

Supplementary material

Figure A1: Ratio of the observed and expected microsatellite density. Length scaled by absolute length bp (a) or by repeat number (b). (solid black) monomicrosatellites, (solid grey) dimicrosatellite, (□) trimicrosatellite and (*) tetramicrosatellites

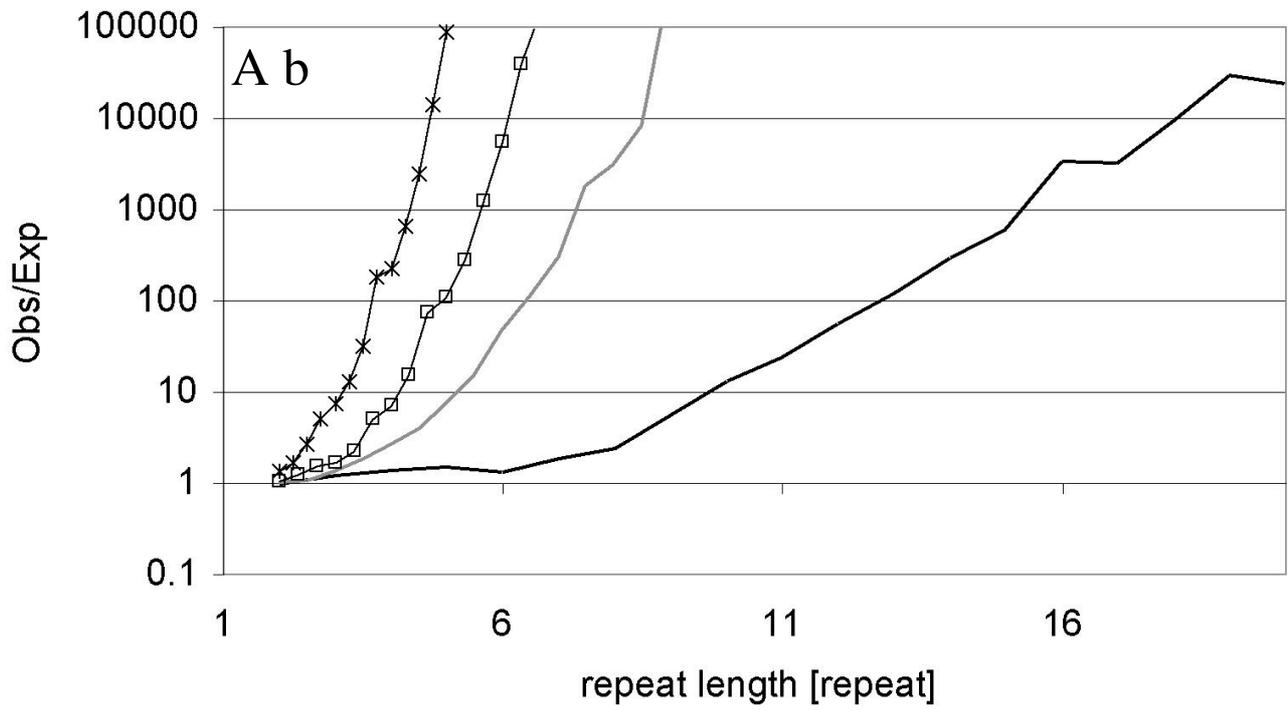
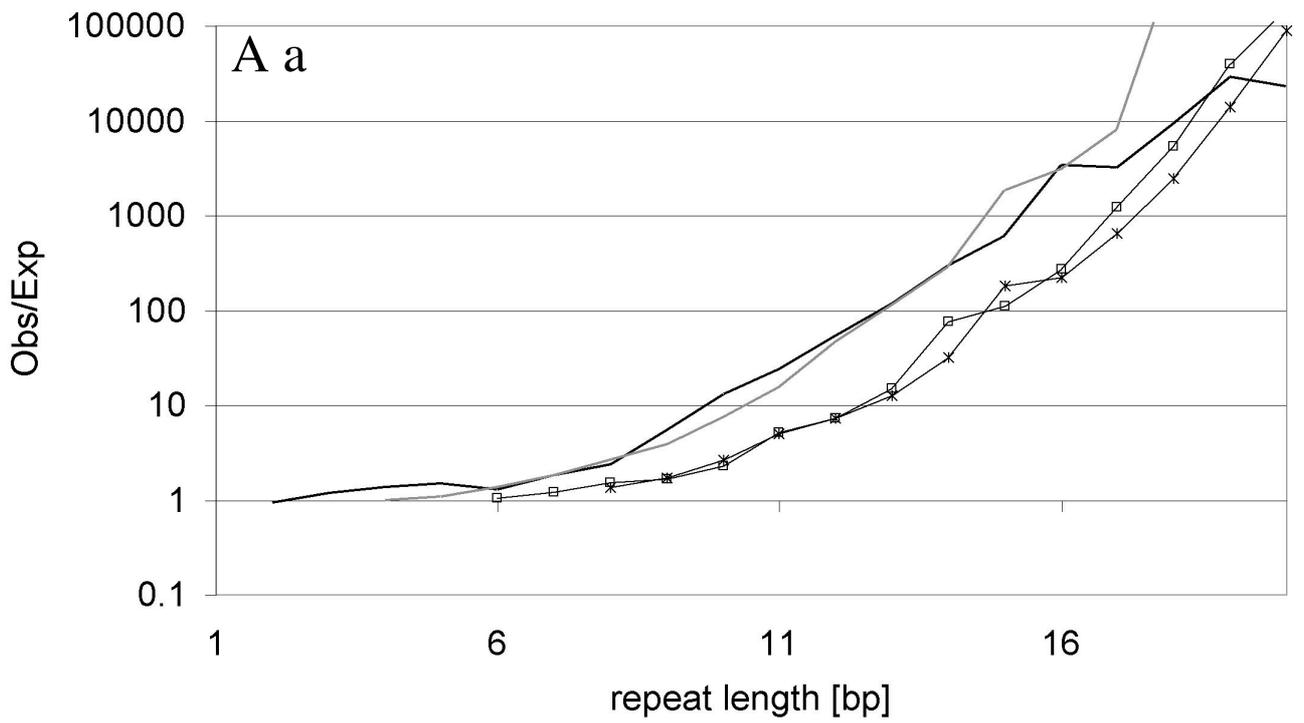
A a: *M.mus.*, A b: *M.mus.*, B a: *F.rub.*, B b: *F.rub.*, C a: *D.mel.*, C b: *D.mel.*, D a: *C.ele.*, D b: *C.ele.*, E a: *A.tha.*, E b: *A.tha.*, F a: *O.sat. L. ssp. indica*, F b: *O.sat. L. ssp. indica*, G a: *O.sat. L. ssp. japonica*, G b: *O.sat. L. ssp. japonica*, H a: *C.alb.*, H b: *C.alb.*, I a: *S.cer.*, I b: *S.cer.*

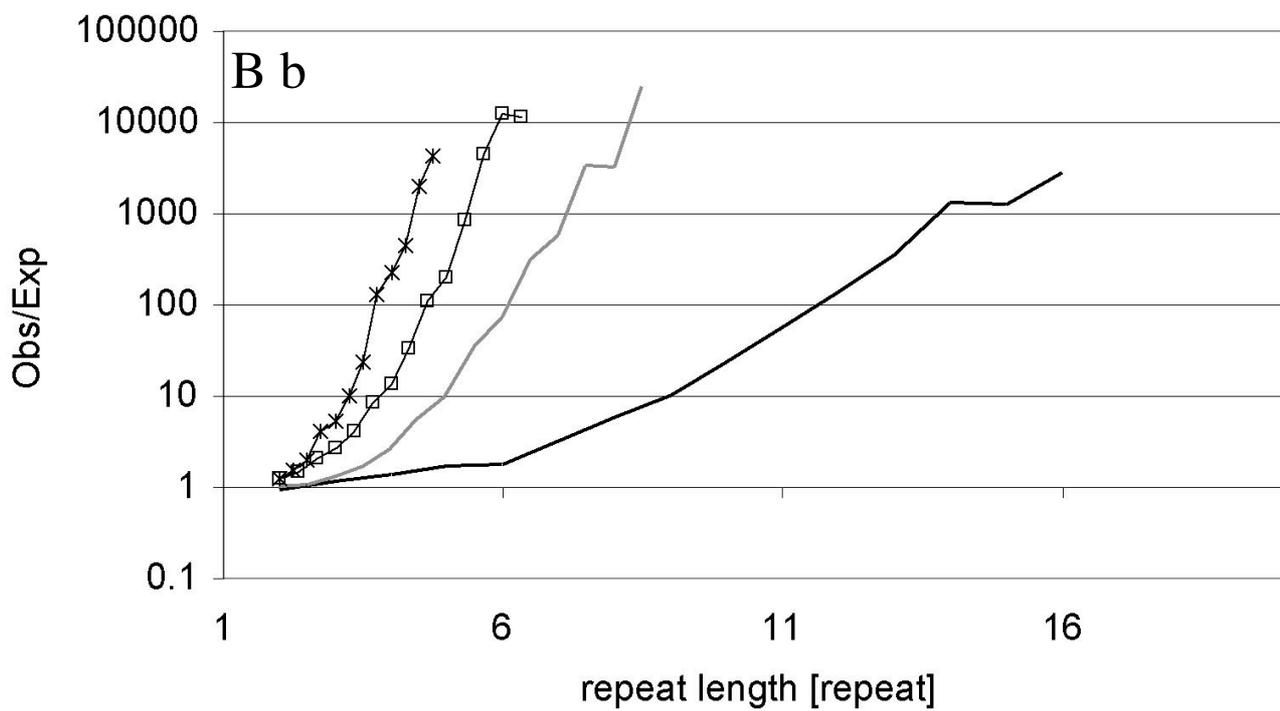
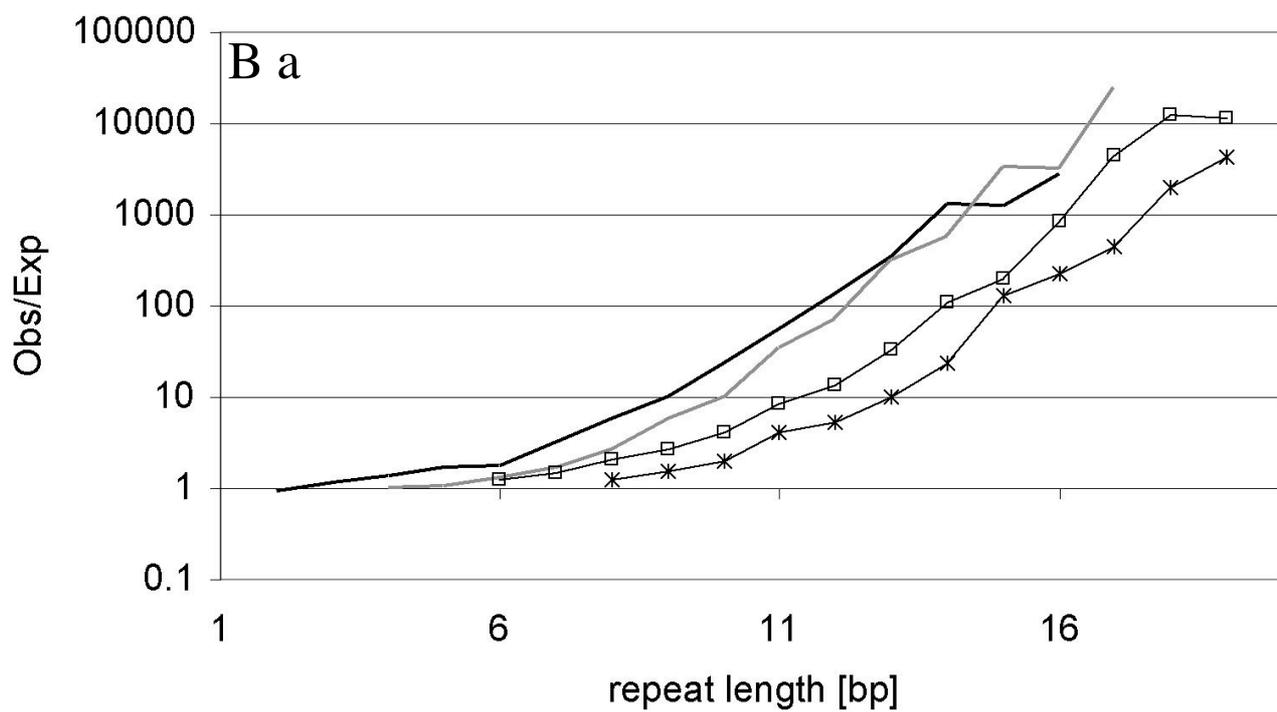
Figure A2: Representation plots for mononucleotide microsatellites. Solid lines indicate observed densities and dashed lines the expected densities. A/T-microsatellites are indicated by black lines and G/C microsatellites by gray lines marked with the symbol: □.

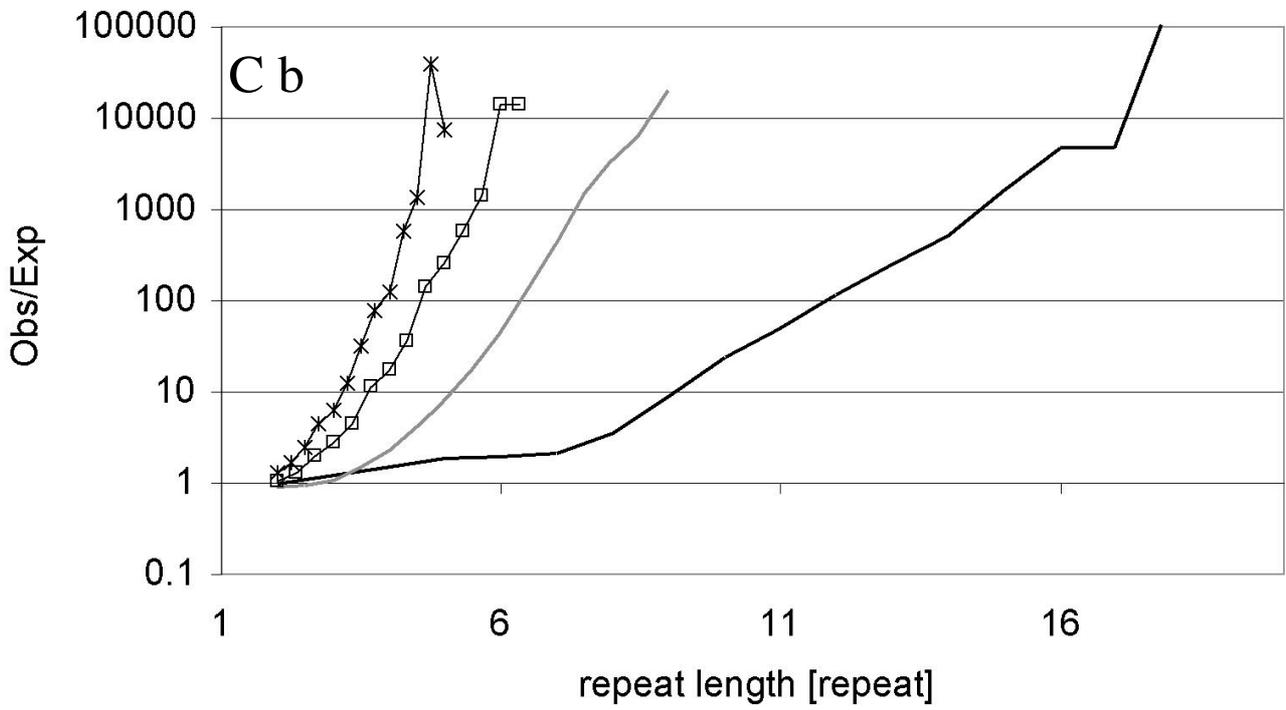
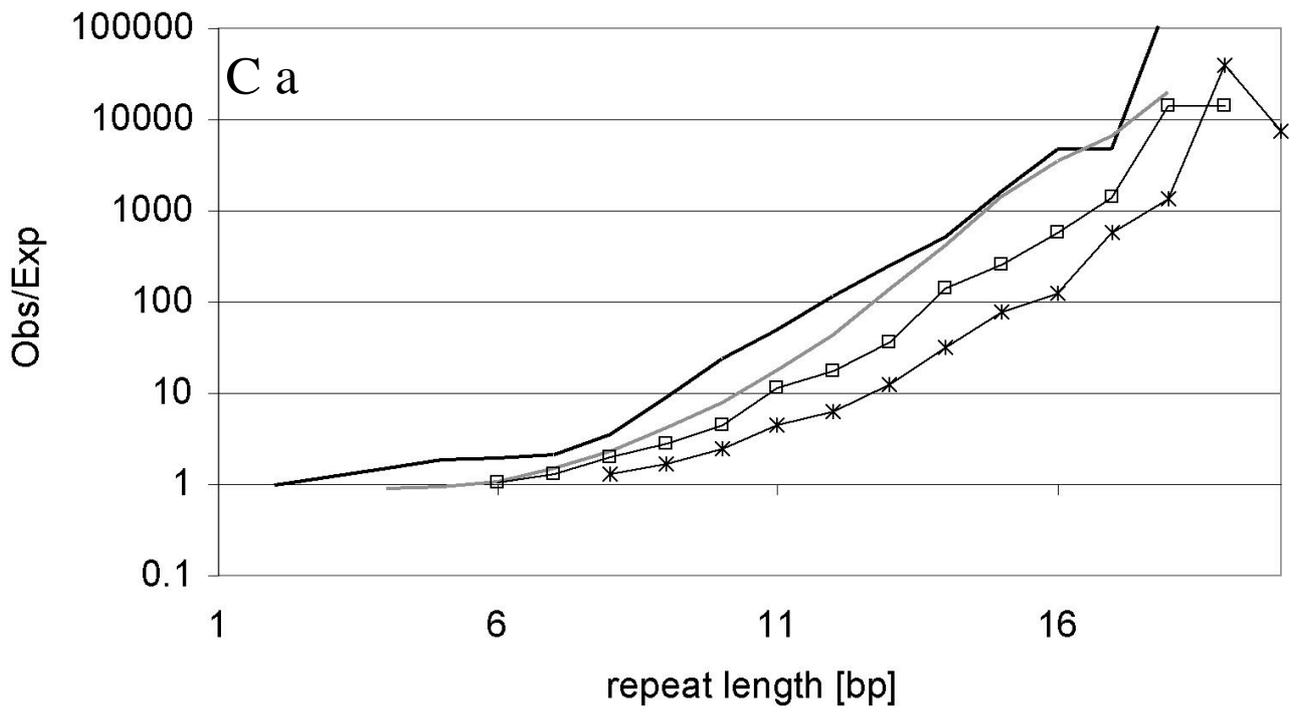
A: *Mus musculus*, B: *Fugu rubripes*, C: *Arabidopsis thaliana*, D: *Oryza sativa L. ssp. indica*, E: *Oryza sativa L. ssp. japonica*, F: *Candida albicans*, G: *Saccharomyces cerevisiae*

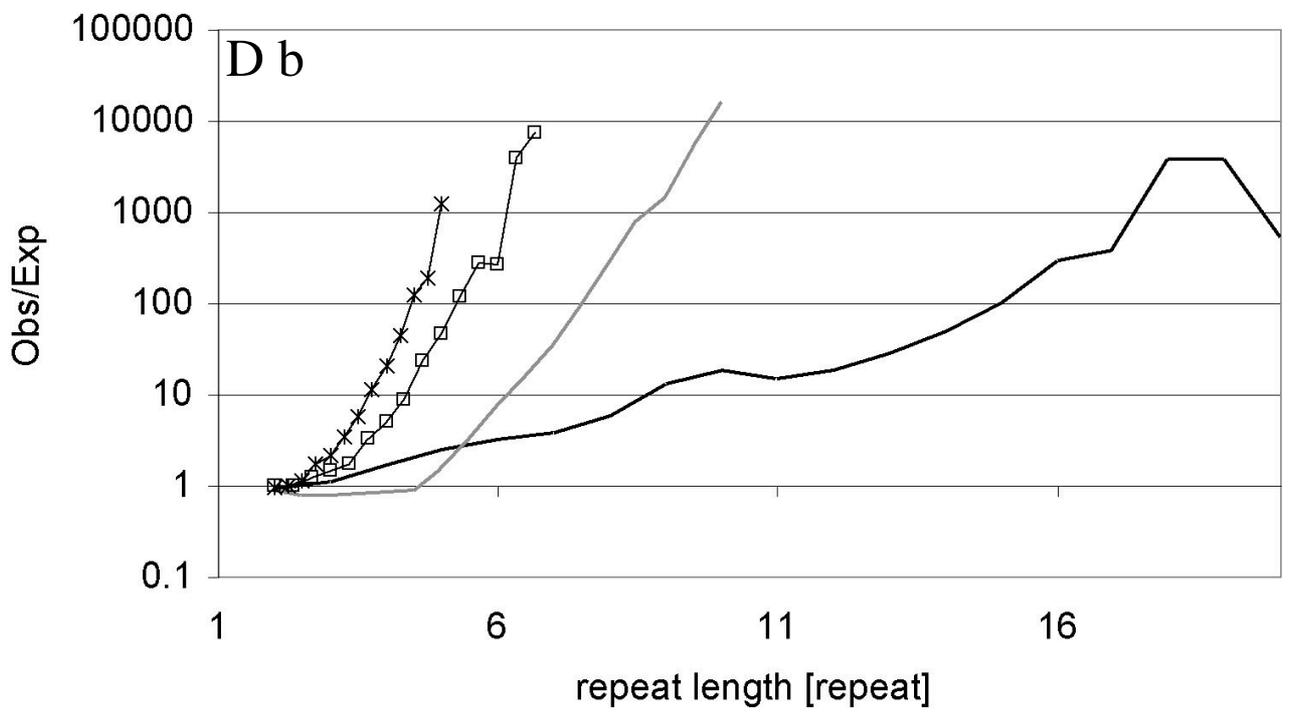
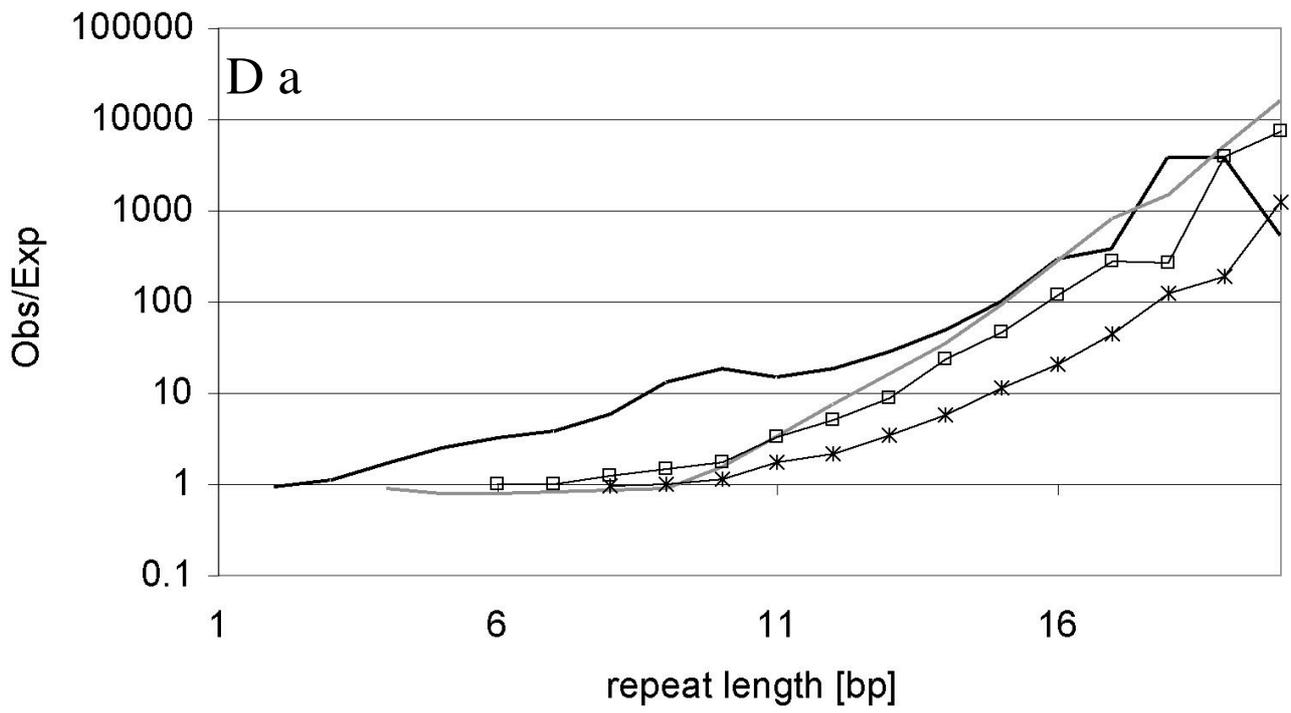
Figure A3: Relative density of A/T, AT/TA, AC/GT, AAT/ATT and AGAT/ATCT microsatellites plotted against repeat length. Relative densities were calculated by the comparison of a given species against the mean of all genomes (see text for details).

