

CORRECTION

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# Correction to: Effective machine-learning assembly for next-generation amplicon sequencing with very low coverage

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## Correction to: *BMC Bioinform*

<https://doi.org/10.1186/s12859-019-3287-2>

Following publication of the original article [1], the author reported that there are several errors in the original article;

1. The figures' order in HTML and PDF did not match with each other.

In the original article incorrect Fig. 3 was the correct Fig. 7.

In the original article incorrect Fig. 4 was the correct Fig. 6.

In the original article incorrect Fig. 5 was the correct Fig. 3.

In the original article incorrect Fig. 6 was the correct Fig. 4.

In the original article incorrect Fig. 7 was the correct Fig. 5.

2. The caption of Table 1 was published incorrect.

Incorrect:

Table 1 The four different reference sequences used to guide the reconstruction of the western-grey kangaroo mitochondrial amplicon from short sequencing reads.

Correct:

Table 1 The four different reference sequences used to guide the reconstruction of the western-grey kangaroo mitochondrial amplicon from short sequencing reads. For each circular mitochondrial genome, the genome coordinates of the extracted region are indicated as well as its length. The percentage identity to the western-grey amplicon is calculated on the homologous regions only,

i.e. the non-aligned sections at the beginning and the end of the alignment are not taken into account.

In this correction article the figures are shown correct with the correct caption of Table 1.

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## Reference

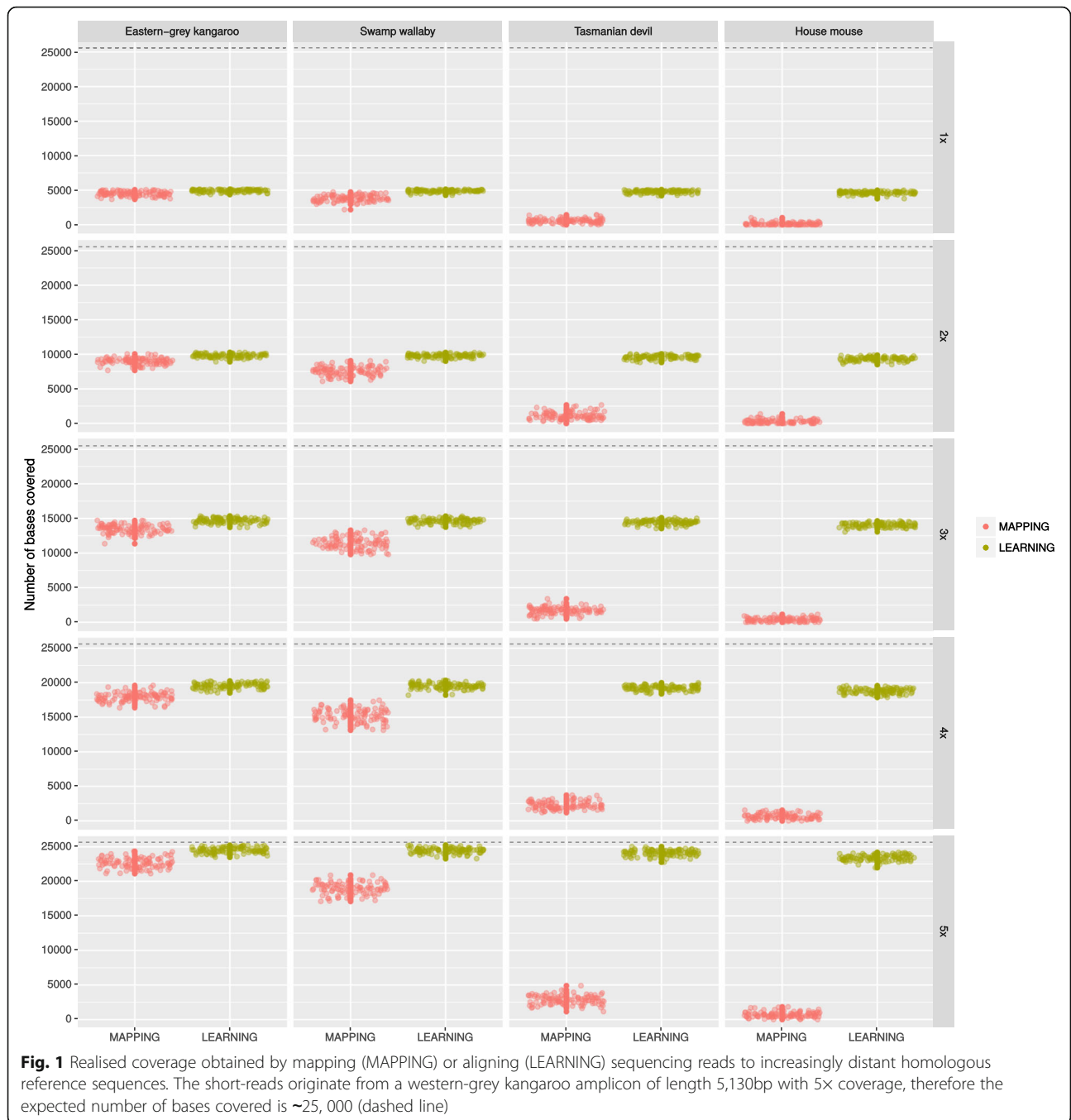
1. Ranjard, et al. Effective machine-learning assembly for next-generation amplicon sequencing with very low coverage. *BMC Bioinformatics*. 2019;20:654. <https://doi.org/10.1186/s12859-019-3287-2>.

