

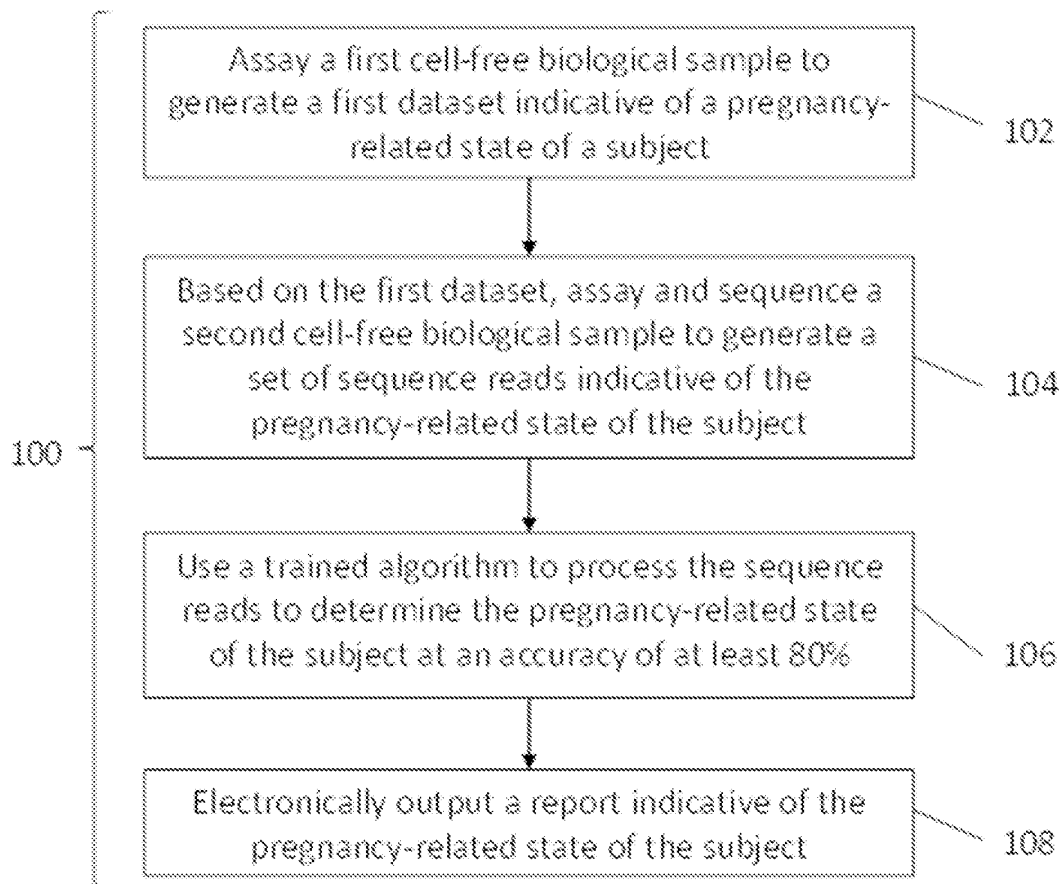


FIG. 1

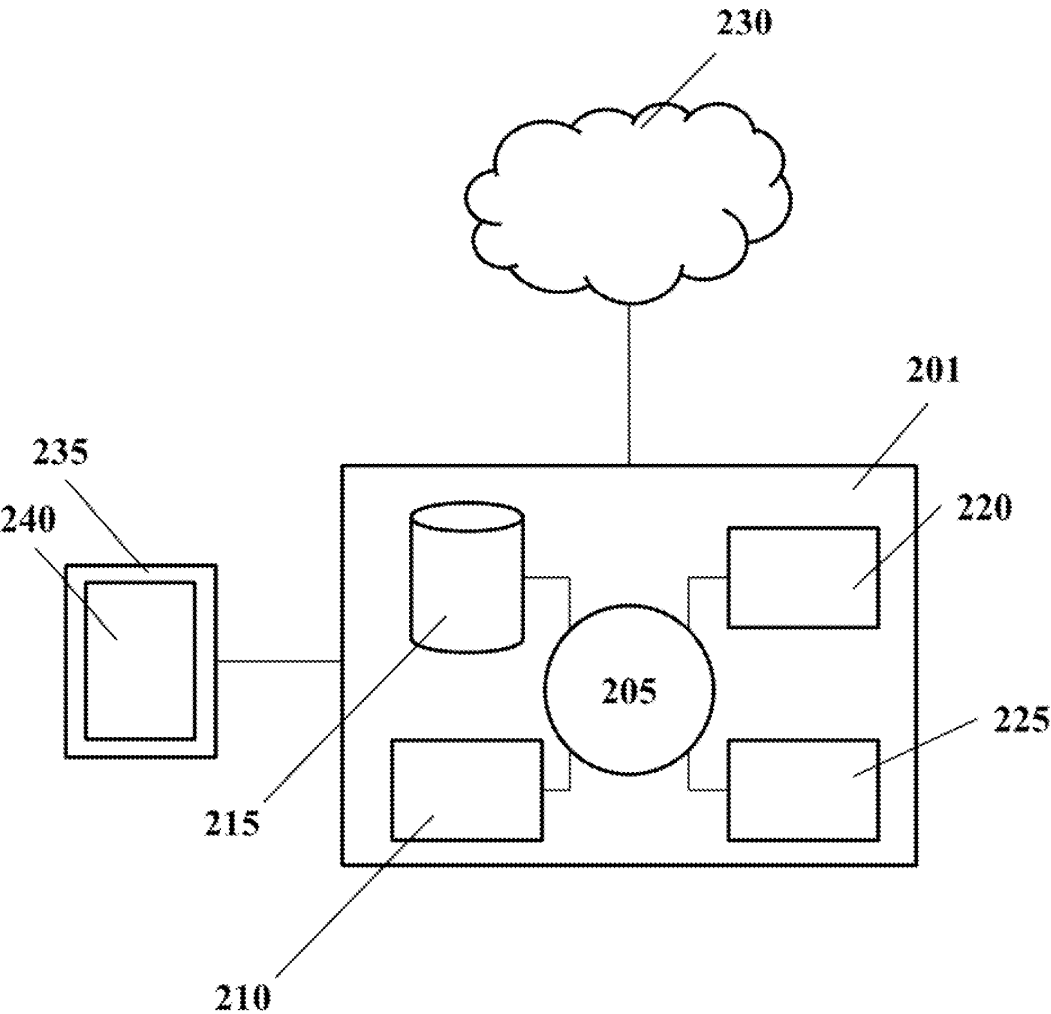


FIG. 2

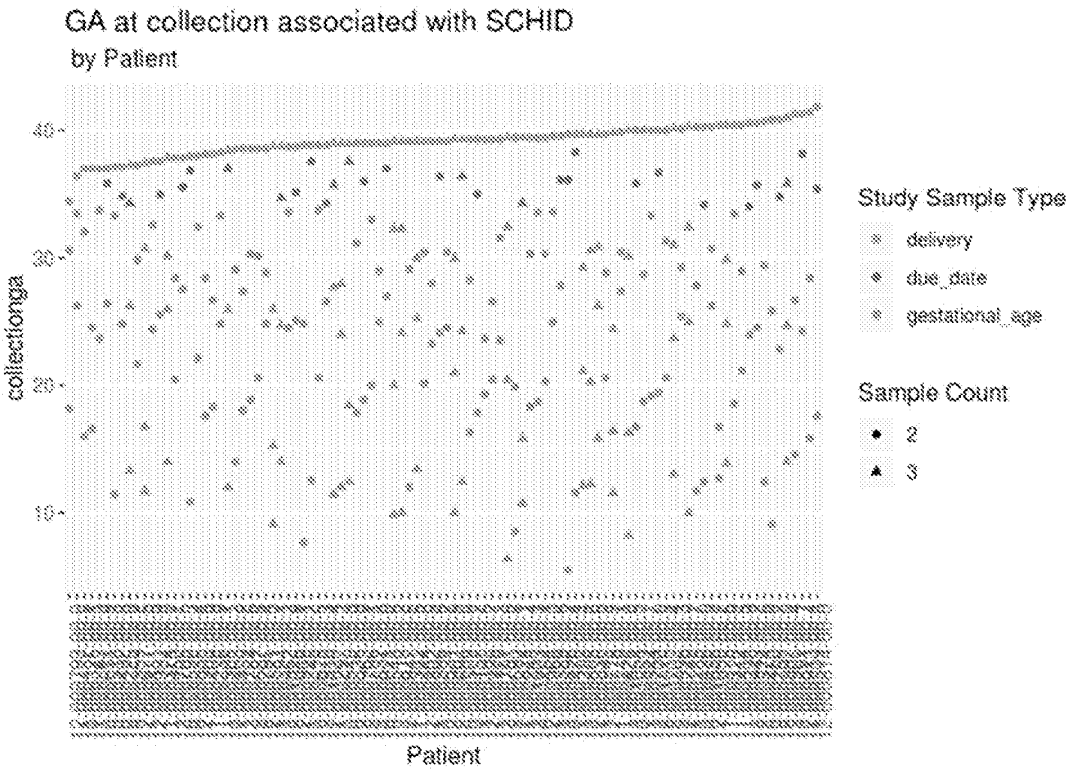


FIG. 3A

