

Figure 1

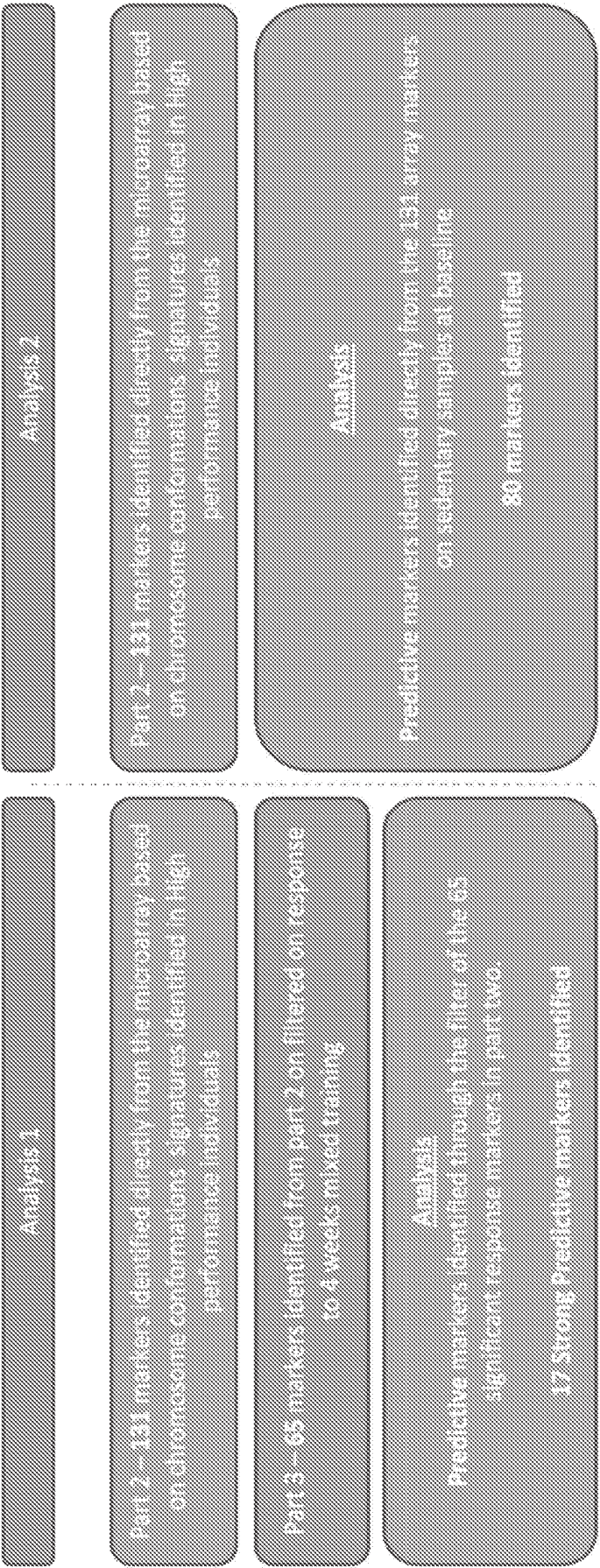


Figure 2

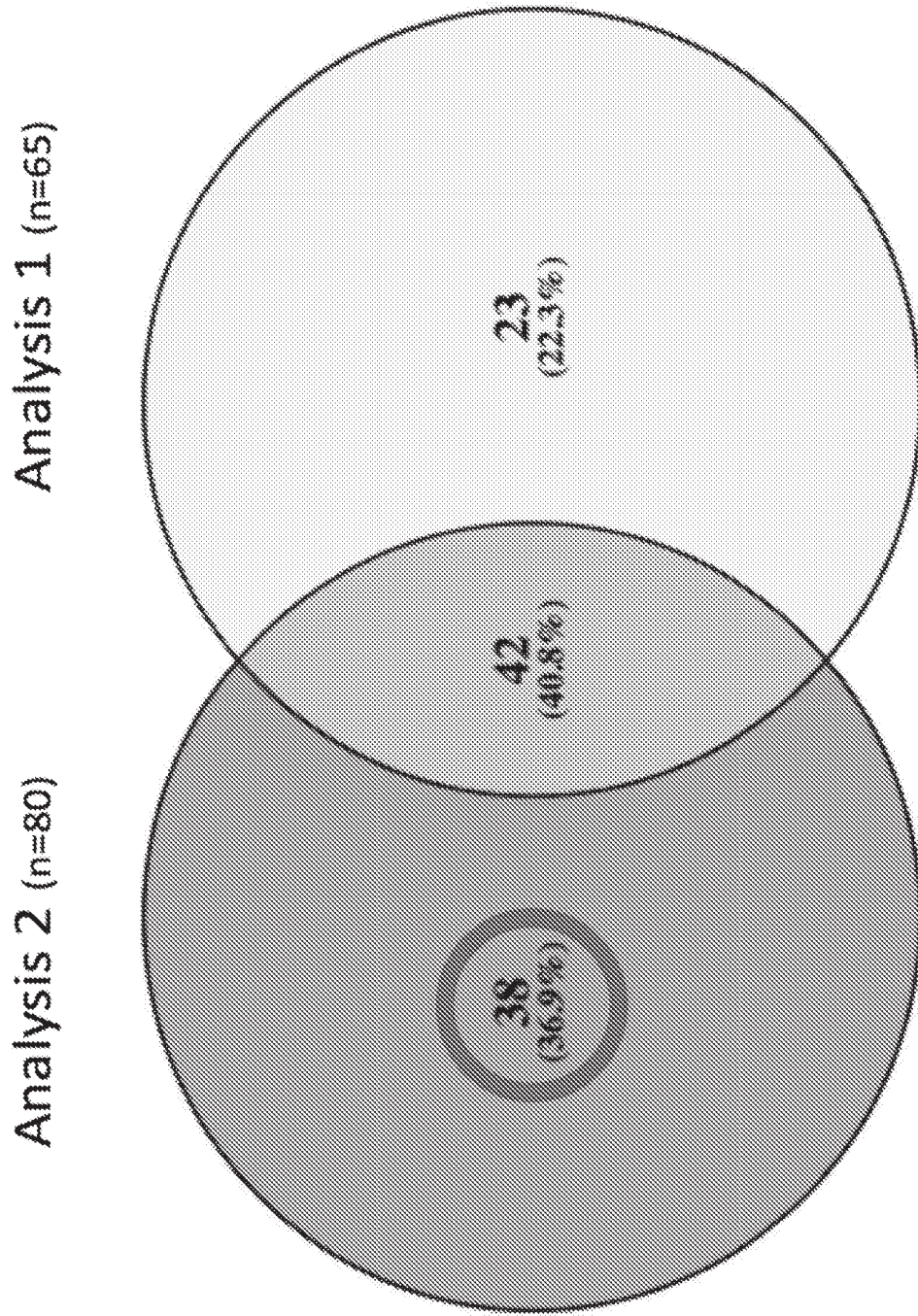


Figure 3

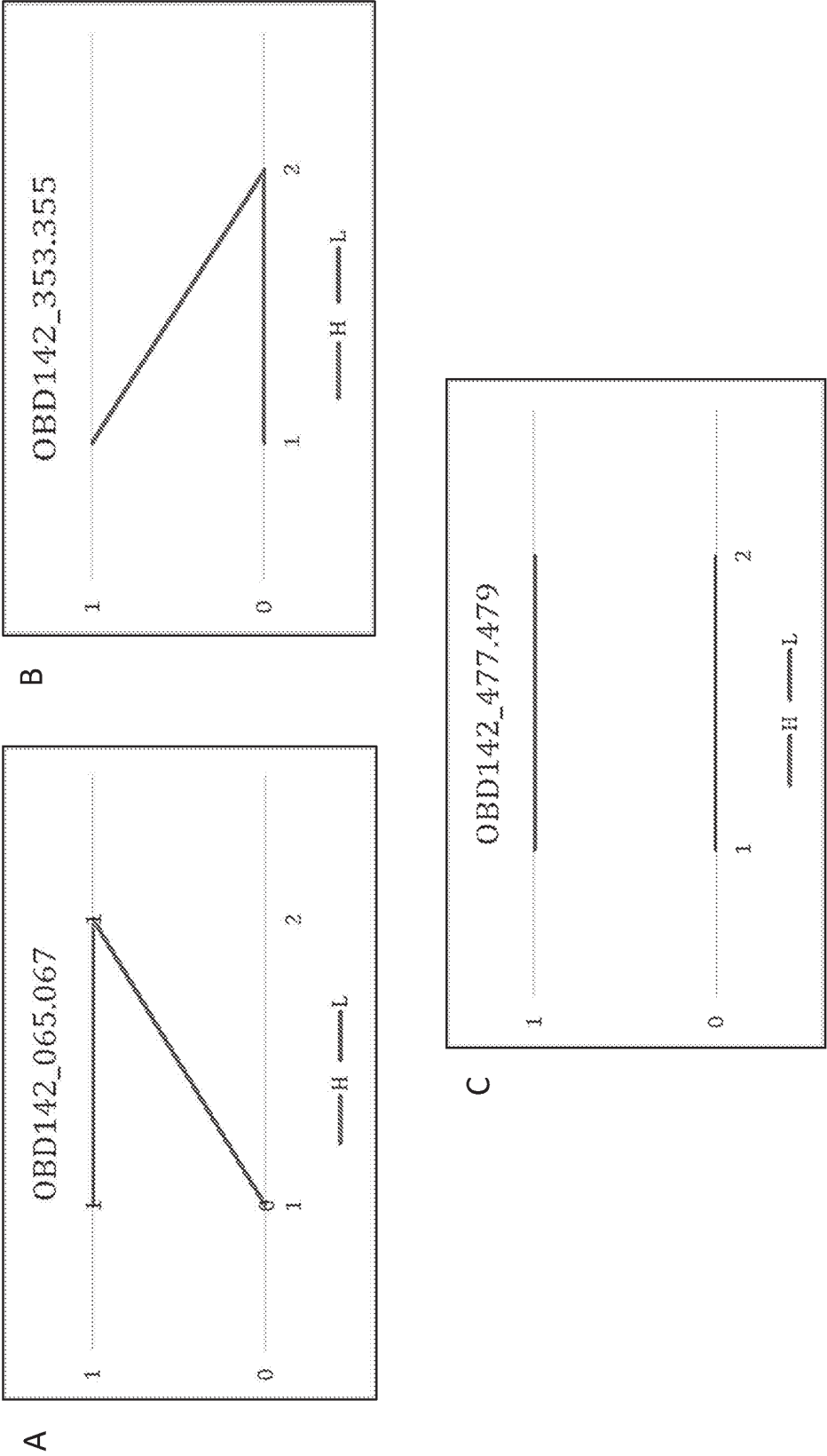


Figure 4

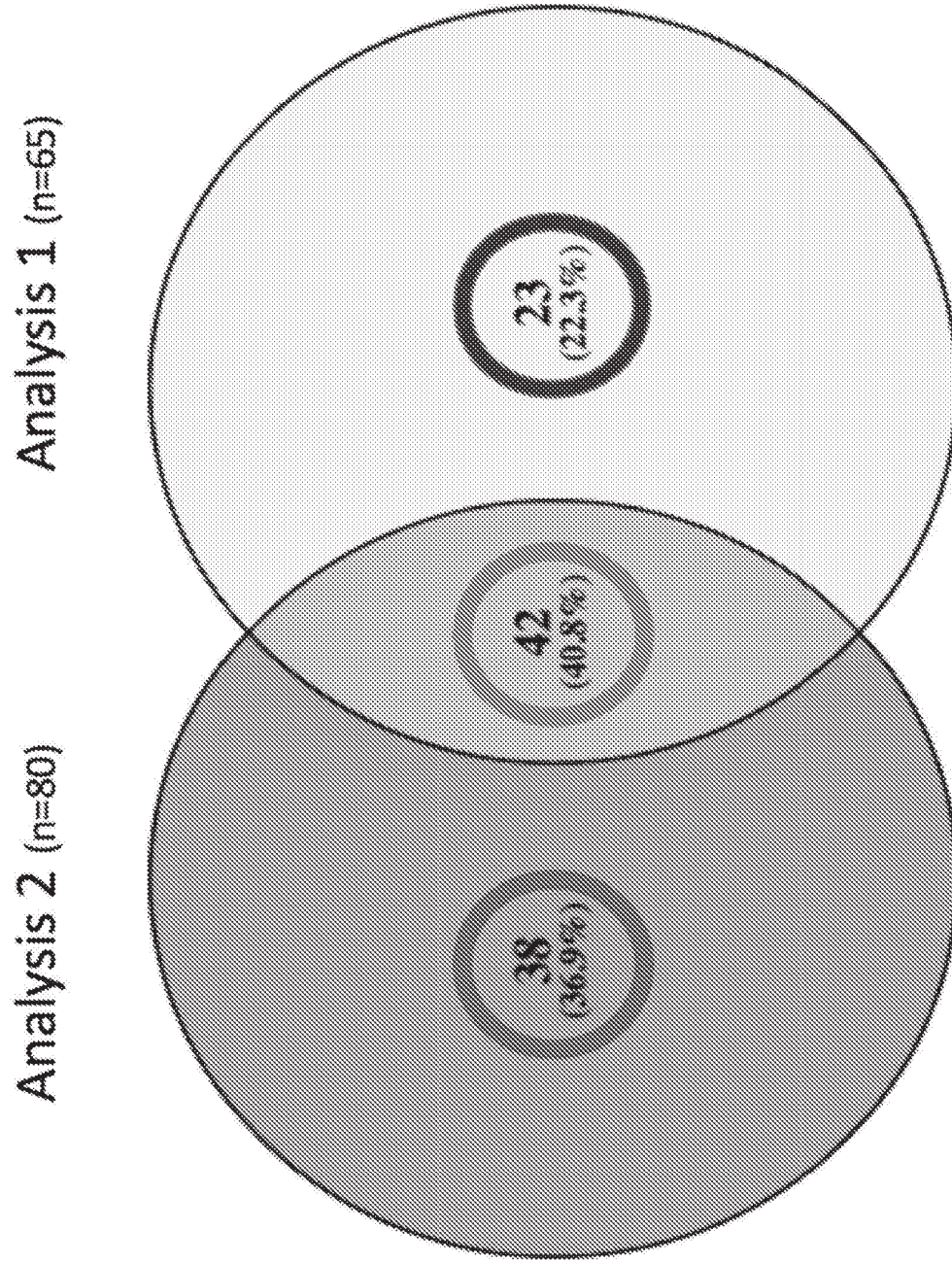


Figure 5

