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(54) Title: SYSTEMS AND METHODS OF DETERMINING A NUCLEIC ACID SEQUENCE BASED ON MUTATED SEQUENCE READS

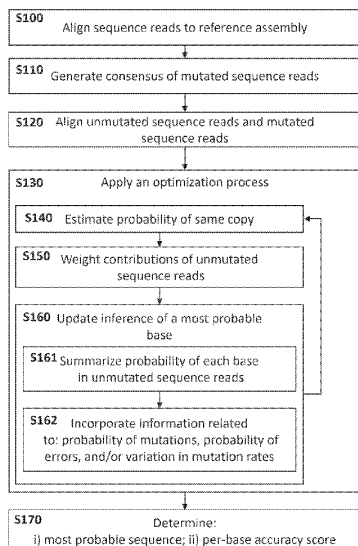


Figure 1

(57) Abstract: Described herein are methods and systems for determining a sequence of a nucleic acid template by removing mutations found in a mutated sequence read. In some embodiments, methods and systems include steps of aligning unmutated sequence reads of a nucleic acid template to mutated sequence reads, and determining a most probable sequence of the nucleic acid template and a per-base accuracy score correlated with the probability that the base matches with the nucleic acid template, thereby determining the sequence of the nucleic acid template.

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