

What are sequencing metrics

Alt-text Figure 1 - Summary of sequencing metrics from BaseSpace

Screenshot from BaseSpace showing metrics values, highlighting the metrics for Yield, % \geq Q30, % Aligned and % error rate, Cluster Density and %PF. Details in the main text.

Alt-text Figure 2 - Table showing colour-coding of different flow cell pore occupancy statuses

Colour-coded table indicating the flow cell health. Light green: Active pore sequencing; Dark green: Active pore; Dark blue: Pore is recovering and may become active again; Light blue: Inactive pore not available for sequencing; White: Unclassified.

Alt-text Figure 3 - Channel states panel: real-time pore occupancy status of one sequencing run on MinKnow softwar

Screenshot of the channel states panel. It is a visual representation of the flow cell. It is composed of two blocks of hundreds of grouped squares. Each square is coloured according to the pore states.

Alt-text Figure 4 - Pore activity

Screenshot of pore activity panel. Bar graph representation of the proportion of pores sequencing, recovering, inactive or unclassified.

Alt-text Figure 5 - Read length histogram

Screenshot of read length histogram. A histogram representation of the sequenced read lengths.

Alt-text Figure 6 - Cumulative output

Screenshot of cumulative output. A graph representation indicating the number of reads increasing exponentially through the time of the sequencing run.