

Pedigree reconstruction and population structure using SNP markers in Gir cattle

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Online Resource 4 Linkage disequilibrium observed through different inter-marker distances in Gir cattle.

Distance (Kb)	Number of pairs of markers	r ² mean ± sd ¹	r ² median	% r ² > 0.3
0 – 1	47611	0.3870 ± 0.3566	0.2545	46.13
1 – 5	424702	0.3666 ± 0.3509	0.2275	43.68
5 – 10	458809	0.3506 ± 0.3434	0.2117	41.87
10 – 15	445668	0.3205 ± 0.3311	0.1806	38.27
15 – 20	434283	0.2972 ± 0.3202	0.1586	35.37
20 – 25	427257	0.2802 ± 0.3112	0.1434	33.36
25 – 30	422540	0.2646 ± 0.3025	0.1305	31.39
30 – 40	830067	0.2454 ± 0.2908	0.1161	28.88
40 – 50	817884	0.2249 ± 0.2764	0.1026	26.23
50 – 60	807588	0.2083 ± 0.2645	0.0917	23.94
60 – 70	798003	0.1946 ± 0.2533	0.0836	22.13
70 – 80	793752	0.1819 ± 0.2423	0.0769	20.45
80 – 90	789646	0.1719 ± 0.2337	0.0712	19.06
90 – 100	787392	0.1628 ± 0.2252	0.0667	17.71
100 – 120	1563713	0.1507 ± 0.2136	0.0609	16.00
120 – 140	1554374	0.1379 ± 0.2000	0.0554	14.14
140 – 160	1543415	0.1276 ± 0.1884	0.0511	12.62
160 – 180	1532258	0.1196 ± 0.1789	0.0479	11.48
180 – 200	1522126	0.1122 ± 0.1702	0.0449	10.44
200 – 220	1520179	0.1066 ± 0.1625	0.0429	9.58
220 – 250	2270877	0.1004 ± 0.1543	0.0406	8.65

250 – 275	1886106	0.0949 ± 0.1463	0.0387	7.84
275 – 300	1880176	0.0909 ± 0.1407	0.0374	7.25
300 – 350	3737296	0.0859 ± 0.1327	0.0357	6.49
350 – 400	3719133	0.0806 ± 0.1244	0.0340	5.71
400 – 500	7361193	0.0754 ± 0.1160	0.0322	4.96
500 – 600	7252905	0.0704 ± 0.1076	0.0305	4.27
600 – 700	7008507	0.0666 ± 0.1017	0.0291	3.74
700 – 800	6502810	0.0639 ± 0.0969	0.0280	3.35
800 – 900	5655991	0.0619 ± 0.0940	0.0273	3.10
900 – 1000	4630488	0.0609 ± 0.0926	0.0268	2.99

¹sd = standard deviation