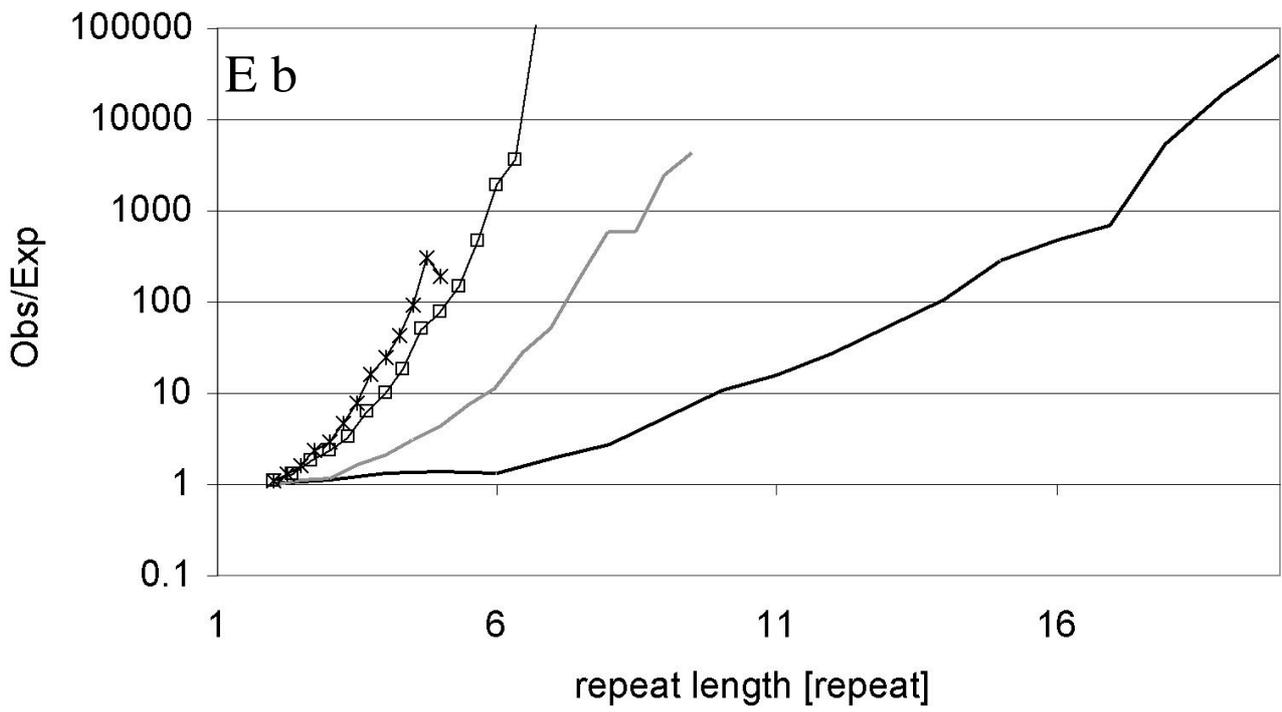
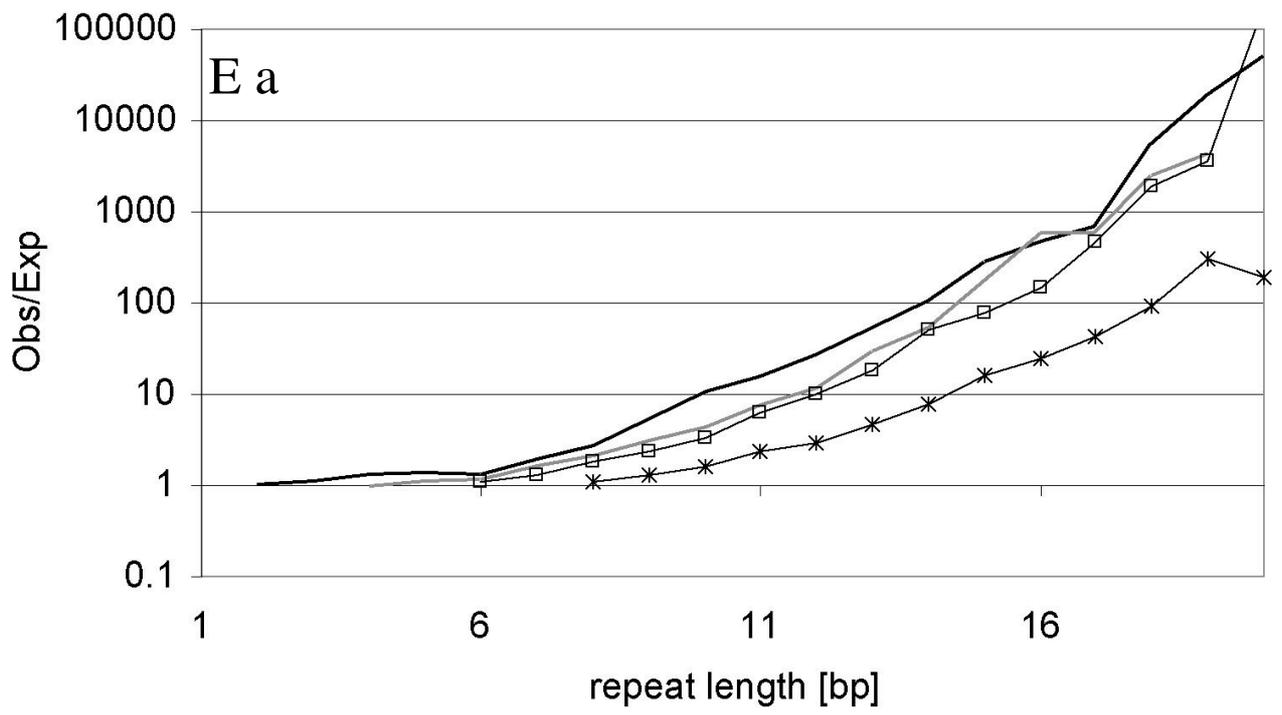
A: *Homo sapiens*, B: *Mus musculus*, C: *Fugu rubripes*, D: *Drosophila melanogaster*, E: *Caenorhabditis elegans*, F: *Arabidopsis thaliana*, G: *Oryza sativa L. ssp. indica*, H: *Oryza sativa L. ssp. japonica*, I: *Candida albicans*, J: *Saccharomyces cerevisiae*

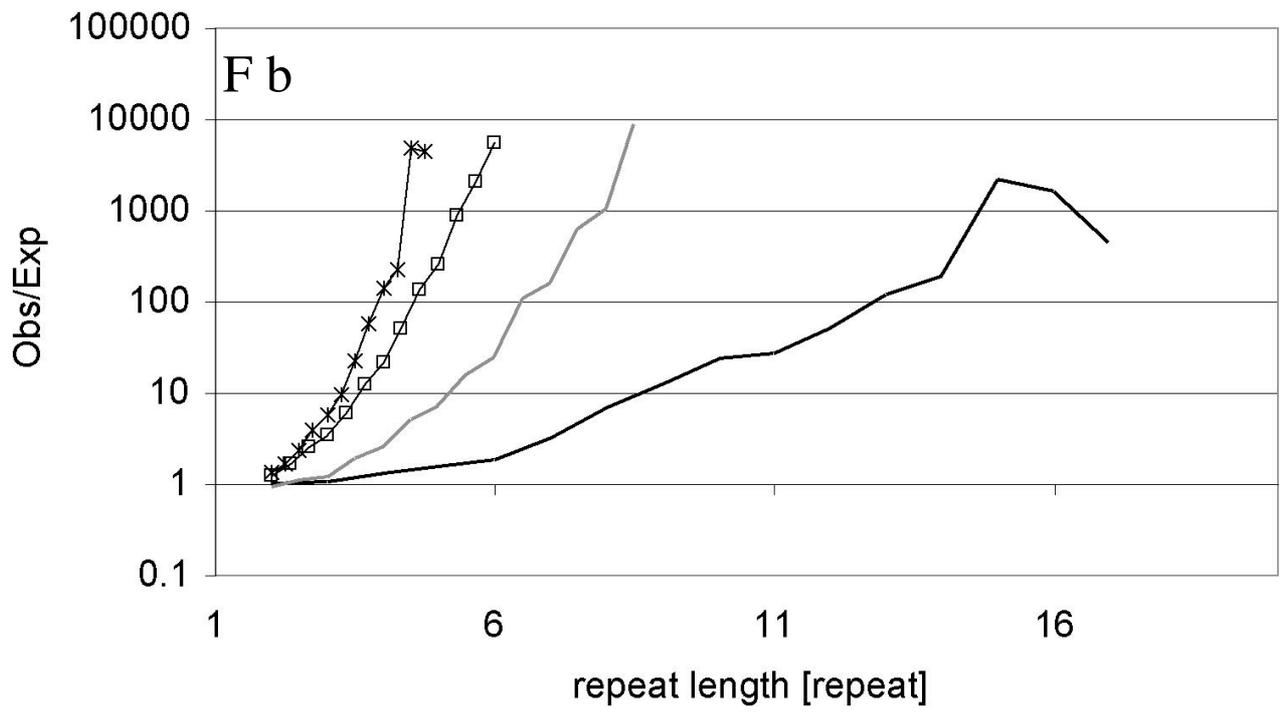
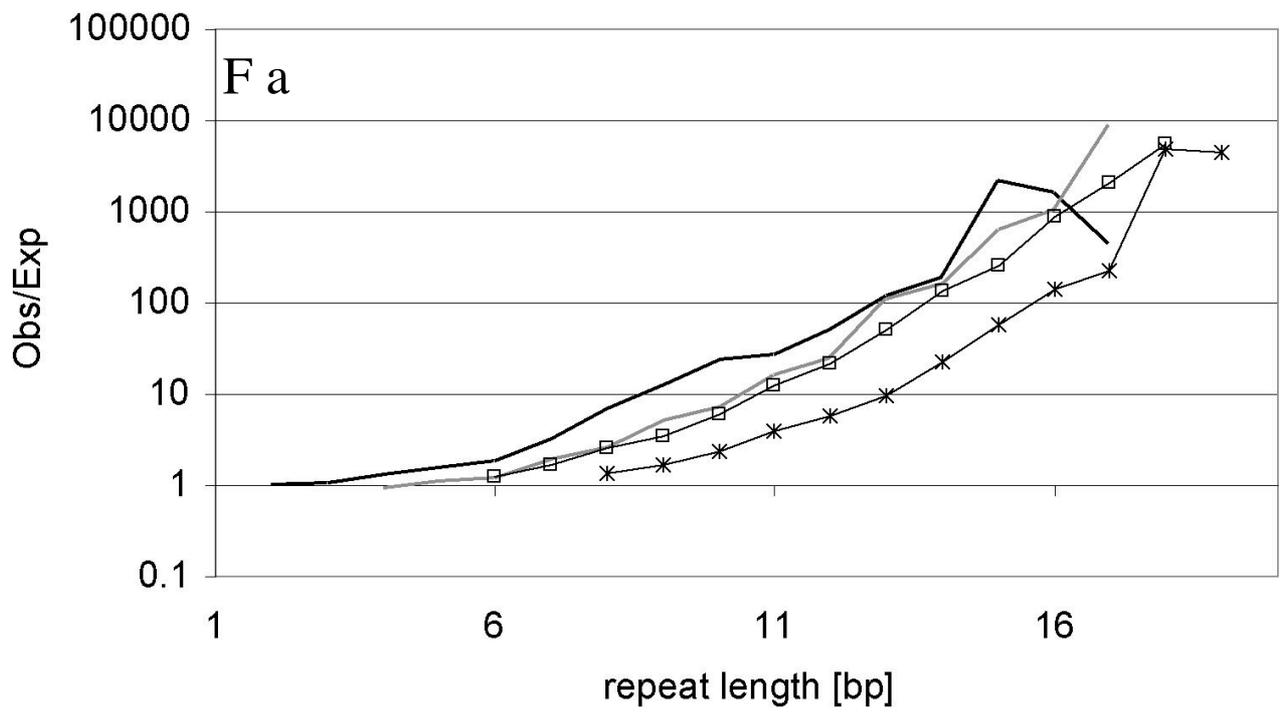


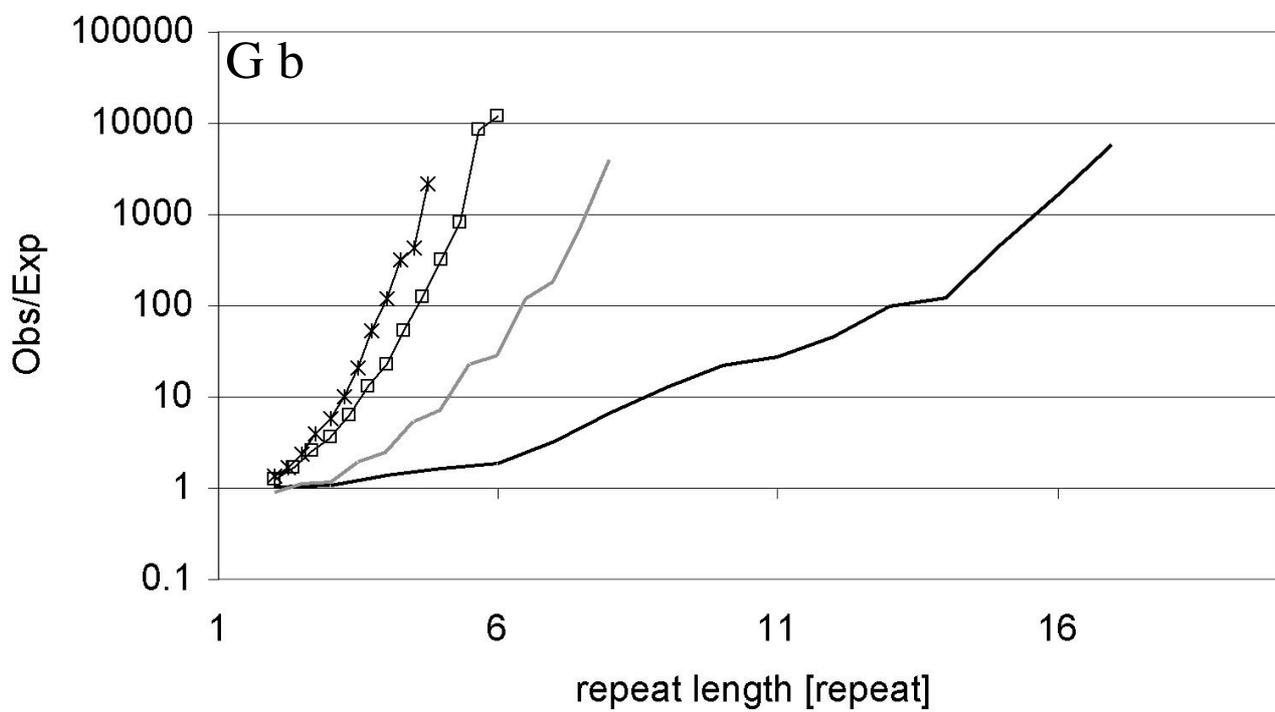
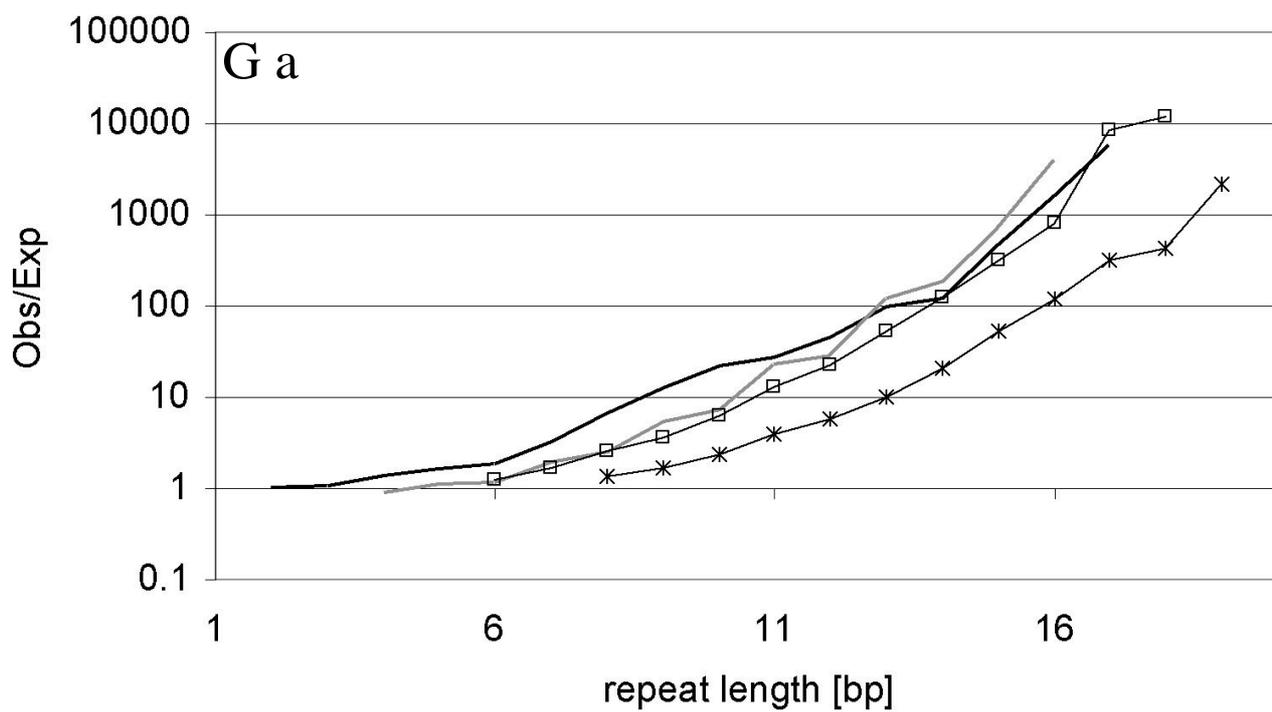


