

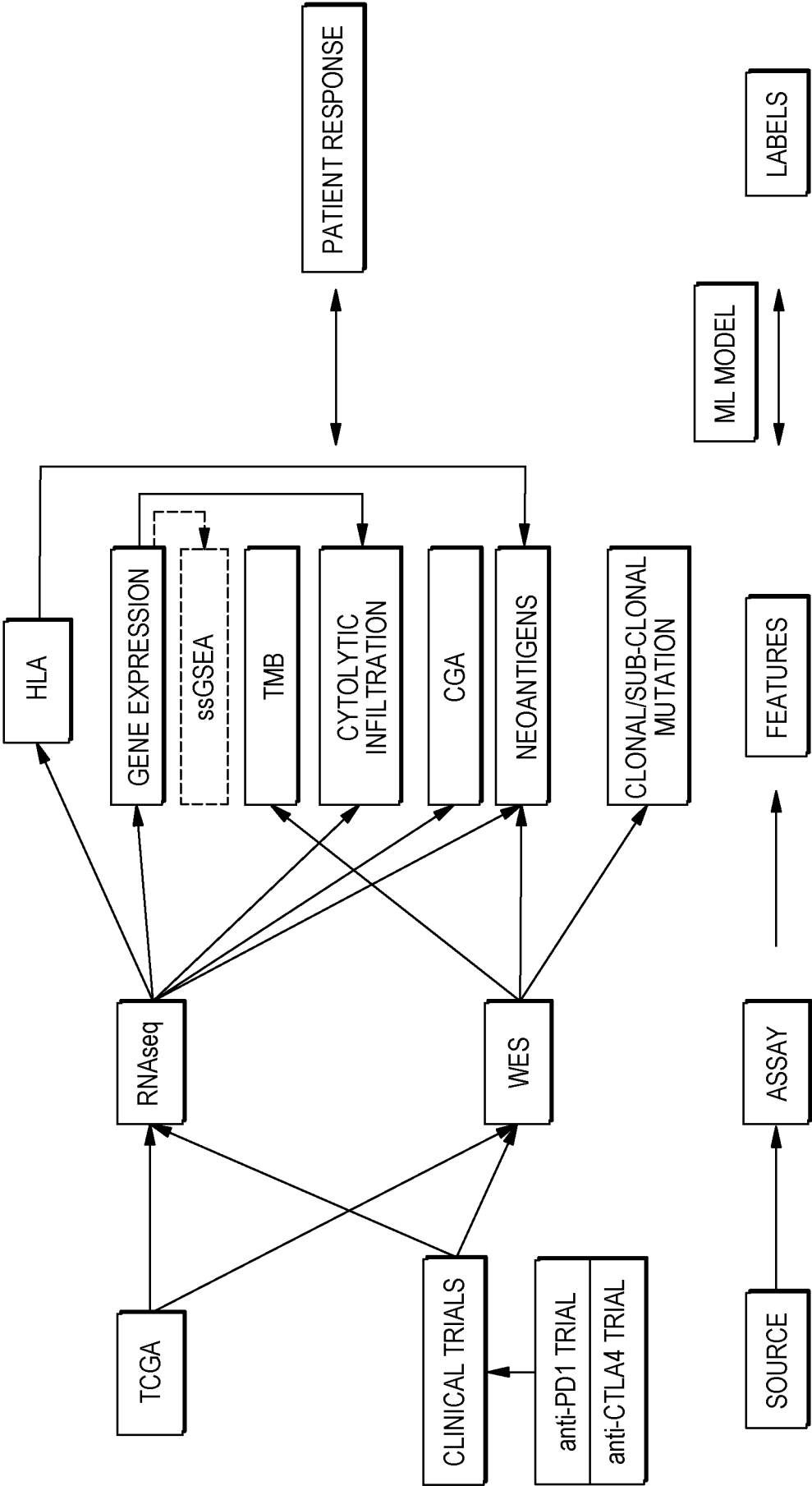


FIG. 1

GROUP	FEATURE
ANTIGEN PRESENTATION	allMut
ANTIGEN PRESENTATION	nonSynMut
ANTIGEN PRESENTATION	B2M
ANTIGEN PRESENTATION	PSMB10
ANTIGEN PRESENTATION	TAP1
ANTIGEN PRESENTATION	TAP2
ANTIGEN PRESENTATION	HLA-A
ANTIGEN PRESENTATION	HLA-B
ANTIGEN PRESENTATION	HLA-C
ANTIGEN PRESENTATION	HLA-DQA1
ANTIGEN PRESENTATION	HLA-DRB1

T CELL/NK SIGNATURE	HLA-E
T CELL/NK SIGNATURE	NKG7
T CELL/NK SIGNATURE	CMKLR1

CYTOLYTIC SIGNATURE	cd8_dec
CYTOLYTIC SIGNATURE	cd4_dec
CYTOLYTIC SIGNATURE	cd19_dec
CYTOLYTIC SIGNATURE	GZMA
CYTOLYTIC SIGNATURE	PRF1

GROUP	FEATURE
CHECHPOINT	CTLA4
CHECHPOINT	PD1
CHECHPOINT	PDL1
CHECHPOINT	PDL2
CHECHPOINT	LAG3
CHECHPOINT	TIGIT
CHECHPOINT	CD276