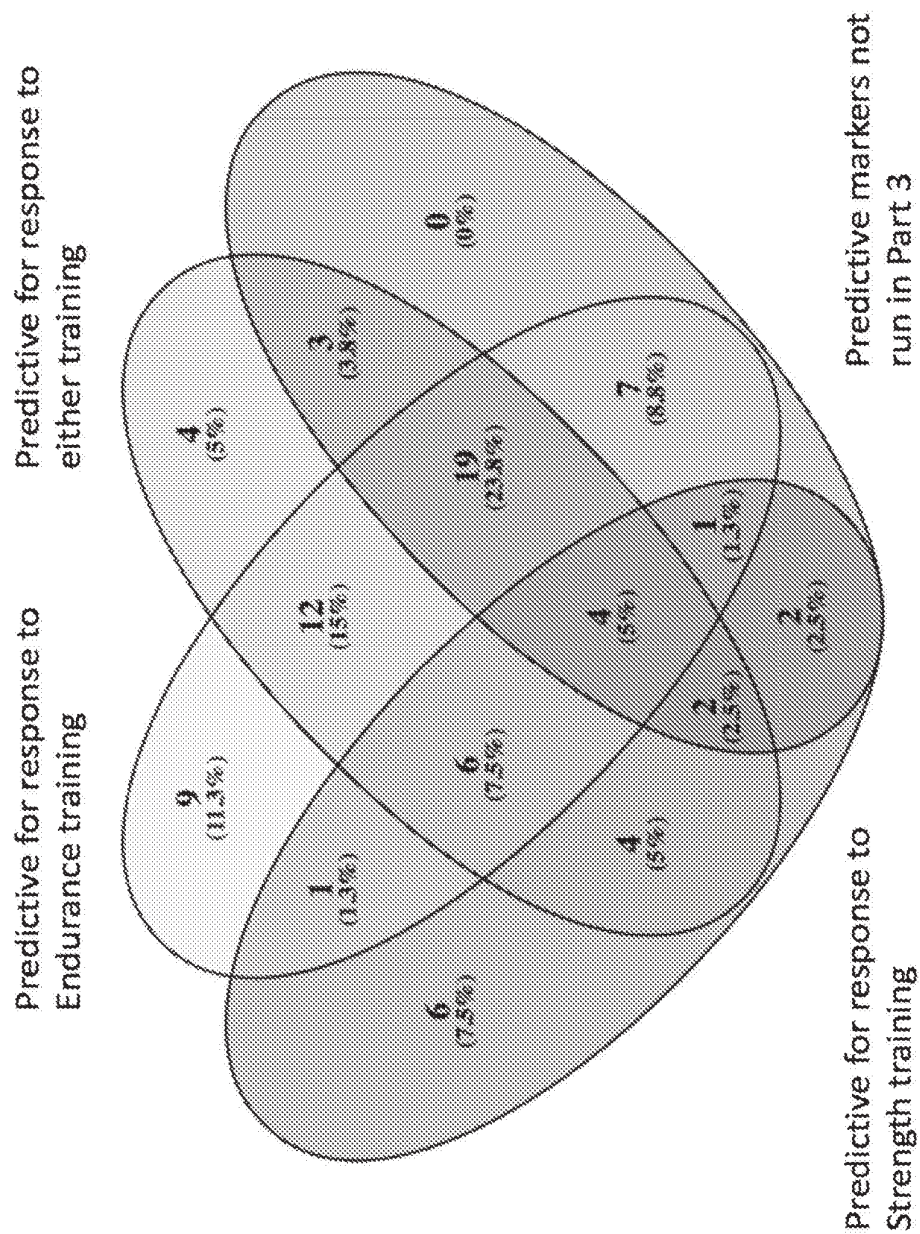


Figure 6

Confusion Matrix and Statistics	
	Reference
Prediction 0	1
0	15 1
1	1 15
Accuracy : 0.9375	
95% CI : (0.7919, 0.9923)	
No Information Rate : 0.5	
P-Value [Acc > NIR] : 1.232e-07	
Kappa : 0.875	
McNemar's Test P-Value : 1	
Sensitivity : 0.9375	
Specificity : 0.9375	
Pos Pred Value : 0.9375	
Neg Pred Value : 0.9375	
Prevalence : 0.5000	
Detection Rate : 0.4688	
Detection Prevalence : 0.5000	
Balanced Accuracy : 0.9375	
'Positive' Class : 0	