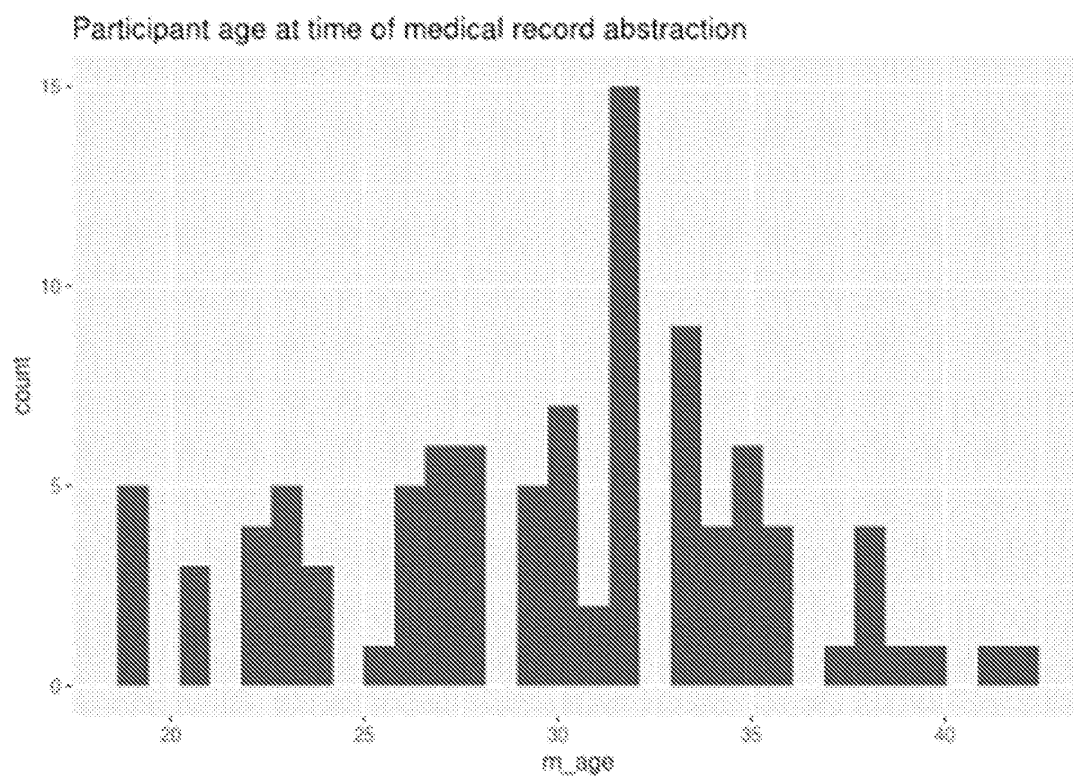


FIG. 3B

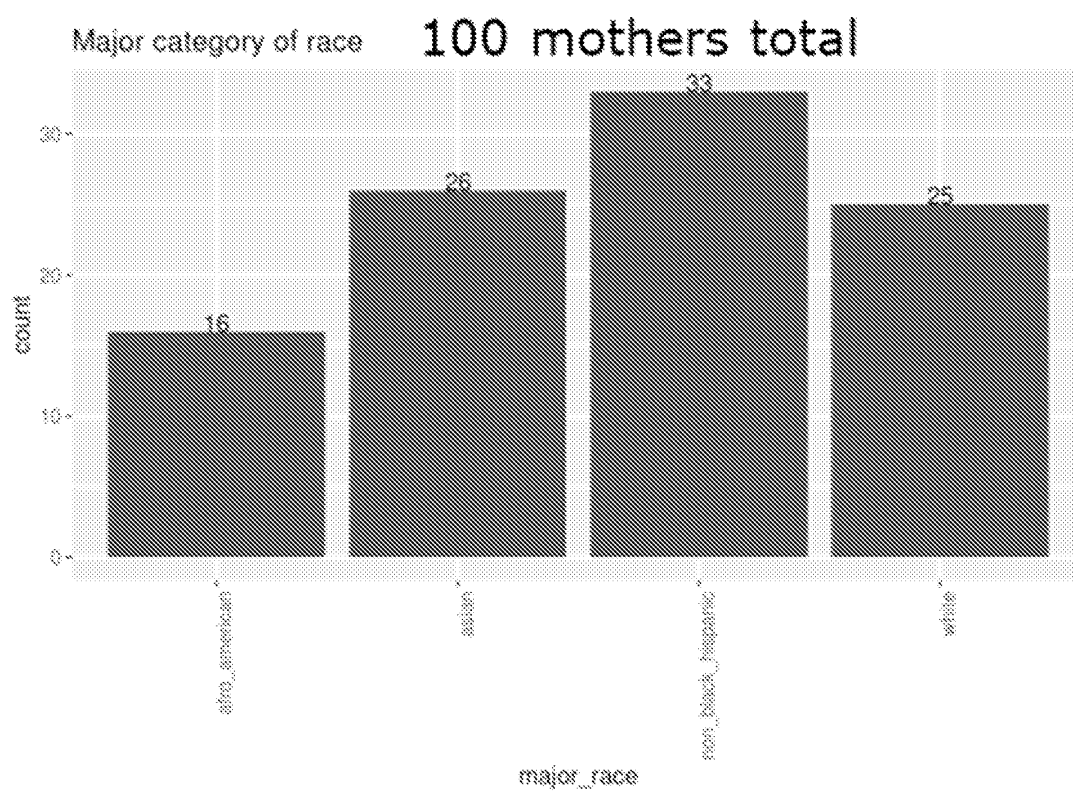


FIG. 3C

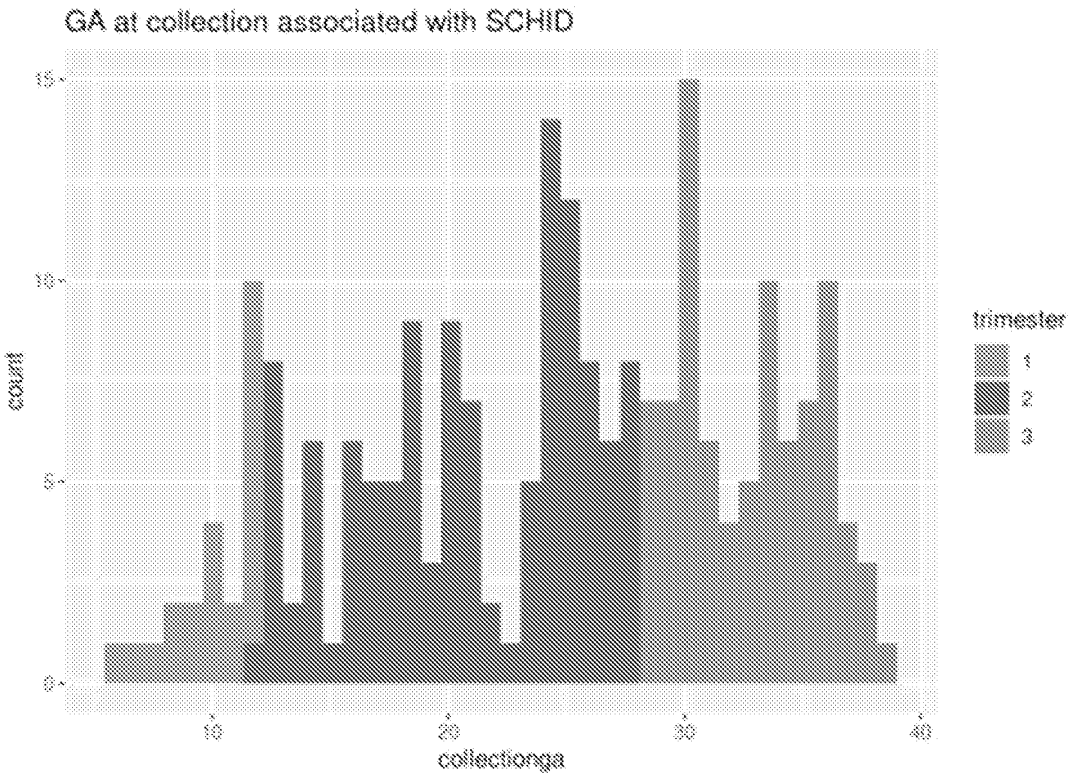


