

## SUPPLEMENTARY TABLES

Supplementary Table 4. DMRs between pedigrees in muscle and testis.

Order	Tissue	Number	chr	Start	End
1	muscle	7	chr14	132993657	132994115
2	muscle	6	chr8	137555650	137556000
3	muscle	6	chr14	139325615	139325622
4	muscle	6	chr14	134435262	134435655
5	muscle	5	chr9	133567706	133568064
6	muscle	5	chr6	91043485	91043970
7	muscle	5	chr2	9089167	9089395
8	muscle	5	chr2	47019679	47019922
9	muscle	5	chr17	3180528	3180816
10	muscle	5	chr14	139177374	139177532
11	muscle	5	chr14	135865240	135865613
12	muscle	5	chr12	19603524	19604001
13	muscle	5	chr12	13733513	13733579
14	muscle	5	chr11	8690188	8690624
15	muscle	5	chr11	8539607	8539965
16	muscle	5	chr11	11704769	11704816
17	muscle	5	chr10	51583348	51583562
18	testis	9	chr9	212771	212893
19	testis	9	chr2	151574805	151575091
20	testis	7	chr4	106091605	106091699
21	testis	7	chr14	28641275	28641374
22	testis	7	chr11	77646658	77646933
23	testis	7	chr1	272100179	272100279
24	testis	6	chr6	28480020	28480147
25	testis	6	chr3	36920813	36921180
26	testis	6	chr15	56009163	56009234
27	testis	6	chr14	134435262	134435655
28	testis	6	chr14	133842967	133843194
29	testis	6	chr13	199879841	199880019
30	testis	6	chr13	145939217	145939337
31	testis	6	chr12	37030932	37031353
32	testis	6	chr11	51716401	51716819
33	testis	5	chr9	43645730	43646210
34	testis	5	chr9	133631712	133632099
35	testis	5	chr9	130114358	130114527
36	testis	5	chr8	25277540	25277627
37	testis	5	chr7	94740385	94740732
38	testis	5	chr7	4854047	4854157
39	testis	5	chr7	1120310	1120435
40	testis	5	chr6	81718383	81718863
41	testis	5	chr6	461361	461433
42	testis	5	chr6	43618518	43618845
43	testis	5	chr6	152254780	152255169
44	testis	5	chr5	93255108	93255188
45	testis	5	chr5	9054371	9054615
46	testis	5	chr5	83501529	83501851

47	testis	5	chr4	62328215	62328295
48	testis	5	chr4	41868339	41868461
49	testis	5	chr4	129351476	129351937
50	testis	5	chr3	1702150	1702289
51	testis	5	chr3	16255470	16255535
52	testis	5	chr3	110508569	110508776
53	testis	5	chr2	88990833	88990886
54	testis	5	chr2	6815401	6815852
55	testis	5	chr2	59295363	59295652
56	testis	5	chr2	39226566	39226744
57	testis	5	chr2	1658708	1658848
58	testis	5	chr2	140548352	140548438
59	testis	5	chr18	2505488	2505932
60	testis	5	chr17	9761541	9761933
61	testis	5	chr17	29865514	29865914
62	testis	5	chr16	49558122	49558191
63	testis	5	chr16	45044933	45045071
64	testis	5	chr16	3671532	3671693
65	testis	5	chr14	9907095	9907265
66	testis	5	chr14	73624262	73624403
67	testis	5	chr14	138098493	138098957
68	testis	5	chr14	136637468	136637968
69	testis	5	chr13	73621572	73621803
70	testis	5	chr13	207854405	207854841
71	testis	5	chr12	6090884	6091214
72	testis	5	chr12	4379572	4379698
73	testis	5	chr12	18924477	18924618
74	testis	5	chr12	13967609	13967737
75	testis	5	chr11	723913	723951
76	testis	5	chr11	5193167	5193383
77	testis	5	chr11	4588027	4588100
78	testis	5	chr11	11668788	11668941
79	testis	5	chr10	51629956	51630323
80	testis	5	chr10	20867433	20867532
81	testis	5	chr1	207728	207779

**Supplementary Table 5. Sample size, covariates and covariances in BGLMM.**

Analysis	Sample size	Covariate	Covariance
Ages (muscle)	8 (2 1Ys, 3 4Ys, and 3 9Ys)		relatedness
Ages (testis)	8 (2 1Ys, 3 4Ys, and 3 9Ys)		relatedness
Tissues	8 (muscle) vs 8 (testis)	ages	relatedness
Breeds	4 (LW) vs 8 (BMX)		
Pedigrees	2 (BMX) vs 5 (BMX)		
Genders	2 (male LW) vs 2 (female LW)		