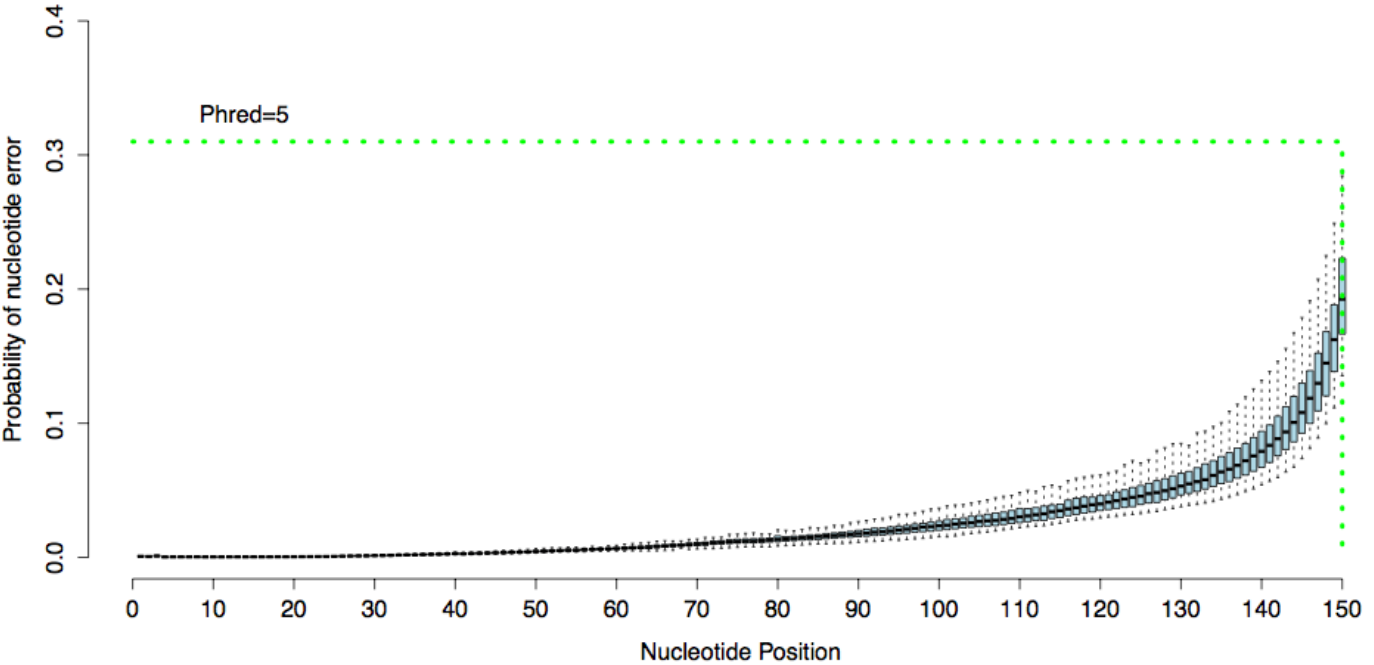
5'-AUGCAAGCAUGA-3'

- Non-synonymous

5'-AUGCACGCAUGA-3'

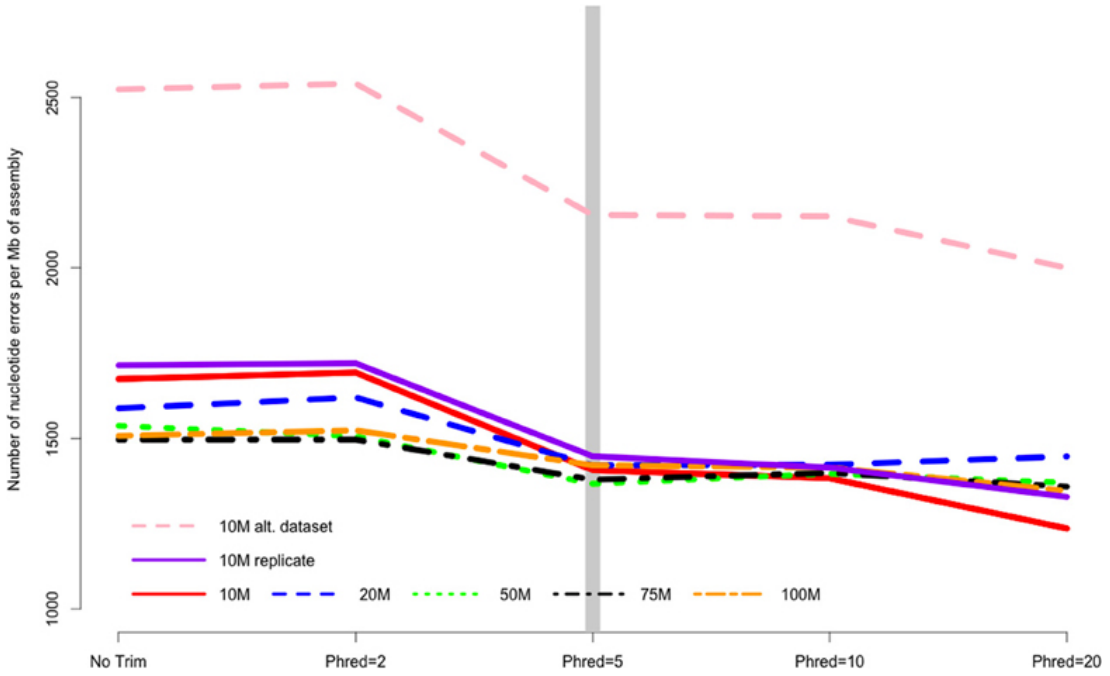


What to do? Quality trimming?