INTERFERON γ	CCL5
INTERFERON γ	CD27
INTERFERON γ	CXCL9
INTERFERON γ	CXCR6
INTERFERON γ	IDO1
INTERFERON γ	STAT1

MDSC/TREG	CD15
MDSC/TREG	CD25
MDSC/TREG	CD33
MDSC/TREG	CD39
MDSC/TREG	CD11B
MDSC/TREG	FOXP3

FIG. 2

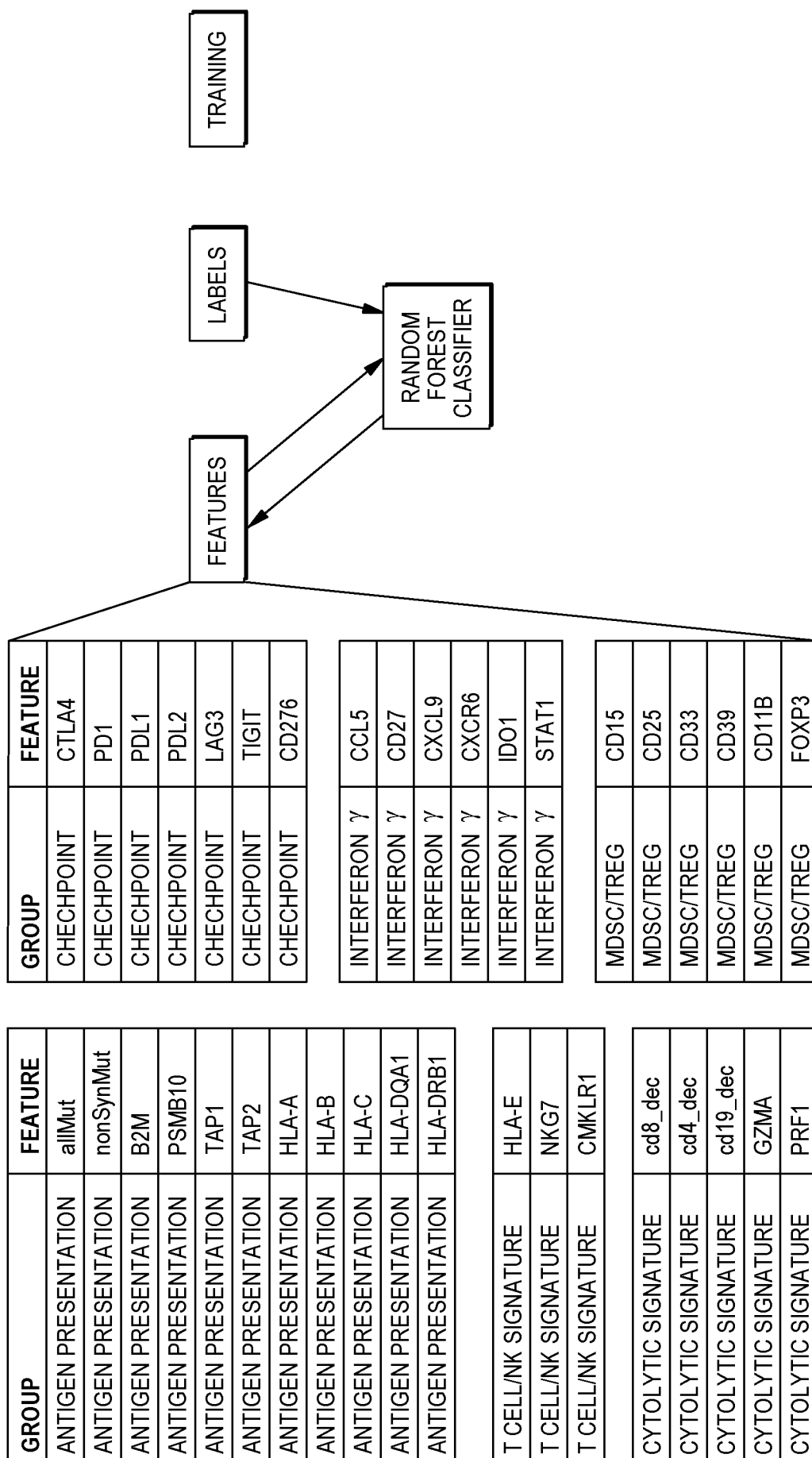


FIG. 3

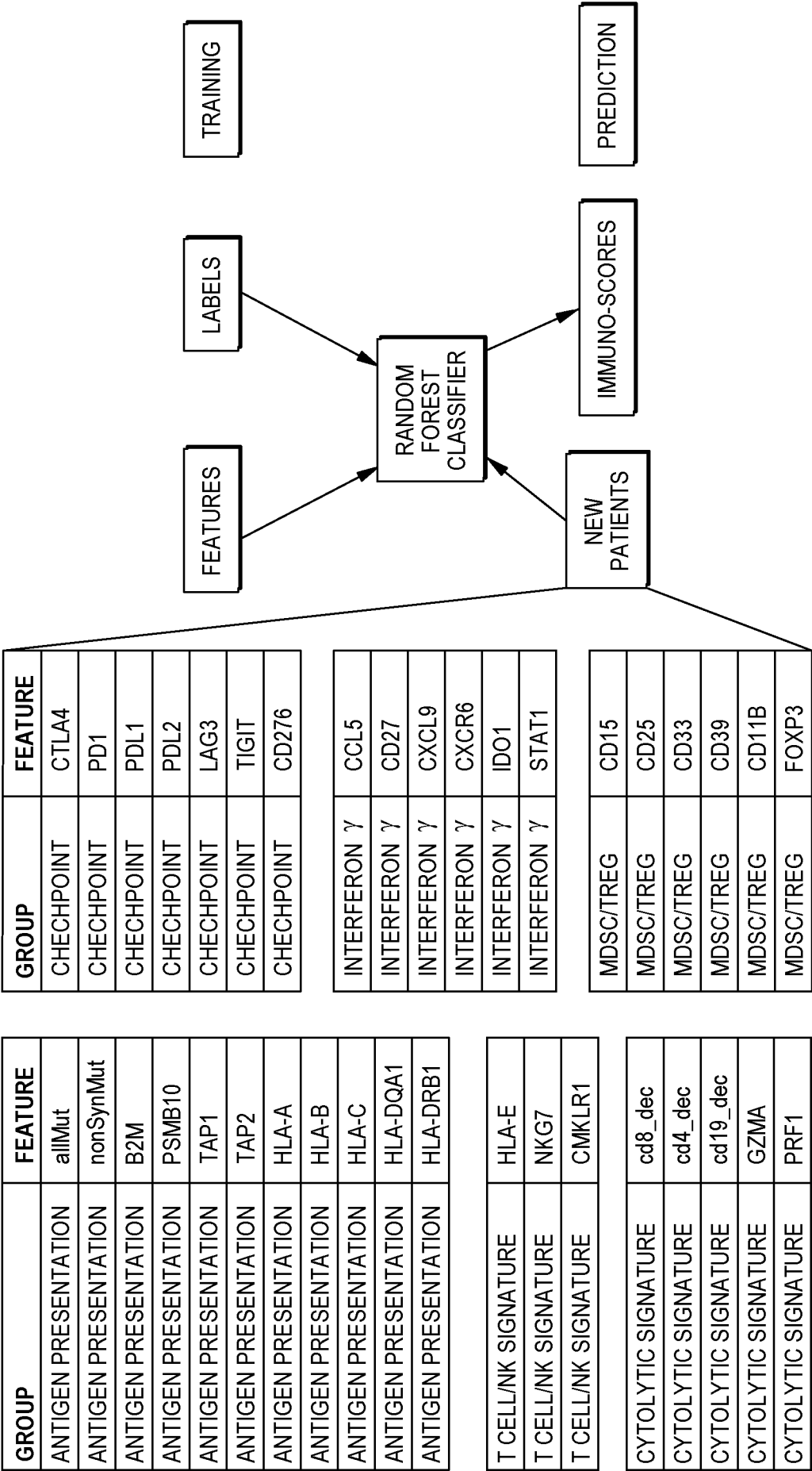


FIG. 4

500

530 GROUP	510 FEATURES	520 IMP.	540 CORR	550 1FDB	560 PT5 INPUT	570 1F.PRED
ANTIGEN PRESENTATION	HLA.B	0.922	△	0.615	0.212	NO (R)
ANTIGEN PRESENTATION	all_tmb	0.499	△	0.269	0.865	YES (G)
ANTIGEN PRESENTATION	HLA.A	0.431	△	0.154	0.712	YES (G)
ANTIGEN PRESENTATION	HLA.C	0.423	△	0.423	0.596	YES (G)
ANTIGEN PRESENTATION	nonSyn_tmb	0.413	△	0.346	0.865	YES (G)
T CELL/NK SIGNATURE	HLA.E	0.377	△	0.846	0.404	NO (R)
CHECKPOINT	PD1	0.338	△	0.588	0.365	NO (R)
ANTIGEN PRESENTATION	B2M	0.337	△	0.115	0.404	YES (G)
ANTIGEN PRESENTATION	HLA.DRB1	0.321	△	0.115	0.519	YES (G)
CYTOLYTIC SIGNATURE	PRF1	0.370	▽	0.462	0.596	NO (R)
CYTOLYTIC SIGNATURE	cd19_dec	0.445	▽	0.692	0.788	NO (R)
MDSC/TREG	CD25	0.470	▽	0.769	0.865	NO (R)
INTERFERON γ	IDO1	0.489	▽	0.423	0.558	NO (R)
INTERFERON γ	CXCR6	0.505	▽	0.500	0.558	NO (R)
MDSC/TREG	CD15	0.586	▽	0.577	0.827	NO (R)
FULL MODEL					5.5	

