POPULATIONAL FREQUENCIES OF THE YUCATAN PENINSULA, MEXICO

Sampling: 733 non-consanguineous individuals from the Yucatan Peninsula were included. **Reference**: Sosa-Escalante JE, González-Herrera L, López-González P, López-González MJ, Gamboa-Magaña RY, Herrera-Diaz RG, Piña-Dzul KA, León-Acosta SF, Flores-Baas RI, Bautista-González J, Rivera-Guzmán MR, Rangel-Villalobos H. Forensic statistical parameters of 22 autosomal STRs in mestizos from the Península of Yucatan, Mexico. The 28th ISFG Congress will be held in Prague, Czech Republic, September 9-13, 2019.

Available in: www.dimygen.com.

ALLELE	D3S1358	D1S1656	D2S441	D10S1248	D13S317	PENTA E	D16S539	D18S51	D2S1338	CSF1PO	PENTA D	TH01	VWA	D21S11	D7S820	D5S818	TPOX	D8S1179	D12S391	D19S433	FGA	D22S1045
2.2											0.00196											
5.0						0.03131					0.00587	0.00294										
6.0											0.00098	0.37867					0.00196					
7.0					0.00196	0.05969				0.00489	0.00391	0.27495			0.01174	0.06164	0.00196					
8.0			0.00098		0.05773	0.02446	0.00978			0.00391	0.01468	0.05284			0.06458		0.43248	0.00196				0.00098
9.0			0.00294	0.00098	0.22601	0.00783	0.10568			0.0274	0.19863	0.0998			0.06556	0.04305	0.05088	0.00196				
9.3												0.18493										
10.0		0.00196	0.48337		0.12427	0.03816	0.21331	0.00391		0.22309	0.2456	0.00587			0.26908	0.06067	0.04697	0.06849	0.00098	0.00294		0.00391
10.1			0.00196																			
10.2																				0.00098		
10.3															0.00196							
11.0	0.00098	0.0274	0.26321	0.00489	0.19374	0.05675	0.28473	0.01663		0.30431	0.11448				0.31115	0.48533	0.26908	0.05773		0.00685		0.05675
11.3			0.0225												0.00098							
12.0	0.00196	0.06262	0.03425	0.02544	0.2319	0.19863	0.28376	0.0773		0.3728	0.15753				0.21722	0.23581	0.19276	0.11252		0.05773		0.00391
12.2																				0.02838		
13.0	0.00587	0.12035	0.00685	0.27104	0.09883	0.08904	0.09002	0.13209	0.00196	0.05479	0.18787		0.00391		0.05186	0.10274	0.00391	0.33855	0.00098	0.14090		0.00196
13.2																				0.17515		
13.3																				0.00098		
14.0	0.06458	0.10372	0.15948	0.39823	0.0636	0.08415	0.00978	0.19767		0.00685	0.05675		0.07926		0.00587	0.01076		0.25539		0.27493		0.01468
14.2								0.00098												0.04305		
14.3		0.00098																				
15.0	0.46868	0.14384	0.0225	0.22114	0.00196	0.10665	0.00098	0.14481		0.00098	0.00978		0.07436					0.13405	0.01761	0.14188	0.00098	0.45499
15.2																				0.07339		
15.3		0.02838																				
16.0	0.2593	0.181	0.00098	0.05773		0.0773	0.00098	0.08708	0.02446		0.00196		0.38356					0.02446	0.03620	0.03033		0.39335
16.2																				0.02055		
16.3		0.04795	0.00098																			
17.0	0.12035	0.04207		0.01859		0.07339		0.17515	0.1135				0.27006					0.00489	0.09491	0.00098	0.00098	0.06458
17.2																					0.00098	
17.3		0.17319																	0.00881			
18.0	0.07534	0.00783		0.00098		0.04697		0.07339	0.08806				0.13601						0.17906		0.01370	0.00391
18.2																				0.00098	0.00196	
18.3		0.05186																	0.01174			
19.0	0.00294	0.00098				0.02935		0.04599	0.25245				0.04501						0.22701		0.06947	0.00098
19.1																			0.00098			
19.2																					0.00098	
19.3		0.00489																				
19.4																			0.00881			
20.0						0.03327		0.01663	0.14873				0.00587						0.23580		0.08317	
20.3		0.00098																	0.00196			
21.0						0.02838	0.00098	0.01076	0.03327				0.00196						0.05871		0.09883	
21.2																					0.00098	
22.0						0.00978		0.01272	0.07241										0.05284		0.11546	
22.2																					0.00098	
22.3																			0.00098			
23.0						0.00391		0.00391	0.15851										0.04012		0.11155	
23.1								0.00098														
23.2																					0.00196	
…																						