FIG. 3D

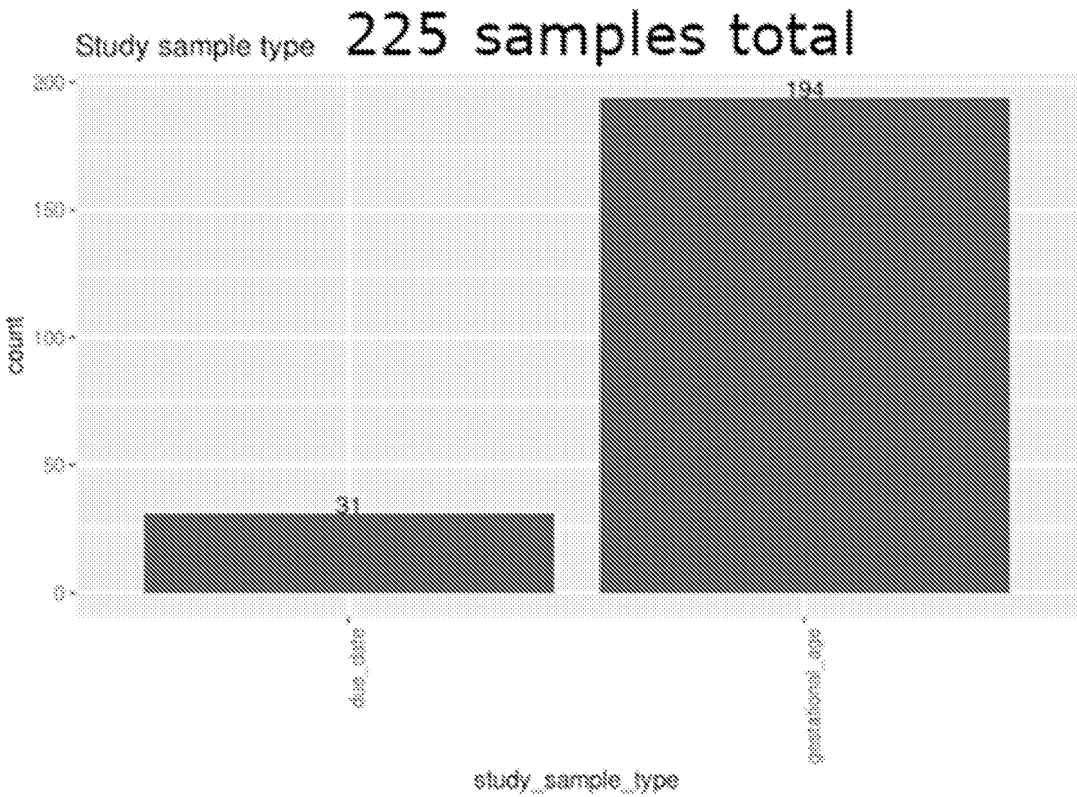


FIG. 3E

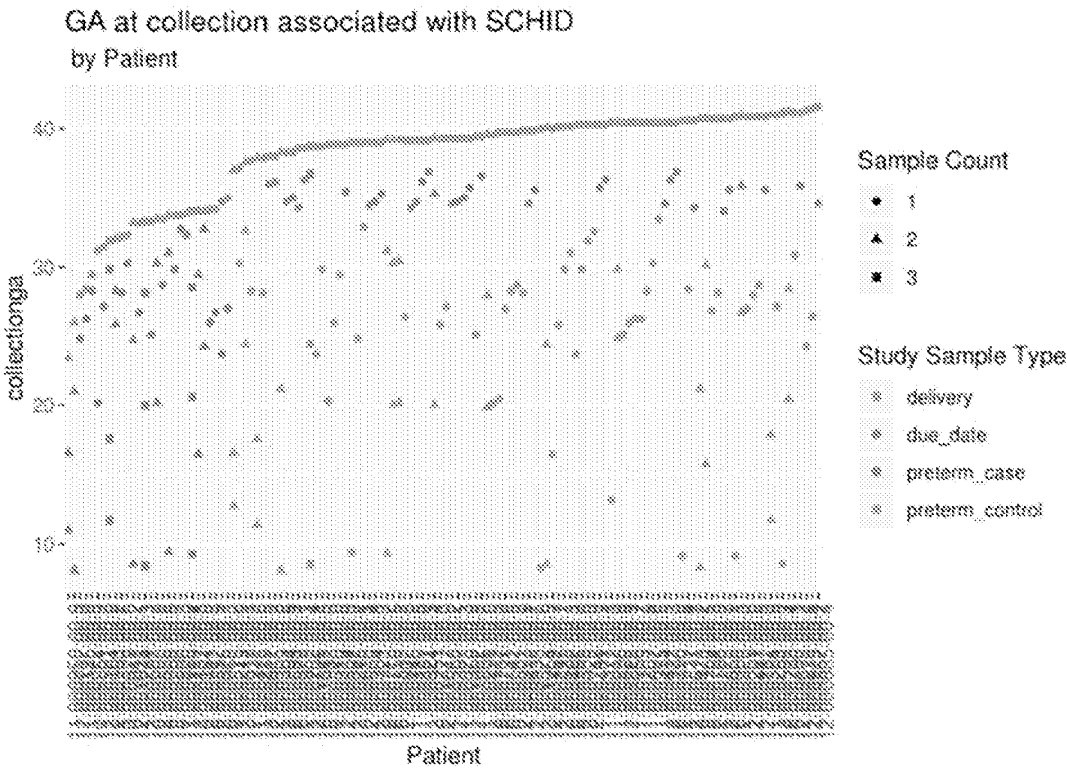


FIG. 4A

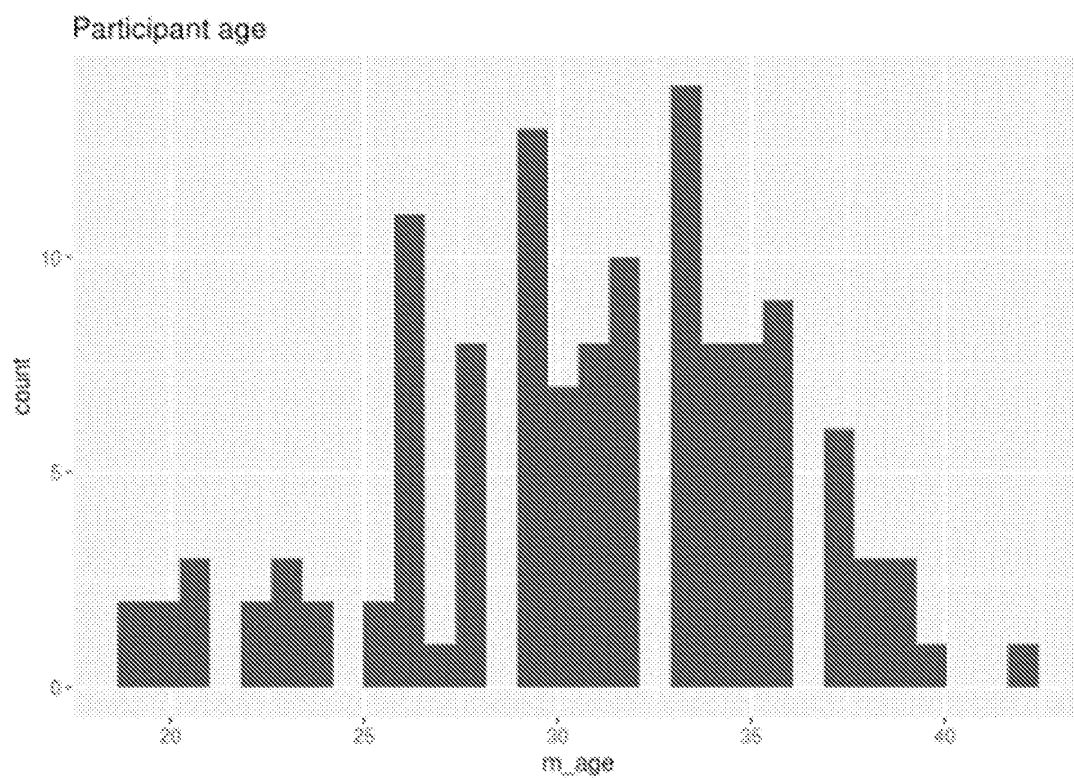


