

Table S5. Spearman's rank correlations between measures of variation across individuals at the 138 microsatellites included in the H_e correlation analyses and interspecies comparisons.

Variable		Number of distinct alleles		Variance in the number of repeats		Range of the number of repeats		Mean PCR fragment size		Mean number of repeats		Maximum number of repeats		Minimum number of repeats		
		Chimp	Human	Chimp	Human	Chimp	Human	Chimp	Human	Chimp	Human	Chimp	Human	Chimp	Human	
Number of distinct alleles	Tri	ρ	—	—	0.610	0.515	0.706	0.823	0.219	0.050	0.657	0.189	0.690	0.397	0.275	-0.072
		P	—	—	2.73×10^{-4}	0.003	9.24×10^{-6}	7.42×10^{-7}	0.237	0.787	5.99×10^{-5}	0.307	1.78×10^{-5}	0.028	0.135	0.700
	Tetra	ρ	—	—	0.571	0.698	0.682	0.904	0.028	0.113	0.232	0.294	0.432	0.528	-0.088	0.046
		P	—	—	3.87×10^{-8}	8.70×10^{-13}	4.62×10^{-12}	$<10^{-16}$	0.806	0.321	0.040	0.009	6.93×10^{-5}	5.80×10^{-7}	0.438	0.689
Variance in the number of repeats	Tri	ρ	—	—	—	—	0.710	0.581	0.010	-0.194	0.454	-0.202	0.471	0.061	-0.091	-0.274
		P	—	—	—	—	7.78×10^{-6}	0.001	0.958	0.294	0.011	0.274	0.008	0.743	0.627	0.136
	Tetra	ρ	0.298	0.835	—	—	0.569	0.738	0.103	0.020	-0.036	-0.078	0.169	0.158	-0.293	-0.265
		P	0.190	5.13×10^{-8}	—	—	4.42×10^{-8}	8.89×10^{-15}	0.367	0.864	0.752	0.494	0.137	0.164	0.009	0.018
Range of the number of repeats	Tri	ρ	—	—	—	—	—	—	0.006	-0.125	0.511	0.231	0.795	0.490	0.079	-0.053
		P	—	—	—	—	—	—	0.975	0.500	0.003	0.211	9.45×10^{-8}	0.006	0.673	0.777
	Tetra	ρ	0.469	0.864	0.689	0.843	—	—	0.123	0.133	0.275	0.283	0.559	0.515	-0.191	-0.042
		P	0.032	$<10^{-16}$	5.46×10^{-4}	$<10^{-16}$	—	—	0.280	0.242	0.014	0.011	8.39×10^{-8}	1.22×10^{-6}	0.091	0.712
Mean PCR fragment size	Tri	ρ	—	—	—	—	—	—	—	—	-0.003	0.098	0.113	0.067	0.106	0.152
		P	—	—	—	—	—	—	—	—	0.989	0.600	0.544	0.721	0.571	0.413
	Tetra	ρ	0.084	0.143	-0.027	0.066	0.265	0.162	—	—	0.151	0.028	0.103	0.031	0.040	0.020
		P	0.717	0.535	0.908	0.776	0.245	0.480	—	—	0.184	0.805	0.367	0.784	0.727	0.860
Mean number of repeats	Tri	ρ	—	—	—	—	—	—	—	—	—	—	0.776	0.896	0.714	0.875
		P	—	—	—	—	—	—	—	—	—	—	2.84×10^{-7}	1.60×10^{-7}	6.38E-06	3.05E-07
	Tetra	ρ	-0.031	0.370	0.043	0.357	-0.032	0.566	0.013	0.069	—	—	0.857	0.915	0.747	0.864
		P	0.894	0.099	0.854	0.113	0.891	0.008	0.957	0.767	—	—	6.53×10^{-24}	0	2.56E-15	0
Maximum number of repeats	Tri	ρ	—	—	—	—	—	—	—	—	—	—	—	—	0.603	0.822
		P	—	—	—	—	—	—	—	—	—	—	—	—	3.27E-04	7.50E-07
	Tetra	ρ	0.224	0.486	0.561	0.483	0.565	0.684	-0.043	-0.027	0.690	0.970	—	—	0.644	0.763
		P	0.328	0.027	0.008	0.028	0.008	8.59×10^{-4}	0.853	0.908	5.39×10^{-4}	4.94×10^{-6}	—	—	1.50E-10	0
Minimum number of repeats	Tri	ρ	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		P	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Tetra	ρ	-0.312	-0.312	-0.179	-0.296	-0.429	-0.199	-0.256	-0.255	0.792	0.500	0.416	0.406	—	—
		P	0.168	0.169	0.437	0.192	0.052	0.386	0.263	0.264	1.89×10^{-5}	0.022	0.061	0.069	—	—

Spearman's rank correlation coefficients (ρ) and their associated P values are shown for comparisons of the measures of variation across individuals in the dataset for microsatellites with one (upper triangle) or two (lower triangle) STR regions embedded in their sequence. Microsatellites were grouped by their number of separate STR regions and repeat unit size. Sample sizes for loci with one STR region were 31 and 79 for tri- and tetra-nucleotides, respectively, and for loci with two separate STR regions they were 0 and 21, respectively. Correlations with $P < 0.05$ are shown in **bold**.