ALLELE	D3S1358	D1S1656	D2S441	D10S1248	D13S317	PENTA E	D16S539	D18S51	D2S1338	CSF1PO	PENTA D	TH01	vWA	D21S11	D7S820	D5S818	TPOX	D8S1179	D12S391	D19S433	FGA	D22S1045
24.0				0.00098		0.00098			0.07436	0.00098									0.01174		0.16730	
24.2																					0.00098	
25.0									0.01859					0.00196					0.00489		0.15850	
26.0									0.00881										0.00489		0.13014	
27.0									0.00489					0.00978					0.00098		0.03425	
28.0														0.06262							0.00391	
29.0														0.26027							0.00196	
29.2														0.00098								
30.0														0.28474							0.00098	
30.2														0.01663								
31.0														0.06360								
31.2														0.09687								
32.0														0.00587								
32.2														0.12133								
33.0														0.00196								
33.2														0.06556								
34.2														0.00489								
35.0														0.00196								
36.0														0.00098								

FORENSIC PARAMETERS

Forensic parameters of 22 autosomal STRs of Power Plex Fusion system in 733 Mexican-Mestizos from Peninsula of Yucatan, Mexico. PC, power of coincidence ; PD, power of discrimination; PIC, polymorphic information content; PE, power of exclusion; TPI, typical paternity index; MAF, minimum allele frequency; Ne, No. of effective alleles; He, observed heterozygosity; HWE, Hardy-Weinberg equilibrium; GD, gene diversity

	PC	PD	PIC	PE	TPI	MAF	NE	HE	HWE	NO. ALLELES	GD
D3S1358	0.1431	0.8569	0.6381	0.3488	1.4096	0.0038	3.152	0.6453	0.4518	9	1.39
D1S1656	0.0264	0.9736	0.8746	0.8242	5.8175	0.0047	8.723	0.9141	0.0079	18	2.33
D2S441	0.1534	0.8466	0.6322	0.3433	1.3935	0.0037	2.927	0.6412	0.5403	16	1.47
D10S1248	0.1286	0.8714	0.6706	0.4495	1.7452	0.0039	3.353	0.7135	0.1369	11	1.45
D13S317	0.0519	0.9481	0.8046	0.6133	2.5993	0.0042	5.795	0.8076	0.5103	11	1.88
PENTA E	0.0148	0.9852	0.9058	0.7963	5.0205	0.0046	11.359	0.9004	0.4534	25	2.68
D16S539	0.0839	0.9161	0.7415	0.546	2.1815	0.0041	4.473	0.7708	0.5261	12	1.65
D18S51	0.032	0.968	0.854	0.7136	3.5583	0.0044	7.576	0.8595	0.6639	16	2.2
D2S1338	0.0406	0.9594	0.8351	0.7001	3.3935	0.0044	6.726	0.8527	0.1349	13	2.1
CSF1PO	0.1168	0.8832	0.7016	0.4873	1.899	0.004	3.895	0.7367	0.3679	15	1.61
PENTA D	0.056	0.944	0.7997	0.676	3.1325	0.0043	5.672	0.8404	0.5832	17	1.89
TH01	0.0938	0.9062	0.685	0.467	1.8144	0.004	3.684	0.7244	0.4977	7	1.45
VWA	0.1039	0.8961	0.7065	0.485	1.8892	0.004	3.896	0.7353	0.4715	10	1.59
D21S11	0.0471	0.9529	0.822	0.6184	2.6367	0.0042	6.226	0.8104	0.2196	24	2.18
D7S820	0.0874	0.9126	0.7399	0.593	2.4597	0.0042	4.433	0.7967	0.9828	12	1.68
D5S818	0.1352	0.8648	0.6475	0.4259	1.6584	0.0039	3.157	0.6985	0.2817	9	1.46
TPOX	0.1298	0.8702	0.6714	0.4032	1.5797	0.0038	3.517	0.6835	0.1266	9	1.46
D8S1179	0.0781	0.9219	0.7521	0.568	2.305	0.0041	4.59	0.7831	0.1483	12	1.73
D12S391	0.0419	0.9581	0.8277	0.6733	3.1059	0.0043	6.464	0.839	0.4560	21	2.15
D19S433	0.0403	0.9597	0.8329	0.6787	3.1595	0.0043	6.63	0.8417	0.2662	23	2.17
FGA	0.0244	0.9756	0.8832	0.7629	4.3118	0.0045	9.335	0.884	0.0546	32	2.46
D22S1045	0.2065	0.7935	0.557	0.3045	1.286	0.0037	2.683	0.6112	0.1410	11	1.21