FIG. 4B

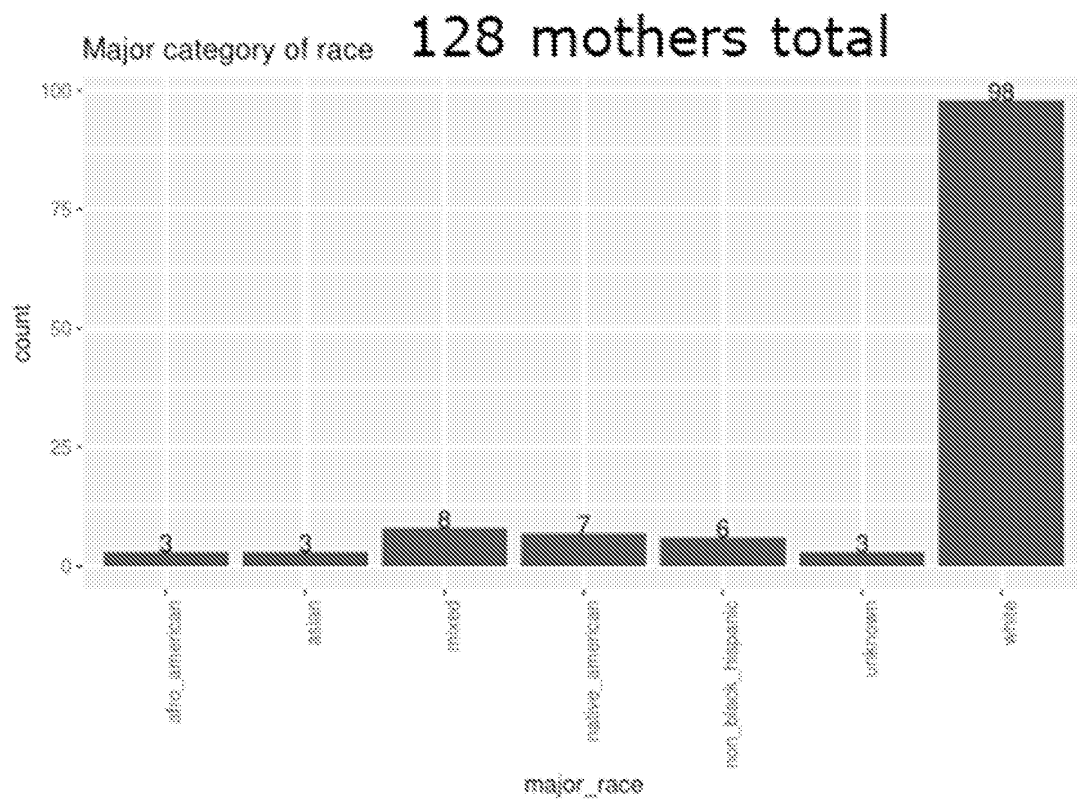


FIG. 4C

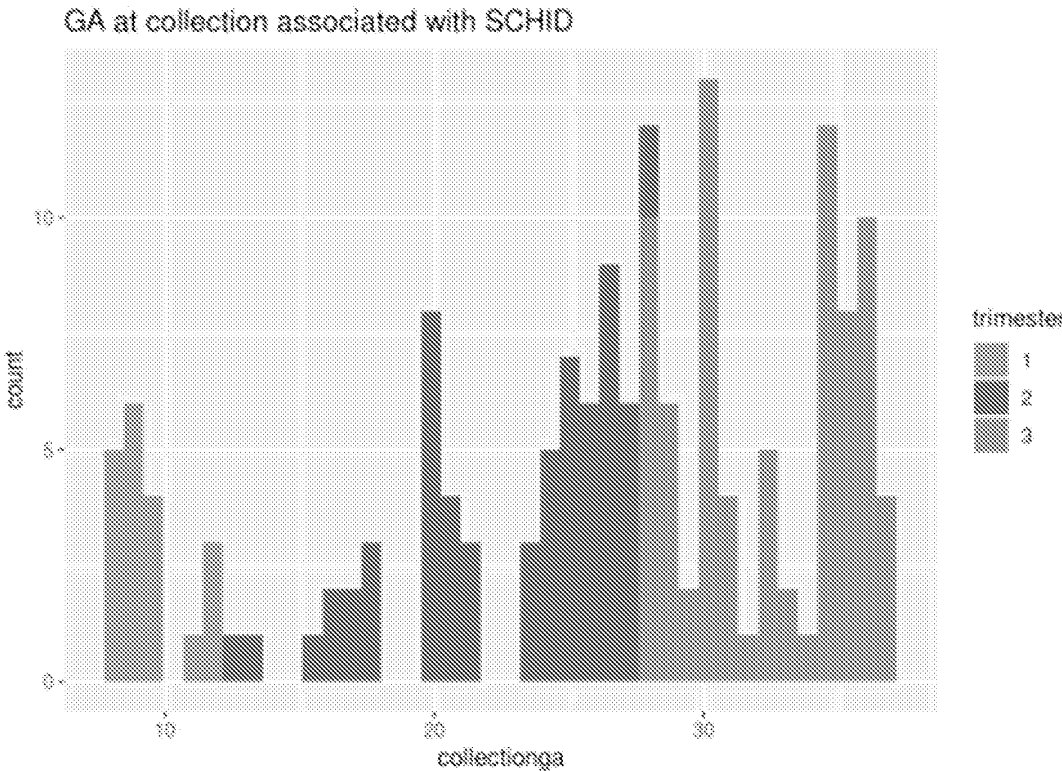


FIG. 4D

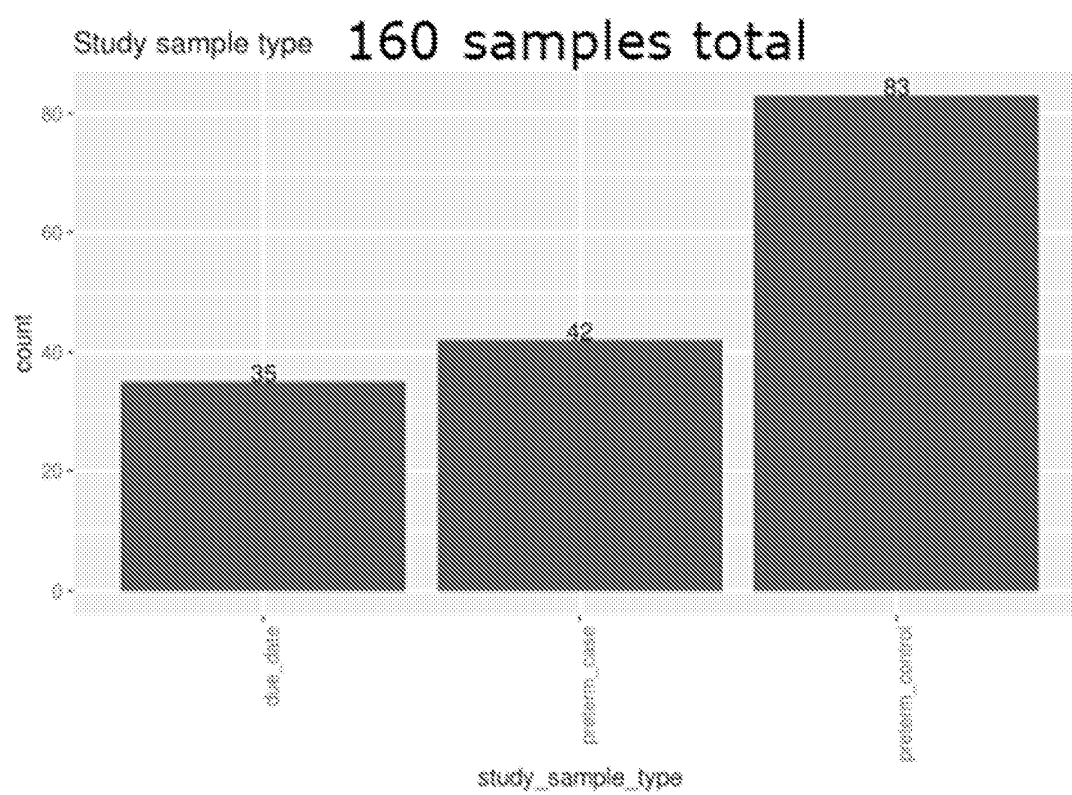