Figure 7

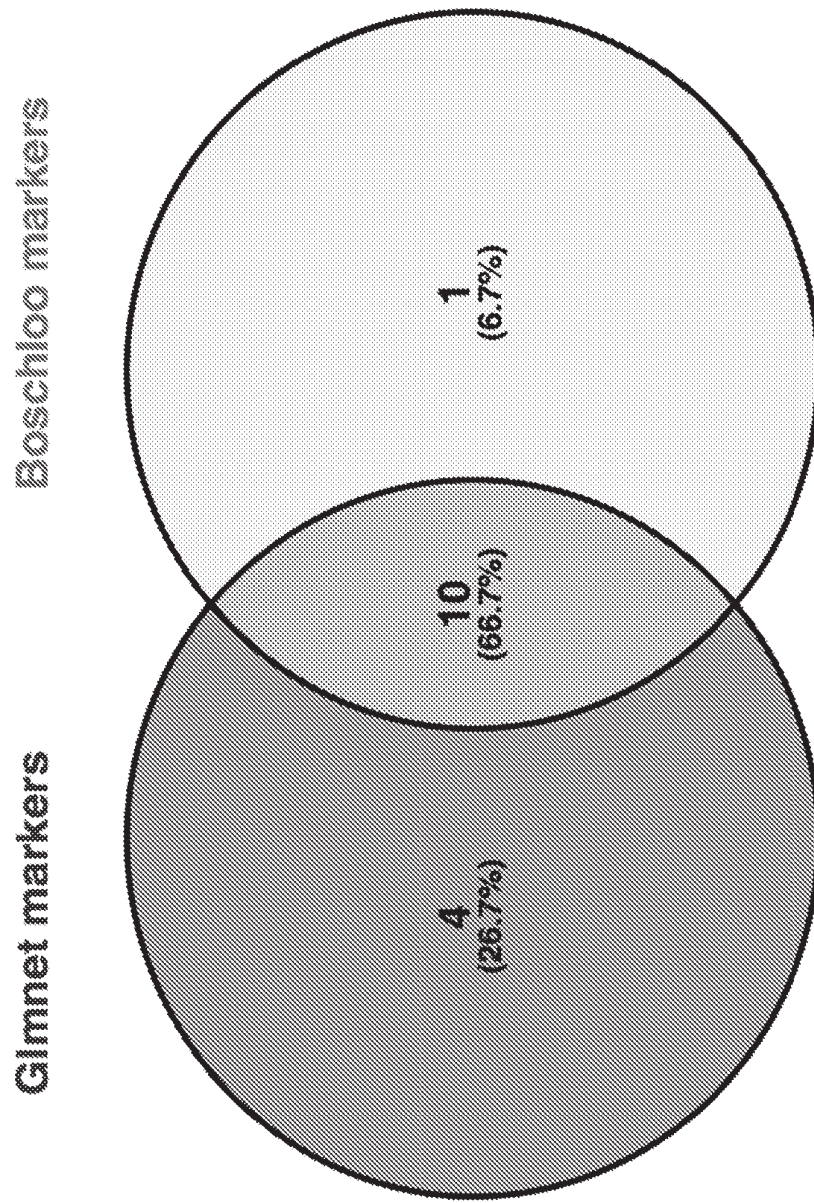


Figure 8

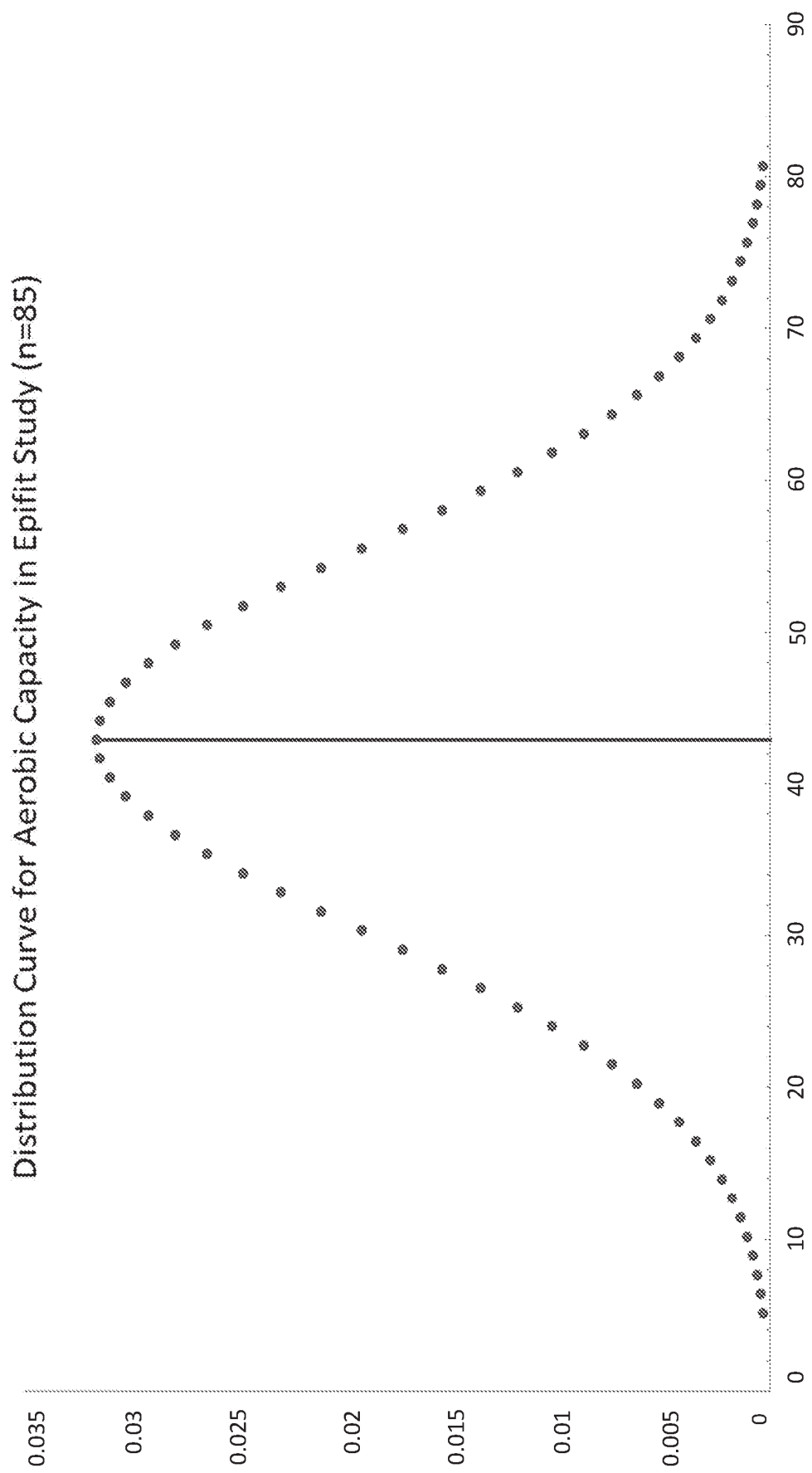


Figure 9

