

YNZ22 (D17S5, D17S30)

	Europe					
Population	Austria (pooled)	Austria (Salzburg)	Byelorussia	Germany (pooled)	Germany	Germany (Eschweiler, Stolberg)
Ref.		(27)	(2)		(22)	(28)
n	561	355	70	1565	64	272
Alleles						
1	0.0526	0.0465	0.0357	0.0637	0.0625	0.0827
2	0.1684	0.1901	0.0929	0.1607	0.1563	0.1507
3	0.1621	0.1761	0.1929	0.1484	0.2109	0.1452
4	0.2887	0.2775	0.3143	0.2869	0.2656	0.3364
5	0.0276	0.0268	0.1286	0.0333	0.0391	0.0331
6	0.0311	0.0282	0.0429	0.0495	0.0469	0.0515
7	0.0194	0.0197	0.0143	0.0222	0.0234	0.0257
8	0.0382	0.0366	0.0500	0.0406	0.0391	0.0239
9	0.0713	0.0662	0.0643	0.0643	0.0156	0.0643
10	0.0836	0.0817	0.0571	0.0676	0.0781	0.0496
11	0.0188	0.0141	0.0071	0.0223	0.0156	0.0129
12	0.0266	0.0310	0.0000	0.0348	0.0469	0.0184
13	0.0080	0.0056	0.0000	0.0055	0.0000	0.0055
14	0.0018	0.0000	0.0000	0.0000	0.0000	0.0000
>14	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000
S	0.9989	<i>1.0001</i>	<i>1.0001</i>	0.9998	<i>1.0000</i>	0.9999

	Europe (continued)					
Population	Germany (Hürtgenwald, Inden, Langerwehe)	Germany (Düsseldorf)	Hungary (Budapest)	Italy (pooled)	Italy (Tuscany)	Poland
Ref.	(28)	(6, 28)	(26)		(20)	(10, 27)
n	277	451	209	779	312	204
Alleles						
1	0.0722	0.0543	0.0930	0.0758	0.0849	0.0515
2	0.1426	0.1486	0.2270	0.1965	0.1506	0.1324
3	0.1480	0.1330	0.1290	0.1571	0.1811	0.1961
4	0.2924	0.2838	0.2510	0.2580	0.2436	0.2672
5	0.0217	0.0455	0.0530	0.0508	0.0482	0.0613
6	0.0560	0.0665	0.0290	0.0294	0.0353	0.0490
7	0.0126	0.0288	0.0170	0.0122	0.0128	0.0171
8	0.0361	0.0421	0.0430	0.0270	0.0321	0.0490
9	0.0704	0.0621	0.0500	0.0821	0.0930	0.0539
10	0.0866	0.0565	0.0790	0.0682	0.0753	0.0759
11	0.0271	0.0310	0.0140	0.0145	0.0160	0.0098
12	0.0325	0.0377	0.0070	0.0199	0.0160	0.0294
13	0.0018	0.0100	0.0070	0.0077	0.0112	0.0074
14	0.0000	0.0000	0.0000	0.0006	0.0000	0.0000
>14	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
S	<i>1.0000</i>	0.9999	<i>0.9990</i>	0.9998	<i>1.0001</i>	<i>1.0000</i>

	Europe (continued)				
Population	Russia	Spain (pooled)	Spain (North-West, Galicia)	Spain (Andalucia)	Spain (Catalonia)
Ref.	(2)		(13, 24)	(23)	(14, 27)
n	120	775	137	120	311
Alleles					
1	0.0292	0.0682	0.0365	0.0708	0.0720
2	0.0917	0.1929	0.1934	0.1625	0.2250
3	0.1458	0.1322	0.1934	0.1125	0.1270
4	0.3917	0.2604	0.2520	0.2750	0.2470
5	0.0667	0.0410	0.0438	0.0417	0.0410
6	0.0667	0.0572	0.0511	0.0708	0.0380
7	0.0125	0.0154	0.0146	0.0167	0.0190
8	0.0333	0.0455	0.0255	0.0458	0.0460
9	0.0792	0.0903	0.1058	0.0708	0.1030
10	0.0792	0.0553	0.0620	0.0542	0.0510
11	0.0000	0.0178	0.0182	0.0333	0.0140
12	0.0042	0.0199	0.0036	0.0417	0.0110
13	0.0000	0.0021	0.0000	0.0042	0.0030
14	0.0000	0.0002	0.0000	0.0000	0.0000
>14	0.0000	0.0010	0.0000	0.0000	0.0020
S	1.0002	0.9994	0.9999	1.0000	0.9990

