

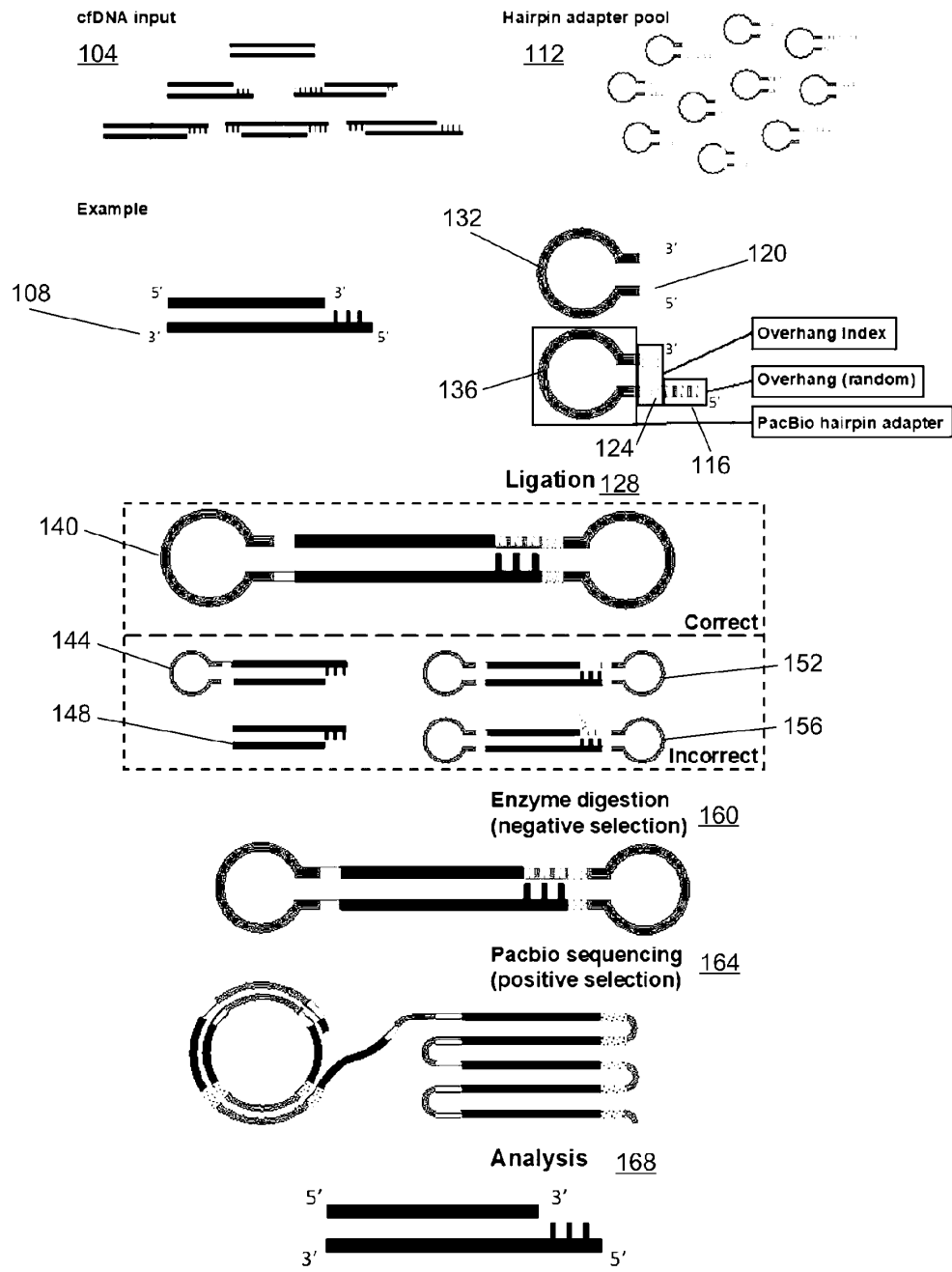


FIG. 1

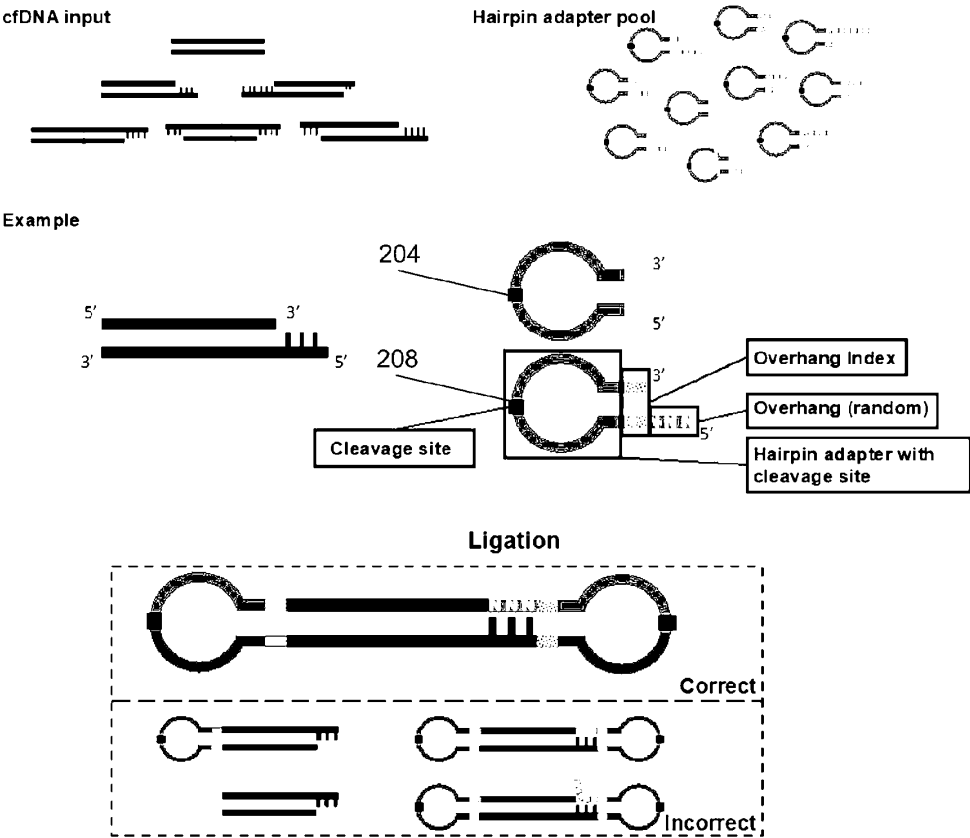


FIG. 2A

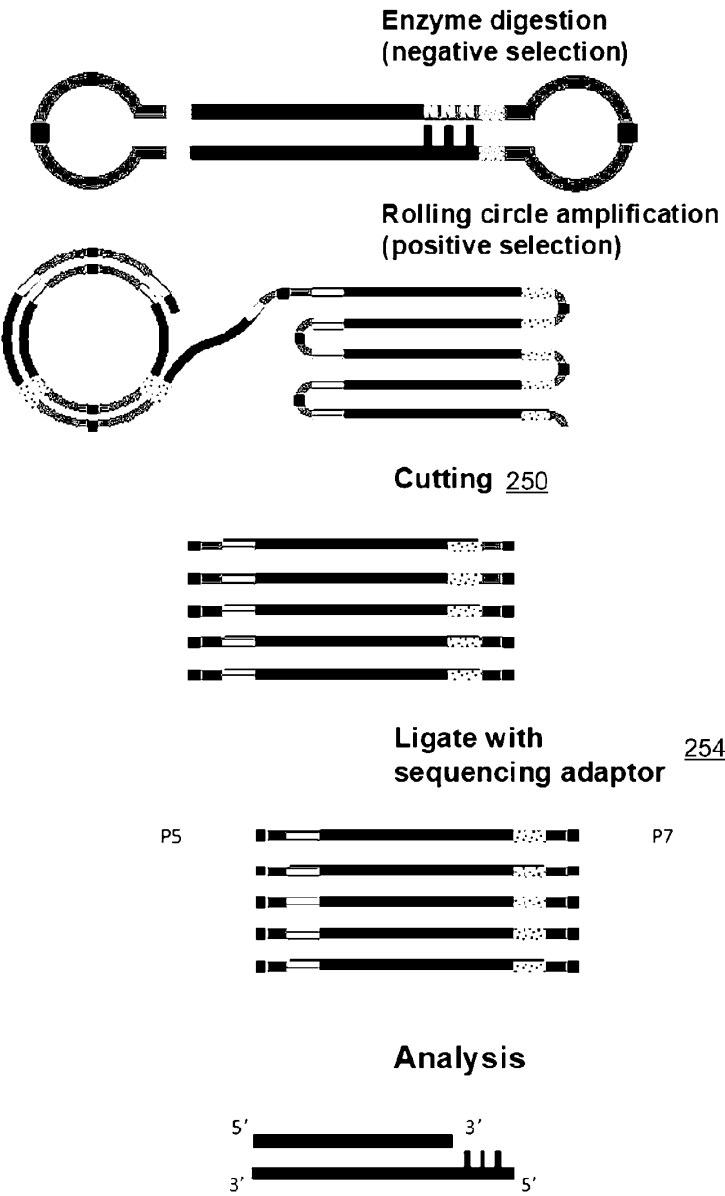


FIG. 2B

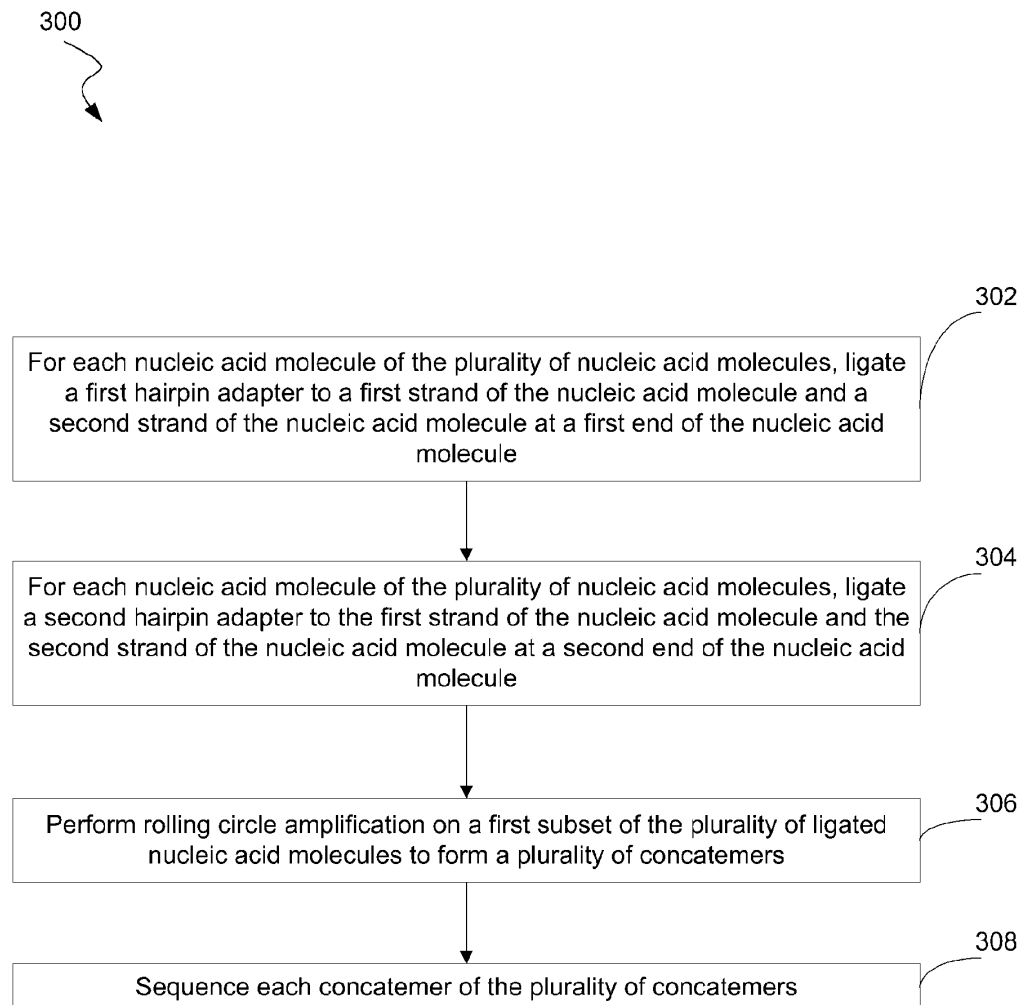


FIG. 3

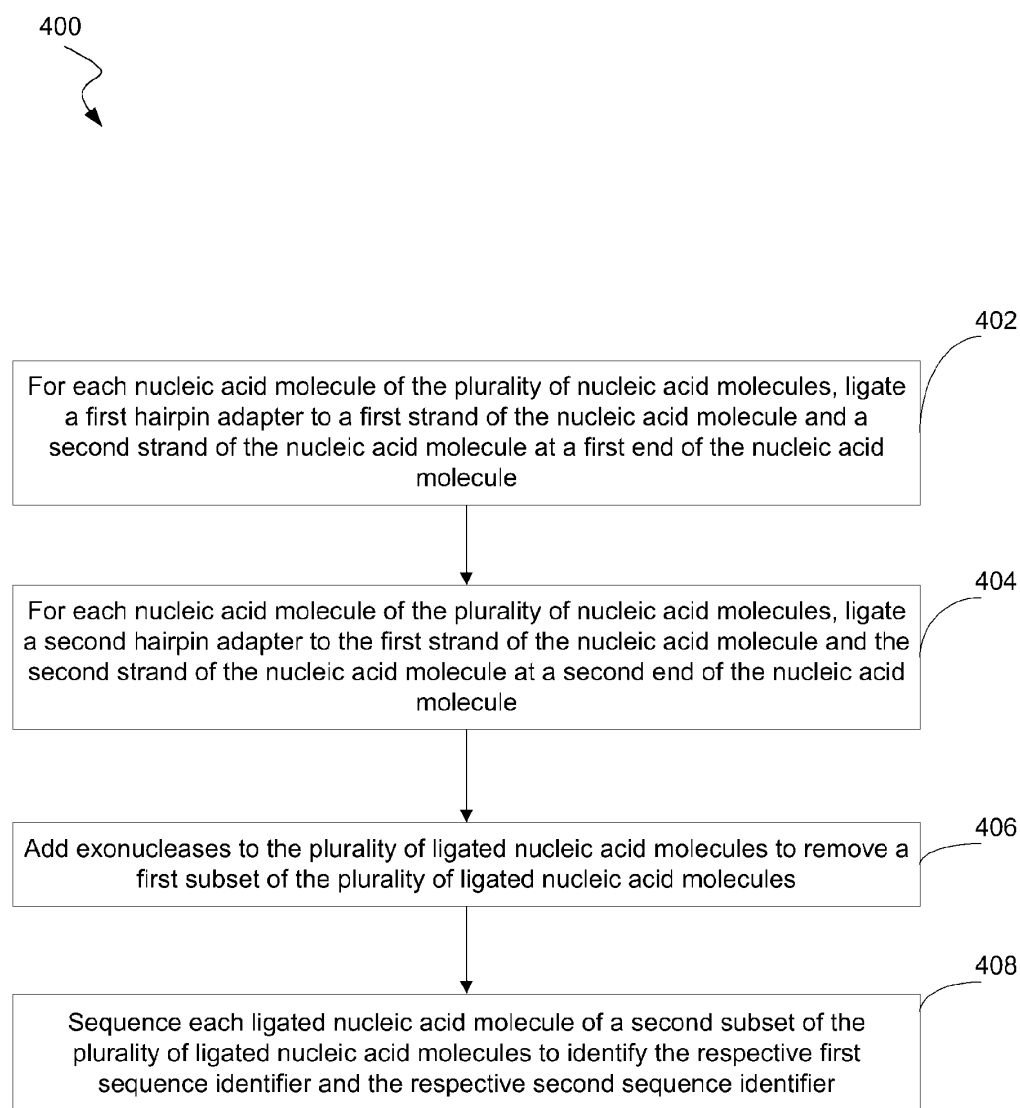