580

FIG. 5

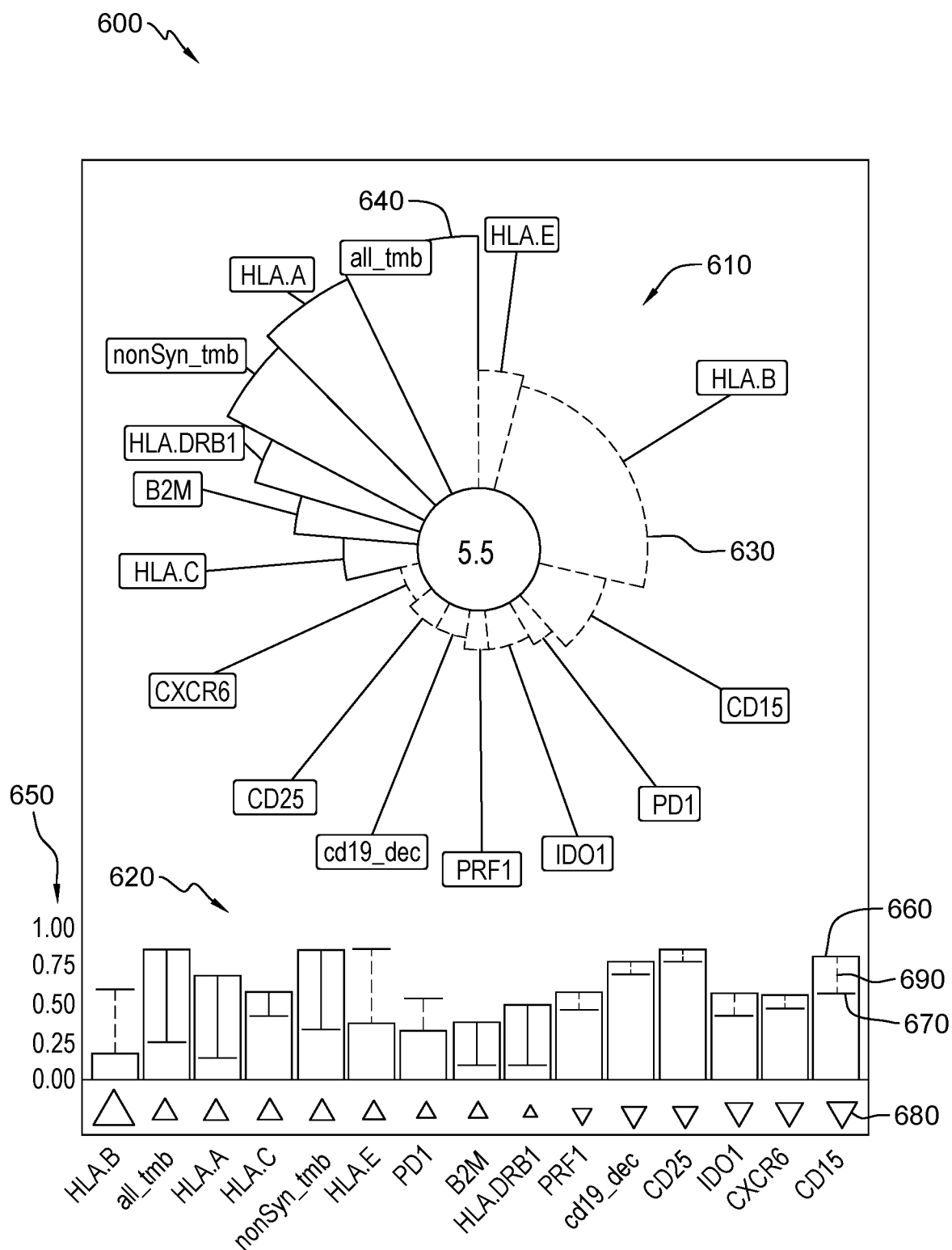


FIG. 6

FEATURES	770		780	
	PD1	CTLA4	PD1	CTLA4
Antigen_processing_pathway	0.314	0.445	0.445	0.482
BM2	0.241	0.465	0.280	0.464
HLA.A	0.293	0.325	0.356	0.341
HLA.B	0.312	0.272	0.740	0.215
HLA.C	0.273	0.321	0.359	0.209
HLA.DQA1	0.172	0.437	0.251	0.558
HLA.DRB1	0.211	0.337	0.274	0.205
PSMB10	0.148	0.272	0.190	0.196
TAP1	0.126	0.424	0.236	0.416
TAP2	0.151	0.424	0.250	0.300
all_tmb	0.242	-0.079	0.426	0.187
nonSyn_tmb	0.175	-0.080	0.361	0.190

710				
FEATURES	770		780	
	PD1	CTLA4	PD1	CTLA4
Checkpoint	-0.082	0.409	0.270	0.498
CD276	-0.014	0.046	0.202	0.357
CTLA4	-0.074	0.422	0.259	0.376
LAG3	-0.011	0.279	0.184	0.238
PD1	0.002	0.306	0.289	0.177
PDL1	0.121	0.142	0.226	0.199
PDL2	-0.022	0.321	0.224	0.228
TIGIT	-0.023	0.363	0.198	0.395

740				
FEATURES	770		780	
	PD1	CTLA4	PD1	CTLA4
Interferon_gamma	-0.054	0.387	0.214	0.380
CCL5	-0.068	0.388	0.204	0.272
CD27	0.019	0.354	0.217	0.242
CXCL9	0.066	0.243	0.135	0.205
CXCR6	-0.085	0.314	0.423	0.224
IDO1	-0.100	0.409	0.415	0.323
STAT1	0.001	0.199	0.159	0.245

750				
FEATURES	770		780	
	PD1	CTLA4	PD1	CTLA4
MDSC_Treg	-0.132	0.037	0.289	0.310
CD11B	0.016	0.050	0.205	0.253
CD15	-0.217	0.059	0.486	0.263
CD25	-0.033	0.139	0.391	0.257
CD33	0.092	0.099	0.154	0.296
CD39	0.040	0.102	0.259	0.124
FOXP3	0.055	0.283	0.196	0.374