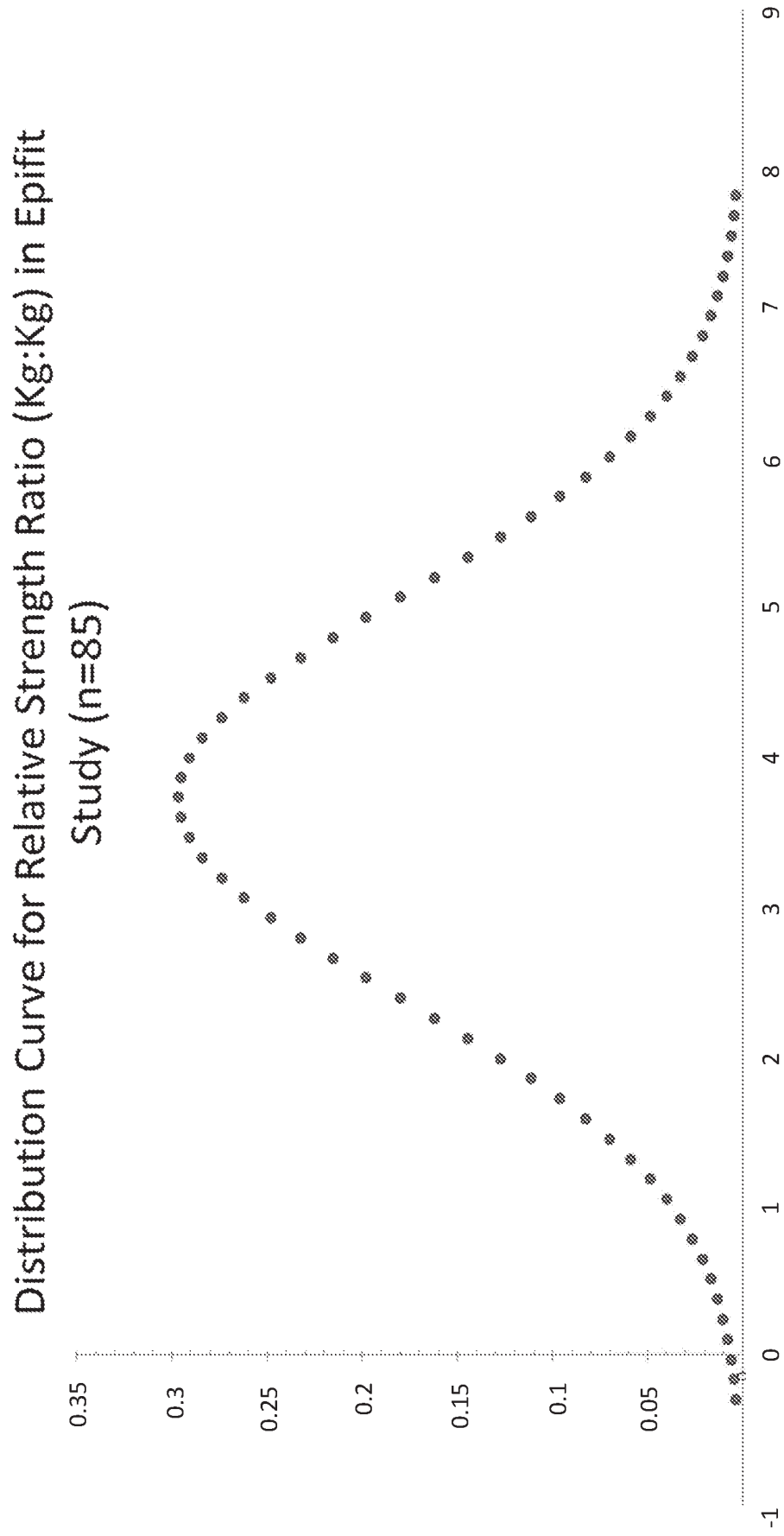


Figure 10

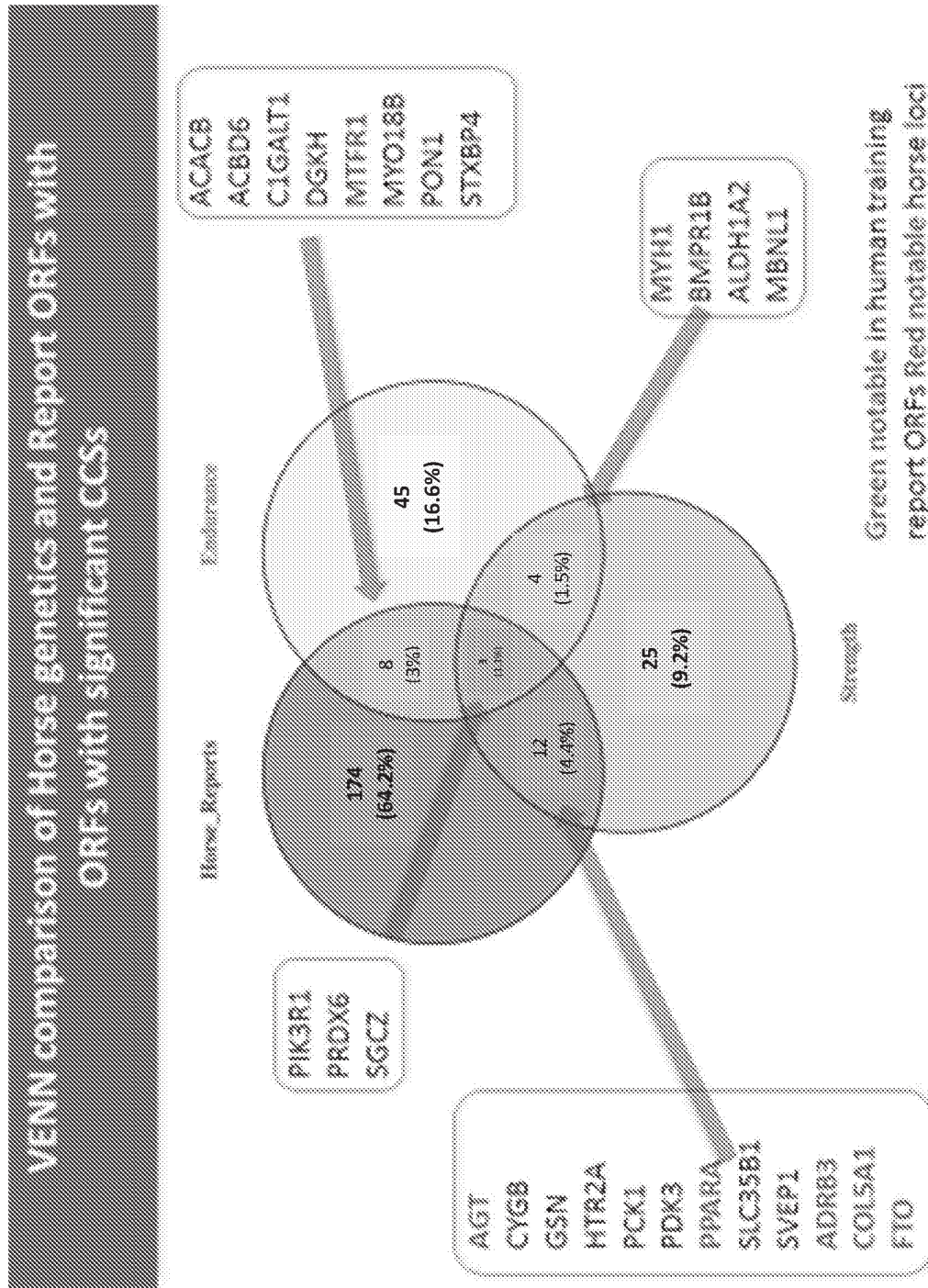
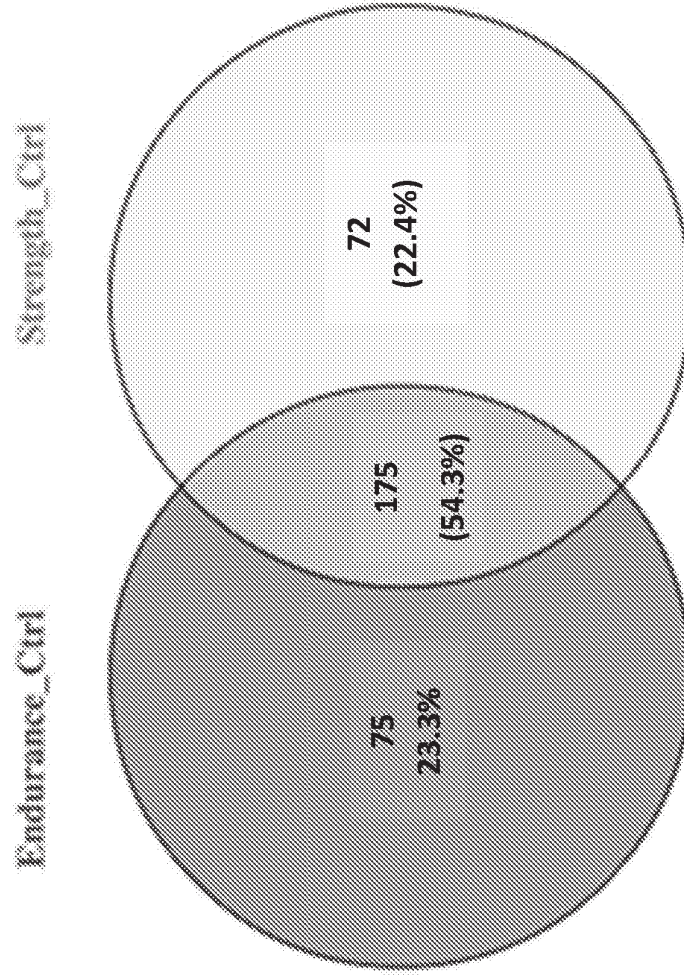