FIG. 4

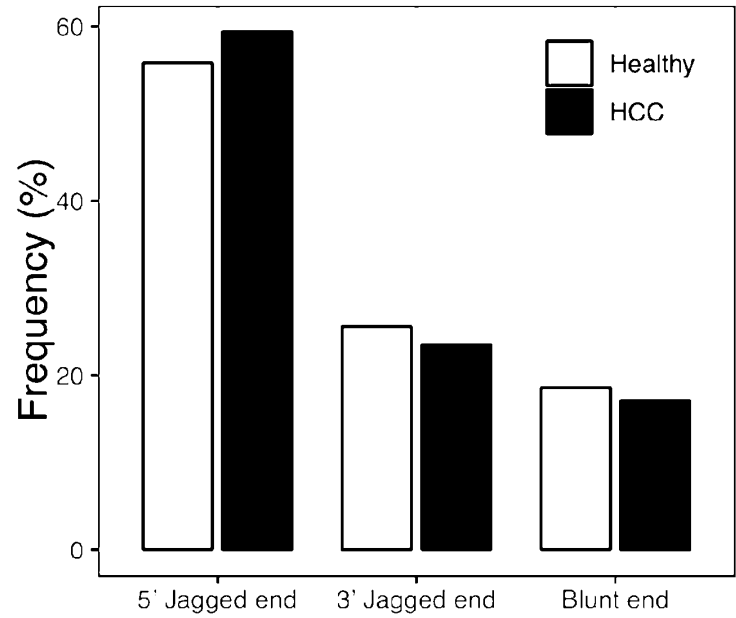


FIG. 5A

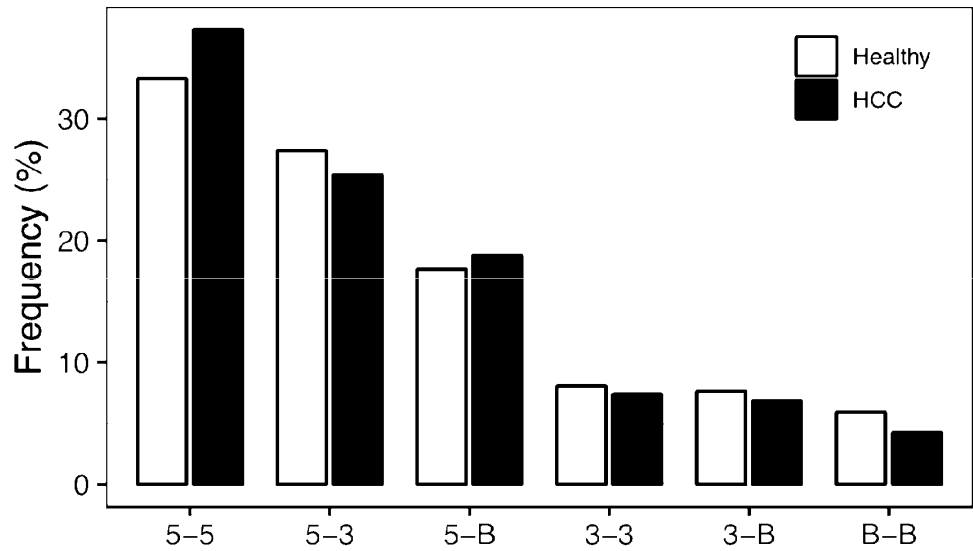


FIG. 5B

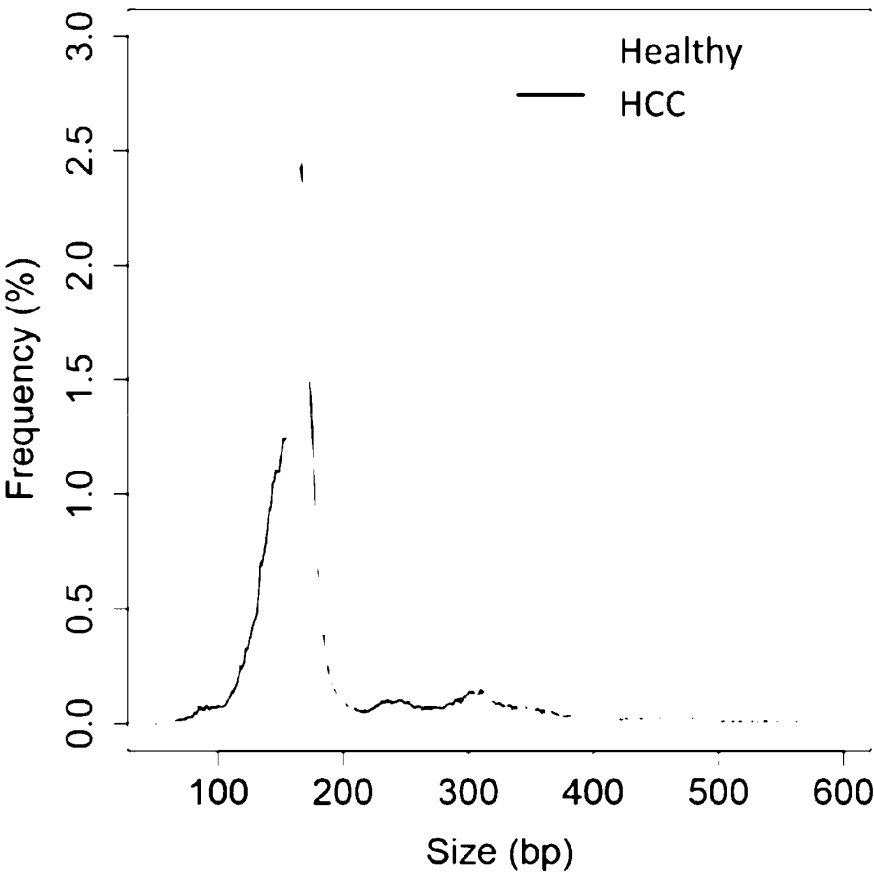


FIG. 6A

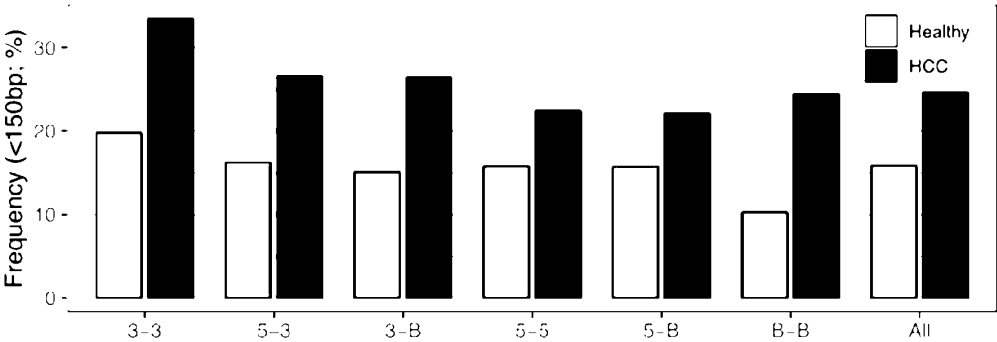


FIG. 6B

