Visualizing Transcriptomic Long-read Sequencing Artifacts

CPSC547 Project Presentation

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Background
RNA Sequencing

A gene

Multiple (different) transcripts

Reads sequencing each transcript

ACTCTCCCTTTGGG
RNA Sequencing

Gene

Reads aligned to the gene

Reads sequencing each transcript
RNA Sequencing is Challenging

Gene

Biological mutations?

Sequencing errors?
Current Genome Vis Solution
Solution