



Supplement of

The genetic diversity and structure of the Haflinger horse population in the Czech Republic

Michaela Kulišťáková et al.

Correspondence to: Tomáš Urban (urban@mendelu.cz)

The copyright of individual parts of the supplement might differ from the article licence.

Table S1. Diversity characteristics of individual microsatellites in Austrian subpopulation

AUT	N	A	Ar	H_o	H_e	HWE	F_{is}	PIC
AHT4	59	7	3.79	0.86	0.75	0.144	-0.157	0.699
AHT5	58	7	4.17	0.79	0.77	0.495	-0.030	0.717
HMS1	49	5	2.4	0.65	0.57	0.841	-0.153	0.472
HMS2	58	7	3.57	0.71	0.71	0.990	0.003	0.652
HMS3	59	6	3.81	0.80	0.71	0.968	-0.129	0.649
HMS6	59	5	3.06	0.71	0.65	0.803	-0.090	0.574
HMS7	59	5	3.22	0.58	0.70	0.663	0.171	0.620
HTG4	58	6	3.04	0.59	0.65	0.122	0.101	0.546
HTG6	58	5	1.59	0.17	0.16	1.000	-0.070	0.057
HTG7	58	5	3.22	0.67	0.66	0.991	-0.022	0.586
HTG10	58	7	3.88	0.81	0.75	0.661	-0.076	0.695
VHL20	58	9	4.78	0.84	0.84	1.000	-0.003	0.817
ASB2	55	6	3.47	0.84	0.73	0.694	-0.152	0.667
ASB17	46	9	4.04	0.89	0.81	0.917	-0.105	0.781
ASB23	46	7	3.51	0.80	0.74	0.992	-0.087	0.645
CA425	40	5	2.82	0.65	0.70	0.979	0.070	0.646

Table S2. Diversity characteristics of individual microsatellites in Czech subpopulation

CZE	N	A	Ar	H_o	H_e	HWE	F_{is}	PIC
AHT4	359	6	3.82	0.74	0.75	0.795	0.021	0.711
AHT5	358	8	3.75	0.79	0.73	0.670	-0.083	0.680
HMS1	355	5	2.23	0.54	0.52	0.369	-0.026	0.419
HMS2	359	8	3.72	0.78	0.73	0.634	-0.073	0.685
HMS3	359	9	4.02	0.79	0.72	0.361	-0.093	0.675
HMS6	359	5	3.37	0.70	0.69	0.232	-0.017	0.633
HMS7	359	7	3.46	0.70	0.72	1.000	0.028	0.664
HTG4	359	6	3.00	0.61	0.62	0.905	0.020	0.554
HTG6	359	5	1.70	0.18	0.17	0.917	-0.055	0.168
HTG7	359	5	3.10	0.63	0.61	0.987	-0.021	0.560
HTG10	359	8	3.63	0.72	0.70	0.959	-0.035	0.640
VHL20	359	9	4.74	0.85	0.84	0.998	-0.017	0.814
ASB2	355	8	3.66	0.79	0.73	0.528	-0.074	0.682
ASB17	342	12	4.24	0.82	0.78	0.456	-0.053	0.755
ASB23	342	11	4.00	0.81	0.77	0.001	-0.059	0.721
CA425	342	5	3.37	0.73	0.71	0.989	-0.034	0.652

Table S3. Diversity characteristics of individual microsatellites in Germany subpopulation

