

## HLA DQA1 AND D1S80 IN THE POPULATION OF VALENCIA (SPAIN)

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**System and locus:** HLA DQA1 (6p21.3)

**Population and sample size:** 107 unrelated people from the district of Valencia (Eastern Spain).

### Methods:

Primers: GH26 and GH27 (Lareu et al. 1993).  
 PCR amplification conditions (Lareu et al. 1993).  
 Method of detection: Dot-blot with AmpliType HLA DQA1 (Perkin-Elmer)

### Results:

#### Observed genotypes

Gen.	Obs.	Gen.	Obs.	Gen.	Obs.	Gen.	Obs.
0101-0101	2	0101-0501	13	0103-0201	3	0301-0301	3
0101-0102	4	0102-0102	1	0103-0501	7	0301-0501	11
0101-0103	3	0102-0103	3	0201-0201	3	0501-0501	9
0101-0201	9	0102-0201	7	0201-0301	5		
0101-0301	6	0102-0301	5	0201-0501	13		

#### Allele frequencies

Allele	Frequency	Allele	Frequency	Allele	Frequency
0101	0.1822	0103	0.0748	0301	0.1542
0102	0.0981	0201	0.2009	0501	0.2897

$\chi^2$ : 16.345 (d.f. 16); p:0.450

**Comments:** Significant differences with other SW European populations (i.e.  $P < 0.01$  with the population of Galicia). h: 0.8072, DP: 0.9335, CE: 0.6074.

### References:

Lareu MV, Muñoz I, Pestoni C, Rodriguez MS, Vide C, Carracedo A (1993) The distribution of HLA DQA1 and D1S80 (pMCT118) alleles and genotypes in the population of Galicia and Central Portugal. *Int J Leg Med* 106:124-128.

**System and locus:** pMCT 118 (D1S80)

**Population and sample size:** 115 unrelated people from the district of Valencia (Eastern Spain).

**Methods:**

Primers: Kasai et al. (1990).

PCR amplification conditions (Lareu et al. 1993).

Method of detection: Miniaturized polyacrylamide gels (Phast-Gels 8-25, Pharmacia) followed by silver-staining.

**Results:****Observed genotypes**

Gen.	Obs.	Gen.	Obs.	Gen.	Obs.	Gen.	Obs.
16-29	1	18-31	2	23-27	1	24-33	1
17-18	1	19-24	1	23-29	1	24-35	1
18-18	9	20-24	3	23-31	1	24-36	1
18-20	1	20-28	1	24-24	17	25-27	1
18-21	1	21-22	1	24-25	3	26-30	1
18-22	2	21-24	1	24-26	4	26-31	1
18-24	15	21-25	1	24-27	4	28-29	1
18-25	2	22-24	2	24-28	2	29-29	1
18-26	1	22-29	1	24-29	5	29-31	1
18-28	2	22-30	1	24-30	1	31-31	1
18-29	4	23-23	1	24-31	7		
18-30	1	23-24	2	24-32	2		

**Allele frequencies**

Allele	Frequency	Allele	Frequency	Allele	Frequency	Allele	Frequency
16	0.0043	21	0.0174	26	0.0304	31	0.0609
17	0.0043	22	0.0304	27	0.0261	32	0.0087
18	0.2174	23	0.0304	28	0.0261	33	0.0043
19	0.0043	24	0.3870	29	0.0696	35	0.0043
20	0.0217	25	0.0304	30	0.0174	36	0.0043

Exact test  $p=0.104$

**Comments:** No significant differences with other SW European populations  
h:0.7915, DP:0.9116, CE: 0.6208

**References:**

-Kasai K, Nakamura Y, White R (1990) Amplification of variable number of tandem repeats (VNTR) locus (pMCT118) by PCR and its application of Forensic Science. *J Forensic Sci* 35: 1196-1200.

-Lareu MV, Muñoz I, Pestoni C, Rodriguez MS, Vide C, Carracedo A (1993) The distribution of HLA DQA1 and D1S80 (pMCT118) alleles and genotypes in the population of Galicia and Central Portugal. *Int J Leg Med* 106:124-128.