FIG. 4E

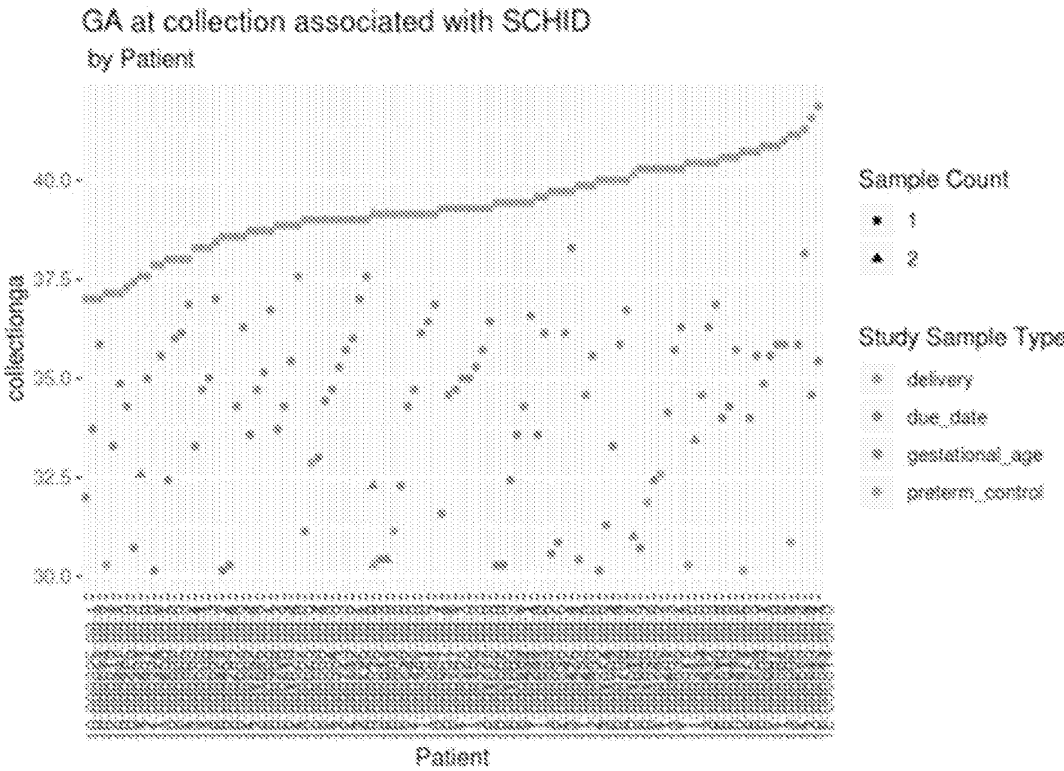


FIG. 5A

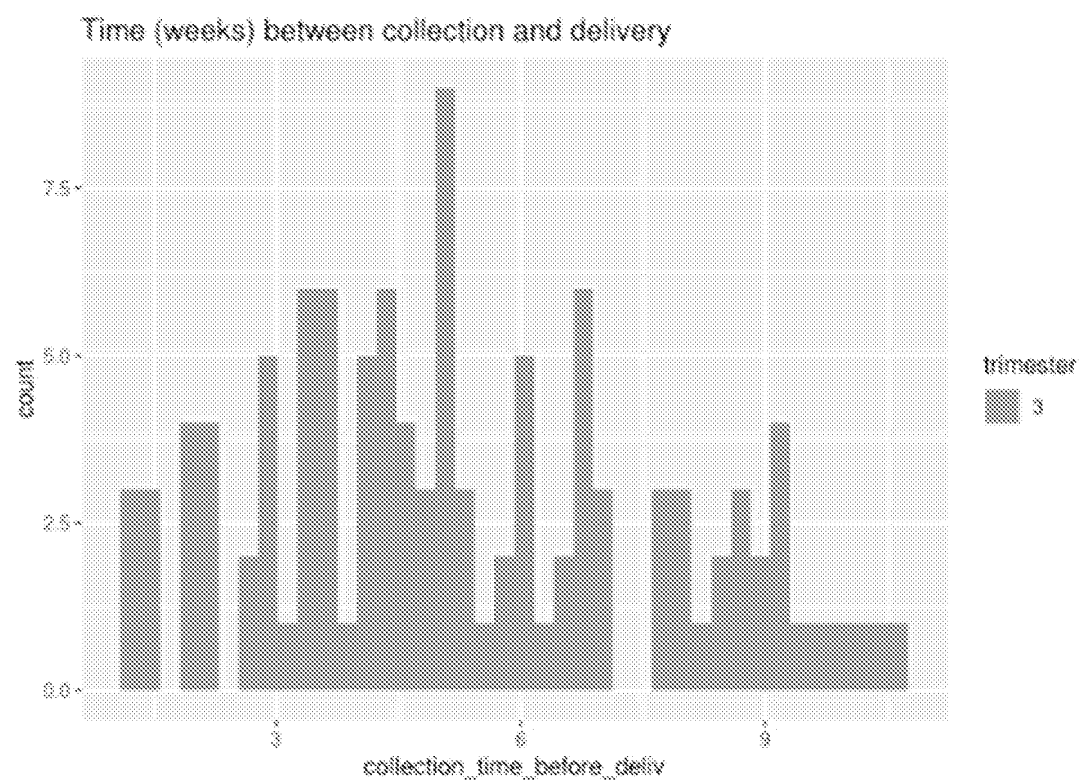
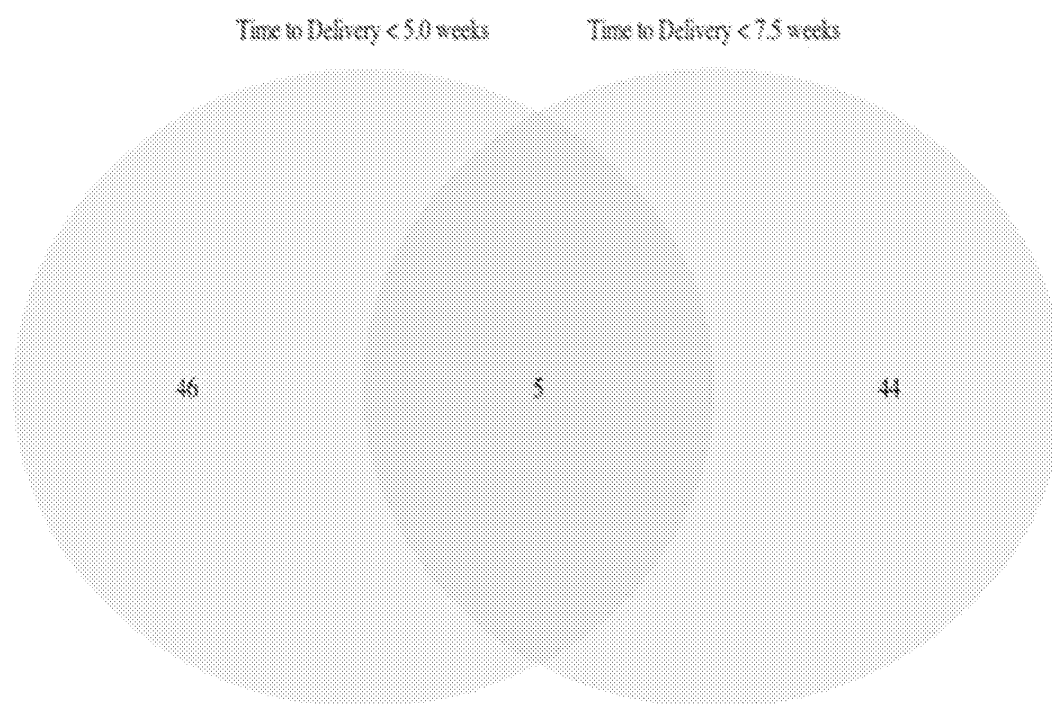