	America, South		Asia, Far East
	Bolivia (Quechua, province of Dalcence, Dept. of Oruro)	Bolivia (Pacajes and Murillo, Dept. of La Paz)	Japan
Ref.	(21)	(25)	(29)
n	103	117	164
Alleles			
1	0.0097	0.0000	0.2100
2	0.0000	0.0090	0.0640
3	0.0728	0.0300	0.1160
4	0.8204	0.8120	0.2230
5	0.0340	0.0470	0.1100
6	0.0146	0.0210	0.1430
7	0.0291	0.0040	0.0670
8	0.0000	0.0090	0.0090
9	0.0000	0.0090	0.0240
10	0.0146	0.0170	0.0340
11	0.0049	0.0130	0.0000
12	0.0000	0.0090	0.0000
13	0.0000	0.0040	0.0000
14	0.0000	0.0130	0.0000
>14	0.0000	0.0040	0.0000
S	1.0001	1.0010	1.0000

References

- (20) Ricci, U., Biondi, C., Giovannucci Uzielli, M.L. (1998) YNZ22 population data in the Tuscany region (Central Italy). *Progr. Forensic Genet.* 7: 344-346
- (21) Gené, M., Fuentes, M., Huguet, E., Piqué, E., Bert, F., Corella, A., Pérez-Pérez, A., Corbella, J., Moreno, P. (1998) Quechua Amerindian population characterized by HLA-DQa, YNZ22, 3'APO B, HUMTH01, and HUMVWA31A polymorphisms. *J. Forens. Sci.* 43: 403-405
- (22) Weisser, H.-J., Lutz, S. (1998) Institut für Rechtsmedizin, Freiburg, personal communication
- (23) Lorente, M., Lorente, J.A., Wilson, M.R., Budowle, B., Villanueva, E. (1997) Spanish population data on seven loci: D1S80, D17S5, HUMTH01, HUMVWA, ACTBP2, D21S11 and HLA-DQA1. *Forensic Sci. Int.* 86: 163-171
- (24) Pestoni, C., Muñoz, I., Comesaña, M., Fernández-Falcón, A., García-Rivero, A., Rodríguez-Calvo, M.S. (1996) Distribution of the AMPFLPs YNZ22, 3'APOB and COL2A1 in the population of Galicia (NW Spain). *Forensic Sci. Int.* 80: 175-188
- (25) Gené, M., Moreno, P., Borrego, N., Piqué, E., Xifró, A., Fuentes, M., Bert, F., Corella, A., Pérez-Pérez, A., Turbón, D., Corbella, J., Huguet, E. (2000) Population study of Aymara Amerindians for the PCR-DNA polymorphisms HUMTH01, HUMVWA31A, D3S1358, D8S1179, D18S51, D19S253, YNZ22 and HLA-DQa. *Int. J. Legal Med.* 113: 126-128
- (26) Lászik, A., Weisser, H.-J., Keresztury, L., Pollak, S. (1999) Allele frequencies for the VNTR locus D17S5 (YNZ22) in Hungary. *Int. J. Legal Med.* 112: 336

(27) **Neuhuber, F., Radacher, M.** (1998) Populationsgenetische Untersuchungen des AmpFLP-Systems YNZ22 in Österreich: Anwendung in forensischen Fragestellungen. Rechtsmedizin 9: 21-24

(28) **Scheil, H.-G., Huckenbeck, W., Schuhen, S., Schulz, S.** (2001) Genetische Studien im Regierungsbezirk Köln (Nordrhein-Westfalen, Deutschland): DNA-STR-Systeme FGA, TH01, VWA und YNZ22. Anthropol. Anz. 59: 233-242

(29) **Harashima, N., Ota, M., Katsuyama, Y., Sugiyama, E., Liu, C., Fukushima, H.** (1996) The allele frequency distribution at VNTR locus D17S5 (YNZ22) in a Japanese population sample. Japanese J. Legal Med. 50: 237-240

Untersuchungen des AmpFLP-Systems YNZ22 in Österreich: Anwendung in forensischen Fragestellungen. Rechtsmedizin 9: 21-24