760				
FEATURES	770		780	
	PD1	CTLA4	PD1	CTLA4
T_cell_NK_signature	0.189	0.345	0.447	0.428
GMKLR1	0.002	0.283	0.168	0.172
HLA.E	0.194	0.373	0.325	0.318
NKG7	0.012	0.323	0.176	0.189

720				
FEATURES	770		780	
	PD1	CTLA4	PD1	CTLA4
Cytolytic_signature	-0.128	0.401	0.292	0.247
GZMA	0.005	0.379	0.238	0.361
PRF1	-0.081	0.402	0.315	0.273
cd19_dec	-0.126	0.352	0.360	0.396
cd14_dec	0.127	0.171	0.257	0.209
cd18_dec	-0.013	0.565	0.140	1.326

730				
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FIG. 7

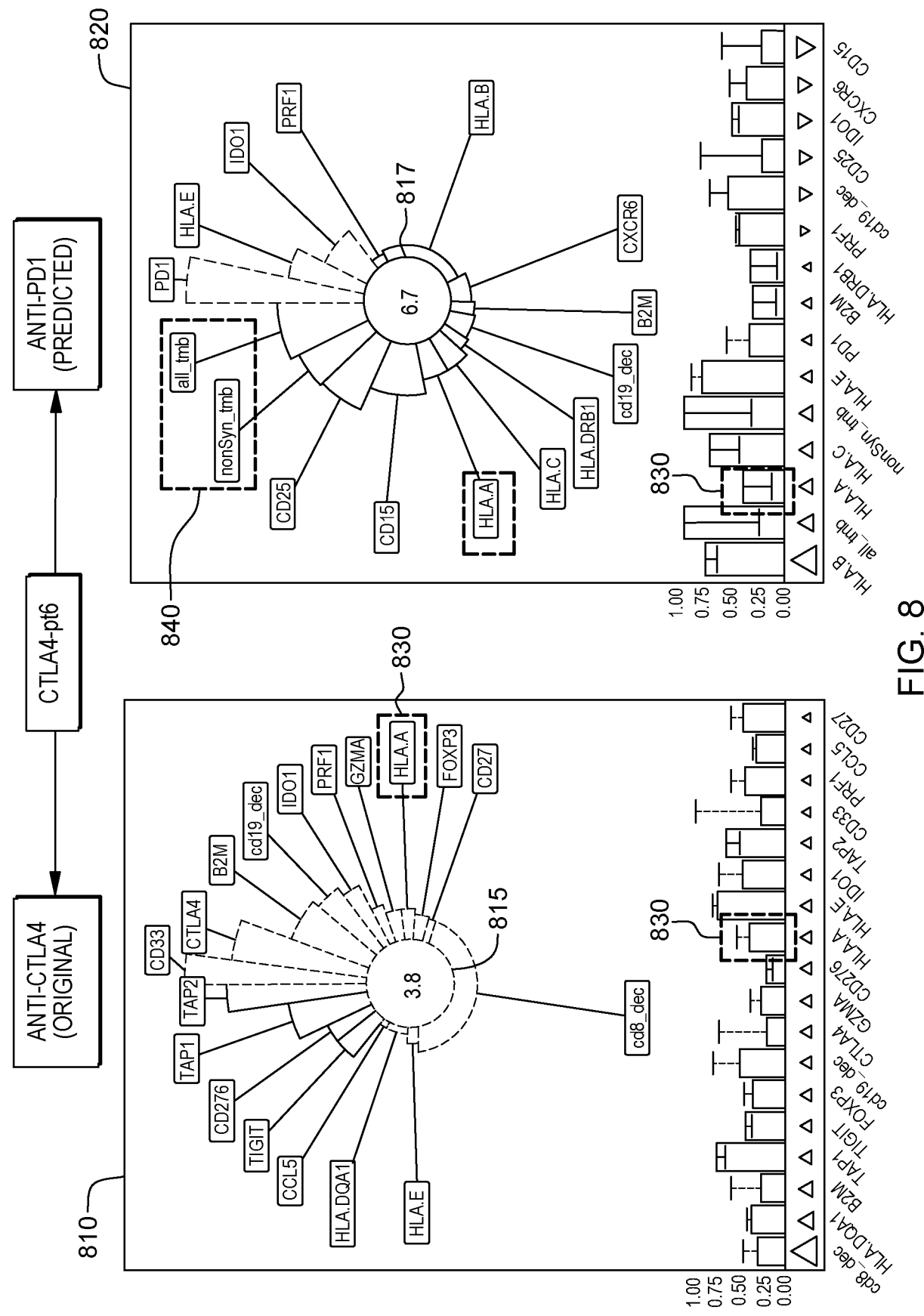
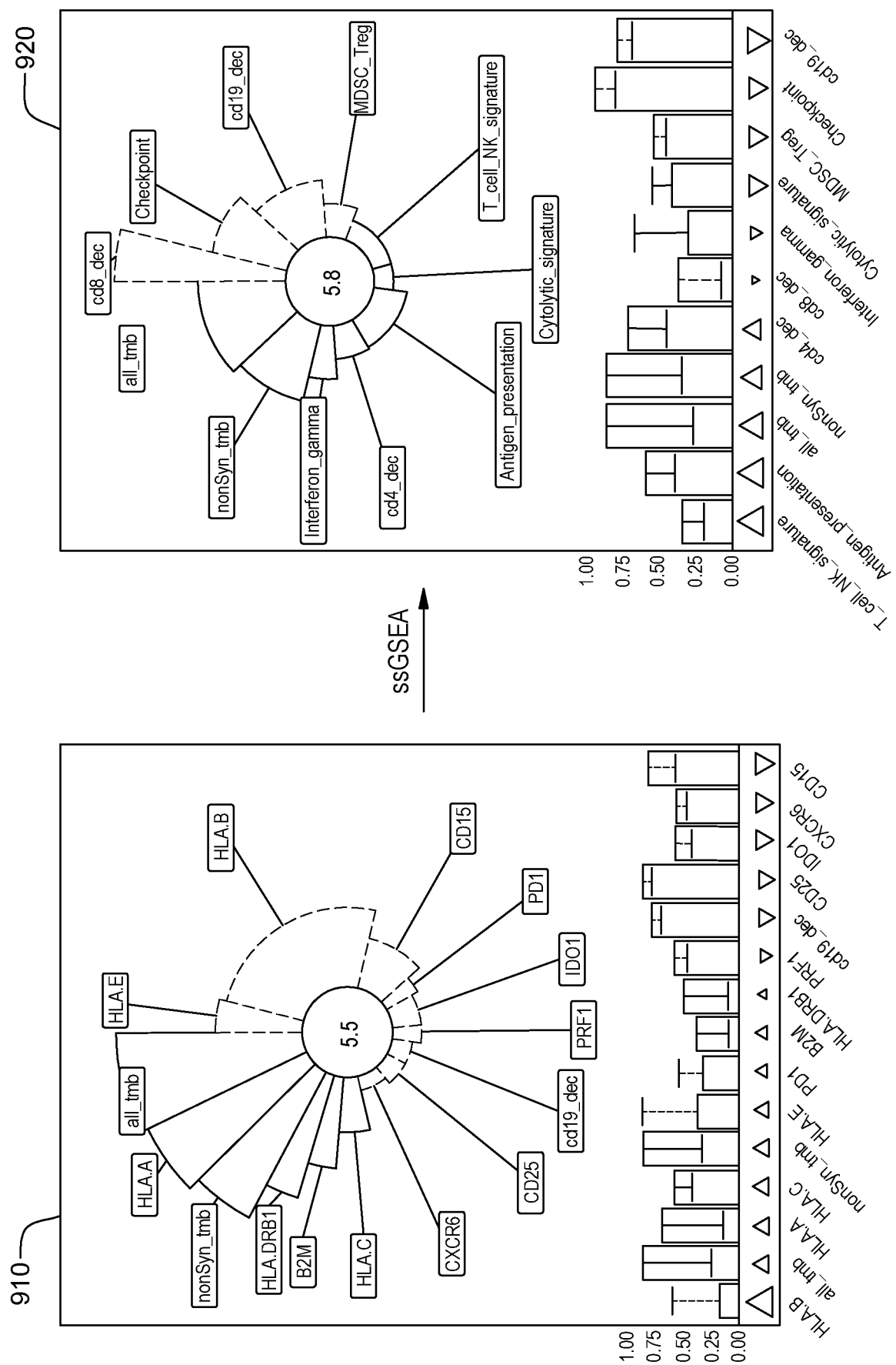


