## Lastal\_AlignmentStat

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#Genome Alignment Summary This report presents genome alignment stats for for /Users/bhanson/Documents/Data/Sc
The reference used for the genome alignment is:

 $/Users/bhanson/Documents/Data/Scripts/Scripts/Pipelines/Lastal\_MinION\_GeneticElement/Example/Allement/Scripts/Scripts/Pipelines/Lastal\_MinION\_GeneticElement/Example/Allement/Scripts/Script$ 

Summary stats for this alignment are:

Number of sequences aligned to reference: 19,199

The number of aligned bases, insertions, and deletions is: 152,741,368

• This sums the number of matched and mismatched bases, plus detected insertions and deletions

The number of insertions is: 9,212,706

• As percent: 6.031572

The number of deletions is: 8,953,274

• As percent: 5.861722

The number of mismatches is: 9,542,394

• As percent: 6.2474198

# Overall Accuracy rate The overall accuracy is: 81.8592861%

## #Match/Mismatch Profile

## ##**Table 1** - Match/Mismatch Matrix

|           | Ref_A         | $Ref\_C$    | $Ref\_G$      | Ref_T         |
|-----------|---------------|-------------|---------------|---------------|
| Read_A    | 30,774,914    | 808,176.5   | 806,004       | 781,628.7     |
| $Read\_C$ | $783,\!236.5$ | 31,757,030  | $811,\!113.5$ | $779,\!305.1$ |
| $Read\_G$ | $779,\!514.3$ | $812,\!533$ | 31,768,343    | 782,945.6     |
| $Read\_T$ | 783,109.8     | 806,212.6   | 808,614.8     | 30,733,162    |

##Transitions vs transversions

Probability a mismatch is a transition: 2.356295

Probability a mismatch is a transversion: 2.3671621