GER	N	A	Ar	H_o	H_e	HWE	F_{is}	PIC
AHT4	17	6	4.00	0.88	0.78	1.000	-0.136	0.741
AHT5	17	6	3.17	0.65	0.55	1.000	-0.172	0.527
HMS1	17	4	2.74	0.65	0.60	1.000	-0.075	0.520
HMS2	17	5	3.33	0.65	0.70	0.119	0.070	0.643
HMS3	17	6	3.61	0.65	0.73	0.294	0.118	0.690
HMS6	17	4	2.93	0.71	0.63	0.364	-0.118	0.567
HMS7	17	5	3.18	0.59	0.69	0.477	0.144	0.628
HTG4	17	5	2.82	0.65	0.58	0.031	-0.120	0.508
HTG6	17	3	1.44	0.12	0.11	1.000	-0.046	0.109
HTG7	17	5	3.40	0.71	0.67	0.425	-0.057	0.608
HTG10	17	6	4.10	0.76	0.79	0.999	0.026	0.755
VHL20	17	8	4.70	0.82	0.83	1.000	0.010	0.812
ASB2	17	5	3.52	0.65	0.74	0.576	0.128	0.698
ASB17	10	6	2.93	0.70	0.79	0.315	0.114	0.759
ASB23	10	6	3.17	1.00	0.77	0.075	-0.299	0.708
CA425	10	5	2.74	0.80	0.73	0.295	-0.103	0.674

Table S4. Diversity characteristics of individual microsatellites in Italian subpopulation

ITA	N	A	Ar	H_o	H_e	HWE	F_{is}	PIC
AHT4	4	4	3.27	0.75	0.66	0.330	-0.143	0.605
AHT5	4	5	3.96	1.00	0.75	0.000	-0.333	0.671
HMS1	4	2	1.93	0.50	0.38	1.000	-0.333	0.305
HMS2	4	5	3.87	0.75	0.75	0.000	0.000	0.712
HMS3	4	4	3.28	0.75	0.66	0.326	-0.143	0.605
HMS6	4	4	3.26	0.75	0.66	0.339	-0.143	0.536
HMS7	4	4	3.01	0.50	0.66	0.322	0.238	0.536
HTG4	4	3	2.92	1.00	0.66	1.000	-0.524	0.582
HTG6	4	1	1.00	0.00	0.00	-	-	0.000
HTG7	4	2	2.00	1.00	0.50	0.318	-1.000	0.375
HTG10	4	6	4.32	0.75	0.78	0.000	0.040	0.754
VHL20	4	6	4.29	0.75	0.81	0.000	0.0767	0.786
ASB2	4	5	3.92	1.00	0.75	0.000	-0.333	0.671
ASB17	4	5	3.64	0.50	0.75	0.000	0.333	0.712
ASB23	4	4	3.26	0.75	0.66	0.000	-0.143	0.346
CA425	4	5	3.89	0.75	0.78	1.000	0.040	0.671

Table S5. Diversity characteristics of individual microsatellites in Slovak subpopulation

SVK	N	A	Ar	H_o	H_e	HWE	F_{is}	PIC
AHT4	4	2	2.00	0.50	0.5	1.000	0.000	0.375
AHT5	4	3	2.35	0.50	0.41	1.000	-0.231	0.371
HMS1	4	2	1.93	0.50	0.38	1.000	-0.333	0.305
HMS2	4	4	3.28	0.75	0.66	0.359	-0.143	0.605
HMS3	4	4	3.03	0.75	0.56	1.000	-0.333	0.524
HMS6	4	2	1.93	0.25	0.47	0.335	0.467	0.359
HMS7	4	4	3.53	1.00	0.72	1.000	-0.391	0.593
HTG4	4	3	2.66	0.75	0.59	0.313	-0.263	0.346
HTG6	4	2	1.67	0.25	0.22	1.000	-0.143	0.000
HTG7	4	3	2.93	1.00	0.66	1.000	-0.524	0.581
HTG10	3	4	3.00	0.67	0.67	0.000	0.000	0.305
VHL20	4	4	3.26	0.75	0.66	0.000	-0.143	0.605
ASB2	4	4	3.29	1.00	0.66	0.311	-0.524	0.605
ASB17	4	5	4.16	1.00	0.78	1.000	-0.280	0.746
ASB23	4	4	3.54	1.00	0.72	1.000	-0.391	0.593
CA425	4	3	2.88	0.75	0.62	1.000	-0.200	0.555