CORRECTION

Correction to: ITR-Seq, a next-generation sequencing assay, identifies genome-wide DNA editing sites in vivo following adenoassociated viral vector-mediated genome editing

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Correction to: BMC Genomics 21, 239 (2020) https://doi.org/10.1186/s12864-020-6655-4

Following publication of the original article [1], we noticed that incorrect datasets were used for some analyses. We have corrected Figs. 2, 3, S1, and S2, Table S2, and dataset S1. Access to additional supporting data files via the webpage has also been restored. Importantly, the conclusions of the manuscript are not affected by this error.

The corrected figures, data files and a summary of the corrections (Additional file 5) to the text have been included with this Correction article.

Supplementary information

Supplementary information accompanies this paper at https://doi.org/10. 1186/s12864-020-07039-2.

Additional file 1: Figure S1. Frequency of AAV integration in the onand off-target sites. The number of ITR-Seq reads for the on and offtarget sites are shown as a percentage of the total number of ITR-Seg reads before the filtering step (see Methods). Analysis was performed on the ITR-Seq results for liver biopsies at d17/d18 and d128/d129 from nonhuman primates treated with the indicated nuclease and AAV dose

Additional file 2: Figure S2. Distribution of mismatches between the target sequence and identified off-target sequences. Off-targets

The original article can be found online at https://doi.org/10.1186/s12864-020-6655-4.

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⁺Camilo Breton and Peter M. Clark contributed equally to this work. Gene Therapy Program, University of Pennsylvania Perelman School of Medicine, 125 South 31st Street, Suite 1200, Philadelphia, PA 19104, USA sequences were extracted from the ITR-Seq results for AAV-M1PCSK9 (at a dose of 3×10^{13} or 6×10^{12} GC/kg, panels a and b) and AAV-M2PCSK9 $(6 \times 10^{12} \text{ GC/kg dose, panels c and d})$ groups at d17/d18. Thirty-one topranked (according to the number of ITR-Seq reads) off-target sequences, with a length of 22 bp and with no more than 10 mismatches, were retained for analysis. Location of the off-target sites are shown on the left and mismatches between the off- and on-target sequences are highlighted. The data to generate the WebLogo (43) shown on top were the selected off-target sequences for each group multiplied by the reported number of ITR-Seq reads (Dataset S1).

Additional file 3: Table S2. ITR-Seq rank of GUIDE-Seq-identified offtarget events.

Additional file 4: Dataset S1.

Additional file 5: Summary of Corrections.

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Reference 1.





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