Supplementary information

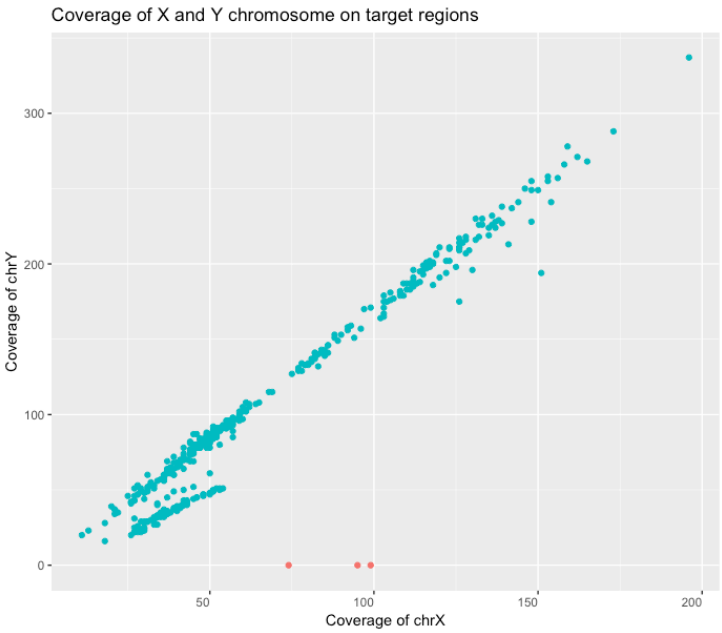

Figure 1. Coverage of X and Y chromosome of samples marked as male in the metadata.

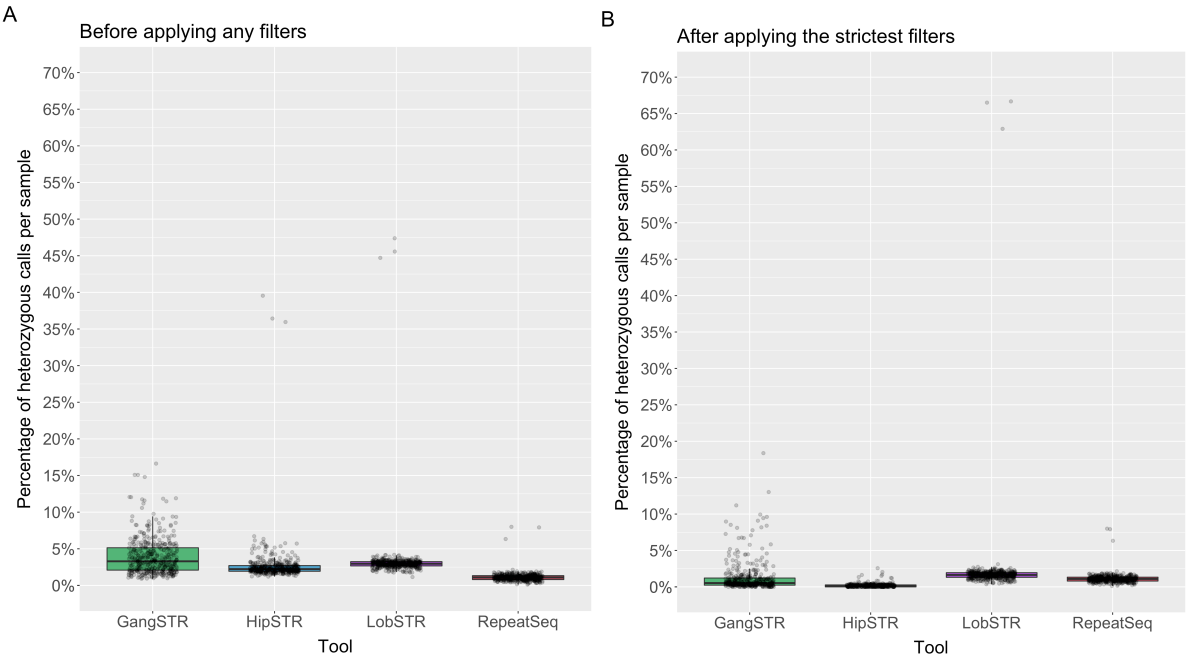

Figure 2. (A) Percentage of heterozygous calls over all samples (each dot is a sample) - no filters applied. (B) Percentage of heterozygous calls over all samples after applied the strictest recommended filters for the tools. Since no filters were recommended for RepeatSeq then it has the same values on both plots.