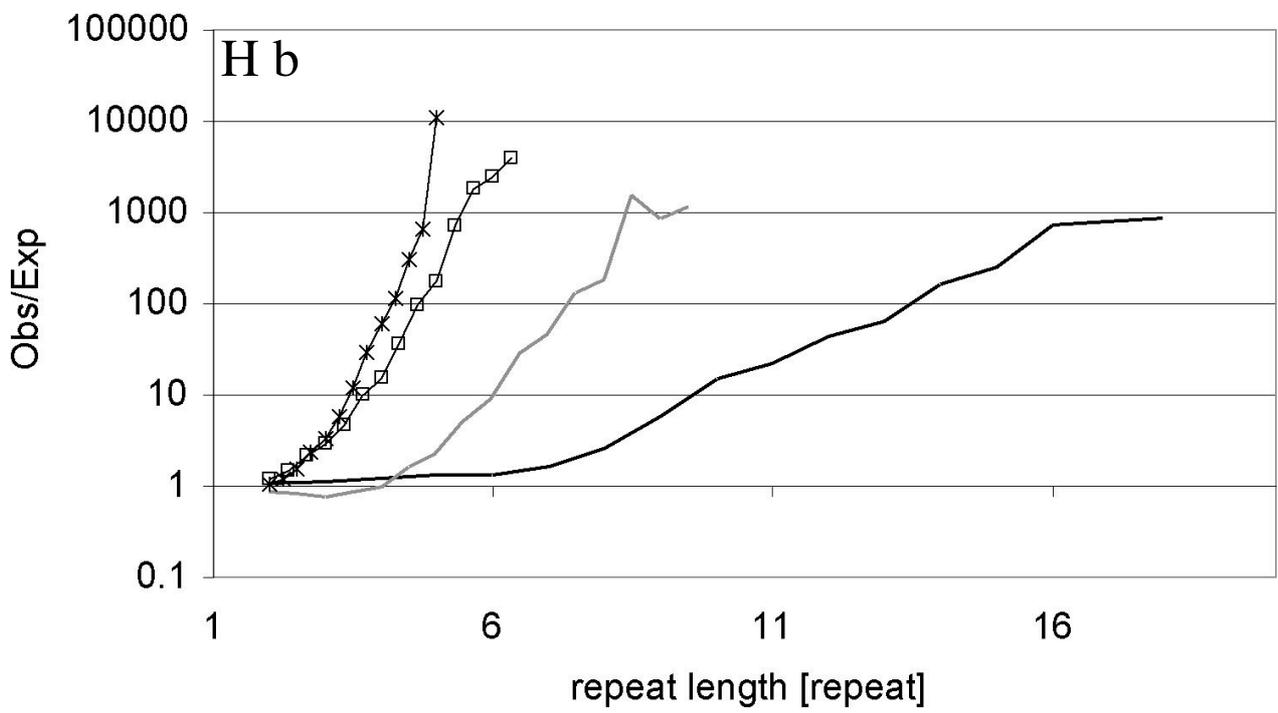
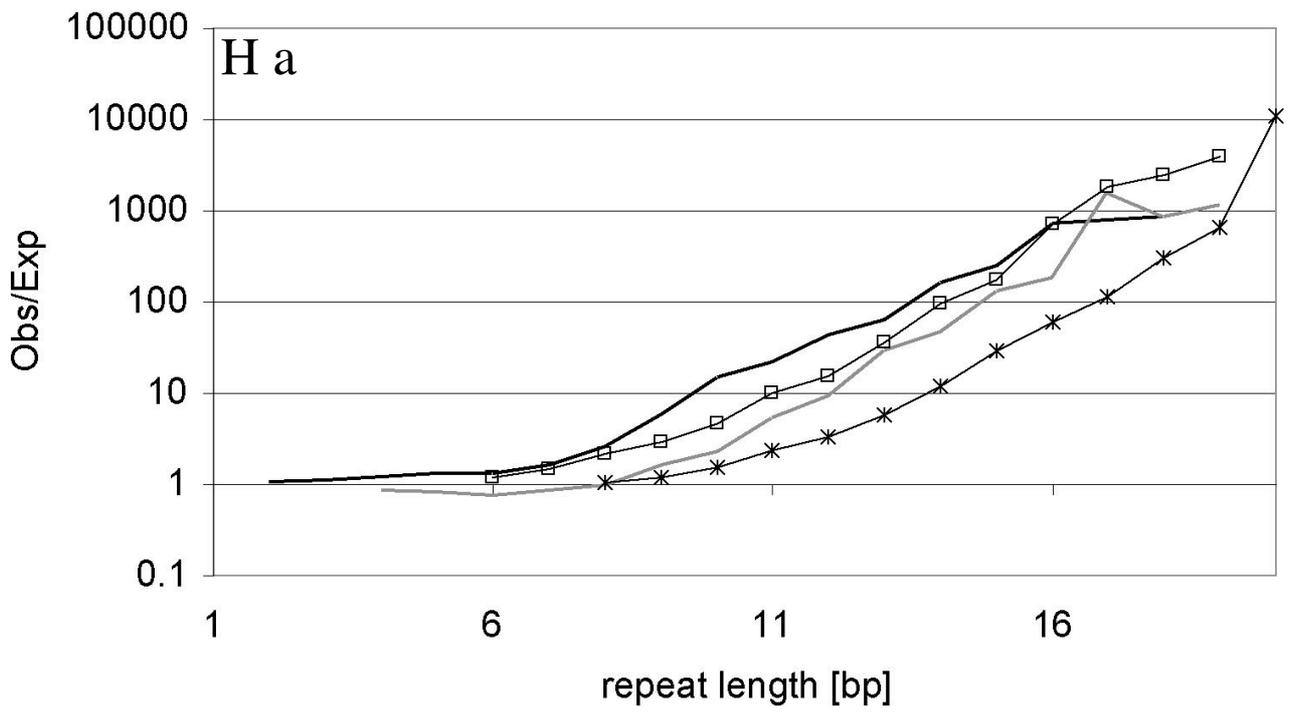


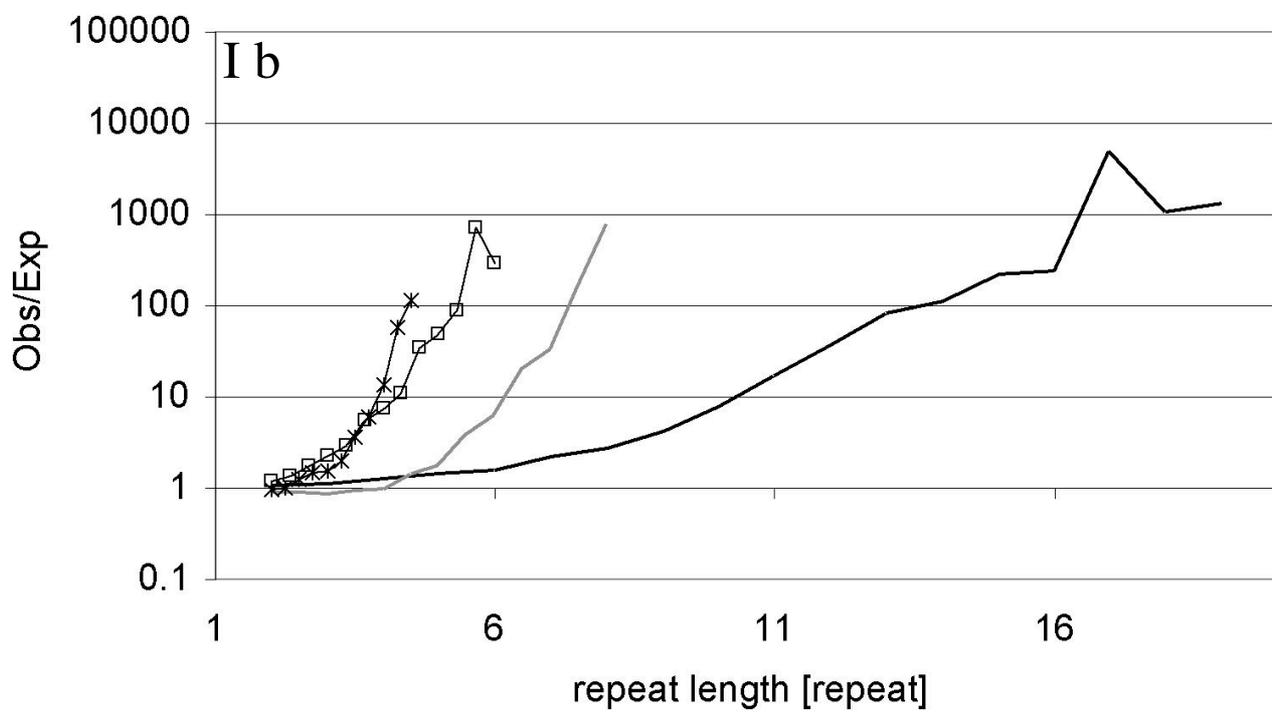
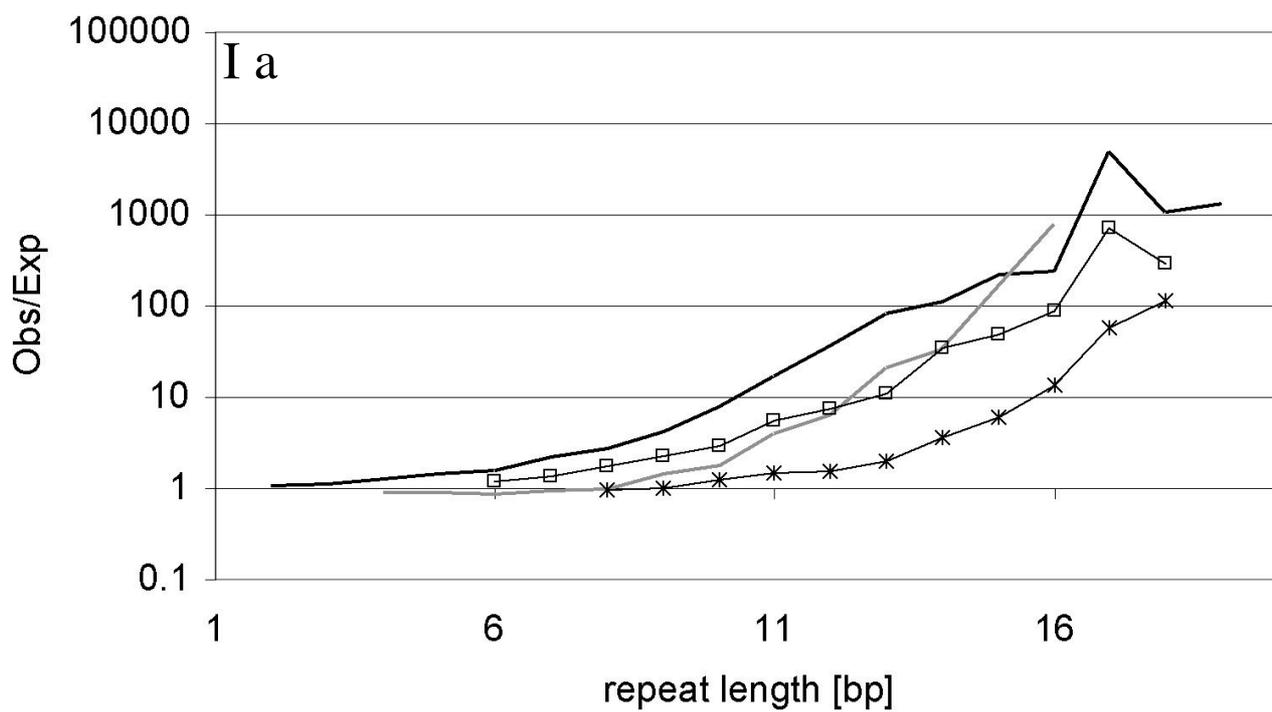


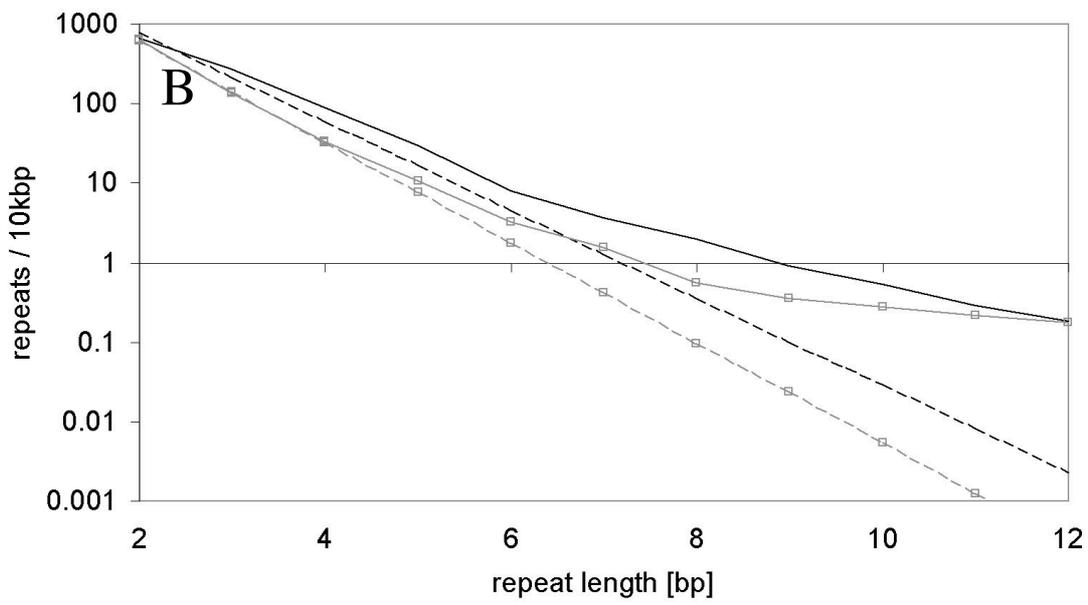
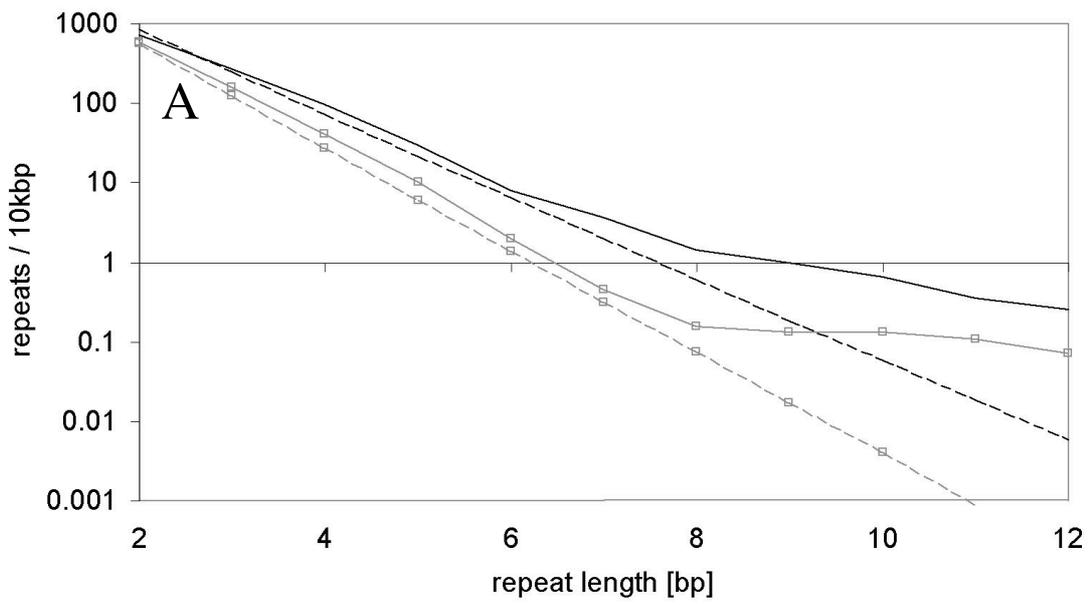


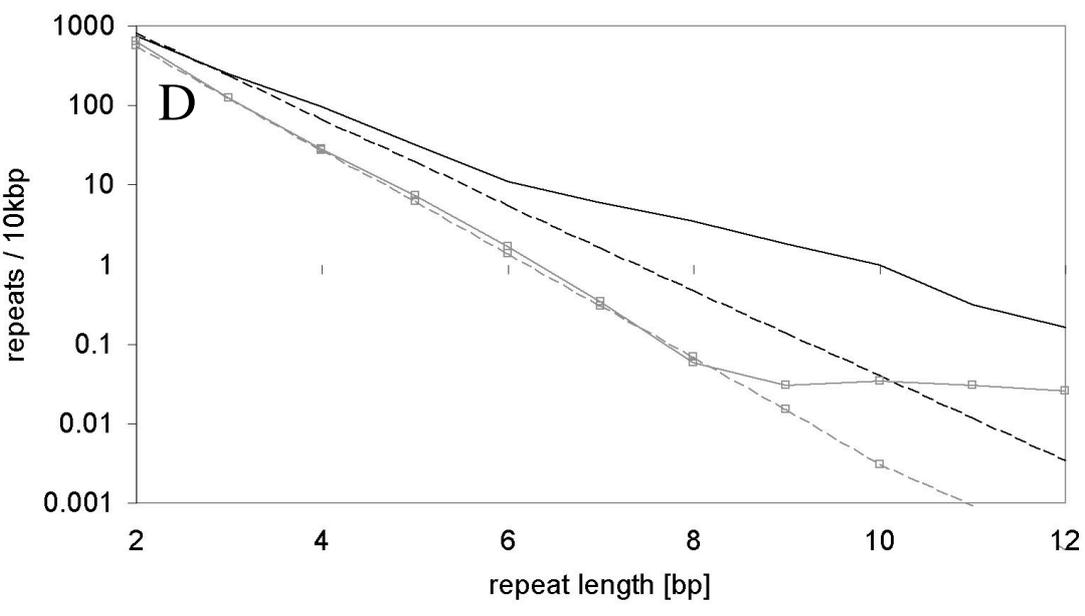
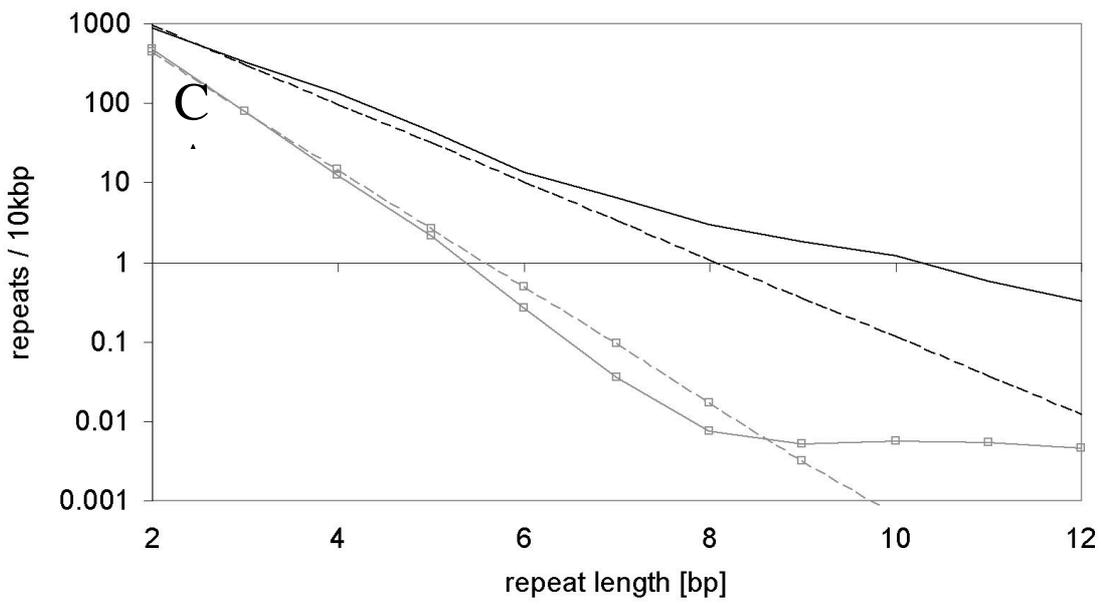


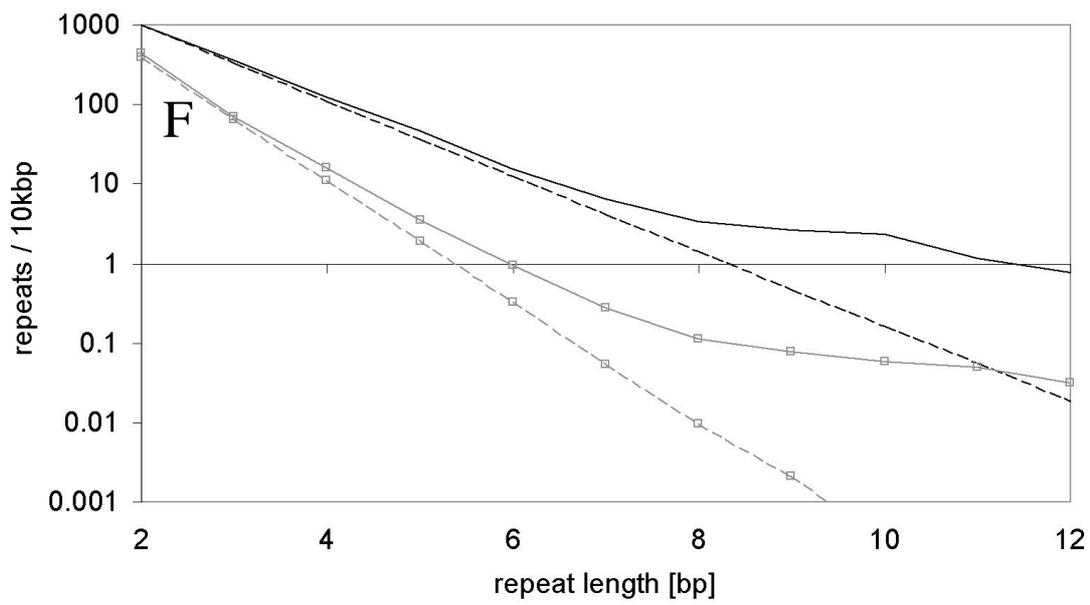
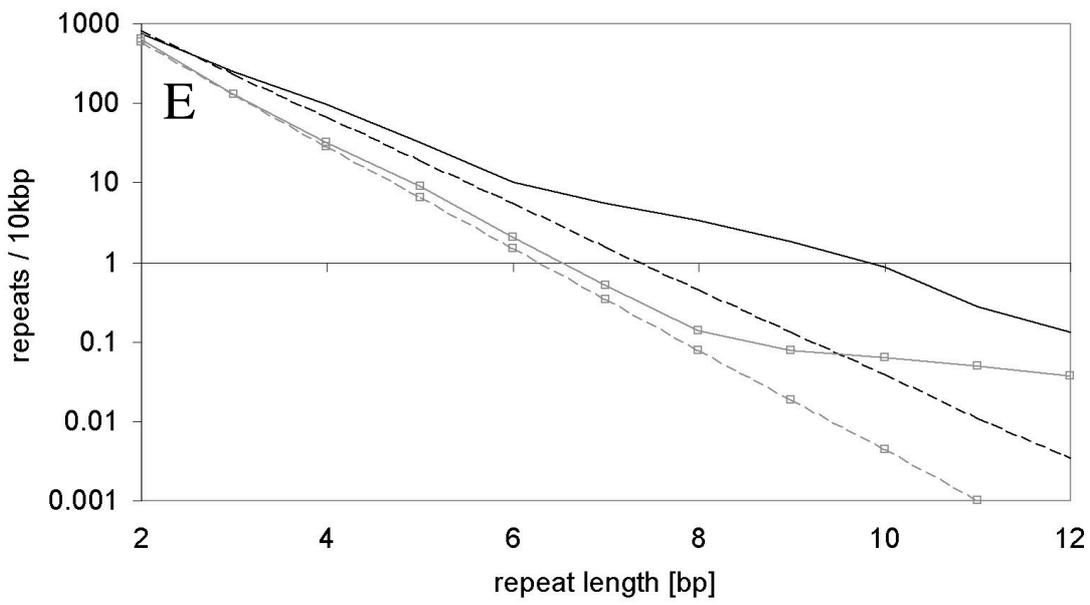