Figure 11

VENN diagram of the top 250 loops in sedentary subjects compared to the 2 athletic groups



This shows that 175 CCGs are shared in the sedentary subjects compared to the 2 athlete groups. These are loops present in sedentary but absent in training. There are 75 unique CCGs in the comparison to Endurance and 72 to strength

Figure 12

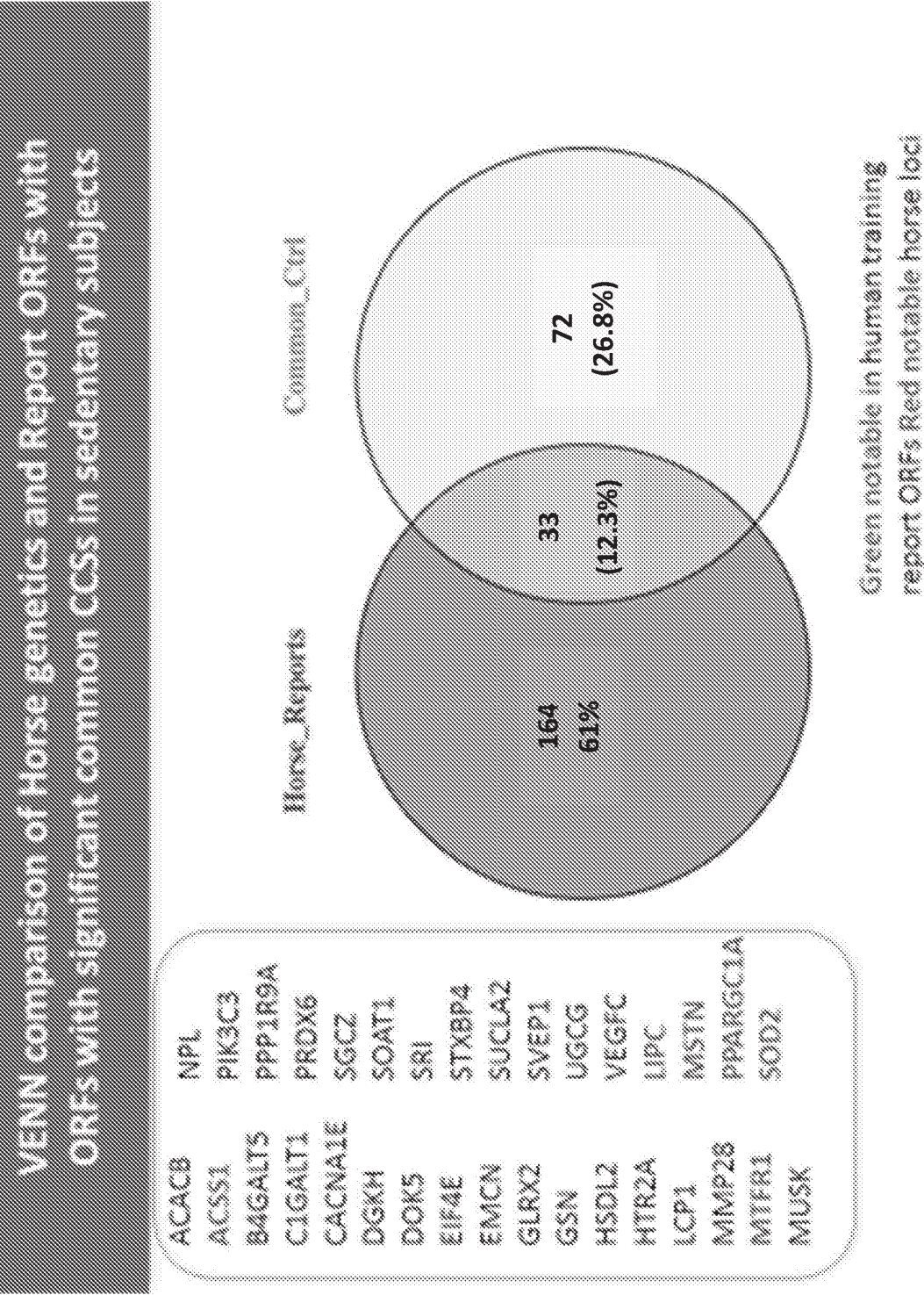


Figure 13

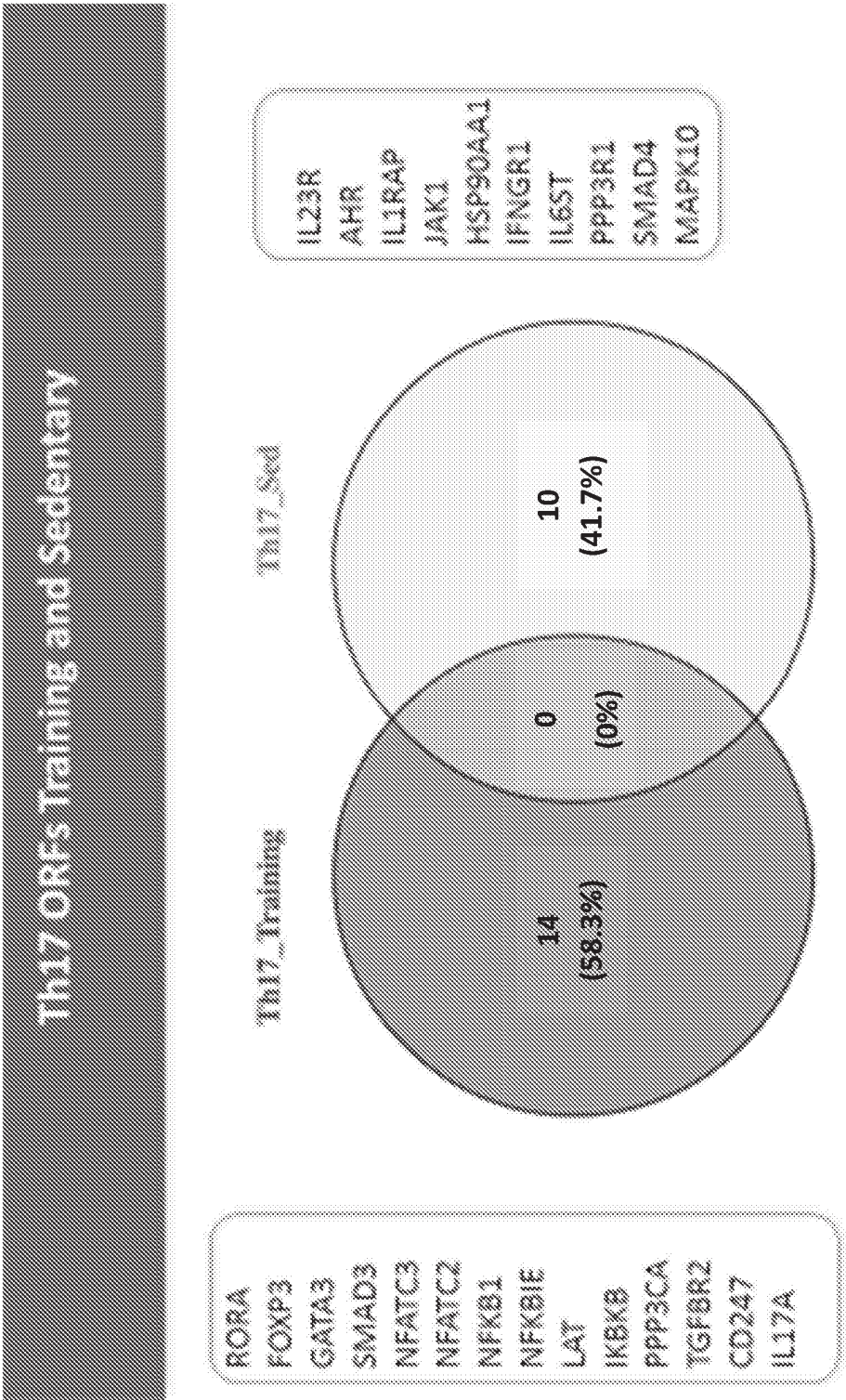


Figure 14

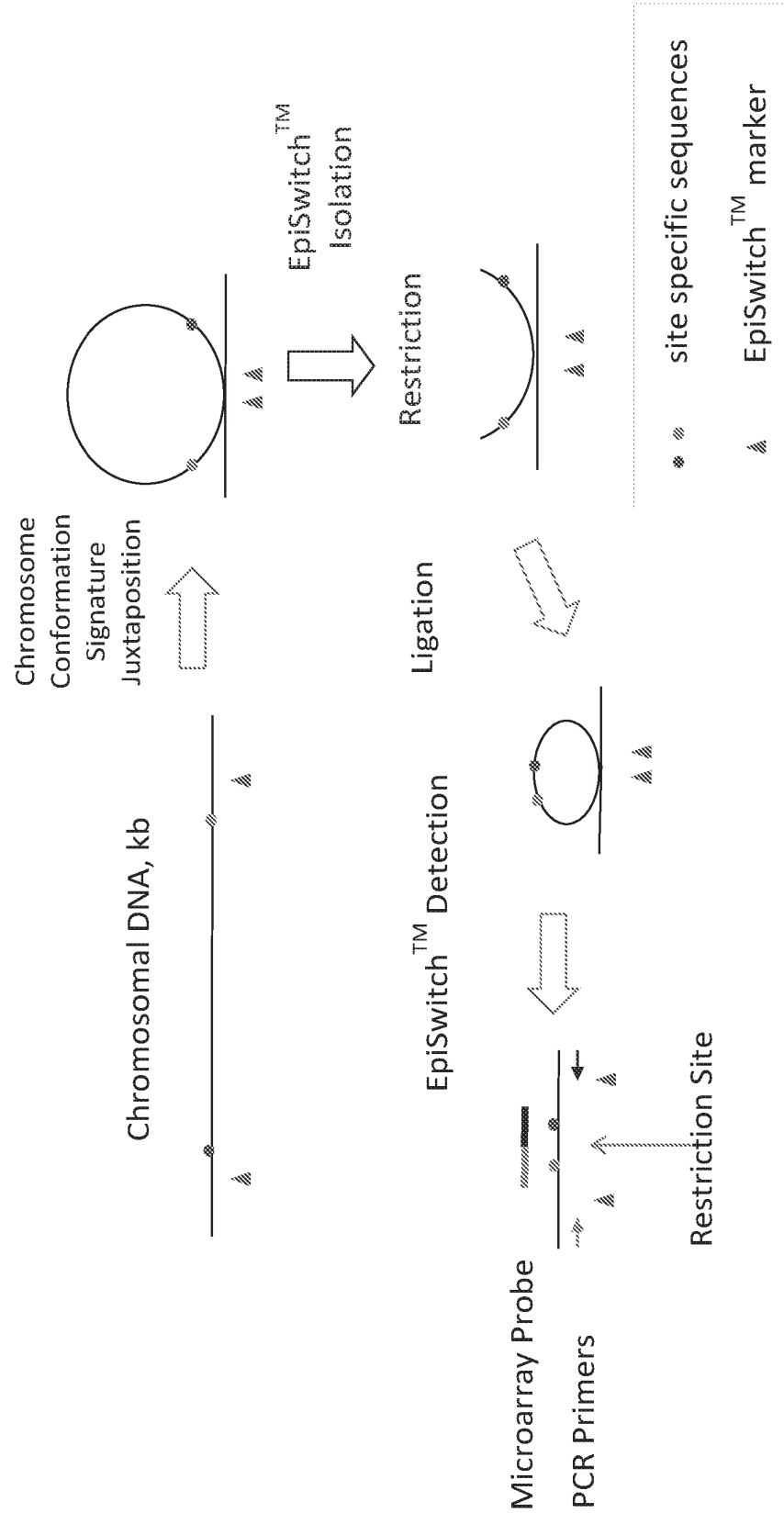


Figure 15

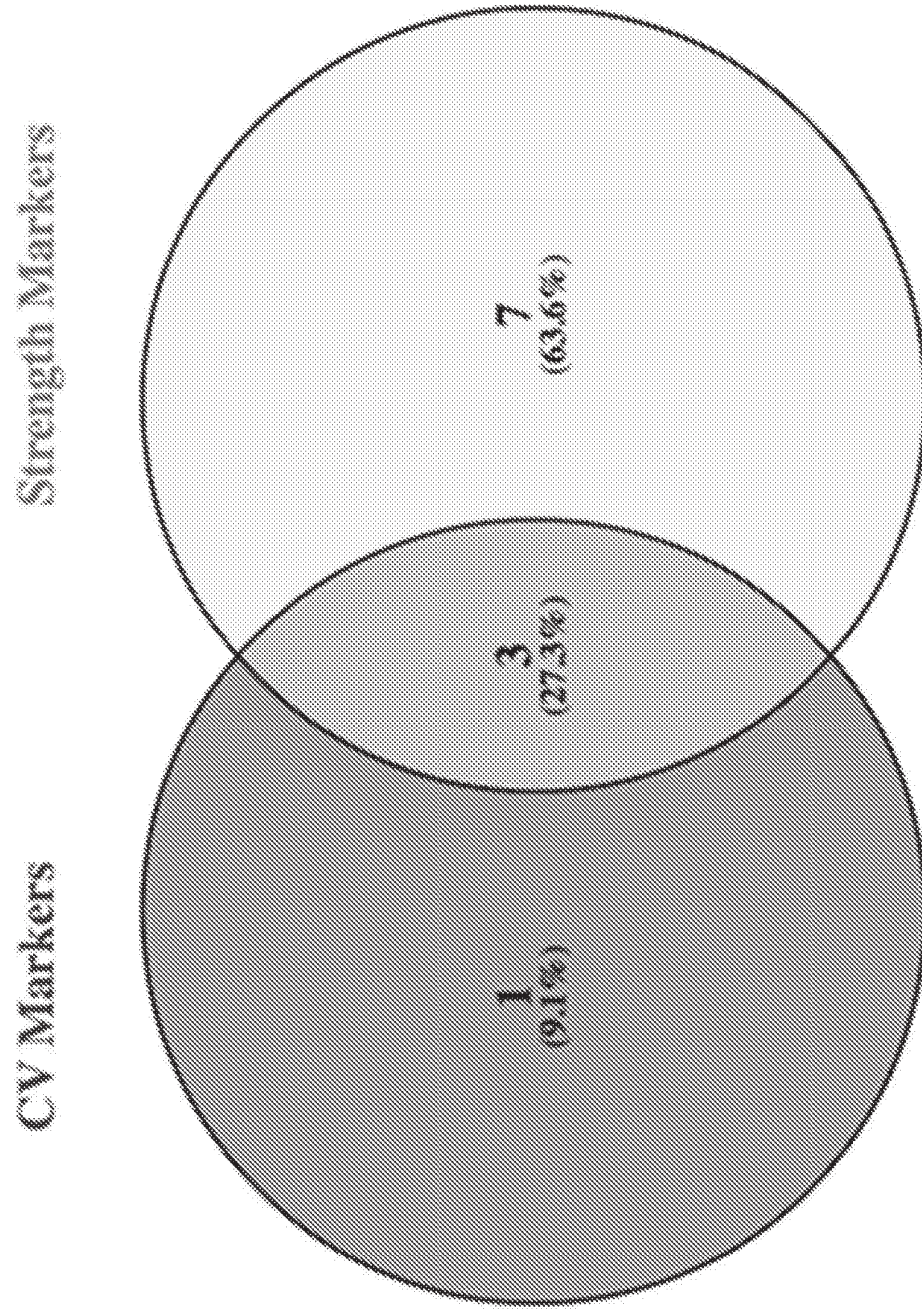


Figure 16

	A	B	C	D
1	Marker	Stats_CV	Stats_CS	Marker
2	OBD142_433.435	0.01290572	0.328290877	OBD142_433.435
3	OBD142_353.355	0.02356851	0.201245427	OBD142_353.355
4	OBD142_261.263	0.03096974	0.08554256	OBD142_261.263
5	OBD142_513.515	0.03583026	1	OBD142_513.515
6	OBD142_021.023	0.06817021	0.08653307	OBD142_021.023
7	OBD142_313.315	0.06915879	0.024329662	OBD142_313.315
8	OBD142_073.075	0.08839179	0.014782786	OBD142_073.075
9	Group_s2	0.08839179	0.077405989	Group_v2
10	OBD142_205.207	0.09164972	1	OBD142_205.207
11	OBD142_461.463	0.09164972	0.01770556	OBD142_461.463
12	OBD142_497.499	0.09164972	0.247600428	OBD142_497.499

Figure 17

I	A		B		C		D	
	Marker	Stats_CS	Stats_CV	Marker	Stats_CS	Stats_CV	Marker	Stats_CS
1	OBD142_073.075	0.014782786	0.08839179	OBD142_073.075	0.014782786	0.08839179	OBD142_073.075	0.014782786
