

## FOR THE RECORD

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# Population Data for the STR Systems D3S1358, D8S1179, D18S51, D21S11, and the Y-Chromosomal DYS385 in a Population Sample from Lower Franconia (South Germany)

**KEYWORDS:** forensic science, STR, D3S1358, D8S1179, D18S51, D21S11, DYS385, forensic genetics

Whole liquid blood was obtained from unrelated individuals. DNA extraction was performed using a salting out procedure (1). PCR was carried out for D3S1358, D8S1179, D18S51 (2), D21S11 (3), and DYS385 (4) with 5 ng of DNA each. The PCR products were separated using an ABI 310 automated sequencer (Applied Biosystems, Foster City, CA). Power of discrimination was calculated for all examined populations (5). For the autosomal STR-loci heterozygosity value (6) and chance of exclusion (7) were calculated. No significant deviations from Hardy-Weinberg equilibrium were found in the autosomal STR systems using  $\chi^2$ -analysis ( $P > 0.05$ ). The whole dataset can be downloaded in Microsoft Excel 98 format from <http://www.uni-wuerzburg.de/rechtsmedizin/populationsdaten>.

### References

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TABLE 1—Allele frequencies for D3S1358 (n = 195), D8S1179 (n = 165), D18S51 (n = 173) and D21S11 (n = 164) in a South German population.

Allele	D3S1358	D8S1179	D18S51	D21S11
8		0.018		
9		0.006		
10		0.082	0.009	
11		0.103	0.009	
12		0.139	0.15	
13	0.003	0.291	0.133	
14	0.115	0.236	0.197	
15	0.241	0.097	0.09	
16	0.279	0.018	0.139	
17	0.185	0.006	0.119	
18	0.167	0.003	0.09	
19	0.01		0.038	
20			0.017	
21			0.003	
22			0.003	
23			0.006	
24				
25				
26				
27				0.027
28				0.186
29				0.213
30				0.238
30.2				0.043
31				0.058
31.2				0.085
32				0.012
32.2				0.082
33				0.003
33.2				0.034
34				0.003
34.2				0.015
H	0.79	0.83	0.90	0.89
h	0.79	0.82	0.87	0.84
Pd	0.92	0.94	0.97	0.96
CE	0.58	0.64	0.74	0.69

H: observed heterozygosity rate, h: expected heterozygosity rate, Pd: power of discrimination, CE: chance of exclusion.

TABLE 2—Allele frequencies for DYS385 in a South German population (n = 145).

Allele	Frequency	Allele	Frequency
9-9	0.007	12-18	0.007
9-14	0.007	13-13	0.007
10-10	0.007	13-14	0.090
10-14	0.048	13-15	0.034
10-15	0.007	13-16	0.014
11-11	0.014	13-17	0.014
11-12	0.014	13-19	0.007
11-13	0.041	14-14	0.034
11-14	0.331	14-15	0.041
11-15	0.076	14-16	0.021
11-16	0.021	14-17	0.014
11-18	0.007	15-15	0.014
12-13	0.028	15-16	0.007
12-14	0.028	16-18	0.028
12-15	0.007	16-19	0.007
12-16	0.007	17-18	0.014
Pd	0.8735		

Pd: Power of discrimination.