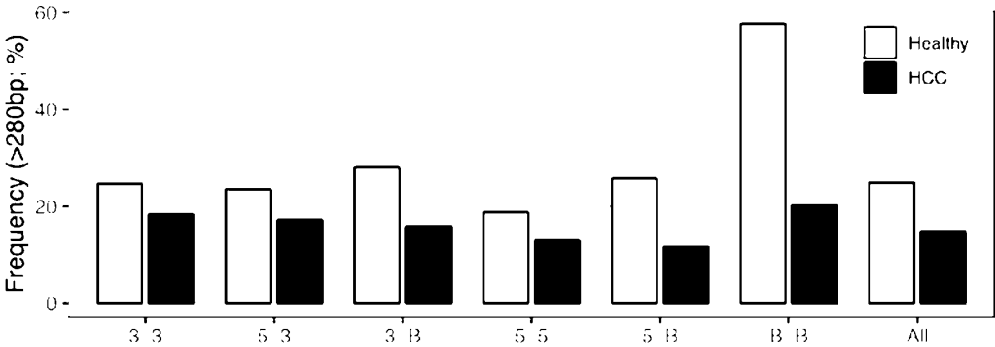


FIG. 6C

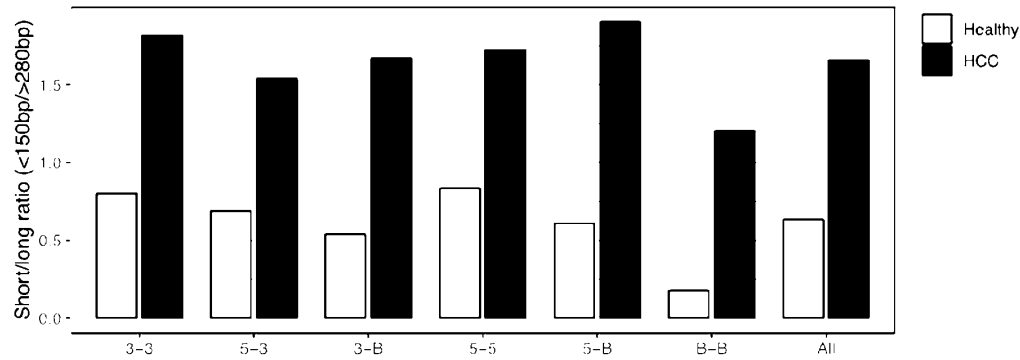


FIG. 7A

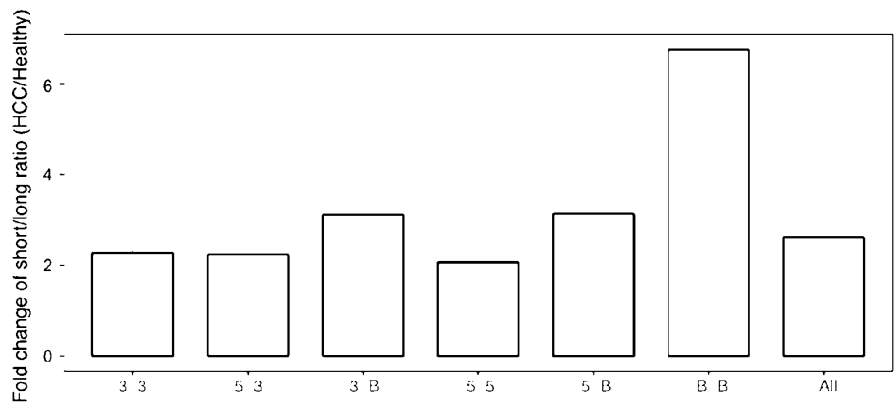


FIG. 7B

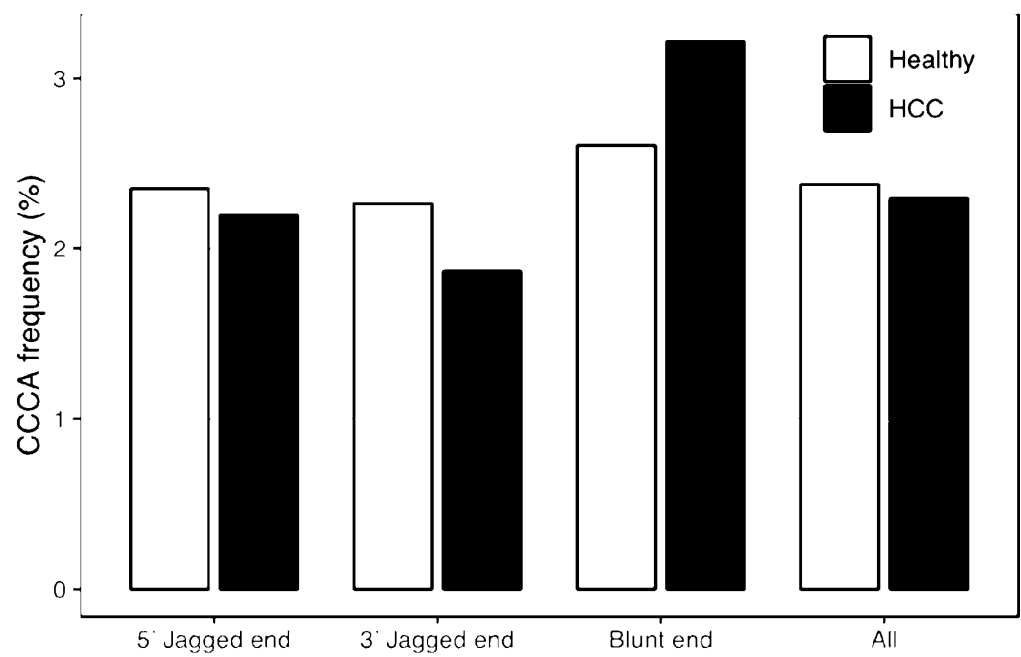
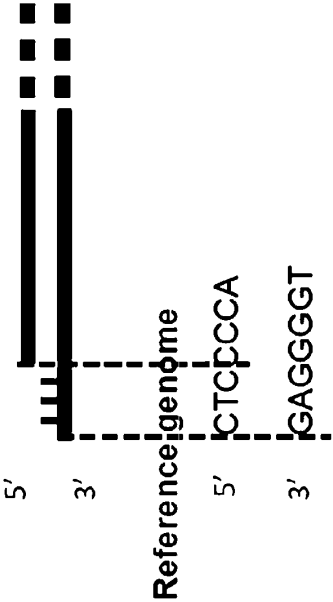