2	OBD142_029.031	0.01770556	1	OBD142_029.031	0.01770556	1	OBD142_029.031	0.01770556
3	OBD142_461.463	0.01770556	0.09164972	OBD142_461.463	0.01770556	0.09164972	OBD142_461.463	0.01770556
4	OBD142_169.171	0.02169621	1	OBD142_169.171	0.02169621	1	OBD142_169.171	0.02169621
5	OBD142_429.431	0.023549199	1	OBD142_429.431	0.023549199	1	OBD142_429.431	0.023549199
6	OBD142_313.315	0.024329662	0.06915879	OBD142_313.315	0.024329662	0.06915879	OBD142_313.315	0.024329662
7	OBD142_493.495	0.030273855	0.68608314	OBD142_493.495	0.030273855	0.68608314	OBD142_493.495	0.030273855
8	OBD142_457.459	0.043391466	0.69003797	OBD142_457.459	0.043391466	0.69003797	OBD142_457.459	0.043391466
9	OBD142_277.279	0.048135281	0.21510564	OBD142_277.279	0.048135281	0.21510564	OBD142_277.279	0.048135281
10	OBD142_021.023	0.065754175	0.15236533	OBD142_021.023	0.065754175	0.15236533	OBD142_021.023	0.065754175
11	OBD142_209.211	0.065754175	0.50892571	OBD142_209.211	0.065754175	0.50892571	OBD142_209.211	0.065754175
12	OBD142_389.391	0.065754175	1	OBD142_389.391	0.065754175	1	OBD142_389.391	0.065754175
13	OBD142_397.399	0.065754175	1	OBD142_397.399	0.065754175	1	OBD142_397.399	0.065754175
14	Group_v2	0.077405989	0.08839179	Group_v2	0.077405989	0.08839179	Group_v2	0.077405989
15	OBD142_261.263	0.08554256	0.03096974	OBD142_261.263	0.08554256	0.03096974	OBD142_261.263	0.08554256
16	OBD142_345.347	0.08554256	1	OBD142_345.347	0.08554256	1	OBD142_345.347	0.08554256
