Supplemental Table S3. Read error correction: Illumina-derived versus genome-derived list of valid *k*-mers. All values are 95% trimmed means (to remove outliers).

Organism	Number of reads*	Method†	Valid k-mer source	Total k-mers	Correct k-mers	% correct
E. coli	7,410	M	-	15,045.3	14,242.0	94.66
E. coli	7,410	L	Illumina (low frequency removed)	15,118.2	14,467.1	95.69
E. coli	7,410	L	genome (all k-mers)	15,118.2	14,467.1	95.69
E. coli	7,410	LH	Illumina (low and high frequency removed)	15,119.0	14,469.3	95.70
E. coli	7,410	LH	genome (single-copy <i>k</i> -mers)	15,119.0	14,469.4	95.70
C. elegans	128,710	M	-	18,699.7	17,391.2	93.03
C. elegans	128,710	L	Illumina (low frequency removed)	18,805.5	17,563.3	93.44
C. elegans	128,710	L	genome (all k-mers)	18,806.3	17,565.0	93.50
C. elegans	128,710	LH	Illumina (low and high frequency removed)	18,804.8	17,575.7	93.52
C. elegans	128,710	LH	genome (single-copy k-mers)	18,805.3	17,575.4	93.52

<sup>\*</sup> Exactly the same reads were compared across the five combinations of method and valid *k*-mer source.

<sup>† &</sup>quot;M", standard MHAP; "L", MHAP with low-frequency k-mer masking; "LH", MHAP with low and high frequency k-mer masking.