

Additional file 4:

Bowtie2 and BWA-MEM are compared on correct mapping, multiple alignment, second alignment, and soft/hard clipped reads. We do not list the average percentages of hard clipped reads because all of them are zeros for both aligners.

Table 5.1: The average percentage of correct mapping by Bowtie2 and BWA-MEM using simulated data at various sequencing depths.

Mapper	15X	20X	25X	30X
Bowtie2	96.31%	95.79%	96.35%	95.90%
BWA-MEM	94.69%	94.62%	94.65%	94.61%

Table 5.2: The average percentage of multiple alignment by Bowtie2 and BWA-MEM using simulated data at various sequencing depths.

Mapper	15X	20X	25X	30X
Bowtie2	3.15%	3.21%	3.15%	3.23%
BWA-MEM	0	0	0	0

Table 5.3: The average percentage of soft clipped reads by Bowtie2 and BWA-MEM using simulated data at various sequencing depths.

Mapper	15X	20X	25X	30X
Bowtie2	0	0	0	0
BWA-MEM	8.68%	8.74%	8.71%	8.76%