

Table S1. Age and sex correlation in four breeds and subpopulations in German shepherd

	Pearson's product-moment correlation				Welch Two sample t-test		
	Age correlation	Age p-value	Sex correlation	Sex p-value	subpop1 mean	subpop2 mean	p-value (difference)
GSD							
Five percentile groups	0.2024165	5.526e-06	0.02855347	0.5258	3.071942	2.802752	0.03555
Four percentile groups	0.1915557	1.745e-05	0.008781387	0.8453	2.553957	2.362385	0.06232
Three percentile groups	0.1800242	5.526e-05	0.005338612	0.9056	2.043165	1.908257	0.06754
Two percentile groups	0.2525495	3.541e-05	0.007779909	0.9003	0.5395683	0.4390244	0.105
GR							
Five percentile groups	0.3568886	3.302e-05	0.01597527	0.8367	no subpop		
Four percentile groups	0.3637513	2.262e-05	-0.01893164	0.807	no subpop		
Three percentile groups	0.3552561	3.608e-05	-0.03545191	0.6472	no subpop		
Two percentile groups	0.4542228	5.426e-05	-0.01550264	0.8802	no subpop		
LR							
Five percentile groups	0.5008708	1.732e-09	0.1129993	0.1822	no subpop		
Four percentile groups	0.5081548	9.182e-10	0.109205	0.1974	no subpop		
Three percentile groups	0.4356144	2.761e-07	0.07357515	0.3859	no subpop		
Two percentile groups	0.6270826	8.165e-09	0.1323422	0.2512	no subpop		
SP							
Five percentile groups	0.3016215	0.003133	0.03741546	0.7203	no subpop		
Four percentile groups	0.3035804	0.002935	0.006011288	0.9541	no subpop		
Three percentile groups	0.2745766	0.007402	0.006632365	0.9494	no subpop		
Two percentile groups	0.3720542	0.006083	-0.06609195	0.6382	no subpop		