FIG. 8



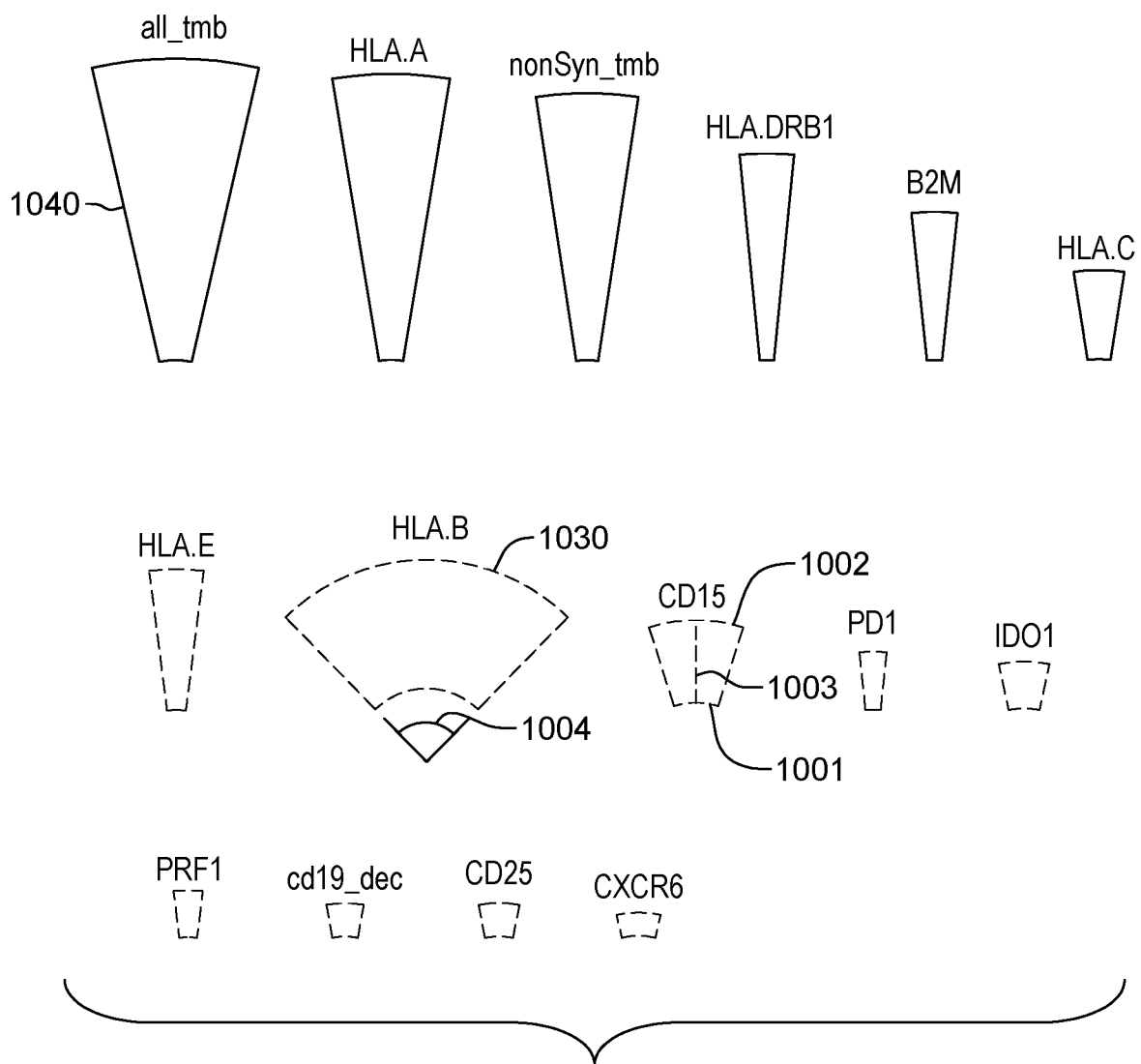


FIG. 10

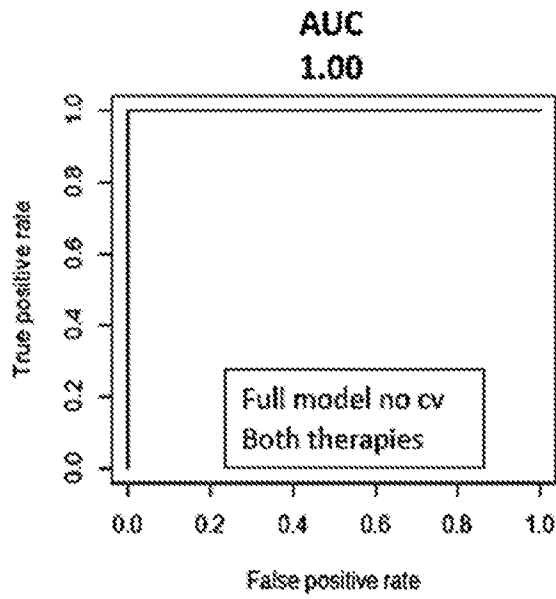


FIG. 11A

