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## GIGA-D-17-00028

## "Alignment of 1000 Genomes Project Reads to Reference Assembly

## **Original Submission**

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Commen	ts to Editor:
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Project to This mapp he author GRCh38 a Issembly	clear, well-written manuscript describing the realignment of read data from the 1000 Genomes an analysis set including GRCh38, an updated version of the human reference genome assembly, bing task is a necessary step in the larger task of re-calling variants on the newer assembly, which rs cite as their intention. The realignment detailed here will provide for more robust variant calling and better data interpretation than variant remapping, which is compromised in regions of the that have undergone change and no longer align well between versions. I support the publication of script, provided the following minor criticisms are addressed:
he assem he word Iternate	ne 35 (Bullet point #) "Substantially increase the number of alternative haplotypes associated with ably" "haplotypes" should be modified, as the Genome Reference Consortium did not require that the loci scaffolds be haplotype-specific, though it is true that they increase sequence diversity in the (see Box 1, https://www.ncbi.nlm.nih.gov/pubmed/21750661).
	ne 57 "the Epstein-Barr virus (EBV)sequence, ALT contigs, and the decoy sequences." ne INSDC accessions for EBV (AJ507799.2) and the decoy (GCA_000786075.2).
he word	ne 56-58 "but they are included in the reference" "reference" is unclear, as it may be interpreted to mean "reference assembly", rather than the target reference. Suggestion: replace "reference" with "analysis set" or similar phrase.
. p. 5, lir Similarly,	ne 6 "The reference data set" a suggestion to replace "reference" with "analysis".
i. p. 6, lir Provide a	ne URL for the NCBI Remapper. Suggested: https://www.ncbi.nlm.nih.gov/genome/tools/remap.
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