FIG. 8



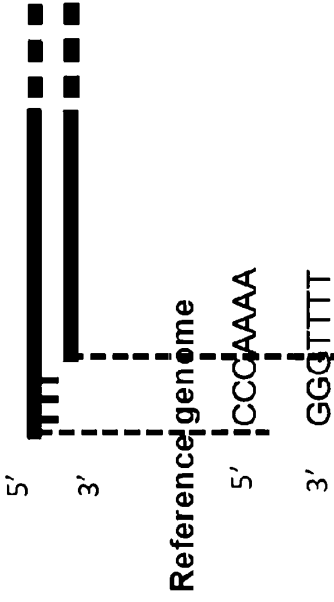
5' End motif : CCCA

3' End motif : GAGG

3' Jagged end

Phased end motif: CCCA_gagg

FIG. 9B



5' End motif : CCCA

3' End motif : TTTT

5' Jagged end

Phased end motif: CCCA_TTTT

FIG. 9A

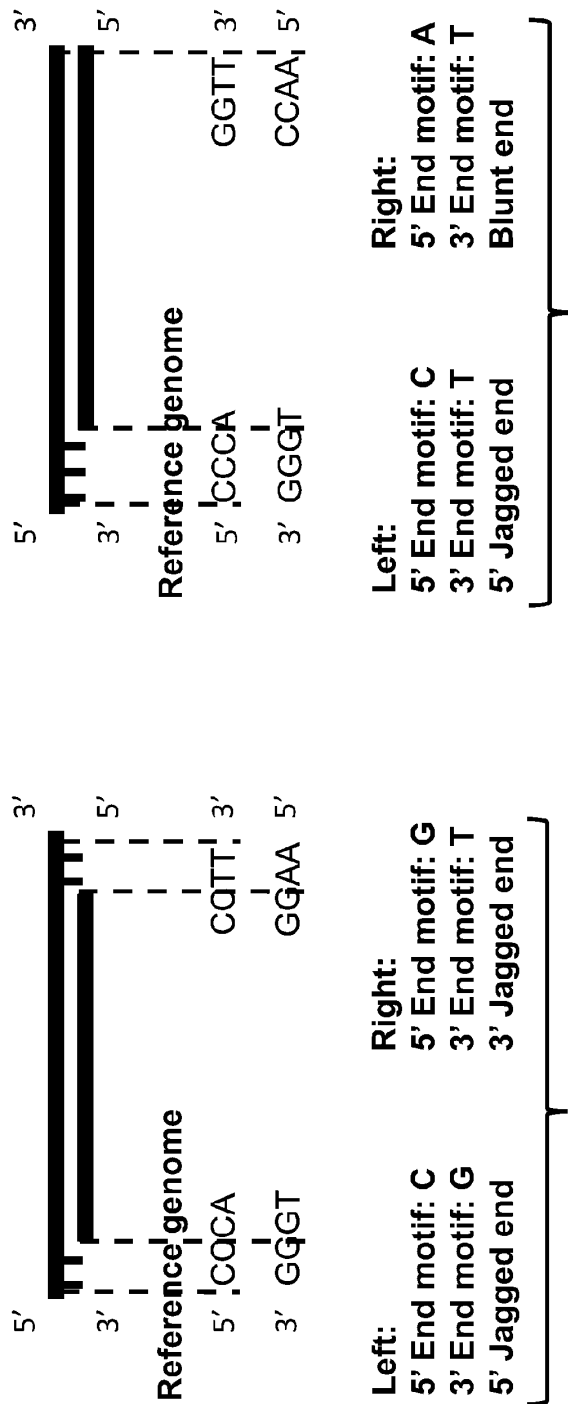


FIG. 10A

FIG. 10B

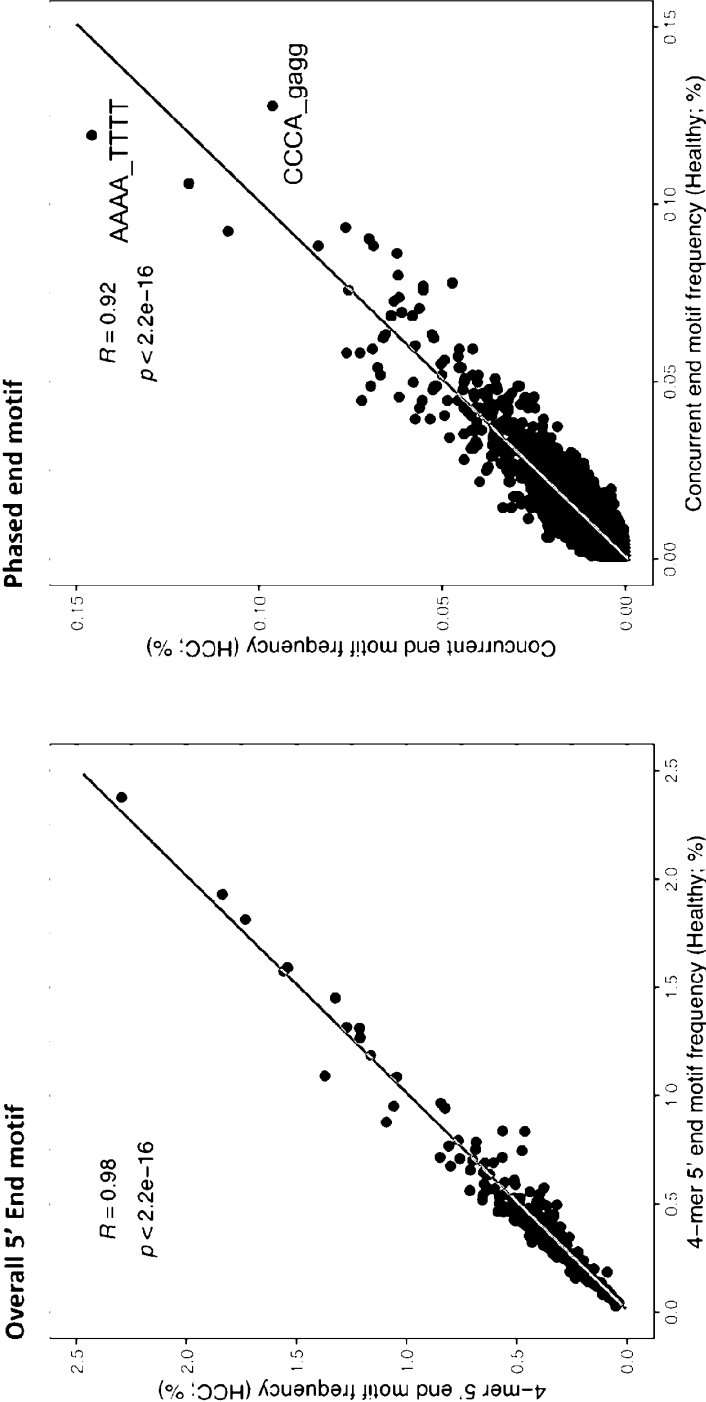


FIG. 11A

FIG. 11B

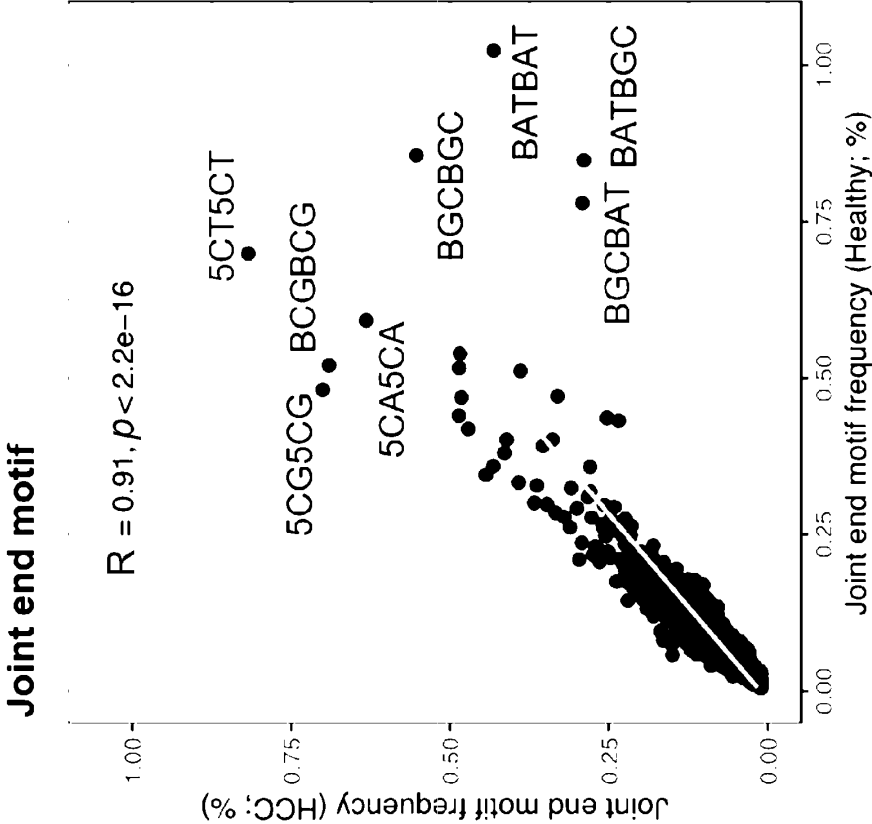


FIG. 11C

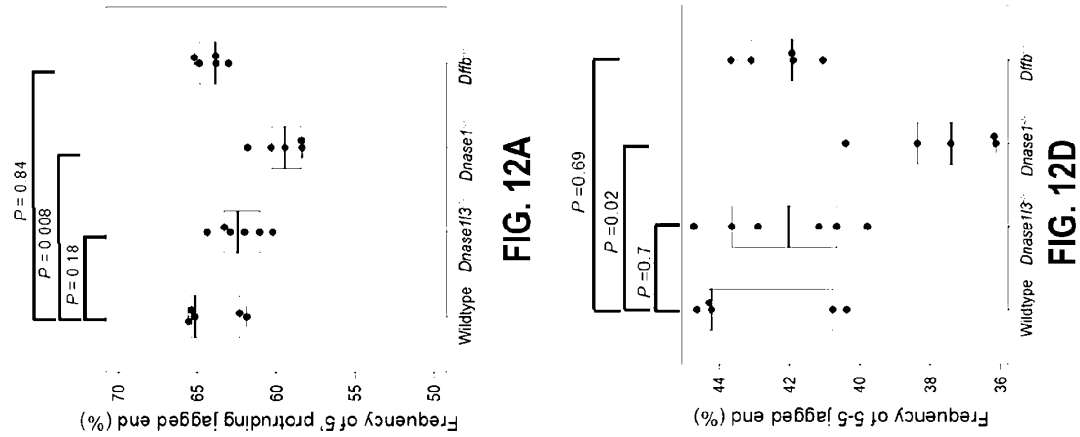


FIG. 12A

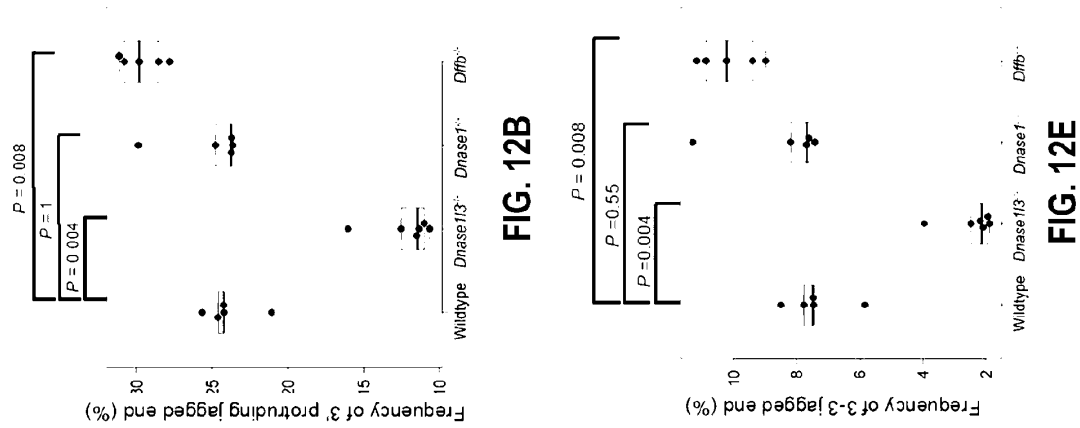


FIG. 12B

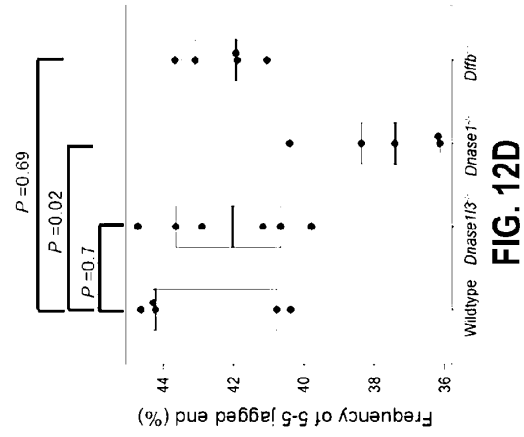


FIG. 12D

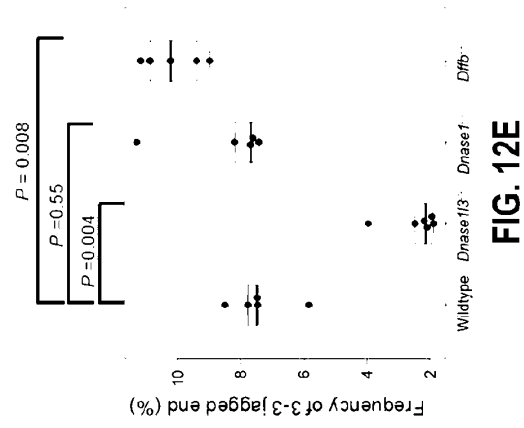


FIG. 12E

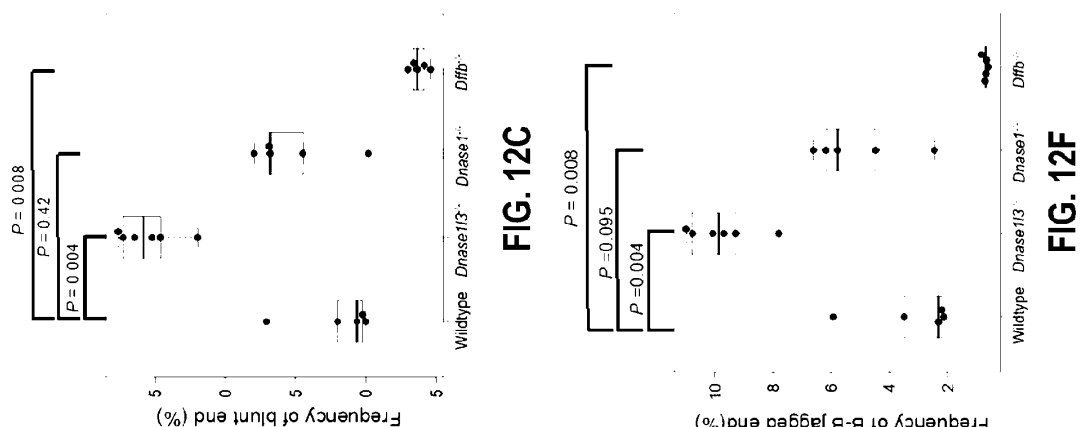


FIG. 12F

FIG. 12C

	1304 5' jagged end				1308 3' jagged end				1312 Blunt end			
	Median frequency		Relative change (%)		Median frequency		Relative change (%)		Median frequency		Relative change (%)	
