

reconciliation are coloured blue.

- A. Acinetobacter baumannii J9 ONT rapid: a good case with clear clustering. Clusters 3 and 4 (misassembled contigs of the 145 kbp plasmid) were excluded, leaving valid clusters 1, 2 and 5. During cluster reconciliation, one cluster_1 contig had to be manually trimmed (due to low-quality start/end sequence), one cluster 1 contig had to be manually removed (due to poor pairwise alignment), two cluster 2 contigs had to be manually removed (due to being incomplete) and two cluster 5 contigs had to be manually trimmed (due to excessive length).
- **B.** Enterobacter kobei MSB1 1B ONT rapid: a mediocre case with more complex clusters. Clusters 2, 3, 5, 6, 8 (misassembled contigs of the chromosome), 9 (misassembled contig of the 136 kbp plasmid), 12, 13, 14, and 15 (misassembled contigs of the small plasmids) were excluded, leaving valid clusters 1, 4, 7, 10 and 11. During cluster reconciliation, two cluster_1 contigs had to be manually removed (due to being incomplete or poor pairwise alignment), five cluster 4 contigs had to be manually removed (due to being incomplete), three cluster 10 contigs had to be manually trimmed (due to excessive length) and six cluster 10 contigs had to be manually removed (due to being incomplete or unable to circularise).
- C. Serratia marcescens 17-147-1671 ONT rapid: a bad case where valid clusters were unclear. Insufficient read length and genome heterogeneity both contributed to the poor results. Without good clusters, it was not possible to proceed with Trycycler assembly.