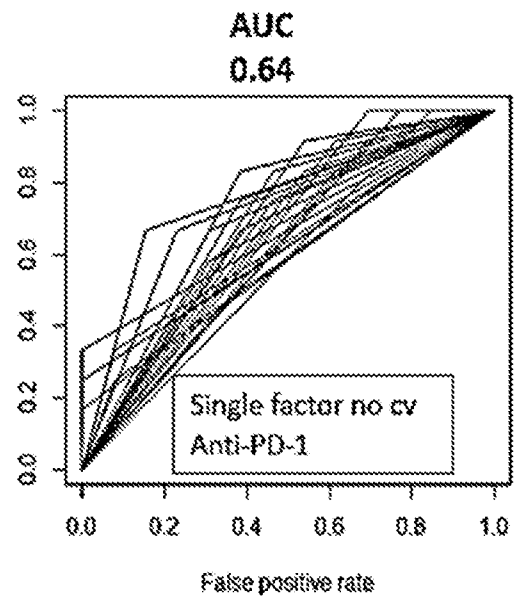


FIG. 11B

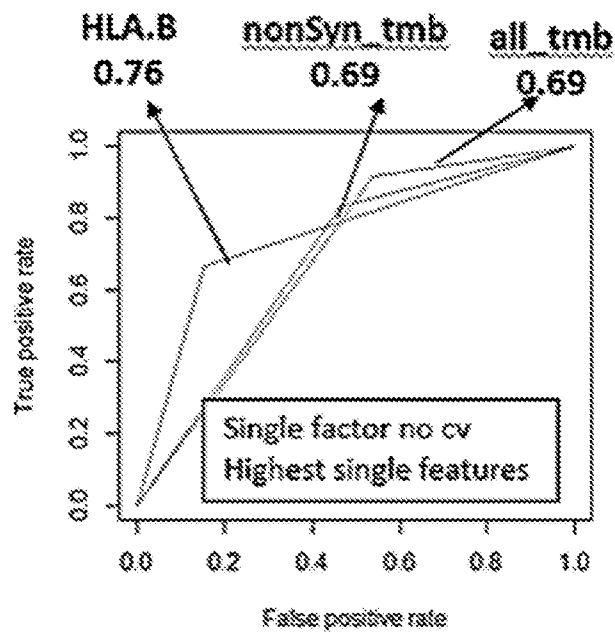
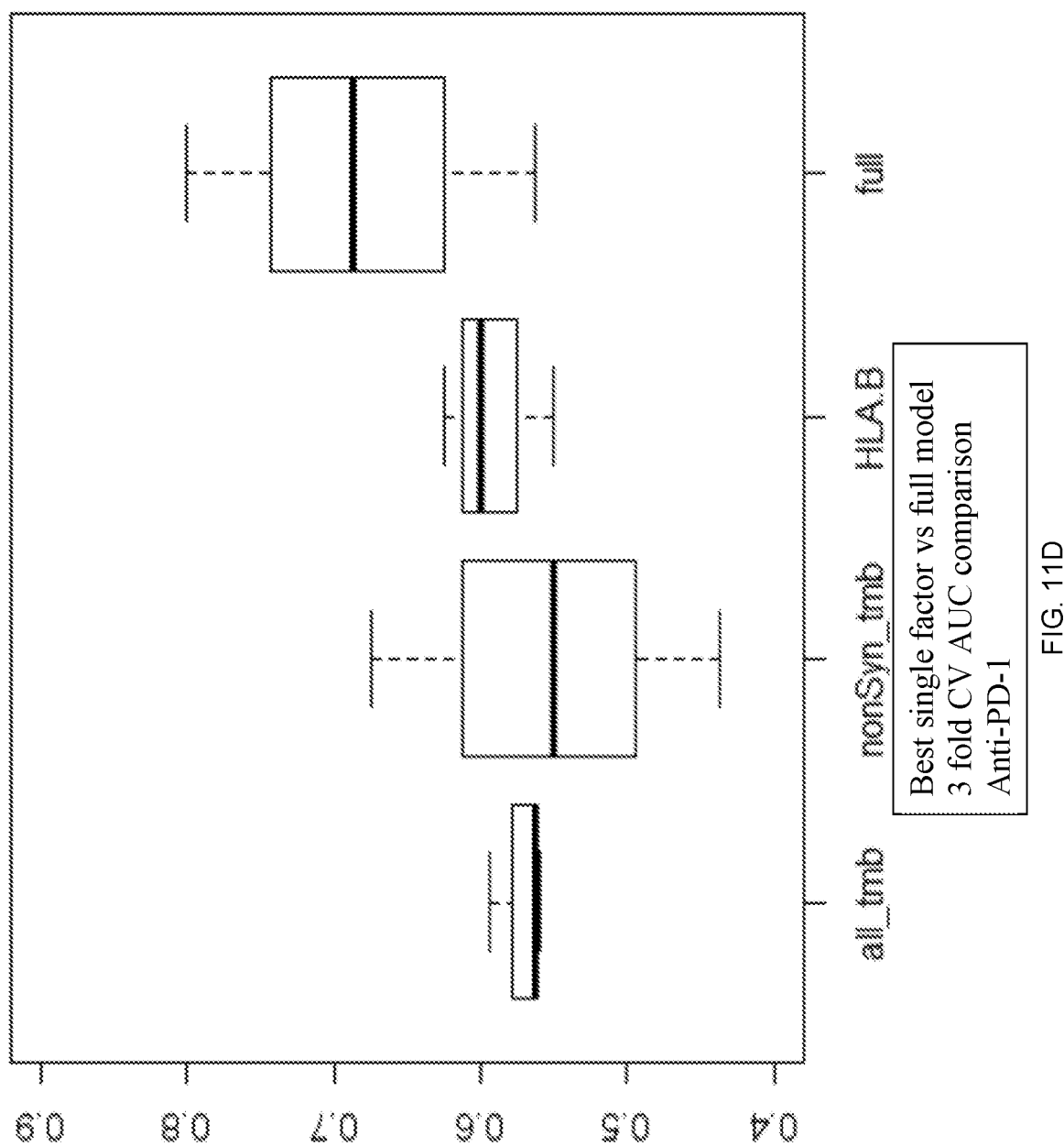