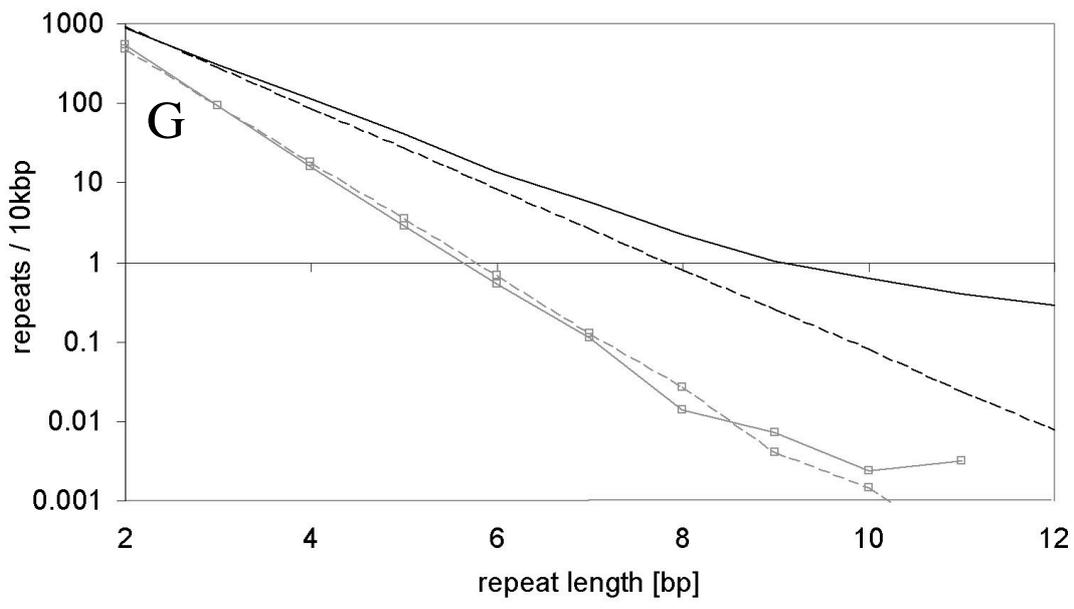


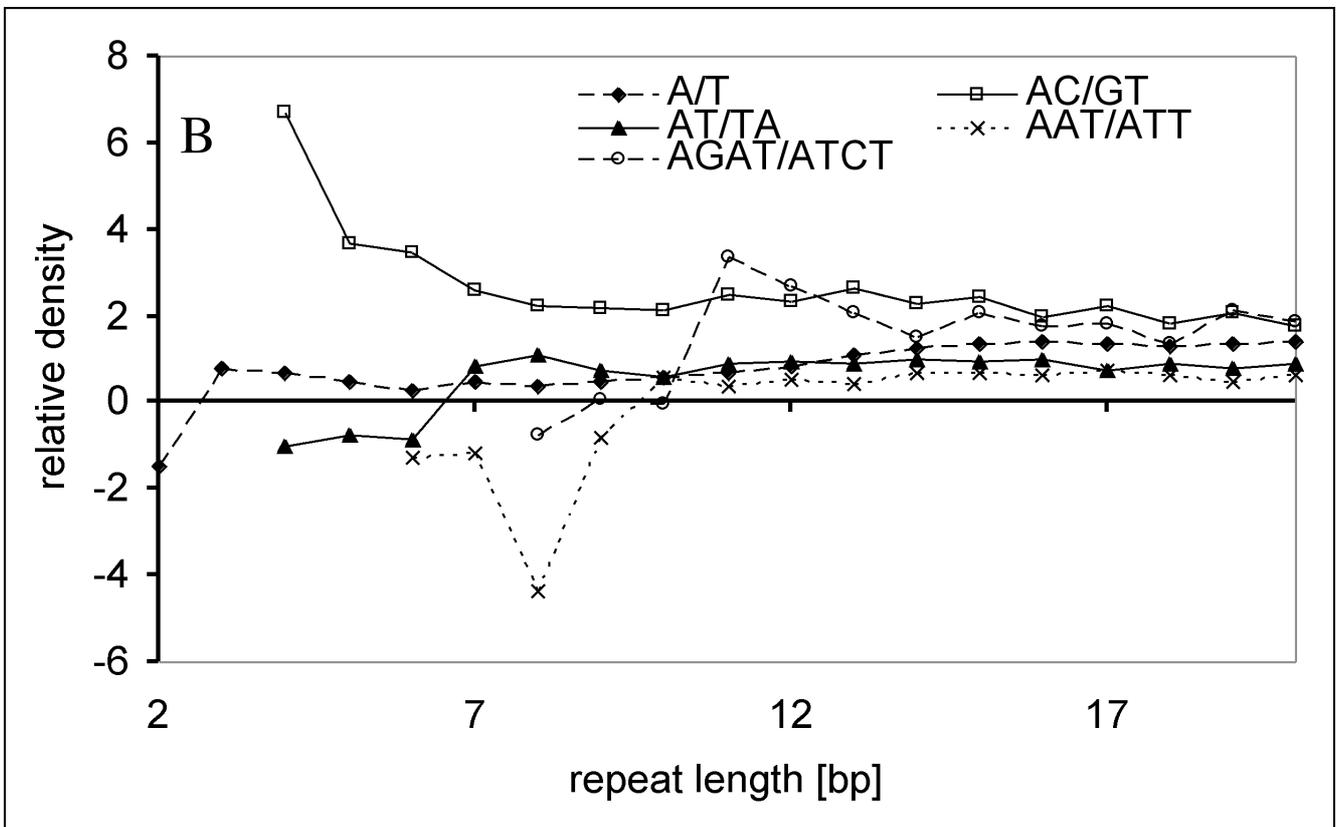
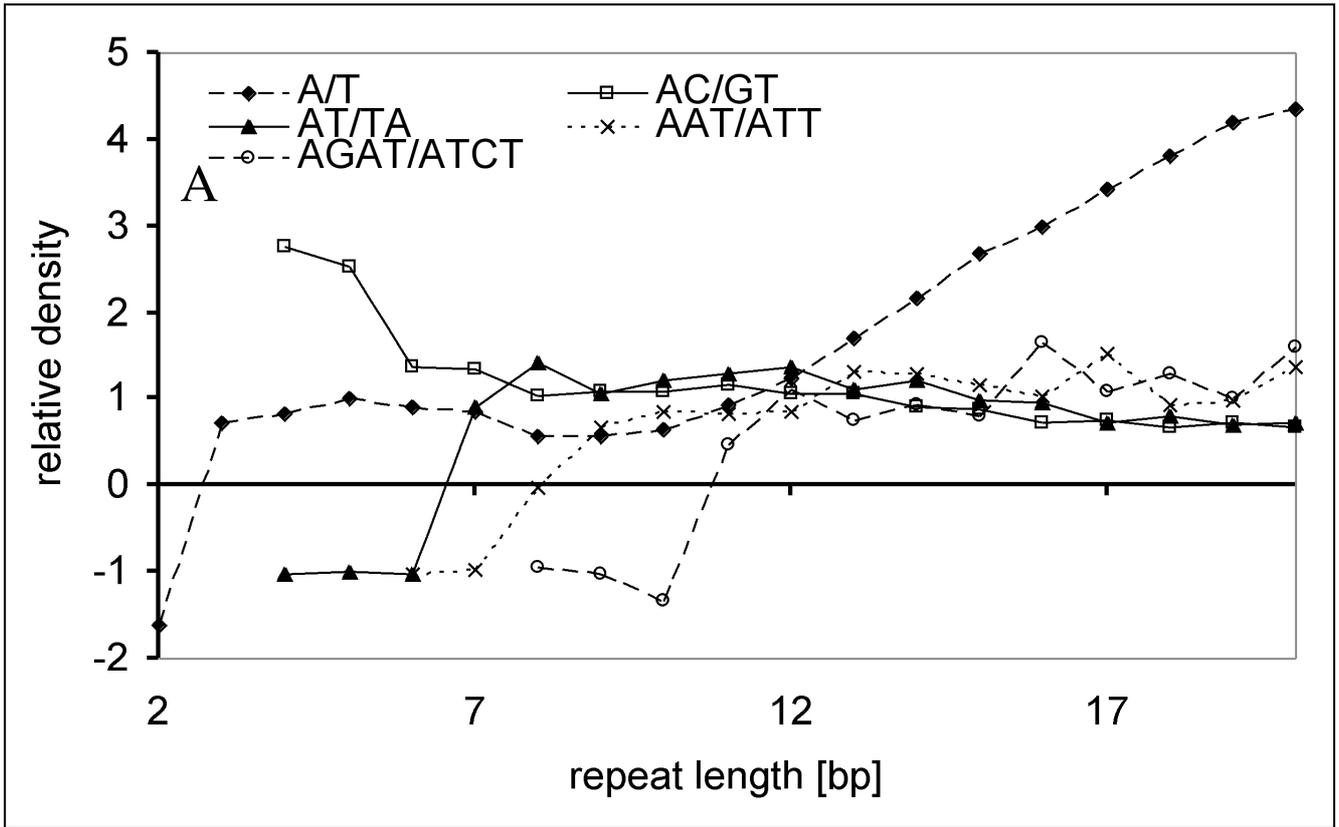


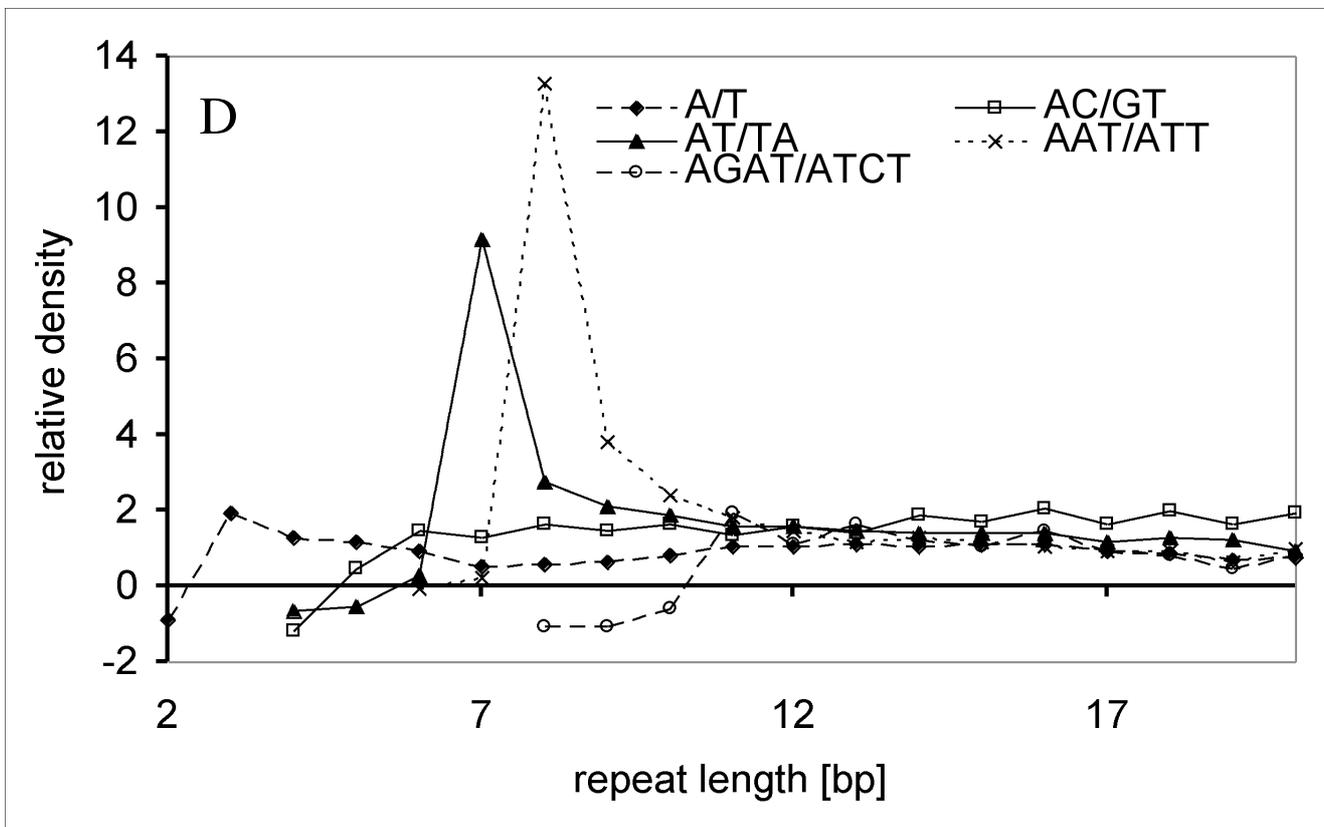
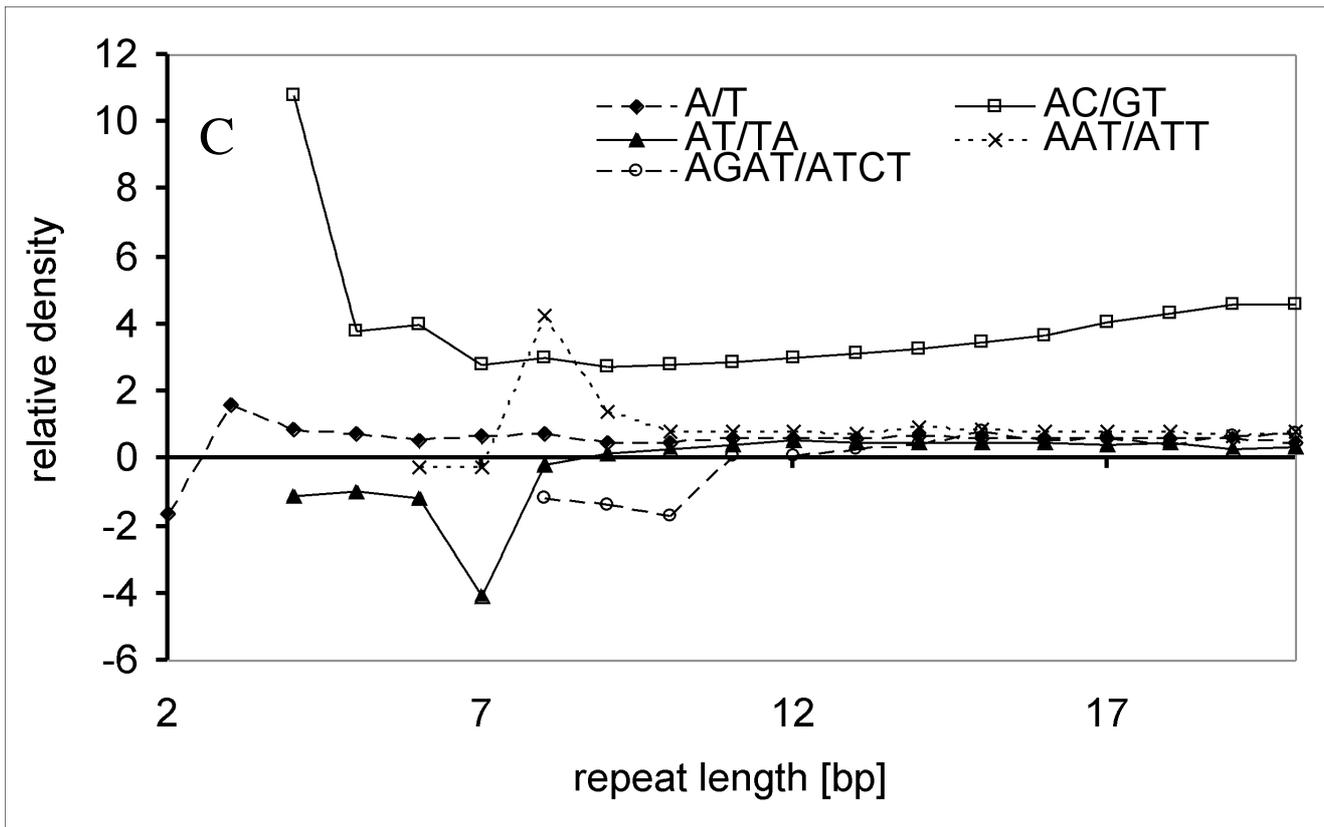