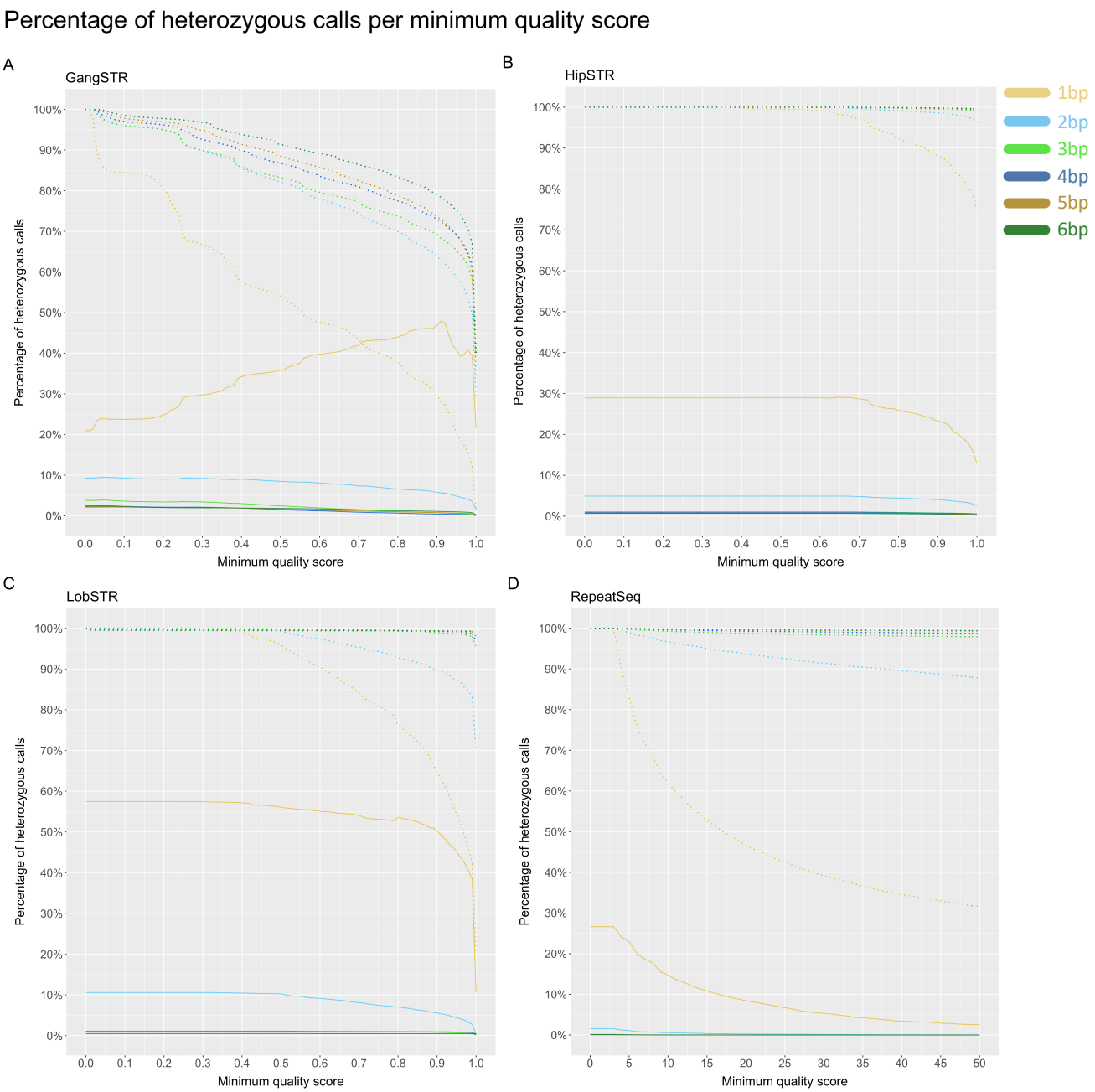

Figure 3. Percentage of heterozygous calls as a function of minimum quality score. (A) GangSTR, (B) HipSTR, (C) LobSTR, (D) RepeatSeq. Solid line represents the percentage of heterozygous calls as a function of minimum quality score and dotted line the percentage of remaining calls as a function of minimum quality score. Dotted line represents the percentage of remaining calls as a function of minimum number of reads. Heterozygous calls are represented in percentages, but the total number of calls is different for each tool, where 100% is 796775 calls for GangSTR, 757432 calls for HipSTR, 848252 calls for LobSTR and 775030 calls for RepeatSeq.

