

Genomic Microsatellites as Evolutionary Chronometers: A Test in Wild Cats

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Table 1

Genetic distances among populations of exotic felids and the domestic cat

	GIR	NGC	SER	KRU	ETO	KAL	BCS	IDO	SA	EA	WNM	CNM	DOM
A.													
GIR		0.621	0.606	0.638	0.612	0.634	0.933	0.939	0.931	0.930	0.921	0.925	0.941
NGC	0.636		0.236	0.409	0.452	0.402	0.918	0.871	0.868	0.903	0.876	0.905	0.871
SER	0.625	0.496		0.353	0.413	0.367	0.909	0.867	0.844	0.889	0.872	0.891	0.846
KRU	0.654	0.583	0.564		0.353	0.306	0.919	0.905	0.845	0.897	0.894	0.905	0.847
ETO	0.632	0.581	0.570	0.531		0.331	0.904	0.911	0.869	0.920	0.905	0.927	0.872
KAL	0.651	0.579	0.578	0.540	0.525		0.923	0.897	0.860	0.896	0.874	0.893	0.855
BCS	0.940	0.934	0.930	0.945	0.927	0.948		0.471	0.718	0.918	0.922	0.922	0.878
IDO	0.949	0.914	0.918	0.945	0.940	0.941	0.513		0.651	0.848	0.872	0.876	0.836
SA	0.948	0.937	0.938	0.945	0.939	0.948	0.774	0.785		0.773	0.801	0.798	0.705
EA	0.942	0.954	0.954	0.954	0.959	0.954	0.938	0.921	0.910		0.379	0.385	0.783
WNM	0.935	0.933	0.942	0.948	0.948	0.940	0.939	0.930	0.917	0.592		0.184	0.800
CNM	0.936	0.954	0.954	0.955	0.956	0.950	0.942	0.933	0.918	0.599	0.510		0.806
DOM	0.959	0.937	0.937	0.930	0.933	0.938	0.913	0.921	0.913	0.898	0.916	0.921	
Dkf													
B.													
GIR		1.334	1.256	1.630	1.602	1.492	5.591	5.358	4.446	4.975	4.835	4.808	5.190
NGC	7.430		0.092	0.563	0.638	0.507	5.084	4.667	3.933	4.399	4.347	4.326	4.258
SER	7.403	0.735		0.316	0.441	0.366	4.929	4.520	3.771	4.161	4.144	4.112	3.973
KRU	12.314	5.078	3.370		0.245	0.170	4.949	4.541	3.754	4.065	4.060	4.029	3.931
ETO	13.465	5.323	4.160	1.404		0.192	4.916	4.554	3.938	4.406	4.315	4.269	4.164
KAL	11.836	4.905	3.878	1.210	0.987		4.941	4.589	3.865	4.281	4.224	4.187	4.154
BCS	49.807	49.086	47.845	46.950	47.664	48.081		0.612	1.102	3.615	3.716	3.709	3.582
IDO	49.171	47.449	45.970	44.823	45.092	46.492	3.096		0.919	2.990	3.092	3.059	3.173
SA	43.607	42.361	40.861	39.927	42.159	41.547	6.663	6.511		2.348	2.433	2.416	2.297
EA	48.217	45.690	44.024	41.011	44.498	44.767	28.038	24.274	22.361		0.218	0.219	3.234
WNM	47.708	46.213	44.691	41.783	44.676	45.255	28.455	24.975	22.872	0.850		0.000	3.362
CNM	46.944	45.154	43.623	40.743	43.463	44.081	28.484	24.696	23.065	0.899	0.234		3.308
DOM	59.732	49.337	47.746	46.559	51.195	50.600	45.134	43.398	31.228	40.611	42.264	42.028	
($\delta\mu$)²													
C.													
GIR		0.497	0.450	0.503	0.505	0.494	0.930	0.931	0.891	0.915	0.904	0.905	0.919
NGC	0.946		0.056	0.235	0.281	0.220	0.903	0.852	0.830	0.914	0.873	0.912	0.844
SER	0.808	0.091		0.151	0.218	0.169	0.890	0.850	0.824	0.907	0.885	0.908	0.833
KRU	0.887	0.275	0.175		0.163	0.114	0.915	0.902	0.845	0.909	0.899	0.910	0.819
ETO	1.005	0.358	0.266	0.218		0.143	0.894	0.899	0.841	0.924	0.905	0.918	0.838
KAL	0.865	0.257	0.188	0.142	0.195		0.920	0.894	0.854	0.908	0.881	0.901	0.837
BCS	1.976	1.125	1.021	1.064	1.164	1.051		0.300	0.491	0.902	0.904	0.907	0.818
IDO	1.416	0.819	0.747	0.799	0.883	0.781	0.577		0.439	0.854	0.873	0.877	0.809
SA	0.855	0.483	0.432	0.456	0.511	0.449	0.518	0.335		0.740	0.763	0.762	0.668
EA	1.202	0.736	0.671	0.690	0.771	0.676	1.013	0.737	0.393		0.177	0.183	0.728
WNM	1.200	0.719	0.664	0.690	0.768	0.668	1.021	0.753	0.405	0.187		0.007	0.777
CNM	1.206	0.732	0.667	0.687	0.766	0.668	1.025	0.750	0.397	0.191	0.034		0.786
DOM	0.935	0.520	0.465	0.474	0.542	0.472	0.740	0.538	0.243	0.415	0.439	0.434	
Fst													
A. Dkf below diagonal, Dps above.													
B. ($\delta\mu$)² below diagonal, Dsw above.													
C. Fst below diagonal, Gst' above													

Abbreviations are as follows: GIR, Gir Forest lions; NGC, Ngorongoro Crater lions; SER, Serengeti Park lions; ETO, Etosha Park lions; KAL, Kalahari-Gemsbok Park lions; KRU, Kruger Park lions; EA, East African cheetahs; CNM, captive Namibian cheetahs; WNM, wild Namibian cheetahs; BCS, Big Cypress Swamp Floridapumas; IDO, Idaho pumas; SA, South American pumas; DOM, domestic cats.