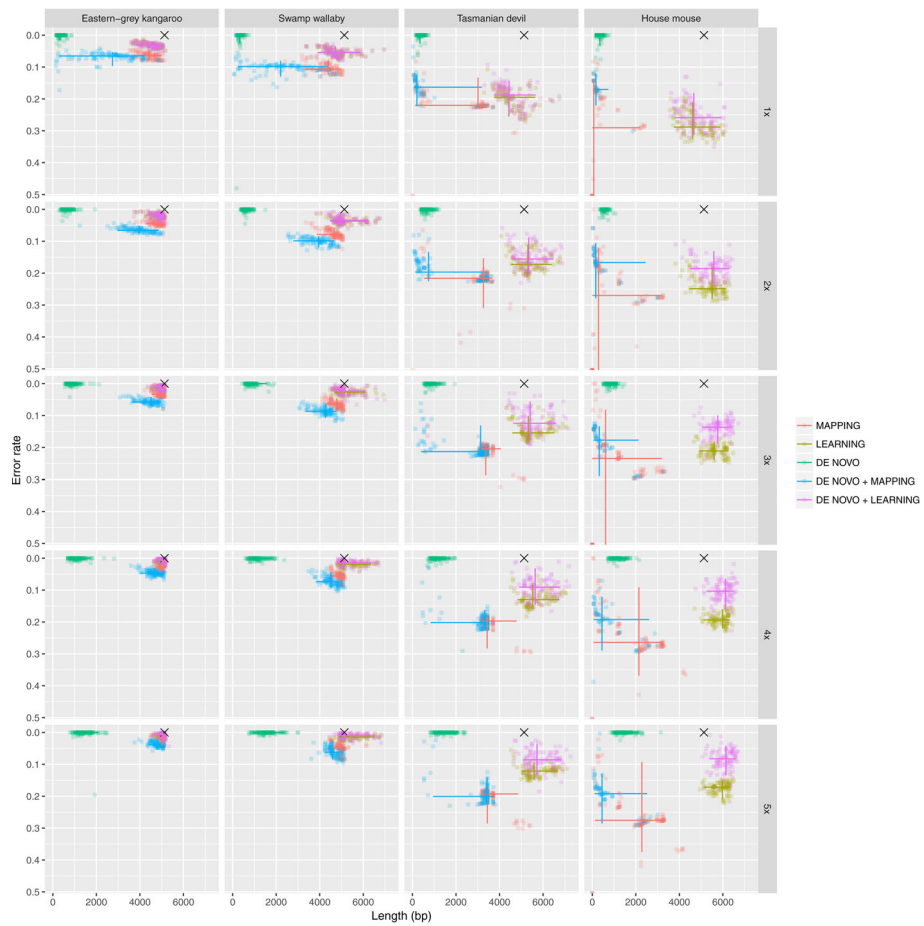
The original article can be found online at <https://doi.org/10.1186/s12859-019-3287-2>

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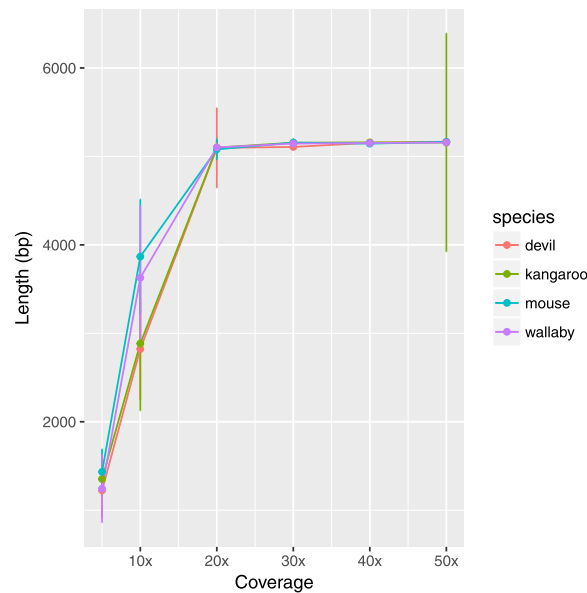
The Research School of Biology, The Australian National University, Canberra, Australia



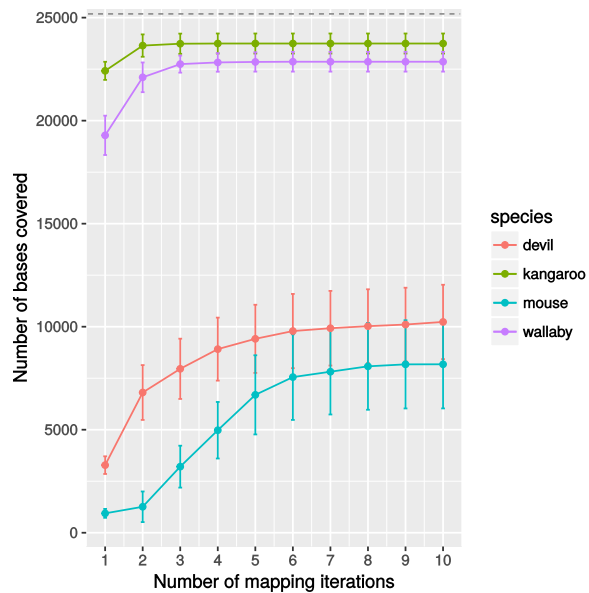




**Fig. 2** Number of errors and length in nucleotide of the reconstructed amplicon for each bioinformatic pipeline and simulation settings. The 95% intervals are shown as solid lines for each method along both dimensions (reconstructed amplicon length and error rate)



**Fig. 3** With more than 20x coverage, the de Bruijn graph assembly is able to reconstruct the expected amplicon length (5,130bp)



**Fig. 4** Increasing the number of mapping iteration of the same reads does improve the number of aligned reads, measured as number of bases covered, but only to a limited extend. The short-reads originate from an amplicon of length 5,130bp with 5x coverage, therefore the expected number of bases covered is ~25,000 (dashed line)

