

Supplementary Table 5: Performance evaluation on STR mining

Human chrs	CPU time (sec)				Memory (MB)							
	Kmer- SSR	STRESS with p=0	PERF	STRESS with p=1	Kmer- SSR		STRESS with p=0		PERF		STRESS with p=1	
					Total memory	Processing memory	Total memory	Processing memory	Total memory	Processing memory	Total memory	Processing memory
1	326.61	11.25	61.01	12.50	949.44	734.36	228.41	3.33	896.41	671.33	228.41	3.33
2	341.92	12.00	57.81	15.60	996.92	762.01	238.32	3.41	872.72	637.81	238.32	3.41
3	256.71	9.92	47.82	11.97	751.64	558.19	196.71	3.26	719.09	525.64	196.71	3.26
4	266.61	12.18	45.40	12.55	692.30	507.00	188.75	3.45	690.82	505.52	188.75	3.45
5	260.90	10.50	43.52	12.54	632.96	455.95	180.21	3.20	659.81	482.80	180.21	3.20
6	245.62	10.25	41.91	12.32	601.31	435.22	170.17	4.08	622.22	456.13	170.17	4.08
7	224.31	8.56	38.12	10.17	514.28	359.04	158.22	2.98	581.91	426.67	158.22	2.98
8	205.63	7.22	34.72	7.85	577.80	436.43	144.45	3.13	532.12	390.75	144.45	3.13
9	172.82	7.35	32.89	6.95	561.75	442.82	122.63	3.70	508.42	389.49	122.63	3.70
10	185.01	8.01	32.13	8.46	577.80	447.66	133.41	3.27	492.25	307.24	133.41	3.27
11	187.72	4.83	32.52	6.08	561.75	430.37	134.26	3.25	496.86	309.14	134.26	3.25
12	192.51	3.93	32.12	4.33	553.84	423.83	133.98	3.97	490.47	360.96	133.98	3.97
13	138.72	4.41	27.16	5.04	419.33	280.61	99.75	3.87	424.18	328.30	99.75	3.87
14	133.75	2.73	25.78	3.51	387.61	298.96	92.63	3.98	398.48	309.83	92.63	3.98
15	129.92	4.33	24.12	6.26	367.91	285.26	86.32	3.67	380.70	298.05	86.32	3.67
16	113.41	4.02	21.63	4.78	356.04	276.16	83.44	3.56	339.79	259.91	83.44	3.56
17	119.50	4.48	20.83	4.97	599.99	519.02	79.13	3.69	314.97	234.00	79.13	3.69
18	111.21	2.42	20.01	3.04	348.13	269.92	82.10	3.89	304.87	226.66	82.10	3.89
19	81.72	1.57	14.20	3.73	265.05	207.98	59.32	2.25	228.53	147.45	59.32	2.25
20	89.81	2.76	15.62	3.45	284.83	222.39	65.46	3.02	248.95	186.51	65.46	3.02
21	54.67	2.39	11.63	3.58	189.88	150.73	42.05	2.90	186.74	147.59	42.05	2.90
22	53.00	2.45	12.17	2.94	185.93	147.69	40.52	2.28	201.13	162.89	40.52	2.28
X	223.01	8.03	39.16	8.98	636.92	485.66	154.24	2.98	566.72	415.46	154.24	2.98
Y	36.09	1	13.11	1	110.76	85.04	27.89	2.15	223.61	187.52	27.89	2.15
Average value	172.9654	6.1079	29.7029	7.1916	505.1600	384.2625	122.5987	3.3000	474.2404	348.6520	122.5987	3.3000