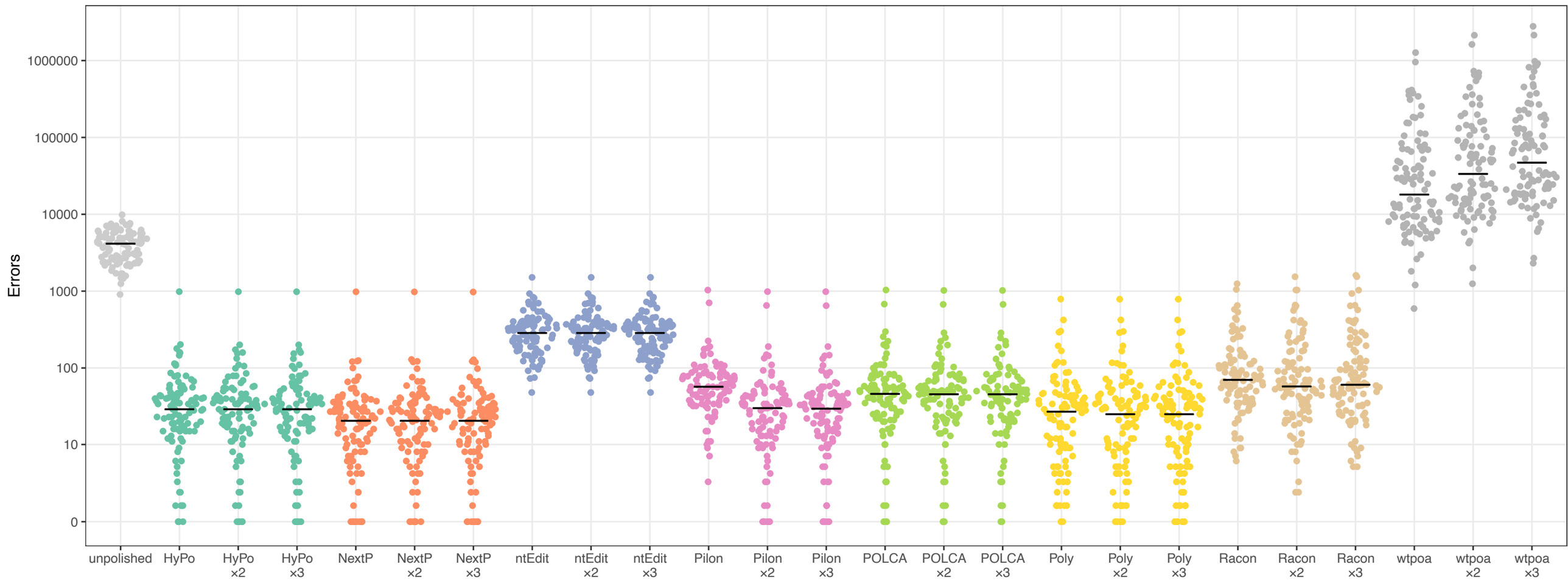
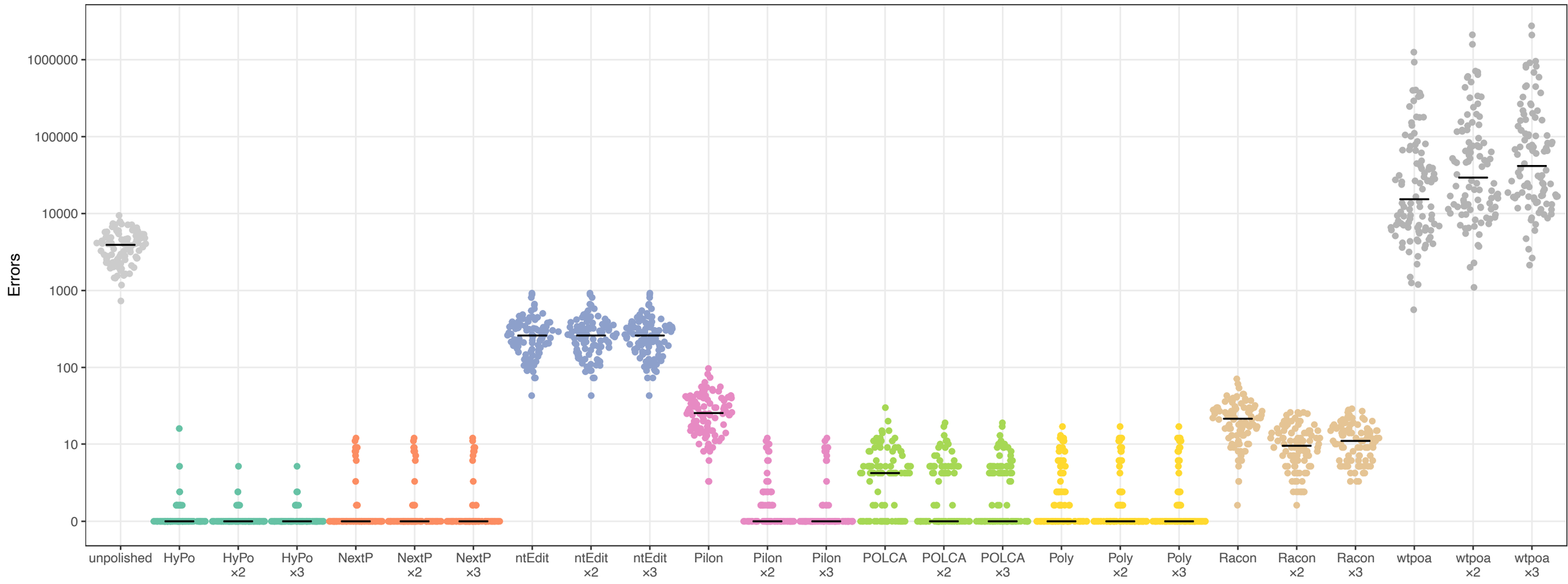
Single-tool short-read polishing, overall errors

