

Supplementary

Genetic Characterization of Cleveland Bay Horse Breed

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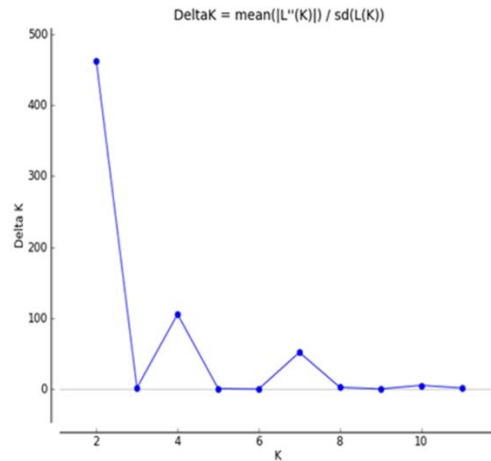


Figure S1: Delta_K distribution along of different values of clusters (K=2 to K=12) for 11 breeds.

Table S1: Genetic diversity indices for each breed. N: sample size. MNA: mean number of alleles, He: expected heterozygosity, Ho: observed heterozygosity. SD: Standard Deviation.

Breeds	N	MNA	He	Ho
Cleveland Bay	90	4.87	0.619	0.629
Akhal Teke	29	5.40	0.643	0.726
American Cream Draft	25	6.13	0.711	0.725
American Saddlebred	179	7.07	0.697	0.706
Andalusian	53	6.53	0.716	0.688
Arabian	95	6.80	0.695	0.643
Argentine Criollo	25	6.00	0.712	0.741
Belgian Draft	20	5.53	0.656	0.653
Brazilian Criollo	50	7.20	0.764	0.737
Breton	26	5.13	0.657	0.731
Campolino	60	7.47	0.734	0.731
Caspian Horse	57	8.27	0.776	0.775
Chilean Criollo	30	5.93	0.707	0.691
Clydesdale	32	4.40	0.582	0.602
Columbian Paso Fino	88	7.80	0.748	0.748
Connemara Pony	69	6.80	0.748	0.770
Dales Pony	86	6.13	0.688	0.713
Exmoor Pony	46	5.27	0.625	0.598
Fell Pony	55	5.87	0.717	0.722
Friesian	143	5.07	0.520	0.476
Garrano	37	7.53	0.775	0.747
Gotland Russ	73	5.67	0.646	0.643

Hackney Horse	26	5.47	0.653	0.672
Hackney Pony	30	5.67	0.659	0.667
Haflinger	46	5.67	0.660	0.658
Hanoverian	46	7.07	0.755	0.674
Highland Pony	28	5.33	0.663	0.683
Holsteiner	56	6.27	0.747	0.730
Icelandic Pony	38	6.00	0.688	0.709
Irish Draught	47	7.53	0.776	0.782
Kladruby Black	74	5.33	0.655	0.649
Kladruby Grey	87	5.80	0.678	0.642
Kurd	44	7.33	0.747	0.741
Lusitano	62	6.07	0.711	0.580
Mangalarga	30	6.47	0.741	0.707
Mangalarga Marchador	26	6.33	0.714	0.738
Miniature Horse	25	6.27	0.723	0.731
Missouri Fox Trotter	30	6.87	0.737	0.742
Morgan Horse	96	7.80	0.755	0.692
Mountain Pleasure Horse	75	7.67	0.758	0.752
Noriker	69	6.47	0.686	0.675
Norwegian Fjord	50	5.80	0.664	0.688
Pantaneiro	25	6.67	0.739	0.774
Percheron	38	6.53	0.683	0.684
Peruvian Paso	46	7.33	0.743	0.762
Polish Heavy Horse	69	6.73	0.719	0.758
Posavina	27	6.53	0.713	0.743
Puerto Rican Paso Fino	67	7.07	0.693	0.702
Quarter Horse	77	7.93	0.751	0.690
Rocky Mountain Horse	45	7.07	0.736	0.719
Selle Francais	42	6.27	0.722	0.645
Shetland Pony	56	6.07	0.677	0.646
Shire	32	5.40	0.654	0.685
Standardbred	261	7.27	0.715	0.697
Suffolk Punch	50	5.47	0.704	0.735
Tennessee Walker	55	6.53	0.660	0.645
Throughbred	139	5.67	0.708	0.651
Trakhener	42	6.07	0.726	0.766
Turkoman	82	8.20	0.762	0.772
Welsh Pony	31	6.87	0.737	0.740
Average	-	6.35	0.798	0.696
SD	-	0.92	0.051	0.058