Bioinformatics Somatic Mutation Analysis Report

Introduction

This report summarizes the bioinformatics pipeline for identifying somatic mutations in tumor samples

compared to normal tissue. The analysis involves alignment, variant calling, custom analysis, and annotation

steps.

Workflow Summary

1. Alignment: Tumor and normal samples were aligned to the human genome (hg38) using BWA.

2. Variant Calling: Somatic mutations were identified using Mutect2 and filtered.

3. Custom Analysis: Median background mutation level was calculated from normal tissue.

4. Annotation: Somatic mutations were annotated using snpEff.

Results Summary

Total Somatic Variants Identified: 589

Median Background Mutation Level (AF): 0.5

Reads per Million Required: 1,000,000

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