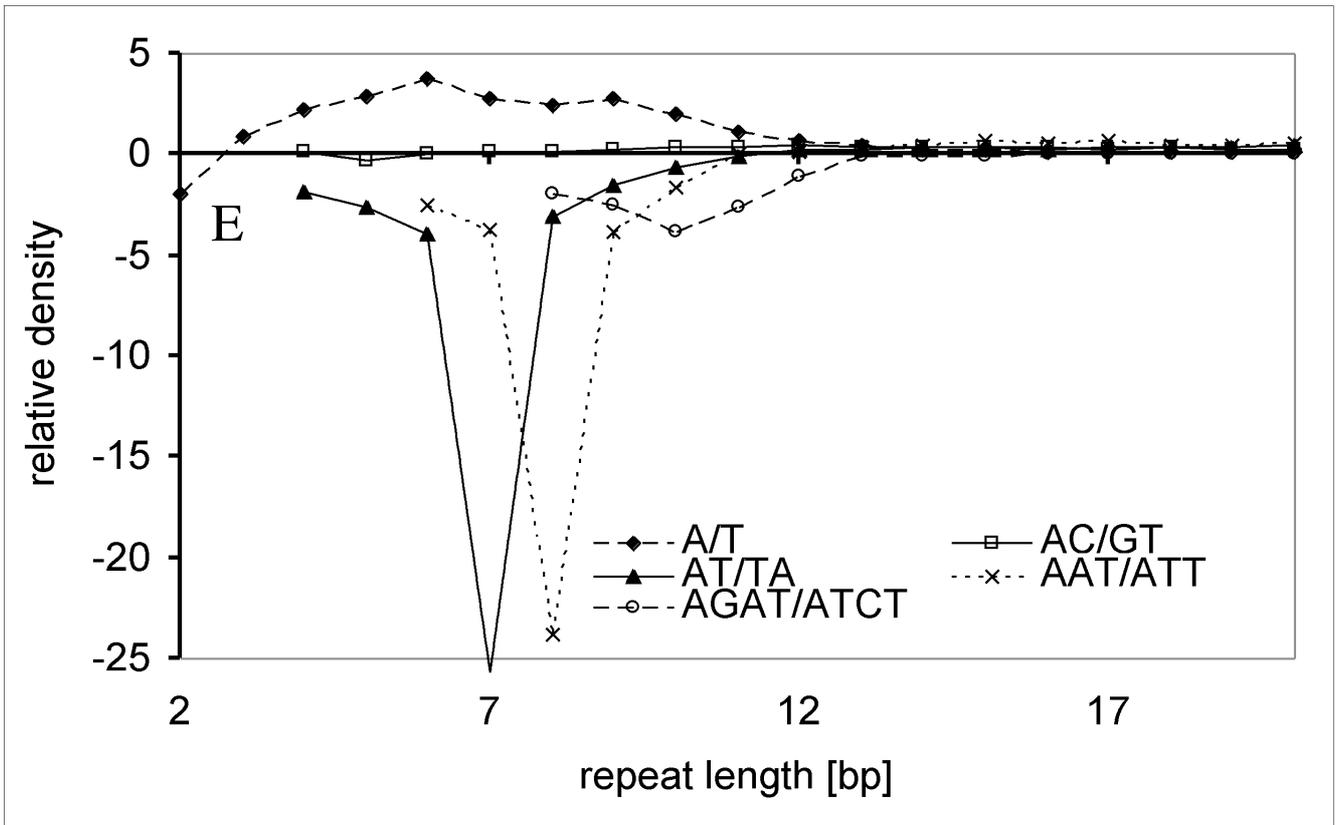


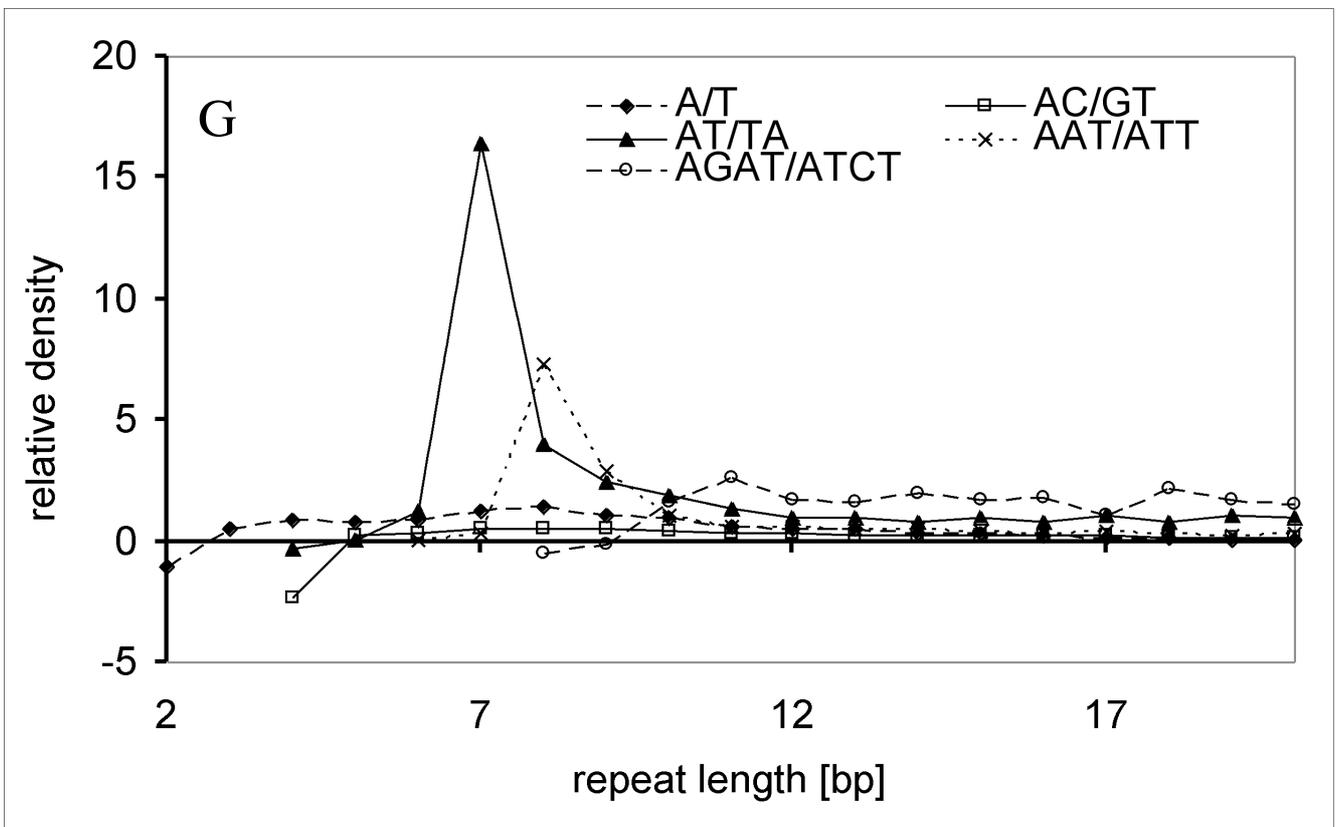
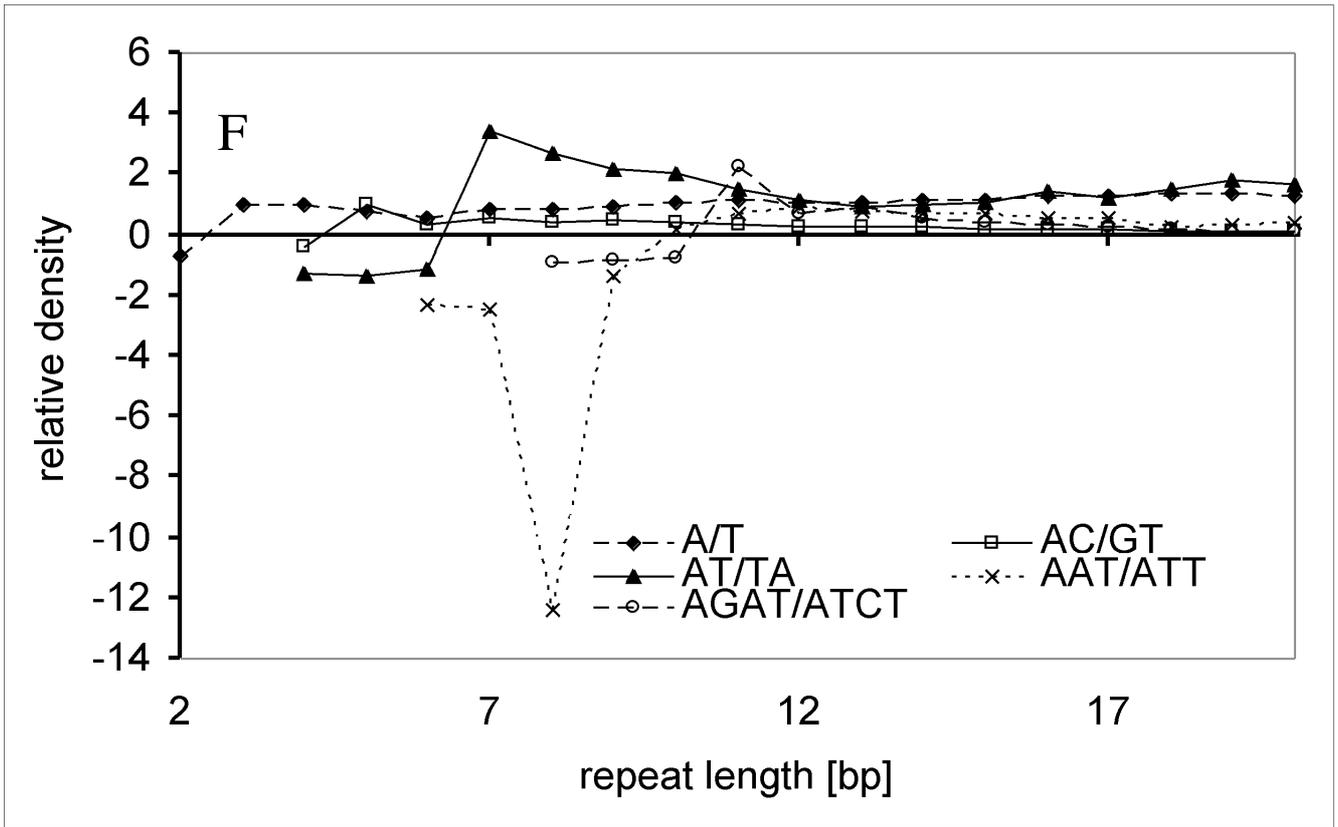


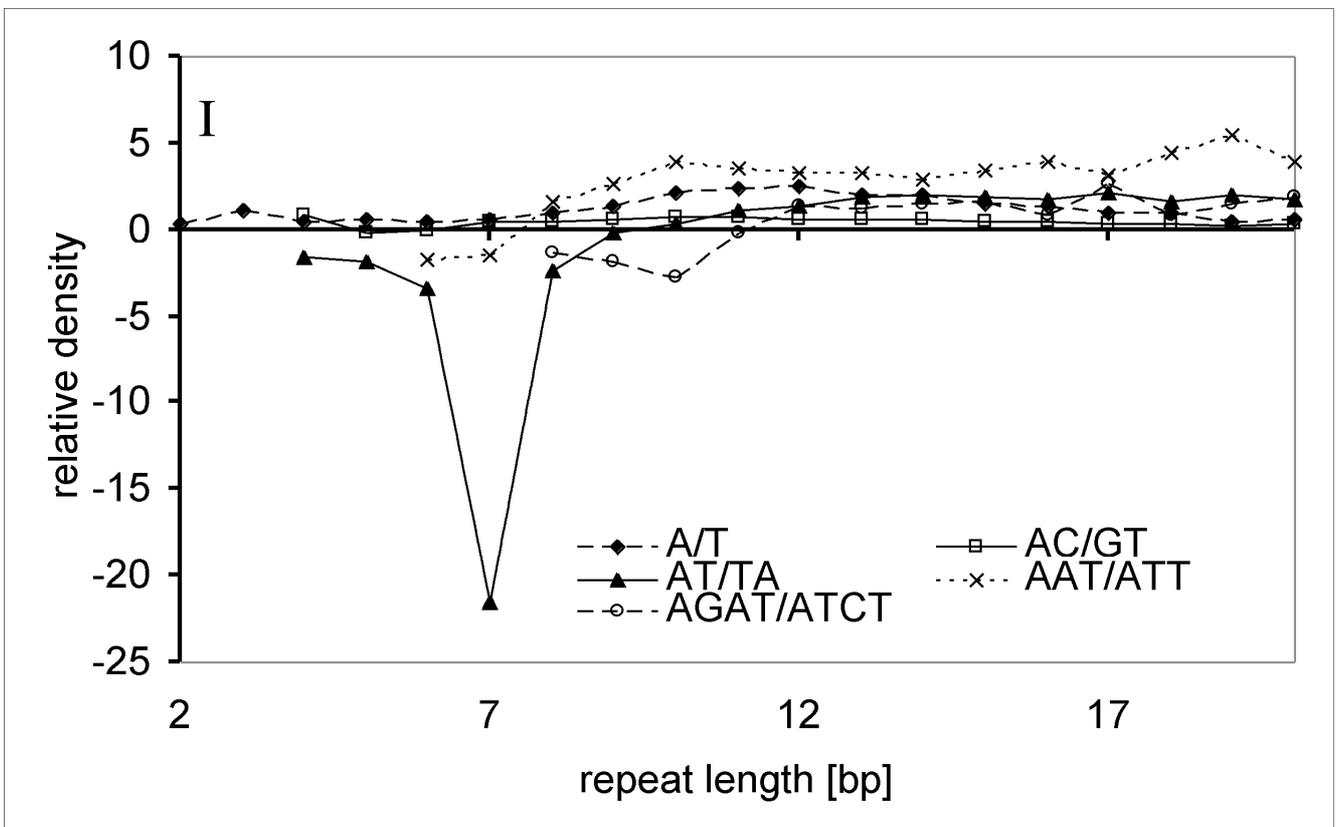
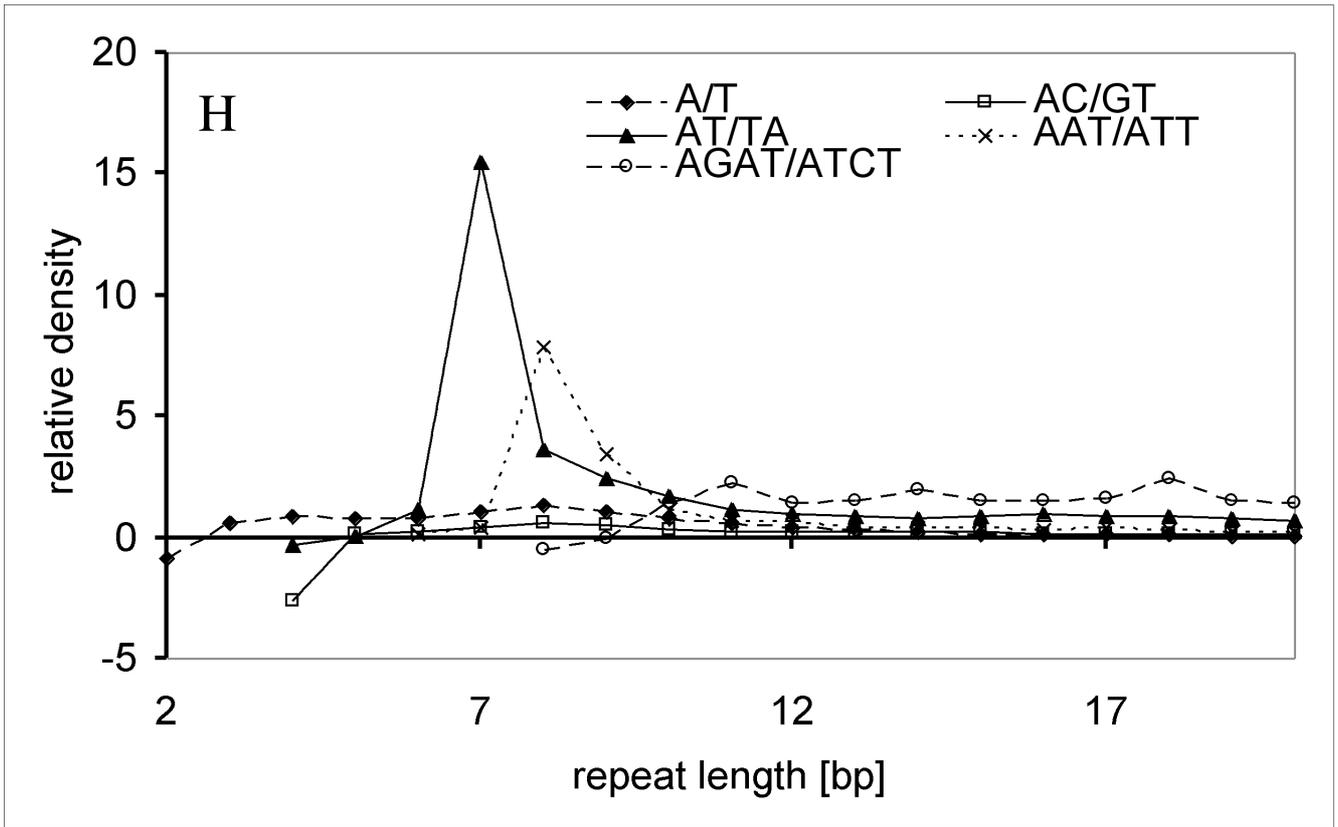












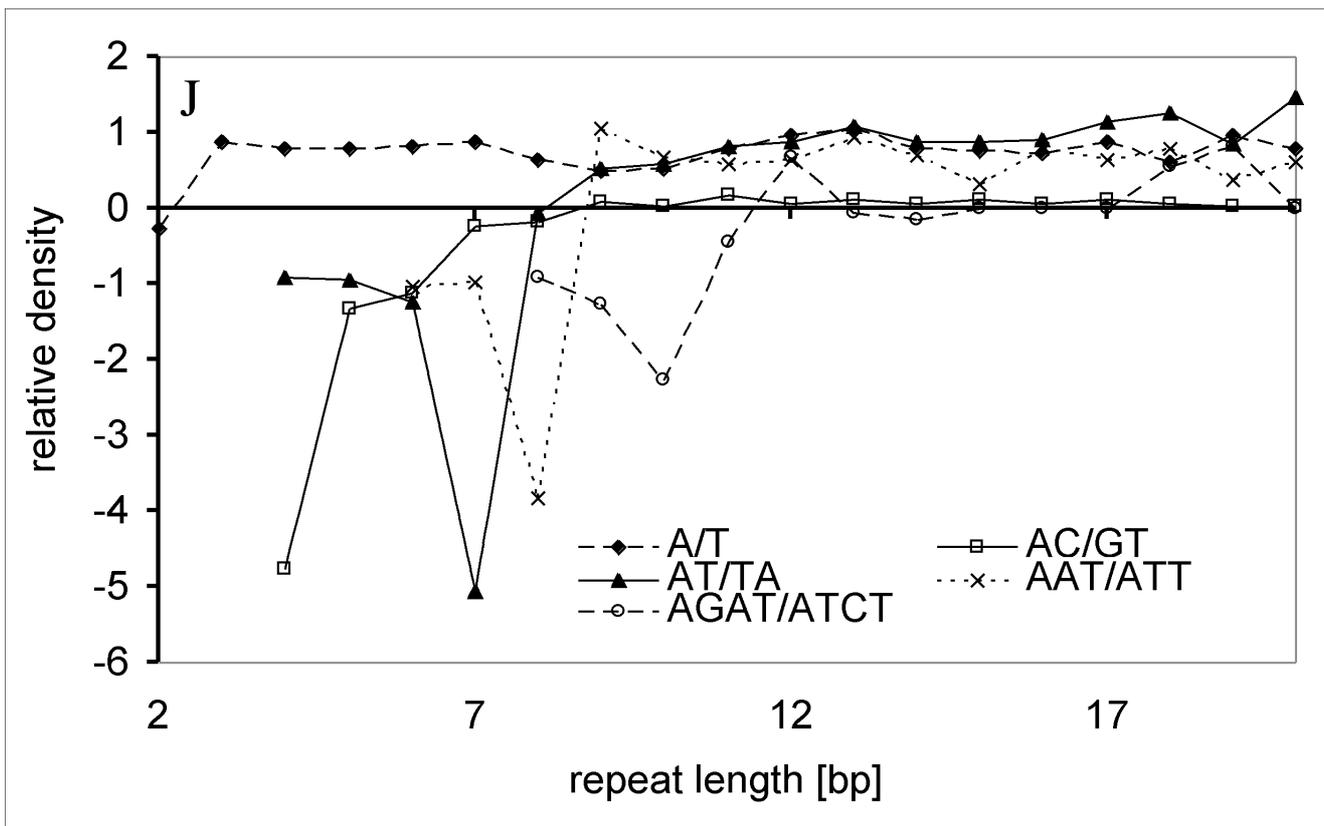


Table A1 a: Representation of repeats split by different repeat types and repeat length for *Homo sapiens*. + means repeat is overrepresented, – repeat is underrepresented, 0 that the repeat density is within the 95% CI of expected density and N that no microsatellite of this length is in the genome.

Length	mono		di				tri									
			ac/	ag/	at/	cg/	aac/	aag/	aat/	acc/	acg/	act/	agc/	agg/	atc/	ccg/
	a/t	g/c	gt	ct	ta	gc	ggt	ctt	att	ggt	cgt	agt	gct	cct	gat	cgg
2	-	+														
3	+	+														
4	+	+	+	+	-	-										
5	+	+	+	+	-	-										
6	+	+	+	+	-	-	0	+	-	+	-	-	+	+	-	-
7	+	0	+	+	0	-	0	+	-	+	-	-	+	+	0	-
8	+	0	+	+	+	-	+	+	0	+	-	-	+	+	0	-
9	+	+	+	+	+	0	0	+	0	+	-	-	+	+	+	0
10	+	+	+	+	+	0	0	+	+	+	-	-	+	+	+	0
11	+	+	+	+	+	0	+	+	+	+	0	0	+	+	+	+
12	+	+	+	+	+	0	+	+	+	+	0	0	+	+	+	+
13	+	+	+	+	+	+	+	+	+	+	0	0	+	+	+	+
14	+	+	+	+	+	+	+	+	+	+	0	0	+	+	+	+
15	+	+	+	+	+	+	+	+	+	+	+	0	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	N	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	N	+	+	+	+	+
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	+	+	+	+	+	N	+	+	+	+	+

Table A1 b: Representation of repeats split by different repeat types and repeat length for *Mus*

musculus. + means repeat is overrepresented, – repeat is underrepresented, 0 that the repeat density is within the 95% CI of expected density and N that no microsatellite of this length is in the genome.

Length	mono		di				tri									
			ac/	ag/	at/	cg/	aac/	aag/	aat/	acc/	acg/	act/	agc/	agg/	atc/	ccg/
	a/t	g/c	gt	ct	ta	gc	ggt	ctt	att	ggt	cgt	agt	gct	cct	gat	cgg
2	-	+														
3	+	+														
4	+	+	+	+	-	-										
5	+	+	+	+	-	-										
6	0	0	+	+	-	-	0	+	-	+	-	-	+	+	0	-
7	+	0	+	+	0	-	0	+	0	+	-	0	+	+	0	-
8	+	0	+	+	0	0	0	+	0	0	-	0	+	+	0	0
9	+	0	+	+	0	0	0	0	0	0	0	0	0	+	0	0
10	+	+	+	+	0	0	0	0	0	0	0	0	0	0	0	0
11	+	+	+	+	0	0	0	0	0	0	+	0	0	0	+	0
12	+	+	+	+	+	+	0	0	0	+	0	0	+	+	0	+
13	+	+	+	+	+	+	+	+	0	+	0	0	+	+	+	+
14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

20 + + + + + + + + + + + + + + + +

Table A1 c: Representation of repeats split by different repeat types and repeat length for *Fugu rubripes*. + means repeat is overrepresented, – repeat is underrepresented, 0 that the repeat density is within the 95% CI of expected density and N that no microsatellite of this length is in the genome.

Length	mono		di				tri									
			ac/	ag/	at/	cg/	aac/	aag/	aat/	acc/	acg/	act/	agc/	agg/	atc/	ccg/
	a/t	g/c	gt	ct	ta	gc	ggt	ctt	att	ggt	cgt	agt	gct	cct	gat	cgg
2	-	+														
3	+	-														
4	+	0	+	+	-	-										
5	+	+	+	+	-	-										
6	+	+	+	+	-	-	+	+	-	+	-	-	+	+	+	0
7	+	+	+	+	-	-	+	+	0	+	-	-	+	+	+	+
8	+	+	+	+	0	0	+	+	+	+	-	-	+	+	+	+
9	+	+	+	+	0	+	+	+	+	+	0	-	+	+	+	+
10	+	+	+	+	+	0	+	+	+	+	0	0	+	+	+	+
11	+	+	+	+	+	+	+	+	+	+	0	+	+	+	+	+
12	+	+	+	+	+	0	+	+	+	+	0	0	+	+	+	+
13	+	+	+	+	+	+	+	+	+	+	0	0	+	+	+	+
14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

20 + + + + + + + + + + + + + + + +

Table A1 d: Representation of repeats split by different repeat types and repeat length for *Drosophila melanogaster*. + means repeat is overrepresented, – repeat is underrepresented, 0 that the repeat density is within the 95% CI of expected density and N that no microsatellite of this length is in the genome.

Length	mono		di				tri									
	a/t	g/c	ac/ gt	ag/ ct	at/ ta	cg/ gc	aac/ ggt	aag/ ctt	aat/ att	acc/ ggt	acg/ cgt	act/ agt	agc/ gct	agg/ cct	atc/ gat	ccg/ cgg
2	-	+														
3	+	0														
4	+	0	-	-	-	0										
5	+	+	+	-	-	-										
6	+	+	+	-	+	-	+	0	0	+	-	-	+	+	-	+
7	+	0	+	0	+	0	+	0	0	+	0	-	+	+	0	+
8	+	0	+	0	+	0	+	+	+	+	0	-	+	+	+	+
9	+	0	+	+	+	0	+	+	+	+	+	0	+	+	0	+
10	+	+	+	+	+	0	+	+	+	+	+	0	+	+	+	+
11	+	+	+	+	+	0	+	+	+	+	+	0	+	+	+	+
12	+	+	+	+	+	0	+	+	+	+	+	0	+	+	+	+
13	+	+	+	+	+	+	+	+	+	+	+	0	+	+	+	+
14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
15	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+

19 + + + + + N + + + + + + + + + + +
20 + + + + + N + + + + + + + + + + +

Table A1 e: Representation of repeats split by different repeat types and repeat length *Caenorhabditis elegans*. + means repeat is overrepresented, – repeat is underrepresented, 0 that the repeat density is within the 95% CI of expected density and N that no microsatellite of this length is in the genome.

Length	mono		di				tri									
	a/t	g/c	ac/	ag/	at/	cg/	aac/	aag/	aat/	acc/	acg/	act/	agc/	agg/	atc/	ccg/
			gt	ct	ta	gc	ggt	ctt	att	ggt	cgt	agt	gct	cct	gat	cgg
2	-	+														
3	+	-														
4	+	0	0	+	-	-										
5	+	+	0	+	-	+										
6	+	+	0	+	-	0	+	+	-	+	0	-	+	+	0	+
7	+	0	0	+	-	+	+	+	-	+	0	-	+	+	0	+
8	+	0	0	+	-	+	+	+	-	+	+	-	+	+	0	+
9	+	0	0	0	-	0	0	+	-	+	+	0	+	+	+	+
10	+	+	+	+	0	+	0	+	0	+	0	0	+	+	+	+
11	+	+	+	+	0	+	+	+	0	+	0	0	+	+	+	+
12	+	+	+	+	0	+	0	+	0	+	+	0	+	+	0	+
13	+	+	+	+	0	+	0	+	0	+	+	0	+	+	+	+
14	+	+	+	+	0	+	+	+	0	+	+	+	+	+	+	+
15	+	+	+	+	+	+	+	+	0	+	+	+	+	+	+	+
16	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+

20 + + + + + N + + + + N + + + + +

Table A1 f: Representation of repeats split by different repeat types and repeat length *Arabidopsis thaliana*. + means repeat is overrepresented, – repeat is underrepresented, 0 that the repeat density is within the 95% CI of expected density and N that no microsatellite of this length is in the genome.