17	OBD142_077.079	0.08653307	1	OBD142_077.079	0.08653307	1	OBD142_077.079	0.08653307
18	OBD142_109.111	0.109796792	1	OBD142_109.111	0.109796792	1	OBD142_109.111	0.109796792
19	OBD142_273.275	0.110314369	0.50892571	OBD142_273.275	0.110314369	0.50892571	OBD142_273.275	0.110314369
20	OBD142_473.475	0.110314369	1	OBD142_473.475	0.110314369	1	OBD142_473.475	0.110314369
21								

Figure 18

	A	B	C	D	E	F	G
	Probe	Chr	Horse_Genomic	Human_Genomic	Marker_Type		
1	O8D154_013.015_1x	ORF37_7_80905043_80905799_80946828_80948039_FF	AMPP	ARNTL	DNK3		Sprinter
2	O8D154_041.043_1.4x	ORF24_7_26919921_26921163_26962320_26963327_RF	TAGLN		CBL	MCAM	Stayer
3	O8D154_049.051_1.4x	ORF1_3_38982976_38984987_38987821_38992754_RR	MCIR		NFKB1		Stayer
4	O8D154_073.075_1x	ORF12_28_42033251_42034839_42111316_42112829_FR	PPARA		PPARA		Stayer
5	O8D154_085.087_1.2x	ORF31_24_18025107_18025879_18089550_18090204_FR	SYN2BP	DIO2	RG56		Sprinter
6	O8D154_083.095_1.2x	ORF28_19_27971050_27974189_28029396_28030610_FR	TFRC	MIR1248	IL1RAP		Sprinter
7	O8D154_125.127_1.2x	ORF51_4_788561_790967_729450_732106_FR	CCDC136		CD36		Sprinter
8	O8D154_157.159_1.2x	ORF86_19_45858761_45861211_45775880_45782396_RR	EEF1A1		PLOX2	PHLD82	Stayer
9	O8D154_229.231_1x	ORF73_16_84538528_84540820_84582113_84585716_FR			MBNL1		Sprinter
10	O8D154_245.247_1x	ORF88_3_100800337_100801373_100744664_100751637_FF	MIR218		PPARGC1A		Sprinter