FIG. 5B

Overlap of genes used in model

**FIG. 5C**

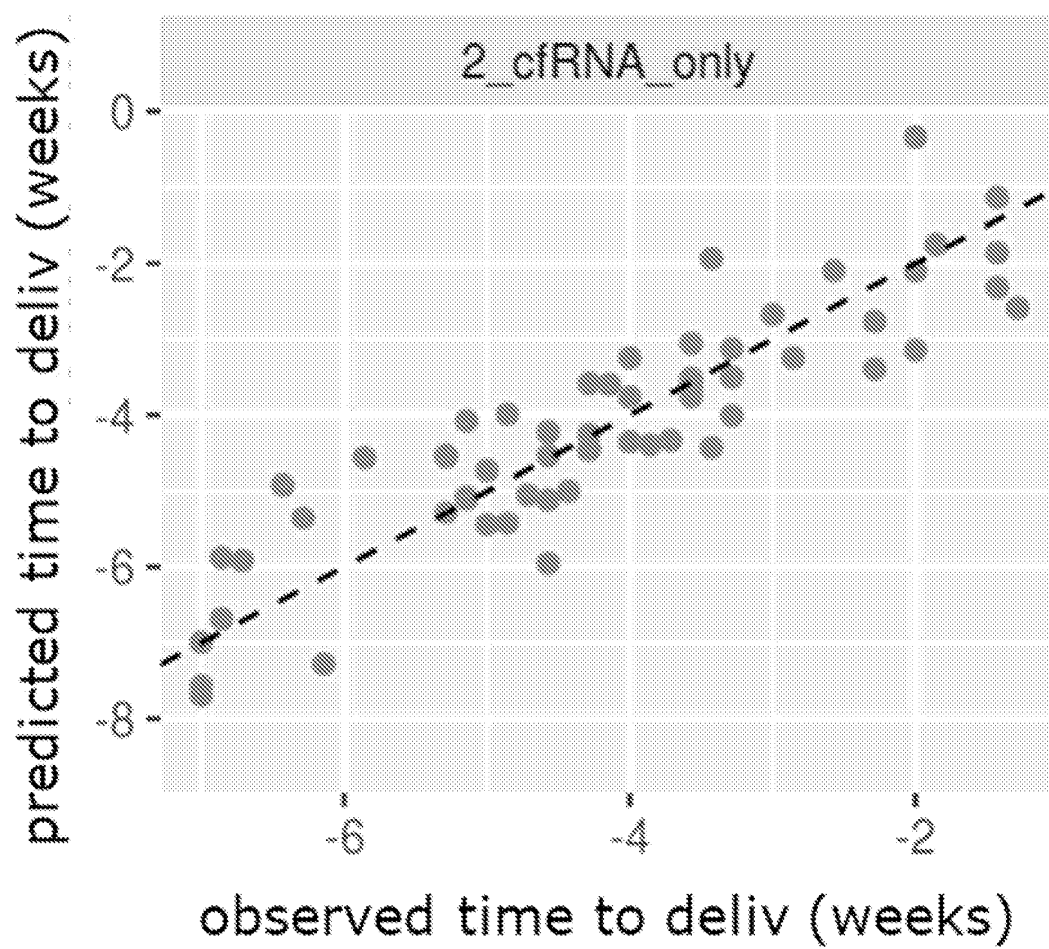


FIG. 5D

Gene Discovery					Model Building							
Project	sample dataset description	nSamples	nGenes input	Gene Discovery Model	n_genes discovered	sample dataset description	nSamples	model	nGenes used	RMSE null model	RMSE	RMSE description
DD	003_GA + 004_PG, min_time_to_deliv <5	43	15k	min_corr > 0.35	120	same	43	linear, elastic net regularization	28, 50+us	7.8 (days)	4.4, 4.2+us (days)	LOOCV
	003_GA + 004_PG, min_time_to_deliv <7.5	59	15k	min_corr > 0.30	62	same	59	linear, elastic net regularization	47, 48+us	11 days	5.0, 4.9+us (days)	LOOCV

