

FOR THE RECORD

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Allele Frequencies for Eight STR Loci in a Population Sample from Sicily (Italy)

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POPULATION: province of Messina (Sicily)

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Blood samples from healthy and unrelated individuals ($n=135-150$) were extracted by Chelex 100 procedure (1). DNA samples (5–25 ng) were amplified in a “PCR sprint” (Hybaid) thermal cycler and typed-classified according to the DNA commission of the ISFH (2). Allele and genotype frequencies were determined and Hardy-Weinberg equilibrium was tested by χ^2 method. From the genotype data, the power of discrimination (PD) according to the equation suggested by Fisher (3) was calculated. The heterozygosity value (OH) as described by Nei and Roychoudhury (4) was determined.

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The allele frequencies of D13S317, D7S820, D16S539, D3S1358, FGA, and CD4 loci are given in Table 1.

The complete data are available to any interested researcher upon request to the corresponding author, Alessio Asmundo, M.D.

References

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TABLE 1—STR allele frequency data for a Sicilian population (n = 135–150).

Allele	D13S317	D7S820	D16S539	D3S1358	TPOX	CSF1PO	FGA	CD4
5								0.322
6								0.300
7		0.023			0.003			
8	0.120	0.167	0.020		0.550			0.004
9	0.073	0.127	0.153		0.097	0.013		0.019
10	0.083	0.297	0.073		0.110	0.333		0.319
11	0.307	0.223	0.323		0.203	0.327		0.030
12	0.320	0.137	0.267		0.033	0.260		0.007
13	0.083	0.020	0.137	0.007		0.060		
14	0.013	0.007	0.027	0.052		0.007		
15				0.276				
16				0.193				
17				0.234				
18				0.221			0.019	
19				0.017			0.089	
20							0.059	
21							0.144	
22							0.196	
23							0.170	
24							0.137	
25							0.130	
26							0.048	
27							0.004	
29							0.004	
RARE					0.003			
P	n = 150	n = 150	n = 150	n = 145	n = 150	n = 150	n = 135	n = 135
PD	.30–.20	.20–.10	.001	.50–.30	.70–.50	.30–.20	.001–.0001	.80–.70
PD	.90	.92	.91	.90	.81	.84	.95	.85
OH	.80	.77	.74	.81	.66	.77	.87	.71