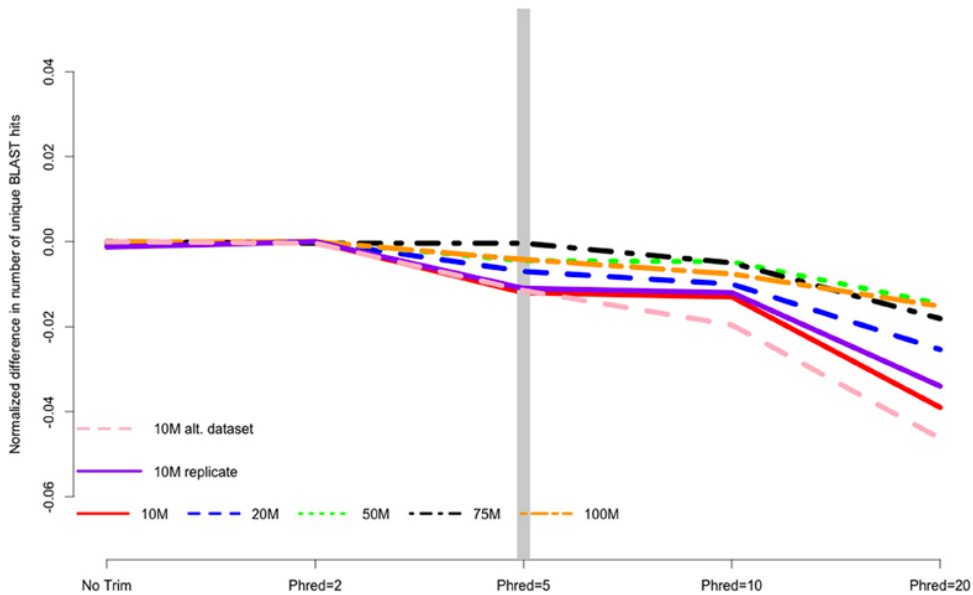


What does quality trimming do?

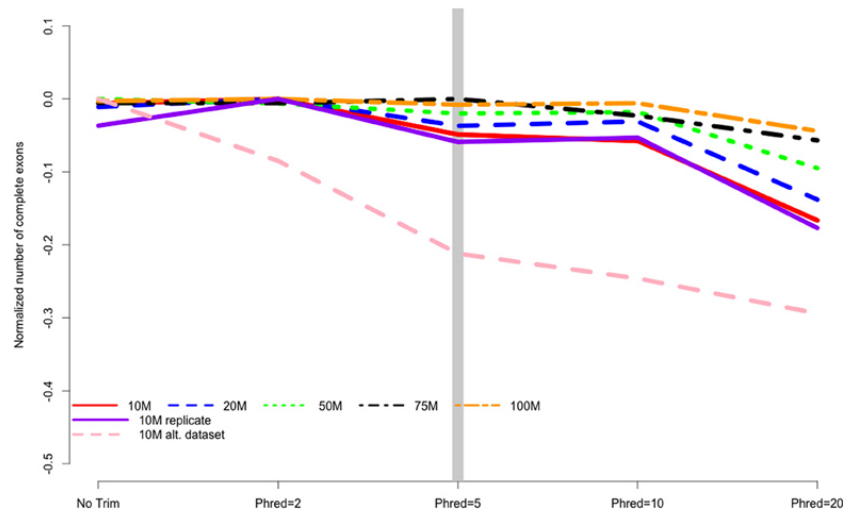
TRIMMING REDUCES ERROR



TRIMMING REDUCES # OF BLAST HITS



TRIMMING REDUCES # OF COMPLETE CDS



ERROR CORRECTION



ERROR CORRECTION

TATACAAATTCGTTTTATGAAAACTCCTAAAAGCAAACAATTTACCAACAAATCCTTGCAACGAAATAACCGATTCATTTAAGCATTCGTCCTATTTATACAAATTCGTTTTATGAAAACTCCTAAAAGCAAACAATTTACCAACAAATTCCTTGCAACGAAATAACCGATTCATTTAAGCATTCG



ACTGTCATTCGGACTA
ACTGTCATTCGGACTA
ACTGTCATTCGGCCTA
ACTGTCATTCGGACTA
ACTGTCATTCGGACTA
ACTGTCATTCGGACTA
ACTGTCATTCGGACTA
ACTGTCATTCGGACTA
ACTGTCATTCGGACTA
ACTGTCATTCGGACTA
ACTGTCATTCGGACTA

Consensus= ACTGTCATTCGGACTA