Length	mono		di				tri									
	a/t	g/c	ac/	ag/	at/	cg/	aac/	aag/	aat/	acc/	acg/	act/	agc/	agg/	atc/	ccg/
			gt	ct	ta	gc	ggt	ctt	att	ggt	cgt	agt	gct	cct	gat	cgg
2	-	+														
3	+	0														
4	+	-	0	+	-	-										
5	+	-	+	+	-	-										
6	+	-	0	+	-	-	+	+	-	+	0	-	+	+	+	0
7	+	0	+	+	0	-	+	+	-	+	0	-	+	+	+	+
8	+	0	+	+	+	0	+	+	-	+	0	0	+	+	+	+
9	+	0	+	+	+	0	+	+	0	+	+	0	+	+	+	+
10	+	0	+	+	+	0	+	+	0	+	0	0	+	+	+	+
11	+	+	+	+	+	0	+	+	0	+	0	0	+	+	+	+
12	+	+	+	+	+	+	+	+	0	+	+	0	+	+	+	+
13	+	+	+	+	+	N	+	+	0	+	+	0	+	+	+	+
14	+	+	+	+	+	+	+	+	0	+	+	+	+	+	+	+
15	+	+	+	+	+	N	+	+	0	+	+	+	+	+	+	+
16	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+

20 + + + + + N + + + + + + + + + N

Table A1 g: Representation of repeats split by different repeat types and repeat length *Oryza sativa L. ssp. indica*. + means repeat is overrepresented, – repeat is underrepresented, 0 that the repeat density is within the 95% CI of expected density and N that no microsatellite of this length is in the genome.

Length	mono		di				tri									
			ac/	ag/	at/	cg/	aac/	aag/	aat/	acc/	acg/	act/	agc/	agg/	atc/	ccg/
	a/t	g/c	gt	ct	ta	gc	ggt	ctt	att	ggt	cgt	agt	gct	cct	gat	cgg
2	-	+														
3	+	-														
4	+	+	-	-	-	-										
5	+	+	0	+	0	+										
6	+	+	0	+	+	+	+	+	0	+	0	-	+	+	+	+
7	+	0	+	+	+	+	+	+	+	+	+	0	+	+	+	+
8	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+	+
9	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+	+
10	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
11	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
12	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
13	+	+	+	+	+	+	0	+	+	+	+	+	+	+	+	+
14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

20 + + + + + + + + + + + + + + + +

Table A1 h: Representation of repeats split by different repeat types and repeat length *Oryza sativa L. ssp. japonica*. + means repeat is overrepresented, – repeat is underrepresented, 0 that the repeat density is within the 95% CI of expected density and N that no microsatellite of this length is in the genome.

Length	mono		di				tri									
	a/t	g/c	ac/	ag/	at/	cg/	aac/	aag/	aat/	acc/	acg/	act/	agc/	agg/	atc/	ccg/
			gt	ct	ta	gc	ggt	ctt	att	ggt	cgt	agt	gct	cct	gat	cgg
2	-	+														
3	+	0														
4	+	+	-	-	-	-										
5	+	+	0	+	0	+										
6	+	+	0	+	+	+	+	+	0	+	-	-	+	+	+	+
7	+	+	+	+	+	+	+	+	+	+	+	0	+	+	+	+
8	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
10	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
11	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
12	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
13	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

19 + + + + + + + + + + + + + + + + +
20 + + + + + + + + + + + + + + + + +

Table A1 i: Representation of repeats split by different repeat types and repeat length *Candida*

albicans. + means repeat is overrepresented, – repeat is underrepresented, 0 that the repeat density is within the 95% CI of expected density and N that no microsatellite of this length is in the genome.

Length	mono		di				tri									
			ac/	ag/	at/	cg/	aac/	aag/	aat/	acc/	acg/	act/	agc/	agg/	atc/	ccg/
	a/t	g/c	gt	ct	ta	gc	ggt	ctt	att	ggt	cgt	agt	gct	cct	gat	cgg
2	+	+														
3	+	+														
4	+	+	0	-	-	-										
5	+	+	0	0	-	-										
6	+	+	0	0	-	-	+	+	-	+	-	-	+	+	+	-
7	+	+	+	0	-	0	+	+	-	+	0	0	+	+	+	0
8	+	+	+	0	-	0	+	+	0	+	+	0	+	+	+	0
9	+	+	+	+	0	0	+	+	0	+	0	+	+	+	+	0
10	+	+	+	+	0	0	+	+	+	+	0	+	+	+	+	0
11	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
12	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
13	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
14	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
15	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	N
16	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	N
17	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	N
18	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+

20 + + + + + N + + + + + + + + + +

Table A1 j: Representation of repeats split by different repeat types and repeat length *Saccharomyces cerevisiae*. + means repeat is overrepresented, – repeat is underrepresented, 0 that the repeat density is within the 95% CI of expected density and N that no microsatellite of this length is in the genome.

Length	mono		di				tri									
	a/t	g/c	ac/	ag/	at/	cg/	aac/	aag/	aat/	acc/	acg/	act/	agc/	agg/	atc/	ccg/
			gt	ct	ta	gc	ggt	ctt	att	ggt	cgt	agt	gct	cct	gat	cgg
2	-	+														
3	+	0														
4	+	0	-	0	-	-										
5	+	0	0	0	-	-										
6	+	0	0	0	0	0	+	+	-	+	0	-	+	+	+	0
7	+	0	0	0	0	0	+	+	-	+	0	0	+	+	+	0
8	+	0	0	0	0	0	+	+	0	+	0	0	+	+	+	0
9	+	0	0	0	0	0	+	+	0	+	0	0	+	0	+	0
10	+	0	0	0	0	0	+	+	0	+	0	0	+	0	+	0
11	+	+	0	0	0	+	+	+	0	+	0	0	+	0	+	+
12	+	N	+	0	0	N	0	+	0	+	+	0	+	0	+	+
13	+	N	+	+	+	N	+	+	0	+	+	0	+	+	+	N
14	+	+	+	+	+	N	+	+	0	+	+	+	+	+	+	N
15	+	N	+	+	+	N	+	+	0	+	+	+	+	+	+	N
16	+	+	+	+	+	N	+	+	+	N	+	N	+	+	+	N
17	+	N	+	+	+	N	+	+	+	+	+	N	+	+	+	N
18	+	N	+	N	+	N	+	+	+	N	N	+	+	+	+	N
19	+	+	+	+	+	N	+	+	+	N	+	+	+	N	+	N

20 + N + N + N + + + + + N + + + N

Table A2 a: Representation for all tetra nucleotide repeats with different repeat length in *Homo sapiens*.

	aaac	aaag	aaat	aacc	aacg	aact	aagc	aagg	aagt	aatc	aatg	aatt	acag	acat	accc	accg	acct
	gttt	cttt	atth	ggth	cgth	agth	gctt	cctt	actt	gatt	catt	aatt	ctgt	atgt	gggt	cggt	aggt
8	+	+	+	0	-	-	+	+	-	-	+	-	+	-	+	-	-
9	+	+	+	0	-	-	+	+	-	-	+	-	+	+	+	-	0
10	+	+	+	0	-	-	+	+	-	0	+	0	+	+	+	-	0
11	+	+	+	0	-	-	+	+	0	0	+	0	+	+	+	-	0
12	+	+	+	0	0	0	0	+	0	0	+	0	+	+	+	0	0
13	+	+	+	0	N	0	0	+	0	0	+	0	+	+	+	N	0
14	+	+	+	0	0	0	0	+	0	0	+	+	+	+	+	N	0
15	+	+	+	+	0	0	+	+	0	+	+	+	+	+	+	N	+
16	+	+	+	+	+	N	+	+	0	+	+	+	+	+	+	N	+
17	+	+	+	+	N	N	+	+	+	+	+	0	+	+	+	N	+
18	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+	N	+
19	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+	N	+
20	+	+	+	+	N	N	+	+	N	+	+	+	+	+	+	N	+

	acgc	acgg	acgt	actc	actg	agat	agcc	agcg	agct	aggc	aggg	atcc	atcg	atgc	cccg	ccgg
--	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

	gcgt	ccgt	acgt	gagt	cagt	atct	ggct	cgct	agct	gcct	ccct	atgg	atcg	atgc	cggg	ccgg
8	-	-	-	+	0	-	+	-	-	+	+	+	-	+	+	-
9	-	-	-	+	0	-	+	-	-	+	+	+	-	+	+	-
10	-	-	-	+	0	-	+	-	0	+	+	+	-	+	0	0
11	0	0	-	+	+	0	+	0	0	+	+	+	-	+	0	0
12	0	0	0	+	0	0	+	0	0	+	+	+	N	+	0	0
13	0	0	N	+	0	0	+	0	0	+	+	+	0	+	0	0
14	0	0	N	+	0	+	+	0	0	+	+	+	N	+	0	0
15	+	+	N	+	+	+	+	+	+	+	+	+	0	+	+	N
16	+	+	N	+	+	+	+	+	N	+	+	+	N	+	+	+
17	N	N	N	+	+	+	+	N	N	+	+	+	N	+	+	N
18	N	N	N	+	+	+	+	N	+	+	+	+	N	+	N	N
19	+	+	N	+	+	+	+	N	+	+	+	+	N	+	+	N
20	N	N	N	N	+	+	+	N	N	+	+	+	N	N	N	N

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A2 b: Representation for all tetra nucleotide repeats with different repeat length in *Mus musculus*.

	aaac	aaag	aaat	aacc	aacg	aact	aagc	aagg	aagt	aatc	aatg	aatt	acag	acat	accc	accg	acct
	gttt	cttt	atth	ggth	cgth	agth	gctt	cctt	actt	gatt	catt	aatt	ctgt	atgt	gggt	cggt	aggt
8	0	+	0	0	-	0	0	+	0	0	0	0	+	0	+	-	0
9	0	+	0	0	-	0	0	+	0	0	0	0	+	0	+	0	0
10	0	+	0	0	0	0	0	+	0	0	0	0	0	0	+	0	0
11	+	+	+	0	0	0	0	0	0	0	0	0	+	+	0	0	0
12	+	0	+	0	0	0	0	+	0	0	0	0	+	0	+	0	0
13	+	+	+	+	0	0	+	+	0	0	0	0	+	+	+	0	+
14	+	+	+	+	+	0	+	+	0	+	+	0	+	+	+	+	+
15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N
19	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N

	acgc	acgg	acgt	actc	actg	agat	agcc	agcg	agct	aggc	aggg	atcc	atcg	atgc	cccg	ccgg
--	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

	gcgt	ccgt	acgt	gagt	cagt	atct	ggct	cgct	agct	gcct	ccct	atgg	atcg	atgc	cggg	ccgg
8	0	-	-	+	0	0	+	0	0	+	+	0	-	0	0	0
9	0	0	-	0	0	0	0	0	0	+	+	+	-	0	0	0
10	0	0	0	0	0	0	0	0	0	+	+	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0
12	0	0	0	0	0	0	+	0	0	+	+	0	0	+	0	0
13	+	0	0	+	+	0	+	+	0	+	+	+	0	+	+	+
14	+	+	+	+	+	+	+	+	+	+	+	+	0	+	+	+
15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	N	+	+	N
18	+	+	+	+	+	+	+	+	+	+	+	+	N	+	+	N
19	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N
20	+	+	N	+	+	+	+	+	N	+	+	+	N	+	+	+

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A2 c: Representation for all tetra nucleotide repeats with different repeat length in *Fugu rubripes*.

	aaac	aaag	aaat	aacc	aacg	aact	aagc	aagg	aagt	aatc	aatg	aatt	acag	acat	accc	accg	acct
	gttt	cttt	atth	ggth	cgth	agth	gctt	cctt	actt	gatt	catt	aatt	ctgt	atgt	gggt	cggt	aggt
8	+	+	+	0	-	-	-	+	-	0	+	+	+	-	+	-	-
9	+	+	+	0	-	-	0	+	-	0	+	0	+	0	+	-	-
10	+	+	+	0	-	-	0	+	-	0	+	+	+	0	+	0	-
11	+	+	+	0	0	0	0	+	0	0	+	0	+	+	+	0	0
12	+	+	+	0	0	0	0	+	0	0	+	0	+	0	+	0	0
13	+	+	+	0	0	0	0	+	0	0	+	0	+	0	+	0	0
14	+	+	+	0	0	0	0	+	0	+	+	0	+	0	+	0	0
15	+	+	+	+	0	0	+	+	0	+	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
20	+	+	+	+	+	+	N	+	N	+	+	+	+	+	+	+	+

	acgc	acgg	acgt	actc	actg	agat	agcc	agcg	agct	aggc	aggg	atcc	atcg	atgc	cccg	ccgg
--	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

	gcgt	ccgt	acgt	gagt	cagt	atct	ggct	cgct	agct	gcct	ccct	atgg	atcg	atgc	cggg	ccgg
8	0	-	-	+	+	-	+	0	-	+	+	+	-	+	0	0
9	+	0	-	+	+	-	+	0	0	+	+	+	-	0	0	0
10	+	0	-	+	+	-	+	0	0	+	+	+	0	+	0	0
11	+	0	0	+	+	0	+	0	0	+	+	+	0	+	0	0
12	+	0	0	0	+	0	0	0	0	+	+	+	0	0	0	0
13	+	0	0	+	0	0	0	0	0	+	+	+	0	0	0	0
14	+	+	0	+	+	+	0	0	+	+	+	+	0	+	0	0
15	+	+	+	+	+	+	+	+	+	+	+	+	0	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N
19	+	+	N	+	+	+	+	+	+	+	+	+	+	+	+	N
20	+	+	N	+	+	+	+	+	+	+	+	+	+	+	+	N

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A2 d: Representation for all tetra nucleotide repeats with different repeat length in *Drosophila melanogaster*.

	aaac	aaag	aaat	aacc	aacg	aact	aagc	aagg	aagt	aatc	aatg	aatt	acag	acat	accc	accg	acct
	gttt	cttt	attt	ggtt	cgtt	agtt	gctt	cctt	actt	gatt	catt	aatt	ctgt	atgt	gggt	cggt	aggt
8	+	+	+	0	0	-	0	0	-	0	0	+	0	0	+	0	-
9	+	+	+	0	0	0	0	0	0	0	0	+	0	+	+	0	-
10	+	0	+	0	0	0	0	0	0	0	0	+	0	+	+	0	0
11	+	+	+	0	0	0	0	0	0	0	0	+	0	+	+	0	0
12	+	0	+	0	0	0	0	0	0	0	0	+	0	+	+	0	0
13	+	0	+	+	0	0	0	0	0	0	0	0	0	+	+	+	0
14	+	0	+	+	+	0	+	0	0	+	+	+	+	+	+	+	+
15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N	+	+
19	+	+	+	+	+	+	N	+	+	+	+	N	+	+	+	+	+
20	+	+	+	+	+	+	N	+	+	+	+	+	+	+	N	+	+

	acgc	acgg	acgt	actc	actg	agat	agcc	agcg	agct	aggc	aggg	atcc	atcg	atgc	cccg	ccgg
--	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

	gcgt	ccgt	acgt	gagt	cagt	atct	ggct	cgct	agct	gcct	ccct	atgg	atcg	atgc	cggg	ccgg
8	0	0	-	0	0	-	+	0	-	+	0	0	0	0	+	0
9	0	0	0	0	0	0	+	+	0	+	0	0	0	0	+	0
10	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	0
11	+	0	0	+	0	0	+	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	+	0	0	0	0	0	0	0	0	0
13	0	+	0	0	+	0	+	+	0	+	+	0	0	0	+	+
14	+	+	+	+	+	0	+	+	+	+	+	+	+	+	+	+
15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N	N
19	+	+	N	+	+	+	+	+	N	+	+	+	+	N	N	N
20	N	+	+	+	+	+	+	+	N	+	N	+	N	+	N	N

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A2 e: Representation for all tetra nucleotide repeats with different repeat length in *Caenorhabditis elegans*.

	aaac	aaag	aaat	aacc	aacg	aact	aagc	aagg	aagt	aatc	aatg	aatt	acag	acat	accc	accg	acct	
	gttt	cttt	at tt	ggtt	cgtt	agtt	gctt	cctt	actt	gatt	catt	aatt	ctgt	atgt	gggt	cggt	aggt	
8	+	+	0	0	0	-	0	+	-	0	0	-	0	-	0	0	0	
9	0	+	0	0	0	-	0	0	-	0	0	-	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	0	+	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	+	+
14	0	0	0	0	+	0	+	+	0	0	0	0	+	0	+	+	+	
15	+	+	+	+	N	0	N	+	0	0	+	0	+	+	N	+	+	
16	+	+	0	+	+	N	N	+	+	+	+	0	N	+	N	N	+	
17	+	+	+	+	N	+	+	+	+	+	+	+	+	+	N	+	+	
18	+	+	+	N	N	+	N	+	+	+	+	+	+	N	N	N	+	
19	+	+	+	N	N	N	N	N	+	+	N	+	N	+	N	N	+	
20	+	N	+	+	N	N	N	N	+	+	+	+	N	N	N	N	+	

	acgc	acgg	acgt	actc	actg	agat	agcc	agcg	agct	aggc	aggg	atcc	atcg	atgc	cccg	ccgg
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	gcgt	ccgt	acgt	gagt	cagt	atct	ggct	cgct	agct	gcct	ccct	atgg	atcg	atgc	cggg	ccgg	
8	0	0	-	0	0	-	0	0	-	+	0	0	0	0	0	0	
9	0	0	0	0	0	-	0	0	0	+	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0	
11	0	0	0	0	0	0	0	0	0	+	0	0	0	0	+	+	
12	0	+	0	0	0	0	0	0	0	+	0	0	0	0	+	+	
13	+	+	0	0	0	0	+	+	N	+	+	0	0	N	+	+	
14	N	+	N	+	+	0	+	+	+	+	+	+	+	+	N	+	N
15	N	+	+	+	+	0	+	N	N	+	+	+	N	+	+	+	
16	N	+	N	+	+	+	+	N	N	+	N	+	N	N	N	N	
17	N	+	N	+	N	N	+	N	N	+	N	+	N	N	N	N	
18	N	+	N	N	+	N	+	N	N	+	N	N	N	N	N	N	
19	N	N	N	N	N	N	+	N	N	+	N	N	N	N	N	N	
20	N	+	N	+	+	N	N	N	N	+	N	+	N	N	N	N	

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A2 f: Representation for all tetra nucleotide repeats with different repeat length in *Arabidopsis thaliana*.

	aaac	aaag	aaat	aacc	aacg	aact	aagc	aagg	aagt	aatc	aatg	aatt	acag	acat	accc	accg	acct
	gttt	cttt	at tt	ggtt	cgtt	agtt	gctt	cctt	actt	gatt	catt	aatt	ctgt	atgt	gggt	cggt	aggt
8	+	+	0	+	-	-	+	+	-	0	0	-	0	0	0	0	-
9	+	+	0	+	0	0	0	+	0	0	0	0	0	0	0	0	0
10	+	+	0	+	0	0	0	+	0	0	0	0	0	0	0	0	0
11	+	+	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	+	+	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	+	+	+	0	0	0	0	0	0	0	0	0	0	0	+	+	0
14	+	+	+	+	0	0	+	+	0	0	0	0	+	0	+	+	+
15	+	+	+	+	+	0	+	+	0	+	0	0	+	+	+	N	+
16	+	+	+	+	+	+	+	+	+	+	+	0	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N	N	N
18	+	+	+	+	+	+	+	+	N	+	N	+	N	+	N	+	N
19	+	+	+	+	N	N	N	+	N	+	+	+	N	+	+	N	N
20	+	+	+	N	N	+	N	N	N	+	N	N	N	+	N	+	+

	acgc	acgg	acgt	actc	actg	agat	agcc	agcg	agct	aggc	aggg	atcc	atcg	atgc	cccg	ccgg
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	gcgt	ccgt	acgt	gagt	cagt	atct	ggct	cgct	agct	gcct	ccct	atgg	atcg	atgc	cggg	ccgg
8	0	0	0	0	0	-	0	0	0	0	+	+	0	+	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N
13	+	N	0	0	0	0	+	+	0	N	0	0	0	0	N	N
14	N	+	+	+	+	0	+	+	+	N	+	+	+	+	N	N
15	+	+	+	+	+	+	N	+	+	N	+	+	N	+	N	N
16	N	+	N	+	N	+	N	+	+	+	+	N	+	+	+	+
17	N	N	+	+	+	+	N	N	N	N	N	+	+	N	N	N
18	N	+	N	+	+	+	N	N	N	+	N	N	N	+	N	N
19	N	N	N	N	N	+	N	N	N	N	+	+	N	N	N	N
20	N	+	N	N	N	+	N	N	N	N	N	N	N	+	N	N

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A2 g: Representation for all tetra nucleotide repeats with different repeat length in *Oryza sativa L. ssp. indica*.