FIG. 11C



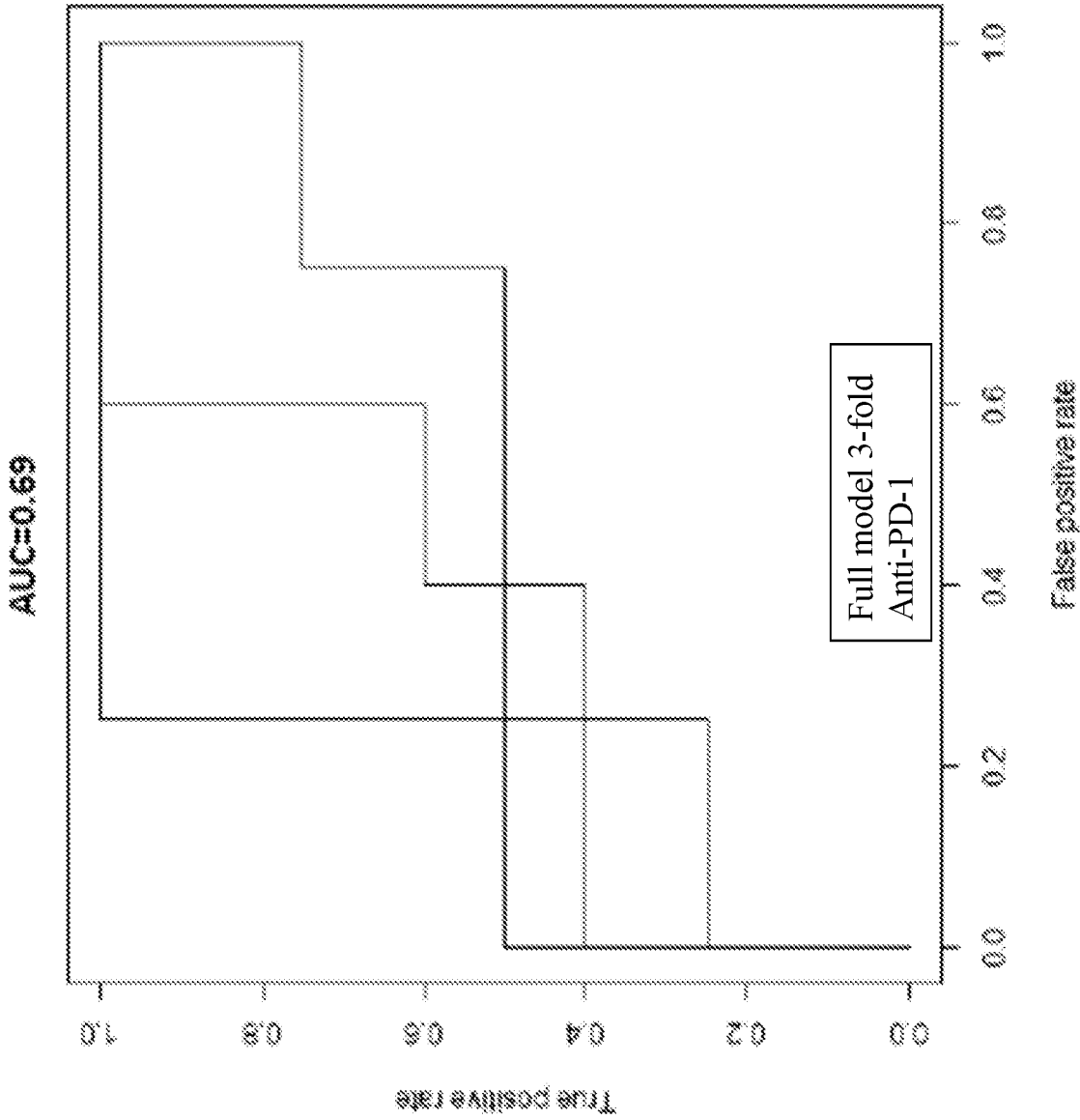


FIG. 12A

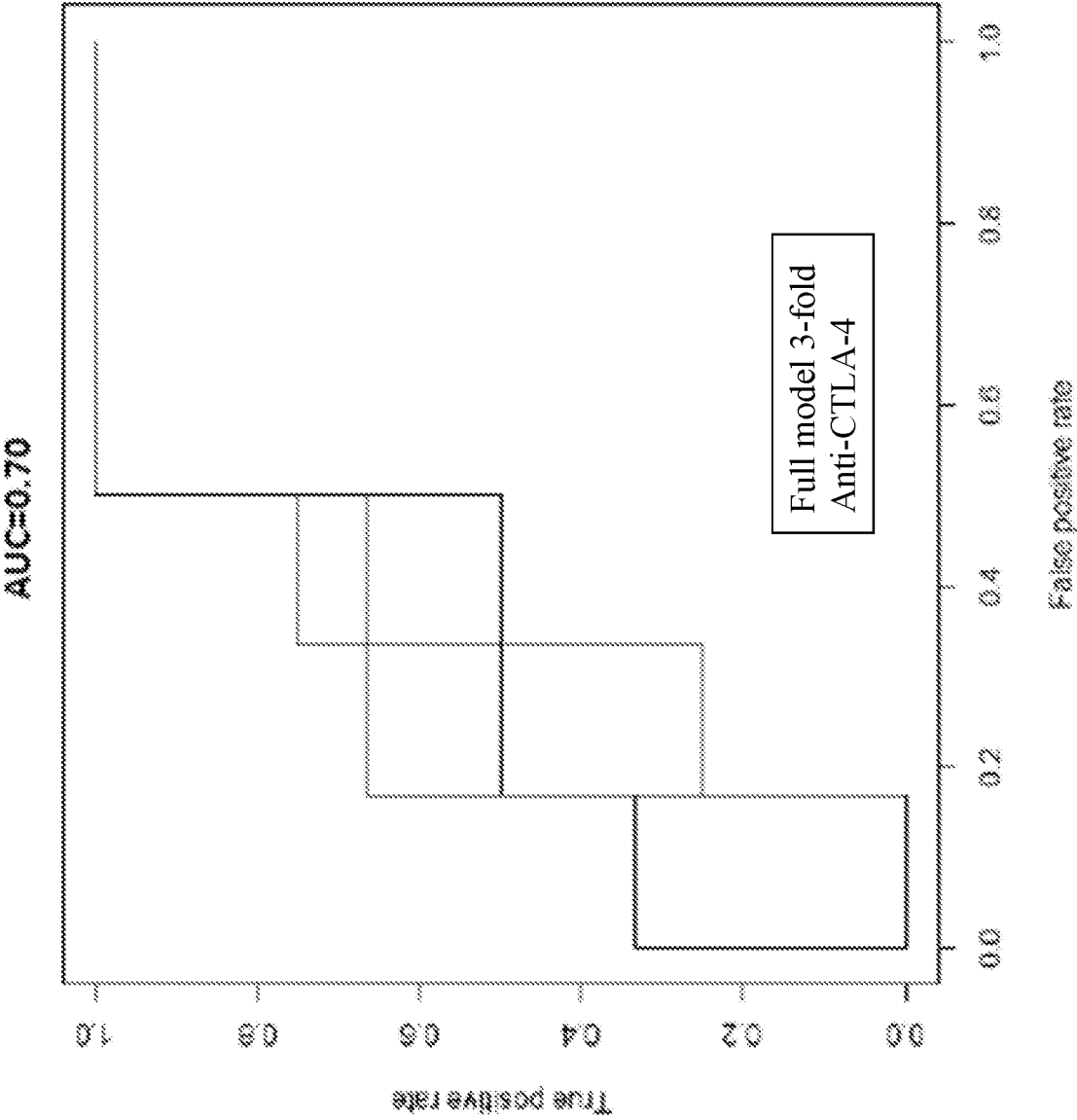