	unpolished	HyPo	HyPo ×2	HyPo ×3	NextP	NextP ×2	NextP ×3	ntEdit	ntEdit ×2	ntEdit ×3	Pilon	Pilon ×2	Pilon ×3	POLCA	POLCA ×2	POLCA ×3	Poly	Poly ×2	Poly ×3	Racon	Racon ×2	Racon ×3	wtpoa	wtpoa ×2	wtpoa ×3
mean qscore:	29.0	49.1	49.3	49.3	50.7	50.8	50.8	40.3	40.3	40.3	46.4	48.8	48.8	47.4	47.5	47.5	48.8	48.9	48.9	44.8	44.4	44.1	17.7	15.2	13.9
total errors:	413803	4837	4707	4696	3524	3477	3471	32070	32068	32068	8112	4990	4918	7114	6895	6886	4951	4843	4847	12996	14384	15825	7784357	13697906	18527329



Single-tool short-read polishing, non-repeat errors

	unpolished	HyPo	HyPo ×2	HyPo ×3	NextP	NextP ×2	NextP ×3	ntEdit	ntEdit ×2	ntEdit ×3	Pilon	Pilon ×2	Pilon ×3	POLCA	POLCA ×2	POLCA ×3	Poly	Poly ×2	Poly ×3	Racon	Racon ×2	Racon ×3	wtpoa	wtpoa ×2	wtpoa ×3
mean qscore:	29.0	69.9	73.6	73.6	66.0	66.0	66.0	40.6	40.6	40.6	50.3	63.8	65.7	59.0	60.9	60.9	61.2	62.6	62.6	51.8	55.1	54.4	17.8	15.3	13.9
total errors:	391963	35	15	15	77	77	77	28290	28290	28290	2930	134	85	442	284	280	211	168	168	2259	1068	1196	7436131	13120822	17771635



