**Abbreviations**

1. 5mC: 5-methylcytosine
2. BAC: Bacterial artificial chromosome
3. bp: Base pair
4. BQ: Base quality
5. CCS: Circular consensus sequence
6. CLR: Continuous long read
7. DNA: deoxyribonucleic acid
8. DToL: Darwin Tree of Life
9. gDNA: genomic DNA
10. GQ: Genotype quality
11. hetSNP: heterozygous single nucleotide polymorphism
12. Hi-C: High-throughput chromatin conformation capture
13. Indel: insertion and deletion
14. mya: million years ago
15. ONT: Oxford Nanopore Technology
16. PS: Phase set
17. SBS: Single-base-substitution
18. SNP: Single nucleotide polymorphism
19. TiTv: Transition to transversion
20. YAC: Yeast artificial chromosome