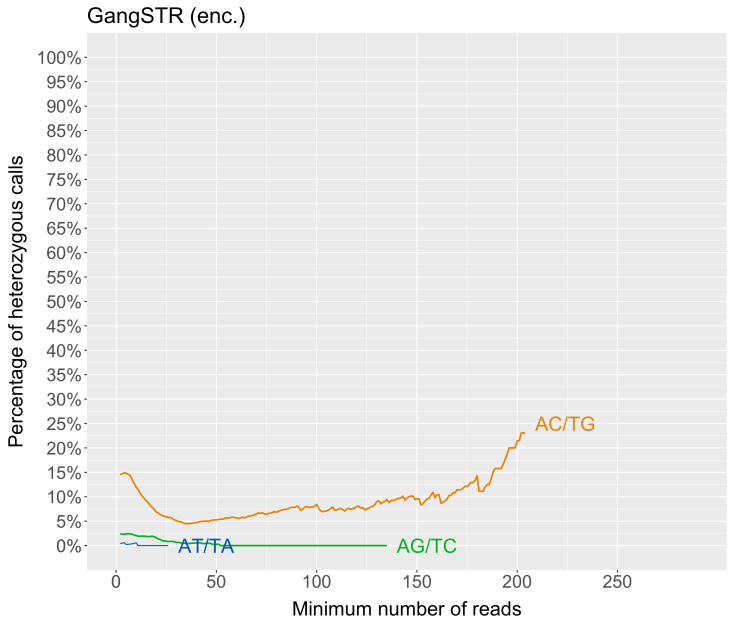

Figure 4. Percentage of heterozygous calls per minimum number of reads (dinucleotides).

Table 1. List of samples included in the analysis.

SRR1272193	SRR1272230	SRR1272231	SRR1272233	SRR1272235	SRR1272237
SRR1272240	SRR1272241	SRR1272242	SRR1272244	SRR1272245	SRR1272246
SRR1272248	SRR1272250	SRR1272251	SRR1272253	SRR1272254	SRR1272255
SRR1272257	SRR1272258	SRR1272259	SRR1272263	SRR1272267	SRR1272271
SRR1272274	SRR1272275	SRR1272278	SRR1272280	SRR1272282	SRR1272284
SRR1272285	SRR1272287	SRR1272288	SRR1272289	SRR1272291	SRR1272293
SRR1272295	SRR1272296	SRR1301226	SRR1301227	SRR1301228	SRR1301229
SRR1301230	SRR1301232	SRR1301233	SRR1301234	SRR1301236	SRR1301237
SRR1301238	SRR1301240	SRR1301241	SRR1301242	SRR1301245	SRR1301246
SRR1301248	SRR1301250	SRR1301252	SRR1301253	SRR1301254	SRR1301256
SRR1301257	SRR1301258	SRR1301262	SRR1301264	SRR1301266	SRR1301270
SRR1301272	SRR1301273	SRR1301274	SRR1301276	SRR1301277	SRR1301280
SRR1301281	SRR1301283	SRR1301284	SRR1301286	SRR1301287	SRR1301289
SRR1301290	SRR1301291	SRR1301293	SRR1301295	SRR1301297	SRR1301299
SRR1301303	SRR1301307	SRR1301310	SRR1301313	SRR1301314	SRR1301316
SRR1301318	SRR1301320	SRR1301322	SRR1301324	SRR1301326	SRR1301328
SRR1301329	SRR1301330	SRR1301332	SRR1301334	SRR1301336	SRR1301337
SRR1301338	SRR1301340	SRR1301341	SRR1301342	SRR1301344	SRR1301345
SRR1301346	SRR1301348	SRR1301350	SRR1301352	SRR1301353	SRR1301354
SRR1301356	SRR1301357	SRR1301359	SRR1301361	SRR1301362	SRR1301363
SRR1301364	SRR1301365	SRR1301366	SRR1301368	SRR1301370	SRR1301372
SRR1301373	SRR1301374	SRR1301376	SRR1301378	SRR1301380	SRR1301382
SRR1301384	SRR1301385	SRR1301387	SRR1301389	SRR1301392	SRR1301394
SRR1301395	SRR1301396	SRR1301398	SRR1301399	SRR1301400	SRR1301403
SRR1301406	SRR1301407	SRR1301409	SRR1301411	SRR1301413	SRR1301414
SRR1301416	SRR1301417	SRR1301418	SRR1301422	SRR1301424	SRR1301425
SRR1301426	SRR1301430	SRR1301432	SRR1301434	SRR1301436	SRR1301438
SRR1301440	SRR1301441	SRR1301442	SRR1301444	SRR1301446	SRR1301448
SRR1301450	SRR1301452	SRR1301454	SRR1301457	SRR1301459	SRR1301460
SRR1301461	SRR1301463	SRR1301465	SRR1301468	SRR1301470	SRR1301471
SRR1301475	SRR1301477	SRR1301479	SRR1301481	SRR1301483	SRR1301485
SRR1301486	SRR1301487	SRR1301489	SRR1301491	SRR1301493	SRR1301495
SRR1301498	SRR1301500	SRR1301502	SRR1301505	SRR1301507	SRR1301508
SRR1301509	SRR1301511	SRR1301512	SRR1301513	SRR1301515	SRR1301516

SRR1301517 SRR1301520 SRR1301521 SRR1301523 SRR1301524 SRR1301525
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SRR1515933