FIG. 5E

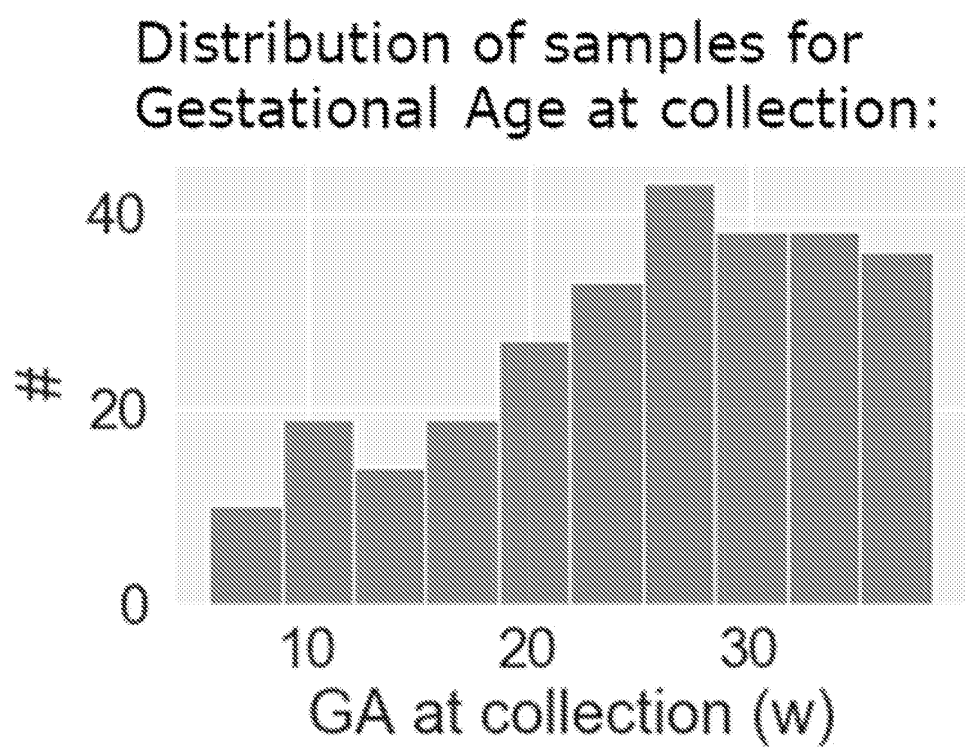


FIG. 6A

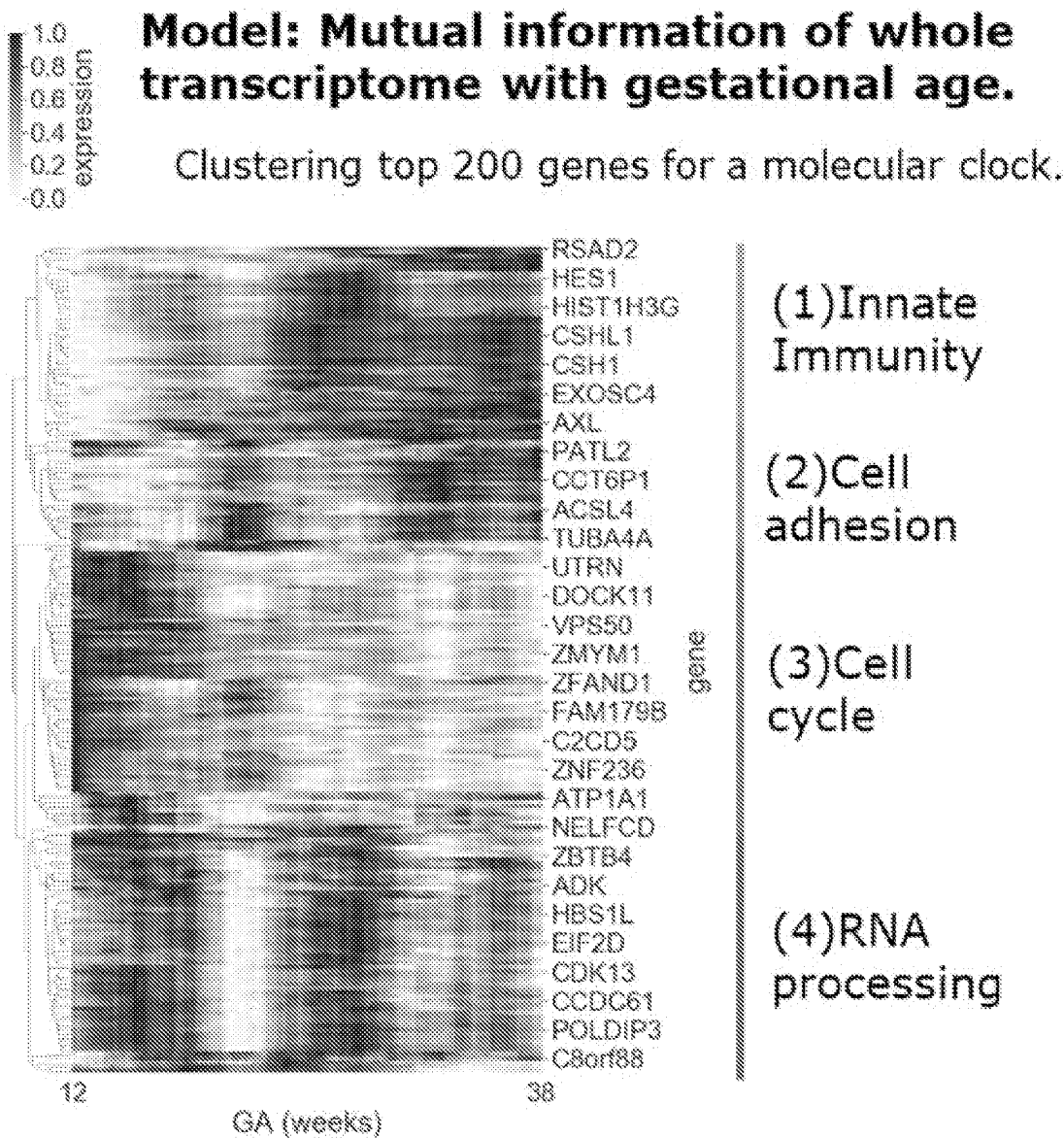


FIG. 6B

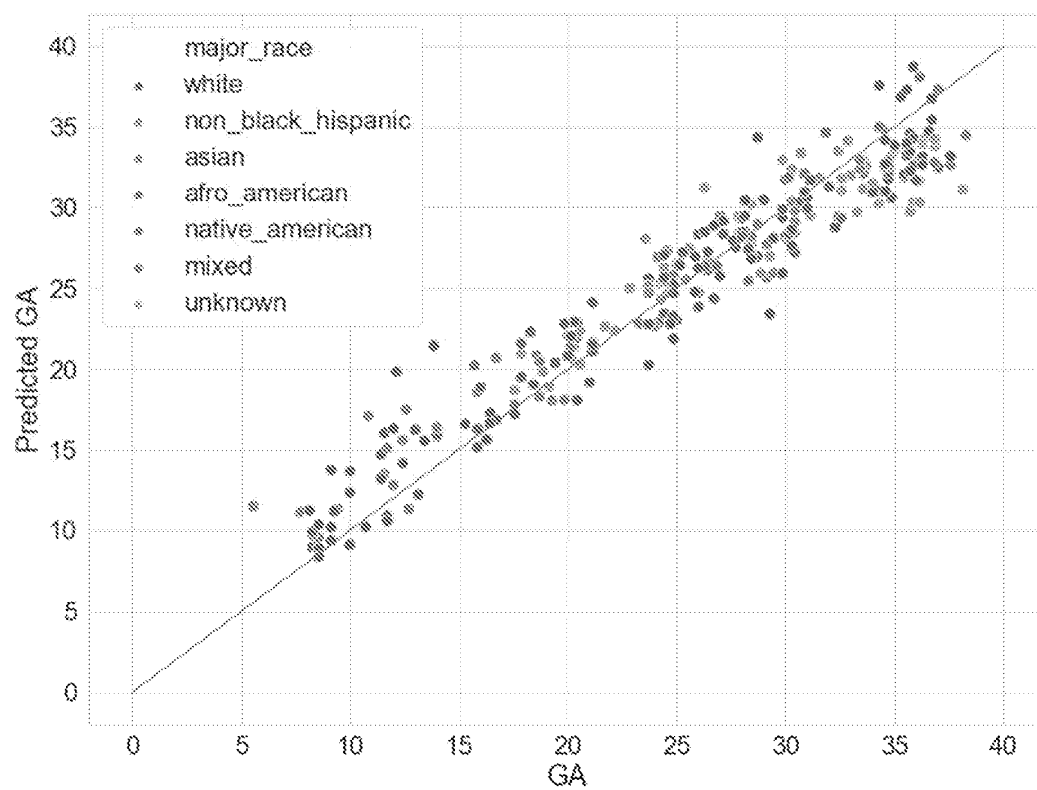


FIG. 6C

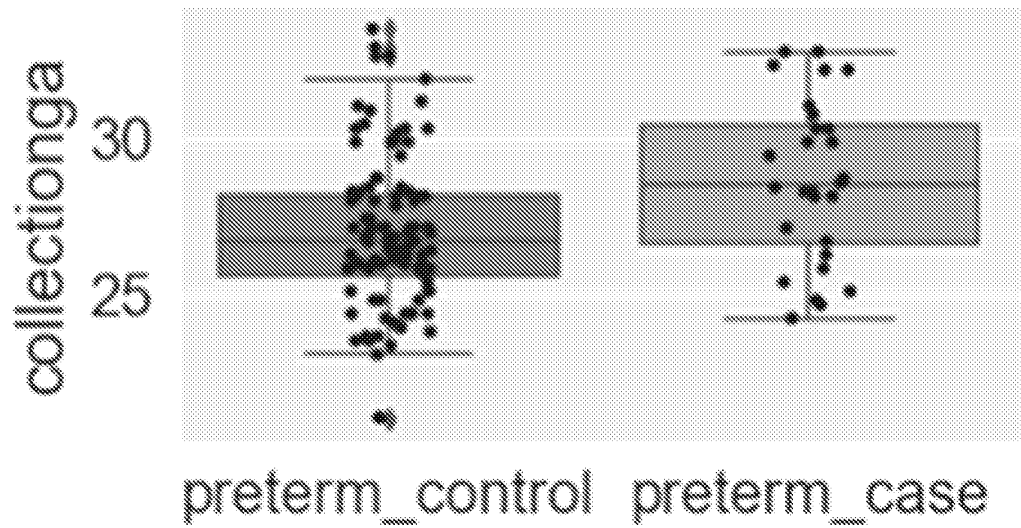


FIG. 7A

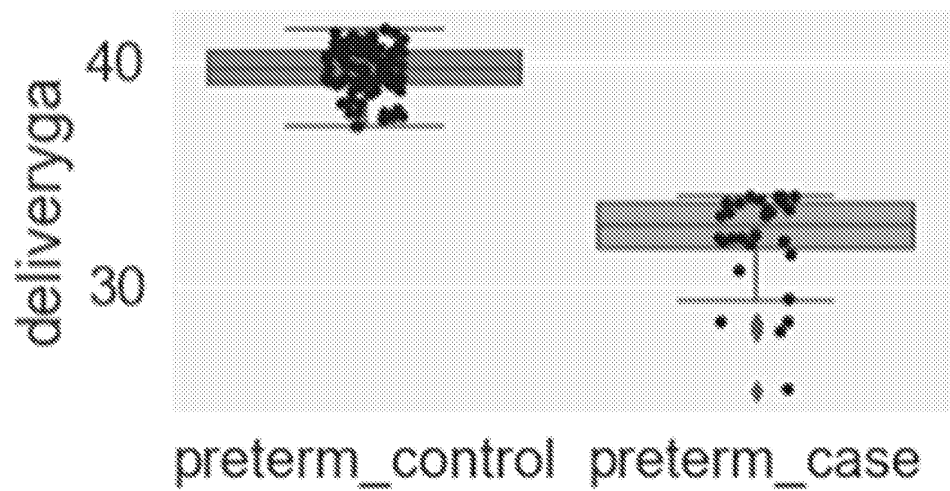


FIG. 7B