	WT	DNASE1L3-/-	DNASE1L3-/- to WT		WT	DNASE1L3-/-	DNASE1L3-/- to WT		WT	DNASE1L3-/-	DNASE1L3-/- to WT	
DNASE1L3-/- 1316	A-end	22.30	31.06	39.28	22.01	25.06	13.86		36.41	45.76	25.68	
	T-end	14.84	8.69	-41.44	24.93	22.38	-10.23		6.95	1.53	-77.99	
	C-end	39.40	31.98	-18.83	29.91	28.64	-4.25		21.02	16.48	-21.60	
	G-end	23.20	28.20	21.55	22.97	24.07	4.79		34.68	36.34	4.79	
DNASE1-/- 1320	A-end	22.30	24.85	11.43	22.01	22.49	2.18		36.41	43.58	19.69	
	T-end	14.84	13.70	-7.68	24.93	24.52	-1.64		6.95	3.76	-45.90	
	C-end	39.40	35.59	-9.67	29.91	30.03	0.40		21.02	18.14	-13.70	
	G-end	23.20	25.76	11.03	22.97	22.57	-1.74		34.68	34.58	-0.29	
DFFB-/- 1324	A-end	22.30	18.86	-15.43	22.01	21.46	-2.50		36.41	26.17	-28.12	
	T-end	14.84	18.19	22.57	24.93	25.30	1.48		6.95	14.66	110.94	
	C-end	39.40	41.04	4.16	29.91	29.67	-0.80		21.02	28.11	33.73	
	G-end	23.20	22.11	-4.70	22.97	23.51	2.35		34.68	31.67	-8.68	