	aaac	aaag	aaat	aacc	aacg	aact	aagc	aagg	aagt	aatc	aatg	aatt	acag	acat	accc	accg	acct
	gttt	cttt	attd	ggtd	cgtd	agtd	gctd	cctd	actd	gatt	catt	aatt	ctgt	atgt	gggt	cggt	aggt
8	+	+	+	+	-	-	+	+	-	+	0	+	-	0	+	0	-
9	+	+	+	+	0	-	+	+	-	+	0	+	0	0	+	0	0
10	+	+	+	+	0	0	+	+	0	+	0	+	0	+	+	0	0
11	+	+	+	+	0	0	+	+	0	+	0	+	0	+	0	0	0
12	+	+	+	+	0	0	+	+	0	0	0	+	0	0	0	0	0
13	+	+	+	0	0	0	0	0	0	0	0	+	0	0	0	0	0
14	0	+	+	+	0	0	+	+	0	0	0	+	0	0	+	+	0
15	+	+	+	+	+	0	+	+	0	+	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	0	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	+	+	+	N	+	+	+	+	+	+	+	+
20	+	+	+	+	+	+	+	+	N	+	+	+	+	+	+	+	N

	acgc	acgg	acgt	actc	actg	agat	agcc	agcg	agct	aggc	aggg	atcc	atcg	atgc	cccg	ccgg
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	gcgt	ccgt	acgt	gagt	cagt	atct	ggct	cgct	agct	gcct	ccct	atgg	atcg	atgc	cggg	ccgg
8	0	0	-	0	-	-	+	0	+	+	+	+	+	+	+	+
9	+	0	0	0	0	0	+	+	+	+	+	+	+	+	+	+
10	+	0	+	0	0	0	+	+	+	+	+	+	+	+	+	+
11	+	0	+	0	0	0	+	+	+	+	+	+	+	+	+	+
12	+	0	+	0	0	0	0	0	+	0	+	+	+	+	+	+
13	+	0	+	0	0	0	0	0	+	0	+	+	+	+	+	+
14	+	+	+	0	0	+	+	+	+	+	+	+	+	+	+	+
15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A2 h: Representation for all tetra nucleotide repeats with different repeat length in *Oryza sativa L. ssp. japonica*.

	aaac	aaag	aaat	aacc	aacg	aact	aagc	aagg	aagt	aatc	aatg	aatt	acag	acat	accc	accg	acct
	gttt	cttt	atth	ggth	cgth	agth	gctt	cctt	actt	gatt	catt	aatt	ctgt	atgt	gggt	cggt	aggt
8	+	+	+	+	-	-	+	+	-	+	0	+	-	0	+	0	-
9	+	+	+	+	0	-	+	+	-	+	0	+	0	0	+	0	0
10	+	+	+	+	0	0	+	+	0	+	0	+	0	+	+	0	0
11	+	+	+	+	0	0	+	+	0	+	0	+	0	+	0	0	0
12	+	+	+	+	0	0	+	+	0	0	0	+	0	0	0	0	0
13	+	+	+	0	0	0	0	0	0	+	0	+	0	0	0	0	0
14	0	+	+	+	0	0	+	+	0	0	0	+	0	0	+	+	0
15	+	+	+	+	0	0	+	+	0	+	0	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	N	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	+	+	+	N	+	+	+	+	+	+	+	+
20	+	+	+	+	+	+	+	+	N	+	+	+	+	+	+	+	+

	acgc	acgg	acgt	actc	actg	agat	agcc	agcg	agct	aggc	aggg	atcc	atcg	atgc	cccg	ccgg
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	gcgt	ccgt	acgt	gagt	cagt	atct	ggct	cgct	agct	gcct	ccct	atgg	atcg	atgc	cggg	ccgg
8	0	0	-	-	-	-	+	0	+	+	+	+	+	+	+	+
9	+	+	0	0	-	0	+	+	+	+	+	+	+	+	+	+
10	+	0	+	0	0	0	+	+	+	0	+	+	+	+	+	+
11	+	0	+	0	0	0	0	+	+	+	+	+	+	+	+	+
12	+	0	+	0	0	0	0	0	+	+	+	+	+	+	+	+
13	+	0	+	0	0	0	0	+	+	0	+	+	+	+	+	+
14	+	0	+	+	0	+	+	+	+	+	+	+	+	+	+	+
15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A2 i: Representation for all tetra nucleotide repeats with different repeat length in *Candida albicans*.

	aaac	aaag	aaat	aacc	aacg	aact	aagc	aagg	aagt	aatc	aatg	aatt	acag	acat	accc	accg	acct
	gttt	cttt	attd	ggtt	cgtt	agtt	gctt	cctt	actt	gatt	catt	aatt	ctgt	atgt	gggt	cggt	aggt
8	+	+	-	+	-	-	0	+	-	+	+	-	0	-	+	0	-
9	+	+	0	+	0	0	0	0	-	+	0	-	0	0	+	0	0
10	+	+	0	+	0	0	0	0	0	+	0	0	0	0	0	0	0
11	+	+	0	+	0	0	0	0	0	+	0	0	0	0	+	0	0
12	+	+	0	+	0	0	0	0	0	+	0	0	0	0	+	N	0
13	+	+	0	+	0	0	0	+	0	0	0	0	0	0	+	N	+
14	+	+	0	+	+	0	+	+	0	0	0	0	+	+	+	N	+
15	+	+	0	+	+	+	+	+	+	+	+	0	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	0	+	+	+	N	+
17	+	+	+	+	+	+	N	+	+	+	+	+	+	+	+	N	N
18	+	+	+	+	N	+	+	+	N	+	+	+	+	+	N	N	N
19	+	+	+	+	N	+	+	+	+	+	+	+	N	+	N	+	N
20	+	+	+	+	N	+	N	+	+	+	+	+	+	+	+	N	N

	acgc	acgg	acgt	actc	actg	agat	agcc	agcg	agct	aggc	aggg	atcc	atcg	atgc	cccg	ccgg
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	gcgt	ccgt	acgt	gagt	cagt	atct	ggct	cgct	agct	gcct	ccct	atgg	atcg	atgc	cggg	ccgg
8	0	0	-	0	0	-	0	-	-	0	+	0	0	0	0	0
9	0	0	-	0	0	-	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	+	0	0	0	+	N
12	+	N	0	+	0	0	N	+	0	0	+	0	0	0	+	N
13	+	N	N	+	+	0	+	N	N	N	+	+	N	+	N	N
14	+	N	N	+	+	0	N	+	N	N	+	+	N	N	N	N
15	+	N	N	+	+	+	N	+	N	+	+	+	+	+	N	N
16	+	N	N	+	N	+	N	N	N	N	+	+	N	N	N	N
17	N	N	N	+	+	+	N	N	N	N	+	+	N	N	N	N
18	N	N	N	+	N	+	N	N	N	N	+	+	N	N	N	N
19	+	N	N	+	+	+	+	N	N	N	+	N	N	N	N	N
20	N	N	N	+	N	+	N	N	N	N	N	+	N	N	N	N

Note: + is overrepresented , - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A2 j: Representation for all tetra nucleotide repeats with different repeat length in *Saccharomyces cerevisiae*.

	aaac	aaag	aaat	aacc	aacg	aact	aagc	aagg	aagt	aatc	aatg	aatt	acag	acat	accc	accg	acct
	gttt	cttt	atft	ggtt	cgtt	agtt	gctt	cctt	actt	gatt	catt	aatt	ctgt	atgt	gggt	cggt	aggt
8	+	+	0	+	0	-	0	+	-	0	0	-	0	-	0	0	0
9	0	+	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0
10	0	+	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0
11	0	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	0
13	0	0	0	+	N	0	0	0	0	0	0	0	N	0	N	N	N
14	0	0	0	+	N	0	+	N	0	0	0	0	N	0	+	N	N
15	+	+	0	N	N	+	+	N	N	+	+	N	N	+	N	N	N
16	N	+	+	N	N	N	N	N	N	N	+	N	N	+	N	N	N
17	N	+	+	N	N	N	N	+	+	N	+	+	N	+	N	N	N
18	+	+	+	N	N	N	N	N	N	+	+	N	N	+	N	N	N
19	+	+	+	N	N	N	N	N	N	N	N	N	N	+	N	N	N
20	N	N	+	N	N	N	N	N	N	N	N	N	N	N	N	N	N

	acgc	acgg	acgt	actc	actg	agat	agcc	agcg	agct	aggc	aggg	atcc	atcg	atgc	cccg	ccgg
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	gcgt	ccgt	acgt	gagt	cagt	atct	ggct	cgct	agct	gcct	ccct	atgg	atcg	atgc	cggg	ccgg
8	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N	0
12	N	N	N	N	N	0	N	N	N	N	0	0	N	0	N	N
13	N	N	N	0	N	0	N	N	N	+	N	0	N	N	N	N
14	+	N	N	N	N	N	N	N	N	N	+	N	N	N	N	+
15	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
16	N	N	N	N	N	N	N	N	N	N	N	N	N	N	+	N
17	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
18	N	N	+	N	N	+	N	N	N	N	N	N	N	N	N	N
19	N	N	N	N	N	+	N	N	N	N	N	N	N	N	N	N
20	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Note: + is overrepresented , - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A3 a: Representation of repeats based on dispace resampling strategy for all mono-, di- and trinucleotide repeats in *Homo sapiens*.

Length	mono		di				tri									
	a/t	g/c	ac/	ag/	at/	cg/	aac/	aag/	aat/	acc/	acg/	act/	agc/	agg/	atc/	ccg/
			gt	ct	ta	gc	ggt	ctt	att	ggt	cgt	agt	gct	cct	gat	cgg
2	-	+														
3	+	+														
4	+	+	+	+	-	-										
5	+	+	+	+	-	-										
6	+	-	+	+	+	-	-	+	-	+	-	-	+	+	-	-
7	+	-	+	+	+	-	-	+	+	+	-	-	+	+	0	-
8	+	-	+	+	+	0	0	+	+	+	-	-	+	+	0	+
9	+	0	+	+	+	0	0	+	+	+	-	-	+	+	+	+
10	+	+	+	+	+	0	0	+	+	+	0	0	+	+	+	+
11	+	+	+	+	+	+	+	+	+	+	0	0	+	+	+	+
12	+	+	+	+	+	+	+	+	+	+	0	0	+	+	+	+
13	+	+	+	+	+	+	+	+	+	+	0	0	+	+	+	+
14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	N	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	N	+	+	+	+	+
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	+	+	+	+	+	N	+	+	+	+	+
20	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A3 b: Representation of repeats based on dispace resampling strategy for all mono-, di- and trinucleotide repeats in *Mus musculus*.

Length	mono		di				tri									
	a/t	g/c	ac/	ag/	at/	cg/	aac/	aag/	aat/	acc/	acg/	act/	agc/	agg/	atc/	ccg/
			gt	ct	ta	gc	gtt	ctt	att	ggt	cgt	agt	gct	cct	gat	cgg
2	-	0														
3	+	+														
4	+	+	+	+	-	-										
5	+	+	+	+	+	-										
6	0	0	+	+	+	-	0	+	0	0	-	-	+	+	0	-
7	+	0	+	+	+	-	0	+	0	+	-	0	+	+	0	0
8	+	0	+	+	+	0	0	+	0	0	0	0	+	+	0	0
9	+	0	+	+	+	0	0	0	0	0	0	0	0	+	0	0
10	+	+	+	+	+	0	0	0	0	0	0	0	0	+	0	0
11	+	+	+	+	+	+	0	0	0	0	0	0	0	+	0	+
12	+	+	+	+	+	+	0	0	0	+	+	0	0	+	0	+
13	+	+	+	+	+	+	+	0	0	+	+	0	+	+	0	+
14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A3 c: Representation of repeats based on dispace resampling strategy for all mono-, di- and trinucleotide repeats in *Fugu rubripes*.

Length	mono		di				tri									
	a/t	g/c	ac/	ag/	at/	cg/	aac/	aag/	aat/	acc/	acg/	act/	agc/	agg/	atc/	ccg/
			gt	ct	ta	gc	ggt	ctt	att	ggt	cgt	agt	gct	cct	gat	cgg
2	-	+														
3	+	-														
4	+	0	+	+	-	-										
5	+	+	+	+	-	-										
6	+	+	+	+	0	-	+	+	+	+	-	-	+	+	+	+
7	+	+	+	+	+	0	+	+	+	+	-	-	+	+	+	+
8	+	+	+	+	+	+	+	+	+	+	0	-	+	+	+	+
9	+	+	+	+	+	+	+	+	+	+	0	0	+	+	+	+
10	+	+	+	+	+	+	+	+	+	+	0	0	+	+	+	+
11	+	+	+	+	+	+	+	+	+	+	0	+	+	+	+	+
12	+	+	+	+	+	+	+	+	+	+	0	0	+	+	+	+
13	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A3 d: Representation of repeats based on dispace resampling strategy for all mono-, di- and trinucleotide repeats in *Drosophila melanogaster*.

Length	mono		di				tri									
	a/t	g/c	ac/	ag/	at/	cg/	aac/	aag/	aat/	acc/	acg/	act/	agc/	agg/	atc/	ccg/
			gt	ct	ta	gc	ggt	ctt	att	ggt	cgt	agt	gct	cct	gat	cgg
2	-	+														
3	+	-														
4	+	-	-	-	-	-										
5	+	+	+	0	+	-										
6	+	+	+	0	+	-	+	0	0	+	0	-	+	+	-	+
7	+	0	+	+	+	-	+	+	+	+	+	-	+	+	0	+
8	+	0	+	+	+	-	+	+	+	+	+	0	+	+	+	+
9	+	+	+	+	+	0	+	+	+	+	+	0	+	+	+	+
10	+	+	+	+	+	0	+	+	+	+	+	0	+	+	+	+
11	+	+	+	+	+	0	+	+	+	+	+	+	+	+	+	+
12	+	+	+	+	+	0	+	+	+	+	+	+	+	+	+	+
13	+	+	+	+	+	0	+	+	+	+	+	+	+	+	+	+
14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
15	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
20	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A3 e: Representation of repeats based on dispace resampling strategy for all mono-, di- and trinucleotide repeats in *Caenorhabditis elegans*.

Length	mono		di				tri									
	a/t	g/c	ac/	ag/	at/	cg/	aac/	aag/	aat/	acc/	acg/	act/	agc/	agg/	atc/	ccg/
			gt	ct	ta	gc	ggt	ctt	att	ggt	cgt	agt	gct	cct	gat	cgg
2	-	+														
3	0	-														
4	+	0	+	+	-	-										
5	+	+	0	+	-	+										
6	+	+	0	+	-	+	0	+	-	+	0	-	+	+	0	+
7	+	0	0	+	-	+	0	+	-	+	+	0	+	+	0	+
8	+	0	0	+	0	+	+	+	0	+	+	0	+	+	+	+
9	+	0	+	+	0	+	0	+	0	+	+	+	+	+	+	+
10	+	+	+	+	0	+	0	+	0	+	+	0	+	+	+	+
11	+	+	+	+	+	+	+	+	0	+	+	0	+	+	+	+
12	+	+	+	+	+	+	0	+	0	+	+	0	+	+	+	+
13	+	+	+	+	+	+	0	+	0	+	+	+	+	+	+	+
14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
20	+	+	+	+	+	N	+	+	+	+	N	+	+	+	+	+

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A3 f: Representation of repeats based on dispace resampling strategy for all mono-, di- and trinucleotide repeats in *Arabidopsis thaliana*.

Length	mono		di				tri									
	a/t	g/c	ac/	ag/	at/	cg/	aac/	aag/	aat/	acc/	acg/	act/	agc/	agg/	atc/	ccg/
			gt	ct	ta	gc	ggt	ctt	att	ggt	cgt	agt	gct	cct	gat	cgg
2	-	+														
3	+	-														
4	+	-	0	+	-	-										
5	+	-	+	+	-	-										
6	0	-	0	+	+	-	+	+	-	+	+	-	+	+	+	+
7	+	-	+	+	+	-	+	+	-	+	+	-	+	+	+	+
8	+	0	+	+	+	0	+	+	0	+	+	0	+	+	+	+
9	+	0	+	+	+	0	+	+	0	+	+	0	+	+	+	+
10	+	0	+	+	+	0	+	+	0	+	+	0	+	+	+	+
11	+	+	+	+	+	0	+	+	+	+	+	0	+	+	+	+
12	+	+	+	+	+	+	+	+	+	+	+	0	+	+	+	+
13	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
15	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
20	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	N

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A3 g: Representation of repeats based on dispace resampling strategy for all mono-, di- and trinucleotide repeats in *Oryza sativa L. ssp. indica*.

Length	mono		di				tri									
	a/t	g/c	ac/	ag/	at/	cg/	aac/	aag/	aat/	acc/	acg/	act/	agc/	agg/	atc/	ccg/
			gt	ct	ta	gc	ggt	ctt	att	ggt	cgt	agt	gct	cct	gat	cgg
2	-	+														
3	0	-														
4	+	-	-	0	-	-										
5	+	+	+	+	+	+										
6	+	0	+	+	+	+	+	+	+	+	+	0	+	+	+	+
7	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+	+
8	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+	+
9	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+	+
10	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
11	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
12	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
13	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A3 h: Representation of repeats based on dispace resampling strategy for all mono-, di- and trinucleotide repeats in *Oryza sativa L. ssp. japonica*.

Length	mono		di				tri									
	a/t	g/c	ac/	ag/	at/	cg/	aac/	aag/	aat/	acc/	acg/	act/	agc/	agg/	atc/	ccg/
			gt	ct	ta	gc	gtt	ctt	att	ggt	cgt	agt	gct	cct	gat	cgg
2	-	+														
3	0	-														
4	+	0	-	0	-	-										
5	+	+	+	+	+	+										
6	+	+	+	+	+	+	+	+	+	+	+	-	+	+	+	+
7	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+	+
8	+	0	+	+	+	+	+	+	+	+	+	+	+	+	+	+
9	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
10	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
11	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
12	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
13	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A3 i: Representation of repeats based on dispace resampling strategy for all mono-, di- and trinucleotide repeats in *Candida albicans*.

Length	mono		di				tri									
	a/t	g/c	ac/	ag/	at/	cg/	aac/	aag/	aat/	acc/	acg/	act/	agc/	agg/	atc/	ccg/
			gt	ct	ta	gc	ggt	ctt	att	ggt	cgt	agt	gct	cct	gat	cgg
2	+	+														
3	+	-														
4	0	+	-	-	-	-										
5	+	+	-	0	-	-										
6	0	+	-	0	-	-	+	+	-	+	0	0	+	+	+	0
7	+	+	0	+	-	0	+	+	0	+	+	+	+	+	+	0
8	+	+	+	+	0	0	+	+	+	+	+	+	+	+	+	+
9	+	+	+	+	+	0	+	+	+	+	+	+	+	+	+	0
10	+	+	+	+	+	0	+	+	+	+	+	+	+	+	+	0
11	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
12	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
13	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
14	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
15	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	N
16	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	N
17	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	N
18	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+
20	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A3 j: Representation of repeats based on dispace resampling strategy for all mono-, di- and trinucleotide repeats in *Saccharomyces cerevisiae*.

Length	mono		di				tri									
	a/t	g/c	ac/	ag/	at/	cg/	aac/	aag/	aat/	acc/	acg/	act/	agc/	agg/	atc/	ccg/
			gt	ct	ta	gc	ggt	ctt	att	ggt	cgt	agt	gct	cct	gat	cgg
2	-	+														
3	+	-														
4	+	-	-	0	-	-										
5	+	-	-	+	0	-										
6	+	0	-	0	0	-	+	+	0	+	0	0	+	+	+	+
7	+	0	0	0	+	0	+	+	0	+	0	0	+	+	+	+
8	+	0	0	0	+	0	+	+	0	+	+	+	+	+	+	0
9	+	0	0	0	+	0	+	+	0	+	0	0	+	+	+	0
10	+	0	0	0	+	0	+	+	0	+	0	0	+	0	+	0
11	+	+	0	0	+	0	+	+	0	+	+	0	+	+	+	0
12	+	N	0	0	+	N	0	+	0	0	+	0	+	0	+	+
13	+	N	+	0	+	N	0	+	+	+	+	0	+	+	0	N
14	+	+	+	+	+	N	+	+	0	+	+	+	+	+	+	N
15	+	N	+	+	+	N	+	+	0	+	+	+	+	+	+	N
16	+	+	+	+	+	N	+	+	+	N	+	N	+	+	+	N
17	+	N	+	+	+	N	+	+	+	+	+	N	+	+	+	N
18	+	N	+	N	+	N	+	+	+	N	N	+	+	+	+	N
19	+	+	+	+	+	N	+	+	+	N	+	+	+	N	+	N
20	+	N	+	N	+	N	+	+	+	+	+	N	+	+	+	N

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A4 a: Representation for all tetra nucleotide repeats with different repeat length based on dispace resampling strategy in *Homo sapiens*.

	aaac	aaag	aaat	aacc	aacg	aact	aagc	aagg	aagt	aatc	aatg	aatt	acag	acat	accc	accg	acct
	gttt	cttt	atth	ggth	cgth	agth	gctt	cctt	actt	gatt	catt	aatt	ctgt	atgt	gggt	cggt	aggt
8	+	+	+	-	-	-	-	+	-	-	0	-	+	+	+	-	-
9	+	+	+	-	-	-	0	+	-	-	+	-	+	+	+	-	0
10	+	+	+	0	-	-	0	+	-	-	+	0	+	+	+	-	0
11	+	+	+	0	0	-	0	+	0	0	+	0	+	+	+	-	0
12	+	+	+	0	0	-	0	+	0	0	+	0	+	+	+	0	0
13	+	+	+	0	N	0	0	+	0	0	+	0	+	+	+	N	0
14	+	+	+	+	0	0	0	+	0	0	+	+	+	+	+	N	0
15	+	+	+	+	0	0	+	+	0	+	+	+	+	+	+	N	+
16	+	+	+	+	+	N	+	+	0	+	+	+	+	+	+	N	+
17	+	+	+	+	N	N	+	+	+	+	+	+	+	+	+	N	+
18	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+	N	+
19	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+	N	+
20	+	+	+	+	N	N	+	+	N	+	+	+	+	+	+	N	+

	acgc	acgg	acgt	actc	actg	agat	agcc	agcg	agct	aggc	aggg	atcc	atcg	atgc	cccg	ccgg
--	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

	gcgt	ccgt	acgt	gagt	cagt	atct	ggct	cgct	agct	gcct	ccct	atgg	atcg	atgc	cggg	ccgg
8	0	-	-	+	-	-	+	-	-	+	+	0	-	0	+	-
9	-	-	-	+	0	-	+	-	-	+	+	+	-	0	+	-
10	0	-	-	0	0	0	+	-	-	+	+	+	-	+	+	0
11	+	0	0	+	0	0	+	0	0	+	+	+	-	+	+	0
12	0	0	0	+	0	+	+	0	0	+	+	+	N	0	+	0
13	0	0	N	+	0	+	+	0	0	+	+	+	0	+	0	0
14	0	0	N	+	0	+	0	0	0	+	+	+	N	+	+	0
15	+	+	N	+	0	+	0	+	0	+	+	+	0	+	+	N
16	+	+	N	0	+	+	+	+	N	+	+	+	N	+	+	0
17	N	N	N	+	0	+	+	N	N	+	+	+	N	+	+	N
18	N	N	N	+	+	+	+	N	+	+	+	+	N	+	N	N
19	+	+	N	+	+	+	+	N	+	+	+	+	N	+	+	N
20	N	N	N	N	+	+	+	N	N	+	+	+	N	N	N	N

