

## FREQUENCY DATA OF 9 Y-CHROMOSOMAL STR LOCI IN A SAMPLE FROM CENTRAL SPAIN

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**Population:** 94 males from Vera-Jerte Valleys, Cáceres province (Central Spain).

**Keywords:** forensic science, DNA typing, population genetics, DYS390, DYS391, DYS393, DYS434, DYS437, DYS439, DYS389I, DYS389II, DYS19, Spain.

A sample of 94 blood specimens from unrelated apparently healthy males was collected from individuals autochthonous to the geographic region of Vera-Jerte Valleys, Central Spain (the four grandparents were born within the region). DNA was recovered using a standard phenol/chloroform procedure and typed in an ALF-Sequencer (Pharmacia) according to protocols and alleles kindly supplied by Peter de Knijff (1) for DYS390, DYS391, DYS393, DYS19 loci. DYS434, DYS437 and DYS439 systems were typed according to Hou et al (2) and DYS389I and DYS389II were typed according to Schultes et al (3) using allelic ladders from our laboratory. Frequencies were calculated through the gene counting method and gene diversity was estimated according to Nei (4)

Data set can be accessed <http://www.ucm.es/info/antropo/trancho/eduardo/trabajos.htm>

### References

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- 3.- Schultes T., Hummel S., Herrmann B. (1999) Amplification of Y-chromosomal STRs from ancient skeletal material. *Hum. Genet.*, 104: 164-166.
- 4.- Nei M. Molecular evolutionary genetics. Columbia University Press, New York, 1987.

TABLE 1.- Allelic frequencies for 9 Y-Chromosomal STR in Central Spain.

LOCUS	ALLELES	N	%	DIVERSITY
DYS434	9	1	0,0106	0,0423
	10	92	0,9787	
	11	1	0,0106	
DYS437	14	35	0,3723	0,5845
	15	49	0,5213	
	16	10	0,1064	
DYS439	10	5	0,0532	0,6246
	11	25	0,2660	

	12	51	0,5426	
	13	11	0,1170	
	14	2	0,0213	
DYS390	21	1	0,0106	0,6044
	22	5	0,0532	
	23	21	0,2234	
	24	54	0,5745	
	25	13	0,1383	
DYS391	9	4	0,0426	0,5736
	10	41	0,4362	
	11	46	0,4894	
	12	3	0,0319	
DYS393	12	13	0,1383	0,4459
	13	68	0,7234	
	14	12	0,1277	
	15	1	0,0106	
DYS19	12	1	0,0106	0,6035
	13	12	0,1277	
	14	55	0,5851	
	15	19	0,2021	
	16	5	0,0532	
	17	2	0,0213	
DYS389I	10	1	0,0106	0,4576
	12	11	0,1170	
	13	67	0,7128	
	14	15	0,1596	
DYS389II	27	1	0,0106	0,6124
	28	14	0,1489	
	29	50	0,5319	
	30	28	0,2979	
	31	1	0,0106	
COMBINED				0,9982

TABLE 2. Haplotype frequencies in Central Spain.

Haplotypes	DYS434	DYS437	DYS439	DYS390	DYS391	DYS393	DYS19	DYS389I	DYS389II	N	%
1	9	15	14	24	11	12	14	13	28	1	0,0106
2	10	14	10	23	10	13	16	13	30	1	0,0106
3	10	14	10	24	10	13	13	12	29	1	0,0106
4	10	14	10	24	11	13	13	13	29	1	0,0106
5	10	14	10	24	11	13	14	13	30	1	0,0106
6	10	14	11	23	10	13	12	13	30	1	0,0106
7	10	14	11	23	10	13	14	13	29	1	0,0106
8	10	14	11	24	10	12	14	13	30	1	0,0106
9	10	14	11	24	10	12	15	13	30	1	0,0106
10	10	14	11	24	10	13	13	13	30	1	0,0106
11	10	14	11	24	10	13	14	14	30	1	0,0106
12	10	14	11	24	11	12	14	13	29	1	0,0106
13	10	14	11	24	11	13	14	13	28	1	0,0106
14	10	14	11	24	11	13	14	13	29	2	0,0213
15	10	14	11	24	11	14	14	14	29	1	0,0106
16	10	14	11	25	10	14	13	12	30	1	0,0106
17	10	14	12	23	10	12	14	13	29	1	0,0106
18	10	14	12	23	10	13	13	13	28	1	0,0106
19	10	14	12	23	10	13	13	13	29	1	0,0106
20	10	14	12	23	10	13	14	13	29	1	0,0106
21	10	14	12	23	10	13	15	12	29	1	0,0106
22	10	14	12	24	10	12	15	13	29	1	0,0106
23	10	14	12	24	10	13	14	12	29	1	0,0106