FIG. 13

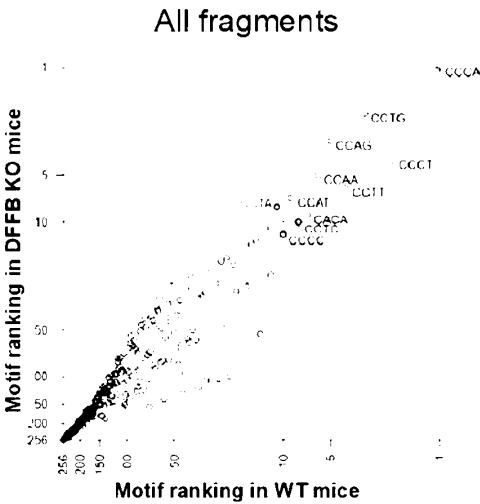


FIG. 14A

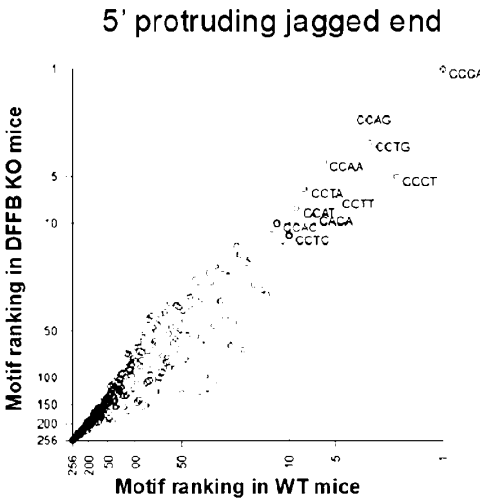


FIG. 14B

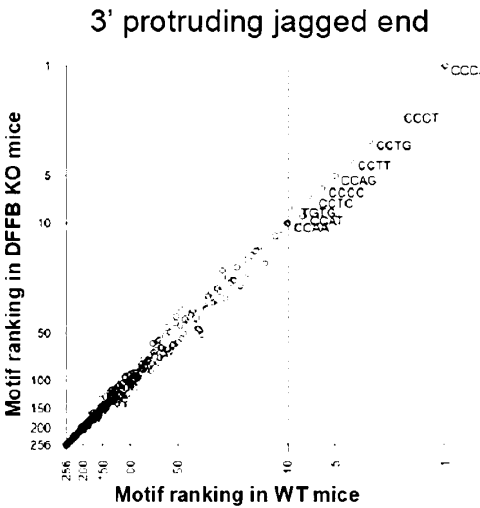


FIG. 14C

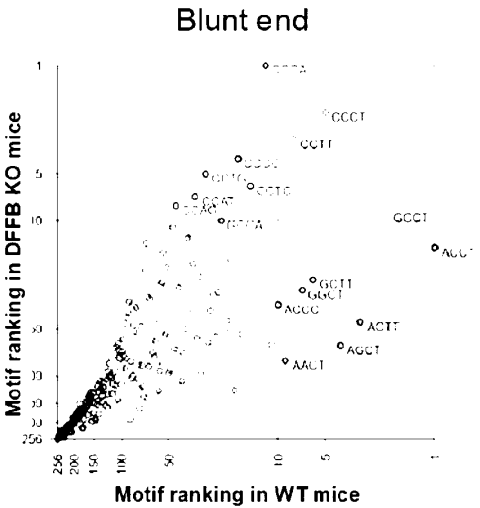


FIG. 14D

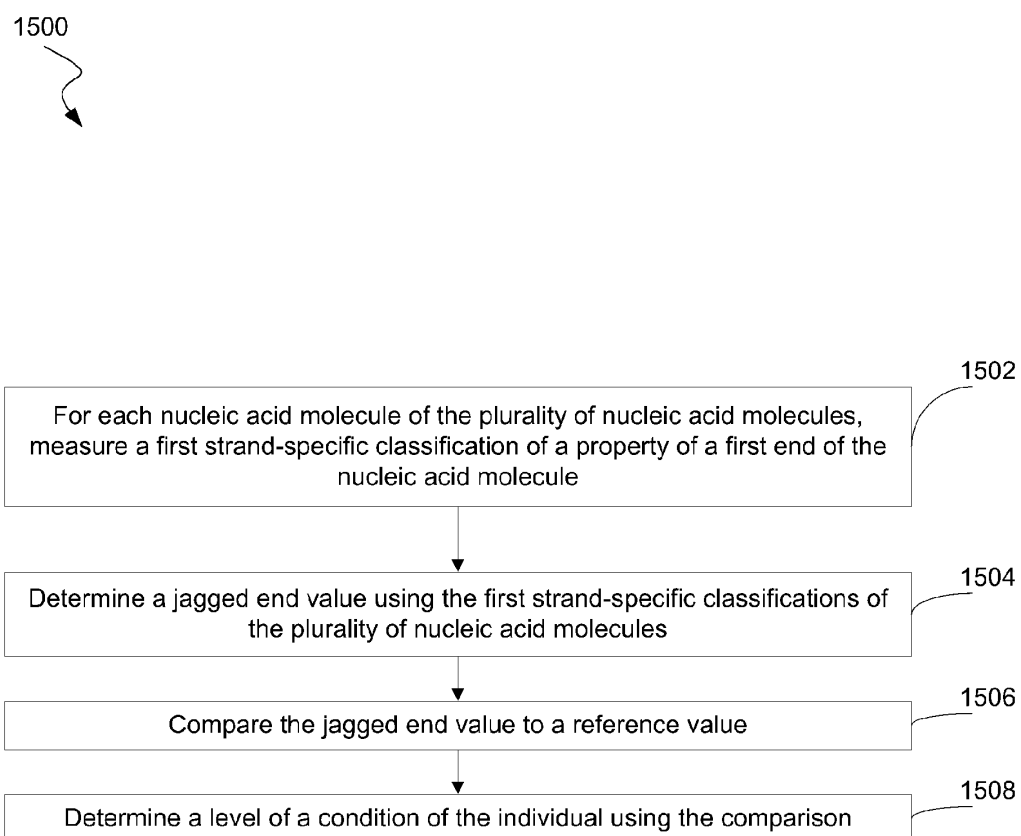


FIG. 15

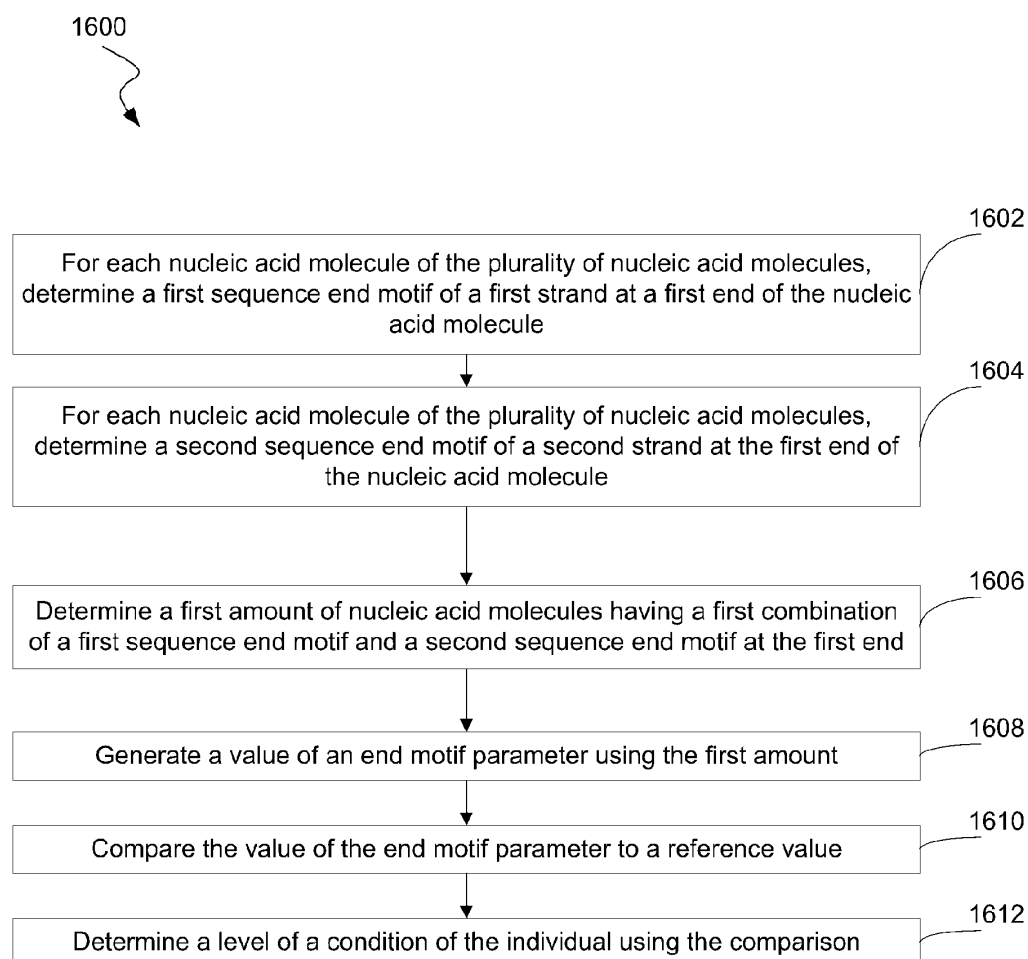


FIG. 16

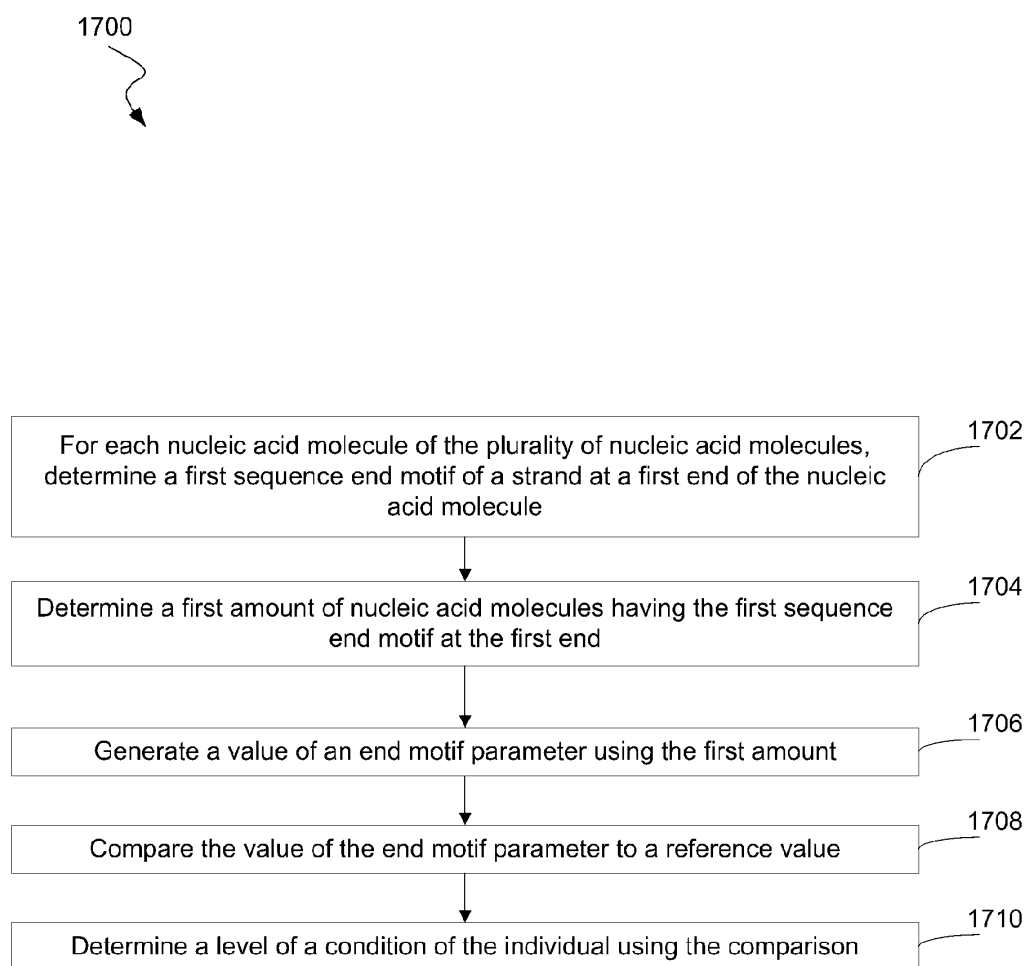


FIG. 17