Single-tool short-read polishing, repeat errors

	unpolished	HyPo	HyPo ×2	HyPo ×3	NextP	NextP ×2	NextP ×3	ntEdit	ntEdit ×2	ntEdit ×3	Pilon	Pilon ×2	Pilon ×3	POLCA	POLCA ×2	POLCA ×3	Poly	Poly ×2	Poly ×3	Racon	Racon ×2	Racon ×3	wtpoa	wtpoa ×2	wtpoa ×3
mean qscore:	28.5	35.5	35.6	35.6	37.2	37.2	37.2	37.2	37.2	37.2	35.2	35.5	35.5	34.3	34.4	34.4	36.5	36.7	36.6	32.2	31.5	31.2	16.2	14.0	12.8
total errors:	21840	4802	4692	4681	3447	3400	3394	3780	3778	3778	5182	4856	4833	6672	6611	6606	4740	4675	4679	10737	13316	14629	348226	577084	755694

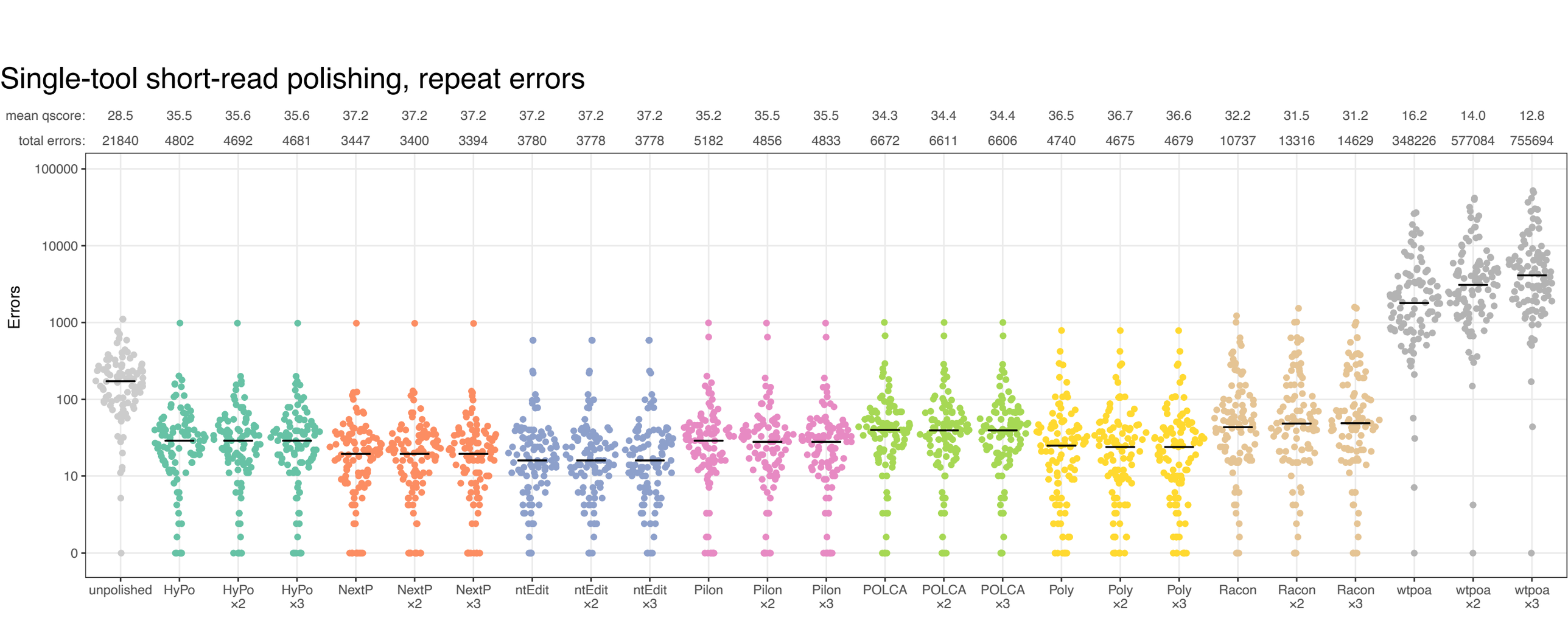


Figure S3: short-read polishing tool benchmarking results using 100 genomes with simulated Illumina reads. This figure shows the same results as Figure 2A but with additional detail: all polishing rounds are shown, wtpoa is included, and results are broken down for non-repeat regions and repeat regions of the genomes. Mean qscores and error totals are shown at the top of the plot, and the horizontal lines indicate median error rates for each polisher.