FIG. 12B

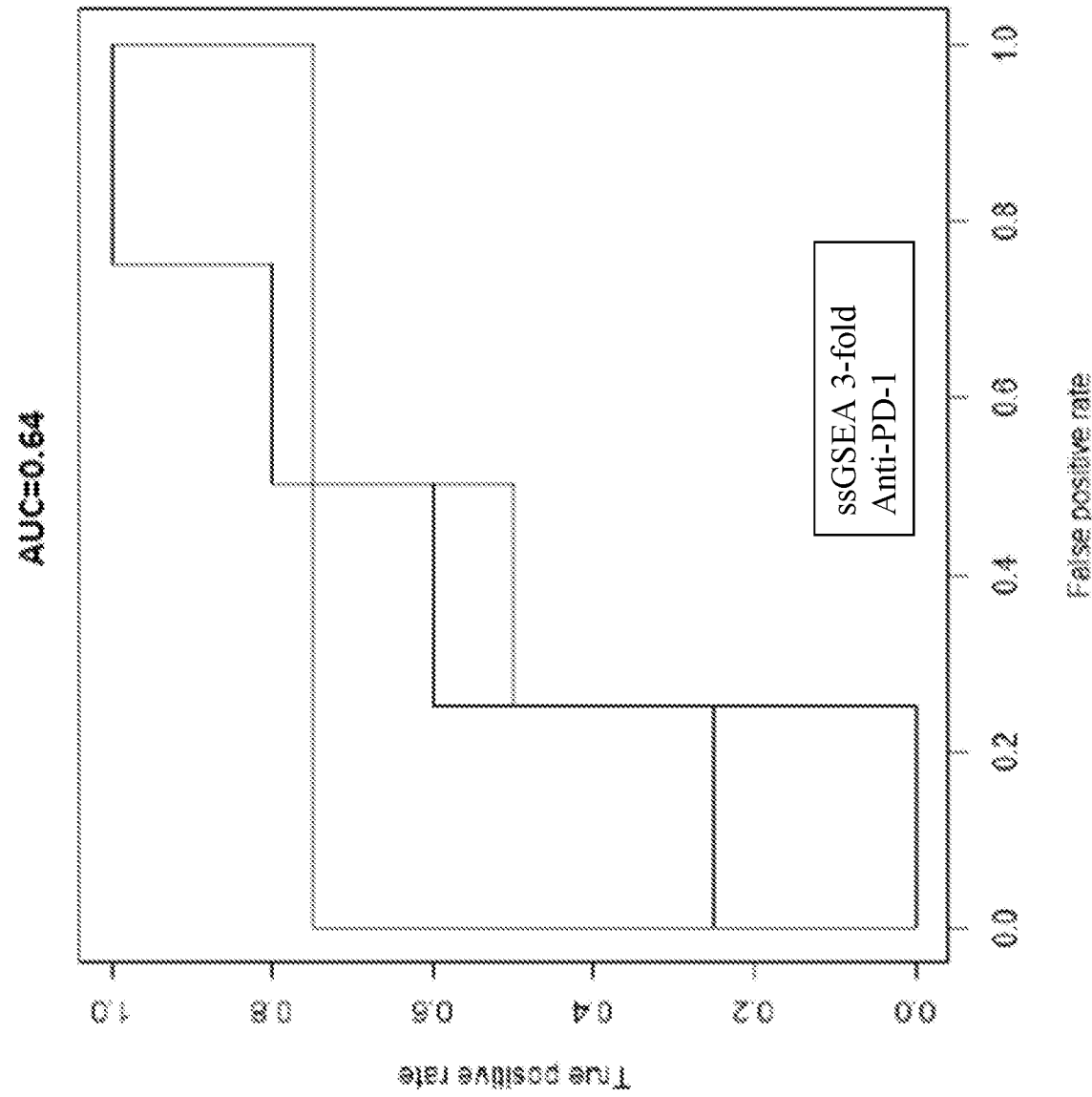


FIG. 12C

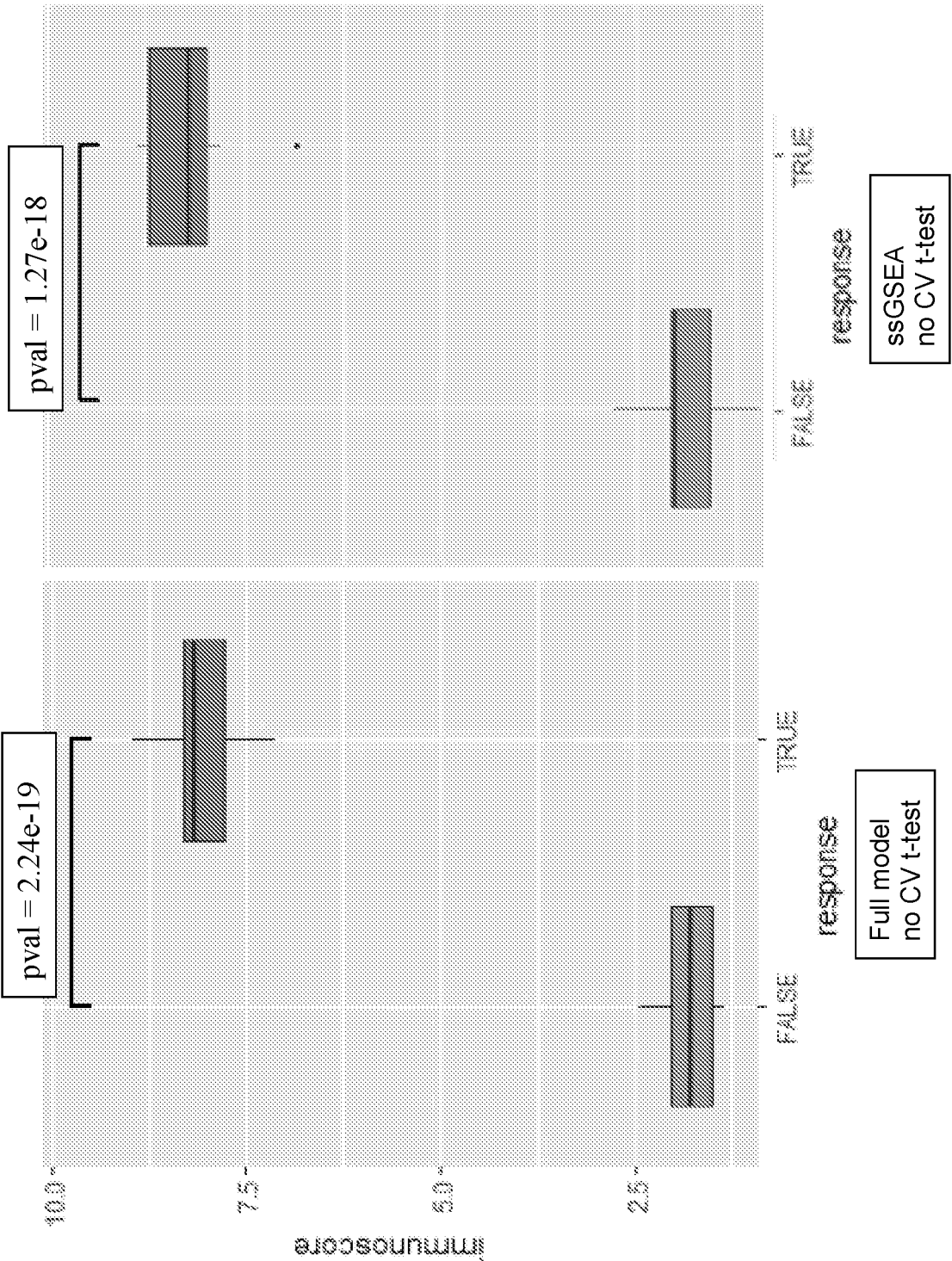


FIG. 12D