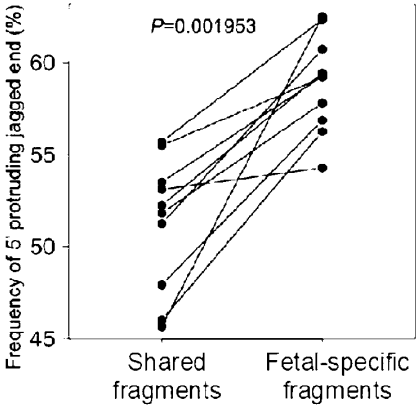


FIG. 18A

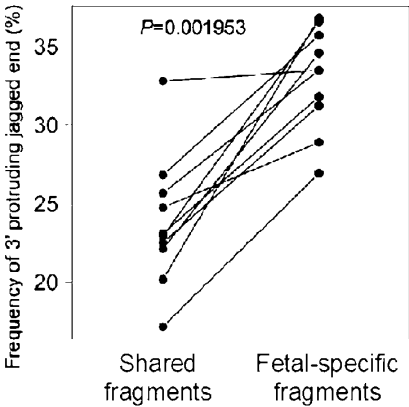


FIG. 18B

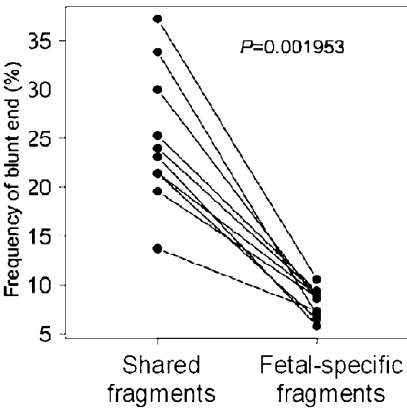


FIG. 18C

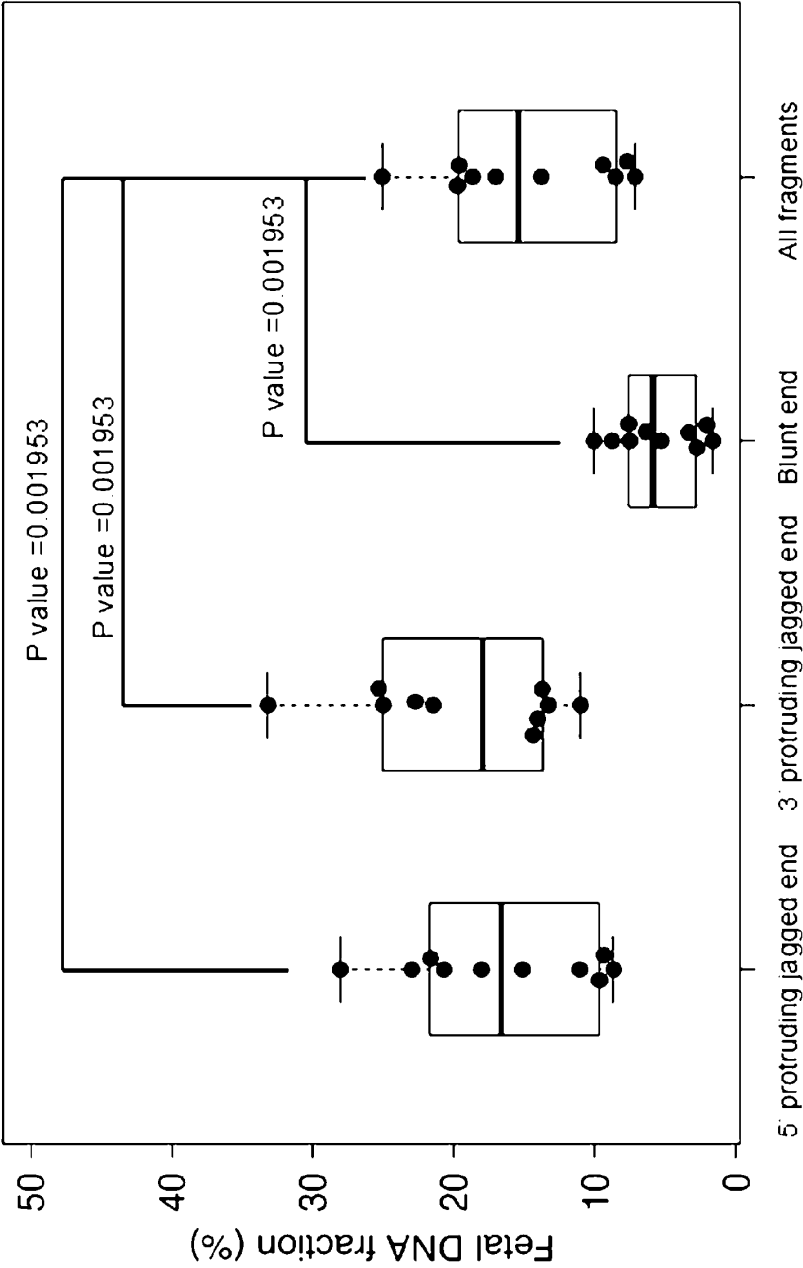


FIG. 18D

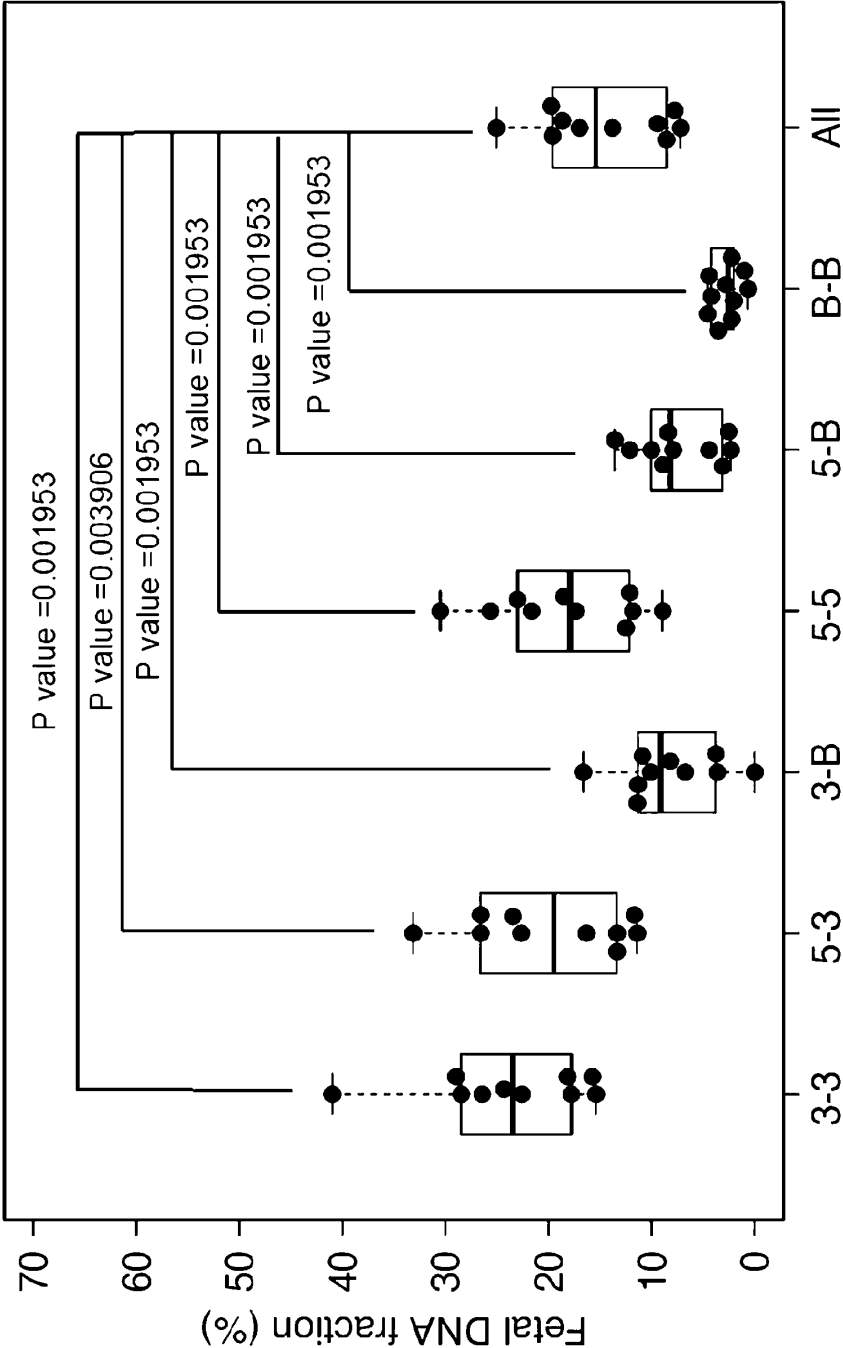


FIG. 19

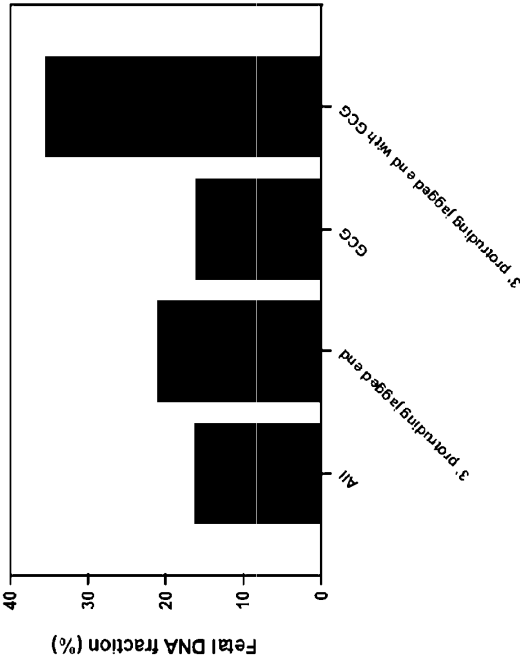


FIG. 20B

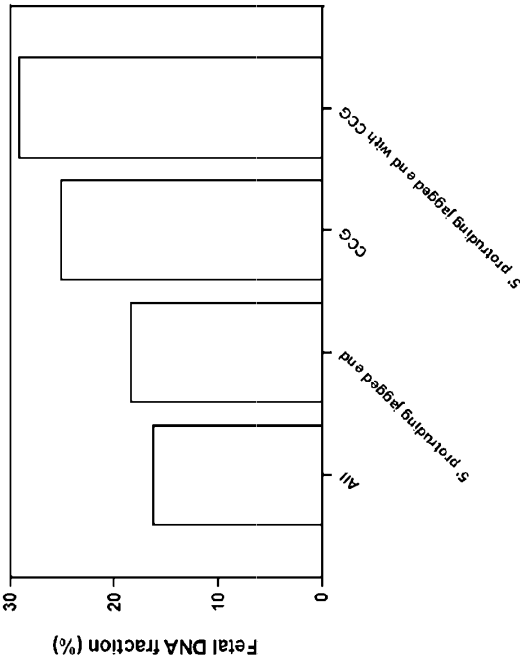
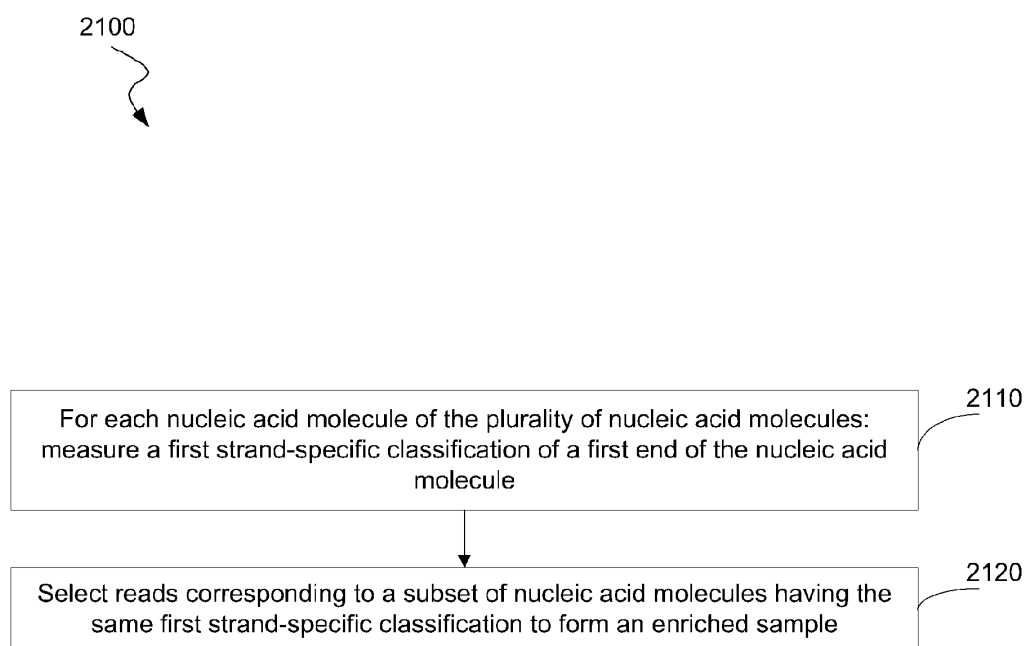