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A4 b: Representation for all tetra nucleotide repeats with different repeat length based on dispace resampling strategy in *Mus musculus*.

	aaac	aaag	aaat	aacc	aacg	aact	aagc	aagg	aagt	aatc	aatg	aatt	acag	acat	accc	accg	acct	
	gttt	cttt	atth	ggth	cgth	agth	gctt	cctt	actt	gatt	catt	aatt	ctgt	atgt	gggt	cggt	aggt	
8	0	+	+	0	-	0	0	+	0	-	0	0	0	0	0	0	-	0
9	0	+	+	0	0	0	0	+	0	0	0	0	0	+	+	+	0	0
10	0	+	+	0	0	0	0	+	0	0	0	0	0	0	0	+	0	0
11	+	+	+	0	0	0	0	0	0	0	0	0	0	+	+	0	0	0
12	+	0	+	0	0	0	0	0	0	0	0	0	0	0	0	+	0	0
13	+	+	+	0	0	0	0	+	0	0	0	0	0	+	+	+	0	0
14	+	+	+	+	+	0	+	+	0	0	0	0	0	+	+	+	+	+
15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N	+
19	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N	+

	acgc	acgg	acgt	actc	actg	agat	agcc	agcg	agct	aggc	aggg	atcc	atcg	atgc	cccg	ccgg
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	gcgt	ccgt	acgt	gagt	cagt	atct	ggct	cgct	agct	gcct	ccct	atgg	atcg	atgc	cggg	ccgg
8	0	0	0	+	0	0	+	0	0	+	+	0	-	0	0	0
9	0	0	0	0	0	0	0	0	0	+	+	+	-	0	0	0
10	0	0	0	0	0	0	0	0	0	+	+	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0
12	+	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0
13	+	0	0	0	0	0	0	0	0	+	+	0	0	0	+	0
14	+	+	+	0	+	+	+	+	+	+	+	+	0	+	+	+
15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	N	+	+	N
18	+	+	+	+	+	+	+	+	+	+	+	+	N	+	+	N
19	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N
20	+	+	N	+	+	+	+	+	N	+	+	+	N	+	+	+

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A4 c: Representation for all tetra nucleotide repeats with different repeat length based on dispace resampling strategy in *Fugu rubripes*.

	aaac	aaag	aaat	aacc	aacg	aact	aagc	aagg	aagt	aatc	aatg	aatt	acag	acat	accc	accg	acct
	gttt	cttt	attd	ggtd	cgtd	agtd	gctd	cctd	actd	gatt	catt	aatt	ctgt	atgt	gggt	cggt	aggt
8	+	+	+	-	-	-	-	+	-	-	+	+	+	0	+	-	-
9	+	+	+	0	-	-	-	+	-	0	+	+	+	0	+	-	-
10	+	+	+	0	-	-	0	+	0	0	+	+	+	0	+	0	0
11	+	+	+	0	0	0	0	+	0	0	+	0	+	+	+	0	0
12	+	+	+	0	0	0	0	+	0	0	0	0	+	0	+	0	0
13	+	+	+	0	0	0	0	+	0	0	0	0	+	+	+	0	0
14	+	+	+	0	0	0	0	+	0	+	0	0	+	+	+	0	0
15	+	+	+	+	+	0	0	+	0	+	+	0	+	+	+	+	+
16	+	+	+	+	+	0	0	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
20	+	+	+	+	+	+	N	+	N	+	+	+	+	+	+	+	+

	acgc	acgg	acgt	actc	actg	agat	agcc	agcg	agct	aggc	aggg	atcc	atcg	atgc	cccg	ccgg
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	gcgt	ccgt	acgt	gagt	cagt	atct	ggct	cgct	agct	gcct	ccct	atgg	atcg	atgc	cggg	ccgg
8	+	0	-	0	+	-	+	0	-	+	+	+	-	0	0	0
9	+	0	-	0	+	-	+	+	0	+	+	+	-	0	0	0
10	+	0	0	0	+	0	+	0	0	+	+	+	-	0	0	0
11	+	+	0	+	+	0	+	+	0	+	+	+	0	0	0	0
12	+	0	0	0	+	0	0	0	0	+	+	+	0	0	0	0
13	+	+	0	+	0	0	0	0	+	+	+	+	0	0	0	0
14	+	+	0	0	0	+	0	+	+	+	+	+	0	0	+	+
15	+	+	+	+	+	+	+	+	+	+	+	+	+	0	+	+
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N
19	+	+	N	+	+	+	+	+	+	+	+	+	+	+	+	N
20	+	+	N	+	+	+	+	+	+	+	+	+	+	+	+	N

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A4 d: Representation for all tetra nucleotide repeats with different repeat length based on dispace resampling strategy in *Drosophila melanogaster*.

	aaac	aaag	aaat	aacc	aacg	aact	aagc	aagg	aagt	aatc	aatg	aatt	acag	acat	accc	accg	acct
	gttt	cttt	at tt	ggtt	cgtt	agtt	gctt	cctt	actt	gatt	catt	aatt	ctgt	atgt	gggt	cggt	aggt
8	+	+	+	0	0	-	-	0	-	0	0	+	0	+	+	0	-
9	+	+	+	0	0	0	0	0	0	0	0	+	+	+	+	0	0
10	+	+	+	0	0	0	0	0	0	+	0	+	+	+	+	0	0
11	+	+	+	0	0	0	0	0	0	+	0	+	+	+	+	0	0
12	+	+	+	0	0	0	0	0	0	+	0	+	+	+	+	0	0
13	+	0	+	+	0	0	0	0	0	0	0	+	+	+	+	+	0
14	+	0	+	+	0	+	0	0	0	0	+	+	+	+	+	+	+
15	+	+	+	+	+	+	0	+	+	+	+	0	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	0	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N	+
19	+	+	+	+	+	+	N	+	+	+	+	N	+	+	+	+	+
20	+	+	+	+	+	+	N	+	+	+	+	+	+	+	+	N	+

	acgc	acgg	acgt	actc	actg	agat	agcc	agcg	agct	aggc	aggg	atcc	atcg	atgc	cccg	ccgg	
	gcgt	ccgt	acgt	gagt	cagt	atct	ggct	cgct	agct	gcct	ccct	atgg	atcg	atgc	cggg	ccgg	
8	0	0	-	0	0	-	+	+	-	+	0	0	0	0	+	0	
9	0	0	0	+	+	0	+	+	0	+	0	0	+	0	+	0	
10	+	+	0	+	+	0	+	0	0	+	0	+	+	0	+	0	
11	+	+	0	+	+	+	+	+	0	+	0	+	0	0	0	0	
12	0	0	0	+	+	0	+	0	0	0	0	+	0	0	0	0	
13	0	+	0	+	+	+	+	+	0	+	0	+	+	0	0	0	
14	+	+	+	+	+	+	+	+	+	+	+	+	+	+	0	+	+
15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	N	N
19	+	+	N	+	+	+	+	+	N	+	+	+	+	+	N	N	N
20	N	+	+	+	+	+	+	+	N	+	N	+	N	+	N	N	N

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A4 e: Representation for all tetra nucleotide repeats with different repeat length based on dispace resampling strategy in *Caenorhabditis elegans*.

	aaac	aaag	aaat	aacc	aacg	aact	aagc	aagg	aagt	aatc	aatg	aatt	acag	acat	accc	accg	acct
	gttt	cttt	at tt	ggtt	cgtt	agtt	gctt	cctt	actt	gatt	catt	aatt	ctgt	atgt	gggt	cggt	aggt
8	0	0	0	0	-	-	-	0	-	-	-	-	0	0	+	0	0
9	0	0	0	0	0	-	0	0	-	0	0	-	0	0	0	0	+
10	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	+
11	0	0	+	0	0	0	0	0	0	0	0	-	0	+	0	0	+
12	0	0	+	0	0	0	0	0	0	0	0	0	0	0	0	0	+
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	+
14	0	0	+	0	0	0	0	0	0	0	0	0	0	+	+	+	+
15	0	0	+	0	N	0	N	0	0	0	0	0	+	+	N	+	+
16	+	0	+	+	+	N	N	+	+	0	0	0	N	+	N	N	+
17	+	+	+	+	N	+	+	+	+	+	+	0	+	+	N	+	+
18	+	+	+	N	N	+	N	+	+	+	+	0	+	N	N	N	+
19	+	+	+	N	N	N	N	N	+	+	N	+	N	+	N	N	+
20	+	N	+	+	N	N	N	N	+	+	+	+	N	N	N	N	+

	acgc	acgg	acgt	actc	actg	agat	agcc	agcg	agct	aggc	aggg	atcc	atcg	atgc	cccg	ccgg
	gcgt	ccgt	acgt	gagt	cagt	atct	ggct	cgct	agct	gcct	ccct	atgg	atcg	atgc	cggg	ccgg
8	0	0	-	0	0	-	+	0	-	+	0	0	0	0	+	0
9	0	0	0	0	0	-	0	0	0	+	0	0	0	0	+	0
10	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	+	0	0	0	0	+	0
13	0	+	0	0	0	0	0	0	N	+	+	0	0	N	+	+
14	N	+	N	0	+	0	+	+	+	+	+	0	0	N	+	N
15	N	+	+	+	+	0	+	N	N	+	+	+	N	+	+	+
16	N	+	N	+	+	+	+	N	N	+	N	+	N	N	N	N
17	N	+	N	+	N	N	+	N	N	+	N	+	N	N	N	N
18	N	+	N	N	+	N	+	N	N	+	N	N	N	N	N	N
19	N	N	N	N	N	N	+	N	N	+	N	N	N	N	N	N
20	N	+	N	+	+	N	N	N	N	+	N	+	N	N	N	N

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A4 f: Representation for all tetra nucleotide repeats with different repeat length based on dispace resampling strategy in *Arabidopsis thaliana*.

	aaac	aaag	aaat	aacc	aacg	aact	aagc	aagg	aagt	aatc	aatg	aatt	acag	acat	accc	accg	acct
	gttt	cttt	at tt	ggtt	cgtt	agtt	gctt	cctt	actt	gatt	catt	aatt	ctgt	atgt	gggt	cggt	aggt
8	+	+	0	+	-	-	+	+	-	0	0	-	0	0	0	0	-
9	+	+	0	+	0	0	+	+	0	0	0	-	0	+	0	0	0
10	+	+	+	+	0	0	+	+	0	0	0	0	0	0	0	0	0
11	+	+	+	0	0	0	0	0	0	0	0	0	0	+	0	0	0
12	+	+	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	+	+	+	0	0	0	0	0	0	0	0	0	0	0	+	0	0
14	+	+	+	0	0	0	0	0	0	0	0	0	0	0	+	+	+
15	+	+	+	+	+	0	+	+	0	0	0	0	+	+	+	N	+
16	+	+	+	+	+	+	+	+	+	+	0	0	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	0	+	+	N	N	N
18	+	+	+	+	+	+	+	+	N	+	N	+	N	+	N	+	N
19	+	+	+	+	N	N	N	+	N	+	+	+	N	+	+	N	N
20	+	+	+	N	N	+	N	N	N	+	N	N	N	+	N	+	+

	acgc	acgg	acgt	actc	actg	agat	agcc	agcg	agct	aggc	aggg	atcc	atcg	atgc	cccg	ccgg	
	gcgt	ccgt	acgt	gagt	cagt	atct	ggct	cgct	agct	gcct	ccct	atgg	atcg	atgc	cggg	ccgg	
8	0	0	0	0	-	0	0	0	0	0	+	+	+	+	0	0	
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	+	0	0
11	0	0	0	0	0	0	0	0	0	+	0	0	0	0	+	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	+	+	0	N
13	0	N	+	0	0	0	0	0	0	0	N	0	0	0	0	N	N
14	N	+	+	+	0	0	+	+	0	N	+	0	0	+	N	N	
15	+	+	+	+	+	0	N	+	+	N	+	0	N	+	N	N	
16	N	+	N	+	N	+	N	+	+	+	+	N	+	+	+	+	
17	N	N	+	+	+	+	N	N	N	N	N	+	+	N	N	N	
18	N	+	N	+	+	+	N	N	N	+	N	N	N	+	N	N	
19	N	N	N	N	N	+	N	N	N	N	+	+	N	N	N	N	
20	N	+	N	N	N	+	N	N	N	N	N	N	N	+	N	N	

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A4 g: Representation for all tetra nucleotide repeats with different repeat length based on dispace resampling strategy in *Oryza sativa L. ssp. indica*.

	aaac	aaag	aaat	aacc	aacg	aact	aagc	aagg	aagt	aatc	aatg	aatt	acag	acat	accc	accg	acct
	gttt	cttt	at tt	ggtt	cgtt	agtt	gctt	cctt	actt	gatt	catt	aatt	ctgt	atgt	gggt	cggt	aggt
8	+	+	+	+	-	-	+	+	-	0	0	+	-	+	+	0	-
9	+	+	+	+	0	0	+	+	-	0	0	+	0	+	+	0	0
10	+	+	+	+	0	0	+	+	0	+	0	+	0	+	+	0	0
11	+	+	+	+	0	0	+	+	0	+	0	+	0	+	+	0	0
12	+	+	+	+	0	0	+	+	0	0	0	+	0	+	0	0	0
13	+	+	+	0	0	0	+	0	0	0	0	+	0	+	+	0	0
14	0	+	+	0	+	0	+	+	0	+	0	+	0	+	+	0	0
15	+	+	+	+	+	0	+	+	0	+	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	0	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	+	+	+	N	+	+	+	+	+	+	+	+
20	+	+	+	+	+	+	+	+	N	+	+	+	+	+	+	+	N

	acgc	acgg	acgt	actc	actg	agat	agcc	agcg	agct	aggc	aggg	atcc	atcg	atgc	cccg	ccgg
	gcgt	ccgt	acgt	gagt	cagt	atct	ggct	cgct	agct	gcct	ccct	atgg	atcg	atgc	cggg	ccgg
8	+	0	+	0	-	0	+	+	+	0	+	+	+	+	+	+
9	+	+	+	0	0	0	+	+	+	0	+	+	+	+	+	+
10	+	0	+	0	0	+	+	+	+	+	+	+	+	+	+	+
11	+	0	+	0	0	+	+	+	+	+	+	+	+	+	+	+
12	+	0	+	0	0	+	+	+	+	+	+	+	+	+	+	+
13	+	0	+	0	0	+	0	+	+	+	+	+	+	+	+	+
14	+	+	+	0	0	+	+	+	+	+	+	+	+	+	+	+
15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A4 h: Representation for all tetra nucleotide repeats with different repeat length based on dispace resampling strategy in *Oryza sativa L. ssp. japonica*.

	aaac	aaag	aaat	aacc	aacg	aact	aagc	aagg	aagt	aatc	aatg	aatt	acag	acat	accc	accg	acct
	gttt	cttt	at tt	ggtt	cgtt	agtt	gctt	cctt	actt	gatt	catt	aatt	ctgt	atgt	gggt	cggt	aggt
8	+	+	+	+	-	-	+	+	-	0	0	+	-	+	+	0	-
9	+	+	+	+	0	-	+	+	-	0	0	+	0	+	+	0	0
10	+	+	+	+	0	0	+	+	0	+	0	+	0	+	+	0	0
11	+	+	+	+	0	0	+	+	0	+	0	+	0	+	+	0	0
12	+	+	+	+	0	0	+	+	0	0	0	+	0	+	0	0	0
13	+	+	+	0	+	0	+	0	0	+	0	+	0	+	+	0	0
14	+	+	+	0	0	0	+	+	0	0	0	+	0	0	0	0	0
15	+	+	+	+	+	0	+	+	0	+	0	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	N	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	+	+	+	N	+	+	+	+	+	+	+	+
20	+	+	+	+	+	+	+	+	N	+	+	+	+	+	+	+	+

	acgc	acgg	acgt	actc	actg	agat	agcc	agcg	agct	aggc	aggg	atcc	atcg	atgc	cccg	ccgg
	gcgt	ccgt	acgt	gagt	cagt	atct	ggct	cgct	agct	gcct	ccct	atgg	atcg	atgc	cggg	ccgg
8	0	0	0	0	-	0	+	+	+	0	+	+	+	+	+	+
9	+	+	+	0	-	0	+	+	+	0	+	+	+	+	+	+
10	+	0	+	0	0	+	+	+	+	+	+	+	+	+	+	+
11	+	+	+	0	0	+	+	+	+	+	+	+	+	+	+	+
12	+	0	+	0	0	+	+	+	+	+	+	+	+	+	+	+
13	+	0	+	0	0	+	0	+	+	+	+	+	+	+	+	+
14	+	+	+	0	0	+	+	+	+	+	+	+	+	+	+	+
15	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
17	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
18	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
19	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
20	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A4 i: Representation for all tetra nucleotide repeats with different repeat length based on dispace resampling strategy in *Candida albicans*.

	aaac	aaag	aaat	aacc	aacg	aact	aagc	aagg	aagt	aatc	aatg	aatt	acag	acat	accc	accg	acct
	gttt	cttt	atth	ggtt	cgtt	agtt	gctt	cctt	actt	gatt	catt	aatt	ctgt	atgt	gggt	cggt	aggt
8	+	+	0	+	-	-	0	0	-	+	0	-	-	-	+	0	-
9	+	+	0	+	0	0	0	0	-	+	0	-	0	0	+	0	0
10	+	+	0	+	0	0	0	0	0	+	0	0	0	0	0	0	0
11	+	+	0	+	0	0	0	0	0	+	0	0	0	+	+	0	0
12	+	+	0	+	0	0	0	+	0	+	0	0	0	+	+	N	0
13	+	+	0	+	0	0	0	+	0	0	0	0	0	0	+	N	0
14	+	+	0	+	+	0	+	+	0	+	0	0	+	+	+	N	+
15	+	+	+	+	+	+	0	+	+	+	+	0	+	+	+	+	+
16	+	+	+	+	+	+	+	+	+	+	+	0	+	+	+	N	+
17	+	+	+	+	+	+	N	+	+	+	+	0	+	+	+	N	N
18	+	+	+	+	N	+	+	+	N	+	+	+	+	+	N	N	N
19	+	+	+	+	N	+	+	+	+	+	+	+	N	+	N	+	N
20	+	+	+	+	N	+	N	+	+	+	+	+	+	+	+	N	N

	acgc	acgg	acgt	actc	actg	agat	agcc	agcg	agct	aggc	aggg	atcc	atcg	atgc	cccg	ccgg	
	gcgt	ccgt	acgt	gagt	cagt	atct	ggct	cgct	agct	gcct	ccct	atgg	atcg	atgc	cggg	ccgg	
8	0	0	-	0	-	-	0	-	-	0	+	0	0	-	0	0	
9	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	+	0	0	0	0	0	
11	0	0	0	0	0	0	0	0	0	0	+	0	0	0	0	N	
12	+	N	0	0	0	0	N	+	0	0	0	0	0	0	0	+	N
13	+	N	N	+	0	0	+	N	N	N	+	+	N	0	N	N	
14	+	N	N	+	+	+	N	+	N	N	+	0	N	N	N	N	
15	+	N	N	+	+	+	N	+	N	+	+	+	+	+	+	N	N
16	+	N	N	+	N	+	N	N	N	N	+	+	N	N	N	N	
17	N	N	N	+	+	+	N	N	N	N	+	+	N	N	N	N	
18	N	N	N	+	N	+	N	N	N	N	+	+	N	N	N	N	
19	+	N	N	+	+	+	+	N	N	N	+	N	N	N	N	N	
20	N	N	N	+	N	+	N	N	N	N	N	+	N	N	N	N	

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.

Table A4 j: Representation for all tetra nucleotide repeats with different repeat length based on dispace resampling strategy in *Saccharomyces cerevisiae*.

	aaac	aaag	aaat	aacc	aacg	aact	aagc	aagg	aagt	aatc	aatg	aatt	acag	acat	accc	accg	acct
	gttt	cttt	at tt	ggtt	cgtt	agtt	gctt	cctt	actt	gatt	catt	aatt	ctgt	atgt	gggt	cggt	aggt
8	0	+	0	0	0	-	0	+	-	0	0	-	0	0	0	0	0
9	0	+	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0
10	0	+	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0
11	0	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N	N	0
13	0	0	0	0	N	0	0	0	0	0	0	0	N	0	N	N	N
14	0	0	0	+	N	0	0	N	0	0	0	0	N	0	+	N	N
15	0	0	0	N	N	0	+	N	N	0	+	N	N	+	N	N	N
16	N	+	+	N	N	N	N	N	N	N	+	N	N	+	N	N	N
17	N	+	+	N	N	N	N	+	+	N	+	+	N	+	N	N	N
18	+	+	+	N	N	N	N	N	N	+	+	N	N	+	N	N	N
19	+	+	+	N	N	N	N	N	N	N	N	N	N	+	N	N	N
20	N	N	+	N	N	N	N	N	N	N	N	N	N	N	N	N	N

	acgc	acgg	acgt	actc	actg	agat	agcc	agcg	agct	aggc	aggg	atcc	atcg	atgc	cccg	ccgg
	gcgt	ccgt	acgt	gagt	cagt	atct	ggct	cgct	agct	gcct	ccct	atgg	atcg	atgc	cggg	ccgg
8	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	N	0
12	N	N	N	N	N	0	N	N	N	N	0	0	N	0	N	N
13	N	N	N	0	N	0	N	N	N	0	N	0	N	N	N	N
14	+	N	N	N	N	N	N	N	N	N	+	N	N	N	+	N
15	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
16	N	N	N	N	N	N	N	N	N	N	N	N	N	+	N	N
17	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
18	N	N	+	N	N	+	N	N	N	N	N	N	N	N	N	N
19	N	N	N	N	N	+	N	N	N	N	N	N	N	N	N	N
20	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Note: + is overrepresented, - is underrepresented, 0 is equal and N is no microsatellite of this length.