

**S2 Table.** Overall quality and recommended guideline threshold of BraintumorSCAN

Variable	Mean (range)	Guideline
Total DNA amount ( $\mu\text{g}$ )	3.63 (0.6-9.8)	$\geq 0.5$
Inserted median size (bp)	4,011.92 (2,066-18,637)	$\geq 350$
Mean coverage depth	852.87 (736.8-1051.0)	$\geq 300\times$
Q30 value (%)	92.89 (91.5-93.8)	$\geq 90.0$
On-target rate (%)	94.20 (93.1-95.5)	$\geq 90.0$
Uniformity (%)	77.96 (74-81)	$\geq 70.0$