FIG. 20A

**FIG. 21**

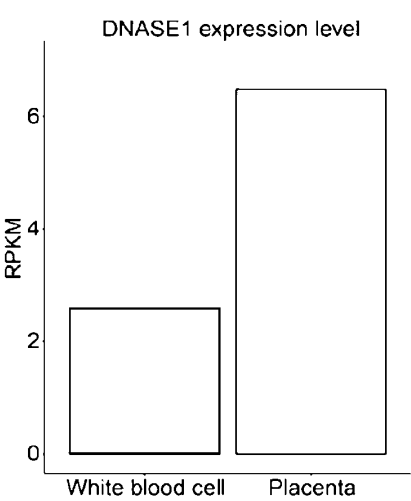


FIG. 22A

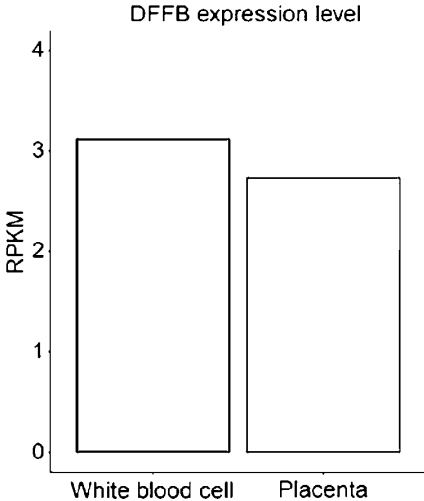


FIG. 22B

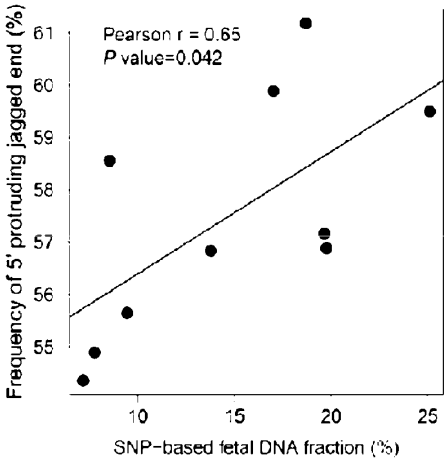


FIG. 22C

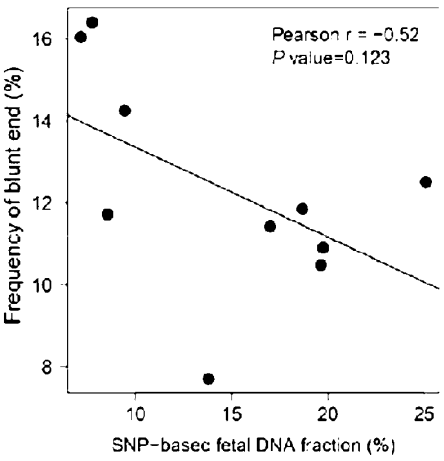


FIG. 22D

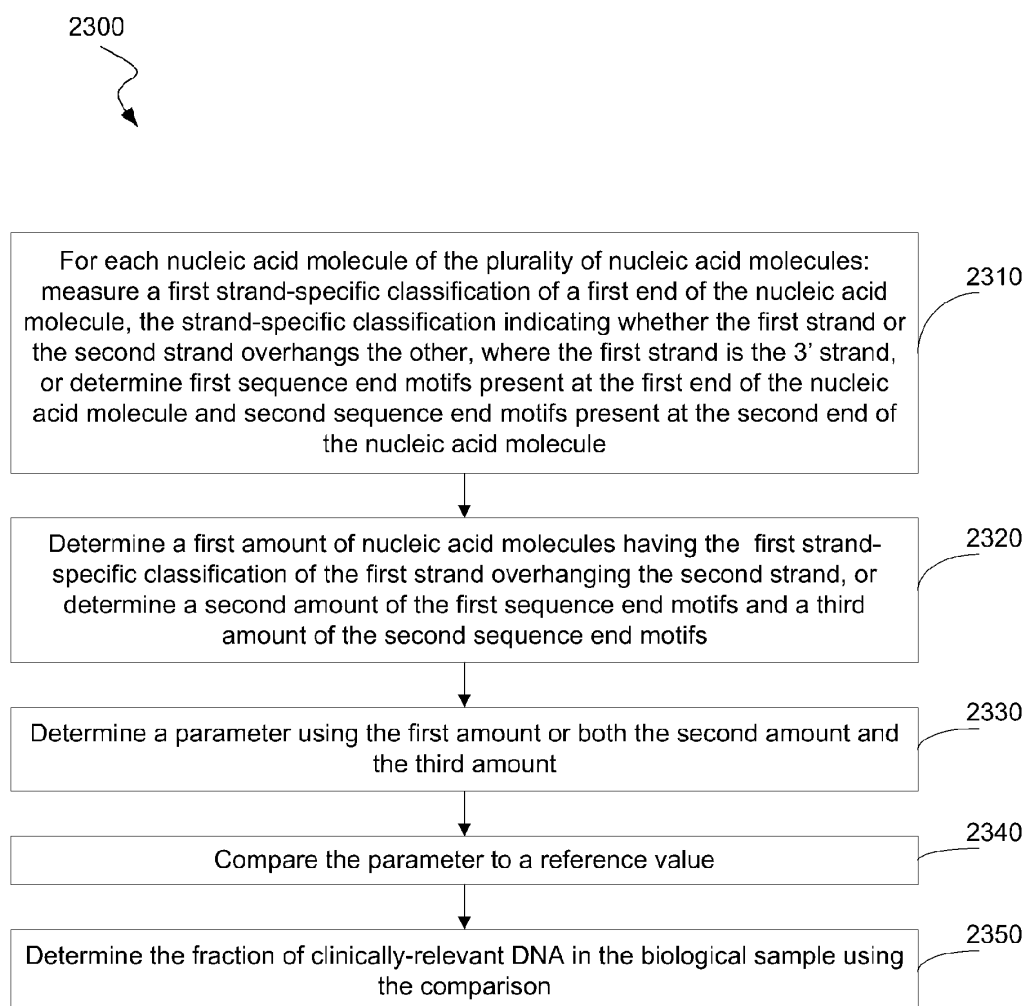


FIG. 23

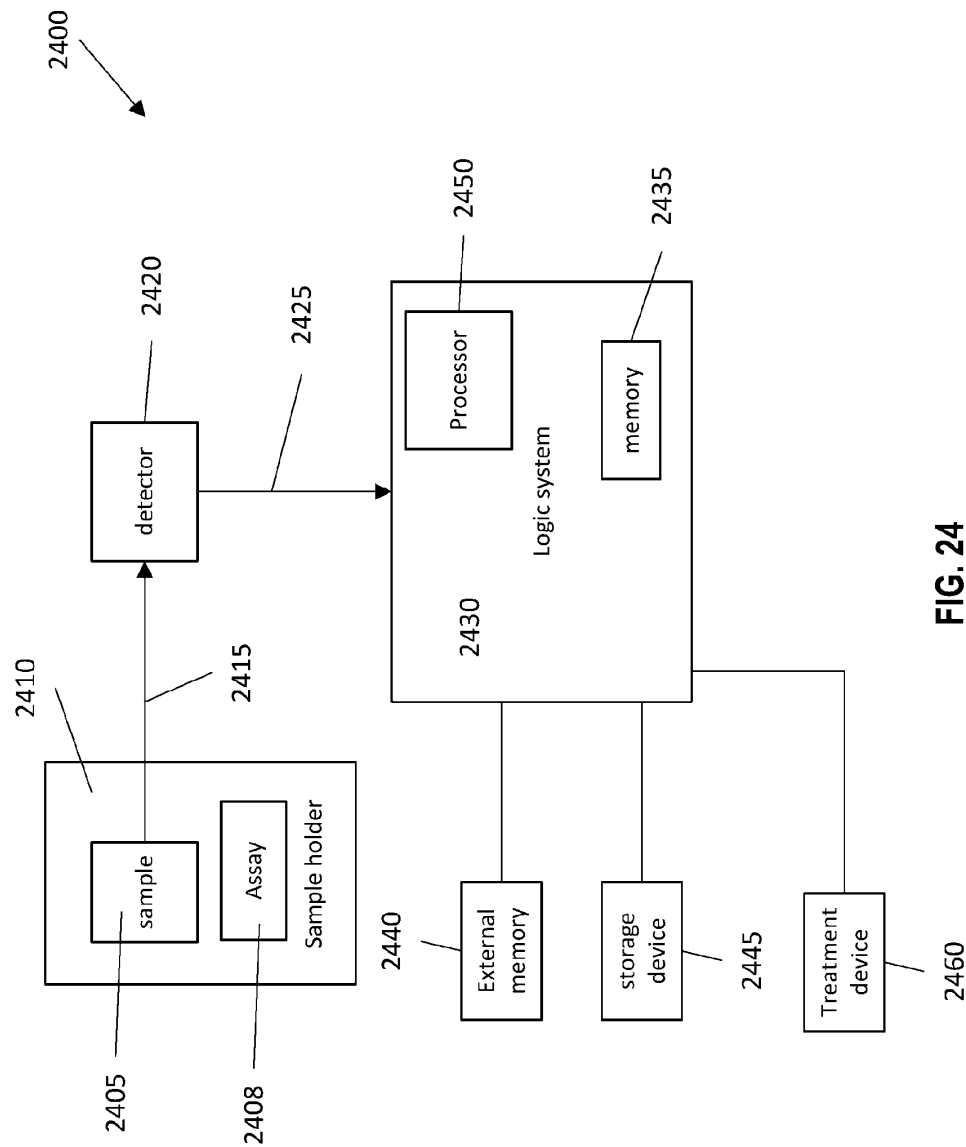


FIG. 24

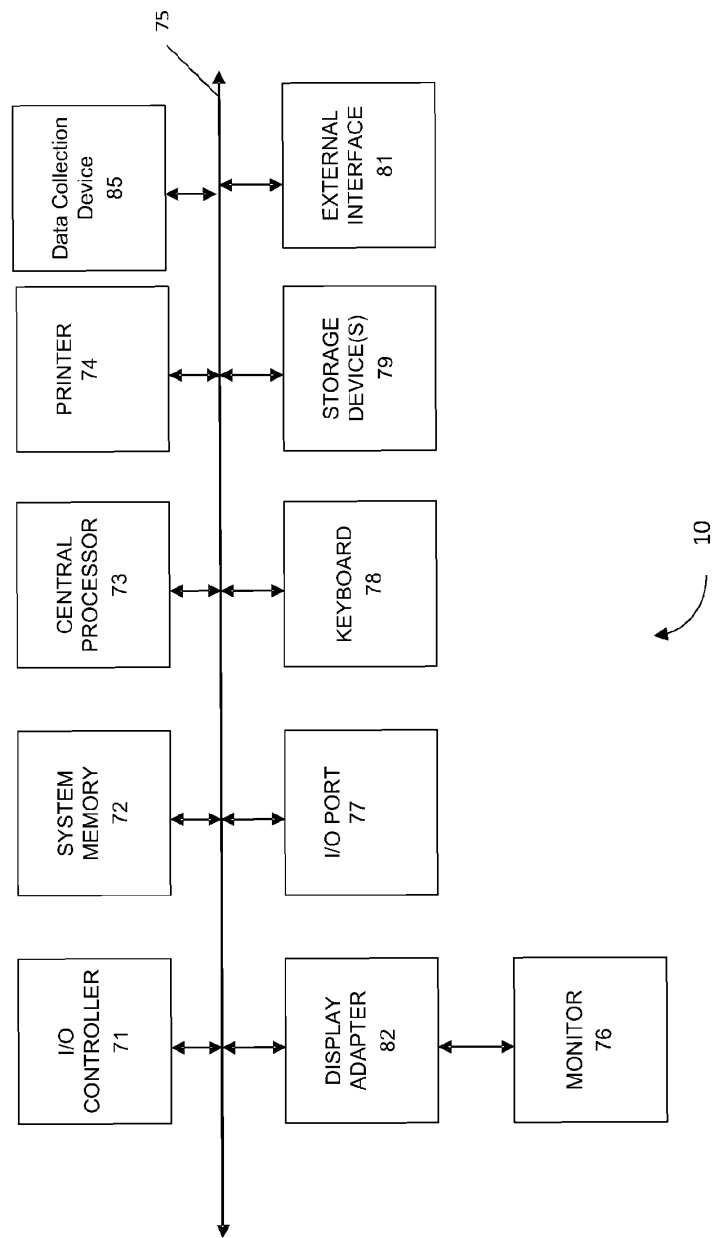


FIG. 25