24	10	14	12	24	10	13	14	13	29	1	0,0106
25	10	14	12	24	11	13	13	12	31	1	0,0106
26	10	14	12	24	11	13	14	13	29	1	0,0106
27	10	14	12	24	11	13	14	14	30	2	0,0213
28	10	14	12	24	11	14	14	14	30	1	0,0106
29	10	14	12	25	10	13	14	13	29	1	0,0106
30	10	14	12	25	11	13	14	14	29	1	0,0106
31	10	14	12	25	12	12	14	13	29	1	0,0106
32	10	14	13	22	10	12	15	13	29	1	0,0106
33	10	14	13	24	10	13	13	13	30	1	0,0106
34	10	14	13	24	11	13	14	14	30	1	0,0106
35	10	15	10	24	11	13	15	13	28	1	0,0106
36	10	15	11	22	10	14	15	13	30	2	0,0213
37	10	15	11	23	9	13	17	13	28	1	0,0106
38	10	15	11	23	10	13	17	13	28	1	0,0106
39	10	15	11	24	10	13	14	13	29	2	0,0213
40	10	15	11	24	11	13	13	13	29	1	0,0106
41	10	15	11	24	11	13	14	13	28	1	0,0106
42	10	15	11	24	11	13	14	13	30	1	0,0106
43	10	15	12	23	10	13	14	12	28	1	0,0106
44	10	15	12	23	10	14	14	13	29	1	0,0106
45	10	15	12	23	11	12	14	13	29	2	0,0213
46	10	15	12	23	11	13	14	13	29	1	0,0106
47	10	15	12	23	11	13	15	13	29	2	0,0213
48	10	15	12	24	9	12	14	13	29	1	0,0106
49	10	15	12	24	9	13	14	13	29	1	0,0106
50	10	15	12	24	9	13	16	14	29	1	0,0106
51	10	15	12	24	10	13	14	13	29	1	0,0106
52	10	15	12	24	10	13	14	14	30	1	0,0106
53	10	15	12	24	10	13	15	13	28	1	0,0106
54	10	15	12	24	10	13	15	13	29	1	0,0106
55	10	15	12	24	10	14	15	13	29	1	0,0106
56	10	15	12	24	11	13	14	13	28	2	0,0213
57	10	15	12	24	11	13	14	13	29	1	0,0106

58	10	15	12	24	11	13	14	13	30	1	0,0106
59	10	15	12	24	11	13	15	14	30	1	0,0106
60	10	15	12	24	11	13	16	13	29	1	0,0106
61	10	15	12	24	11	13	14	13	29	1	0,0106
62	10	15	12	25	10	13	14	13	29	1	0,0106
63	10	15	12	25	10	13	14	13	30	1	0,0106
64	10	15	12	25	11	12	14	13	29	1	0,0106
65	10	15	12	25	11	13	14	14	30	1	0,0106
66	10	15	12	25	11	13	15	13	28	1	0,0106
67	10	15	12	25	11	13	15	14	30	1	0,0106
68	10	15	12	25	11	14	14	13	29	1	0,0106
69	10	15	12	25	12	13	13	14	30	1	0,0106
70	10	15	12	25	12	14	14	13	29	1	0,0106
71	10	15	13	24	10	13	14	14	30	1	0,0106
72	10	15	13	24	10	14	14	13	29	1	0,0106
73	10	15	13	24	11	13	14	13	29	2	0,0213
74	10	15	13	24	11	13	14	13	30	1	0,0106
75	10	15	13	24	11	14	13	13	30	1	0,0106
76	10	15	14	24	11	13	15	14	30	1	0,0106
77	10	16	11	21	10	15	16	12	29	1	0,0106
78	10	16	11	23	10	12	14	12	27	1	0,0106
79	10	16	11	23	10	13	16	12	29	1	0,0106
80	10	16	11	24	11	13	14	12	28	1	0,0106
81	10	16	12	22	11	13	15	13	28	1	0,0106
82	10	16	12	23	11	13	14	13	29	1	0,0106
83	10	16	12	24	11	13	15	13	29	1	0,0106
84	10	16	13	22	10	14	15	12	29	1	0,0106
85	10	16	13	23	10	13	14	13	29	1	0,0106
86	11	16	12	24	11	13	13	10	30	1	0,0106

