

FOR THE RECORD

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Three Y-Chromosome STR Frequencies in a Population from Equatorial Guinea (Central Africa)

Population: 48 males from Equatorial Guinea (Central Africa)

KEYWORDS: forensic science, DNA typing, population genetics, DYS389I, DYS389II, DYS19, Guinea, Africa

Specimens were collected from unrelated apparently healthy males, blood donors from Equatorial Guinea (Central Africa). DNA was extracted from blood specimens using a bloodclean DNA purification Kit (Biotools) and typed in an ALF-Sequencer (Pharmacia). DYS19 alleles were determined according to protocols and allelic ladders kindly supplied by Peter de Knijff (1). Primers for DYS389I and DYS389II were synthesized according to Schultes et al. (2). PCR conditions for these two systems were modified as follows: a first denaturation step at 94°C 3 min; 5 cy-

cles of 94°C 15 s, 58°C 20 s, 72°C 20 s, 34 cycles of 94°C 15 s, 54°C 20 s, 72°C 20 s. Amplification products were typed with allelic ladders from our laboratory. Frequencies were calculated for all the systems through the gene counting method and gene diversity was estimated according to Nei (3).

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

References

1. Chromosome Y microsatellite protocols and ladders. University of Leiden, The Netherlands, <http://www.medfac.leidenuniv.nl/fldo/>
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3. Nei M. *Molecular evolutionary genetics*. Columbia University Press, New York, 1987.

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Locus	Alleles	<i>N</i>	%	Diversity
DYS389I	12	4	0.0833	0.5061
	13	32	0.6667	
	14	11	0.2292	
	15	1	0.0208	
DYS389II	29	9	0.1875	0.6534
	30	24	0.5000	
	31	13	0.2708	
	32	2	0.0417	
DYS19	13	1	0.0208	0.6480
	14	4	0.0833	
	15	26	0.5417	
	16	7	0.1458	
Combined	17	10	0.2083	0.9318

Haplotypes	DYS389I	DYS389II	DYS19	<i>N</i>	%
1	12	29	16	2	0.0417
2	12	30	15	1	0.0208
3	12	31	15	1	0.0208
4	13	29	13	1	0.0208
5	13	29	14	2	0.0417
6	13	29	15	2	0.0417
7	13	29	16	1	0.0208
8	13	30	14	1	0.0208
9	13	30	15	10	0.2083
10	13	30	16	4	0.0833
11	13	30	17	4	0.0833
12	13	31	15	4	0.0833
13	13	31	17	2	0.0417
14	13	32	15	1	0.0208
15	14	30	14	1	0.0208
16	14	30	15	3	0.0625
17	14	31	15	2	0.0417
18	14	31	17	4	0.0833
19	14	32	15	1	0.0208
20	15	29	15	1	0.0208