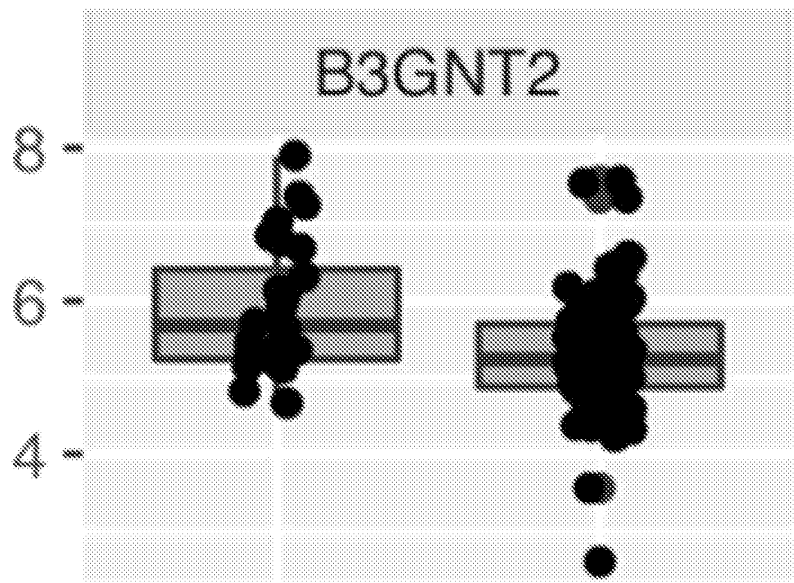


FIG. 7C

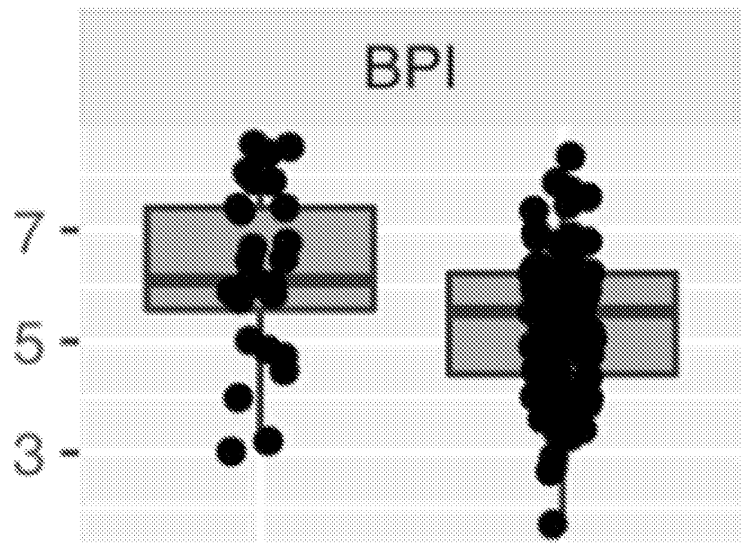


FIG. 7D

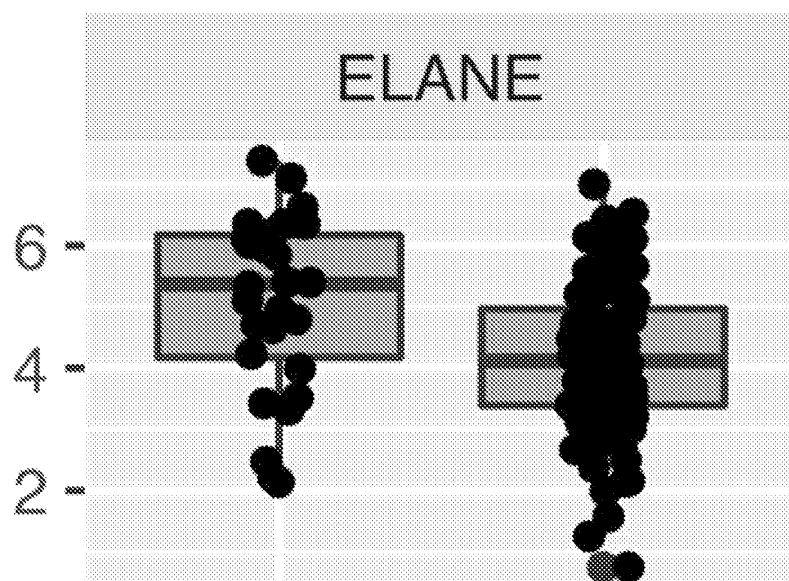


FIG. 7E

(Delivery:)

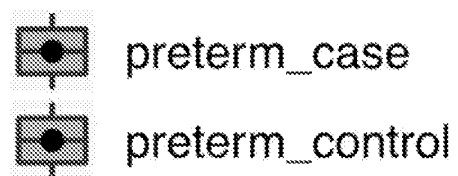


FIG. 7F

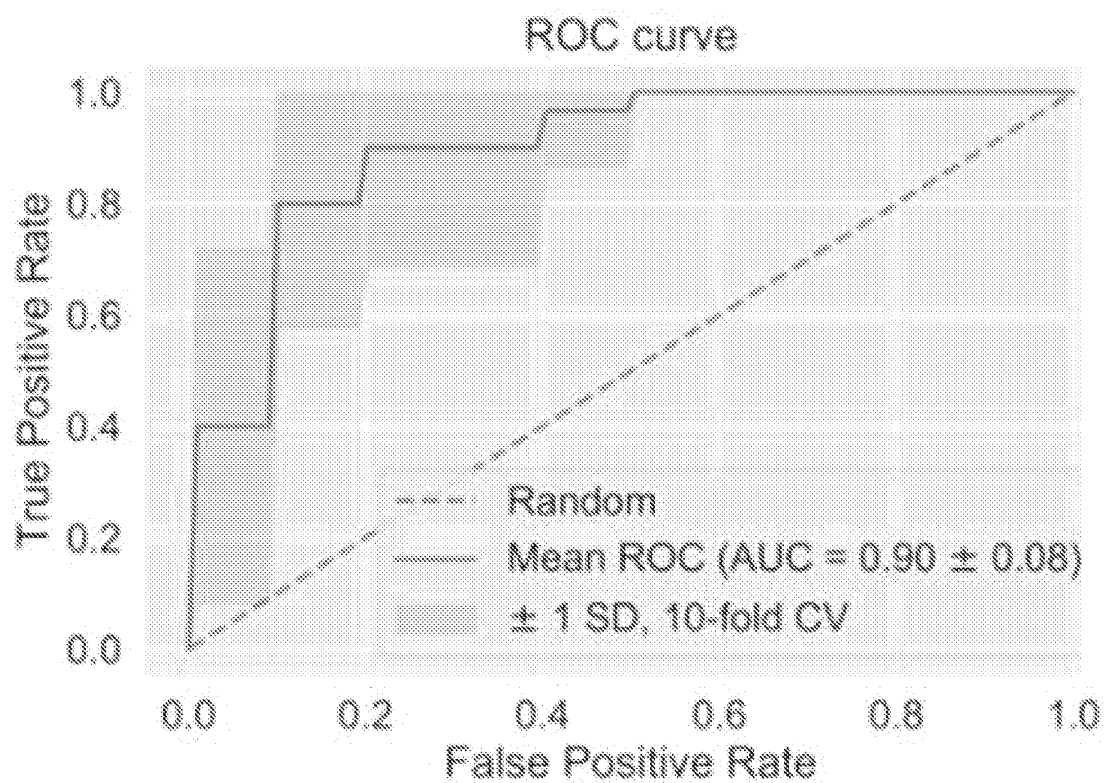


FIG. 7G

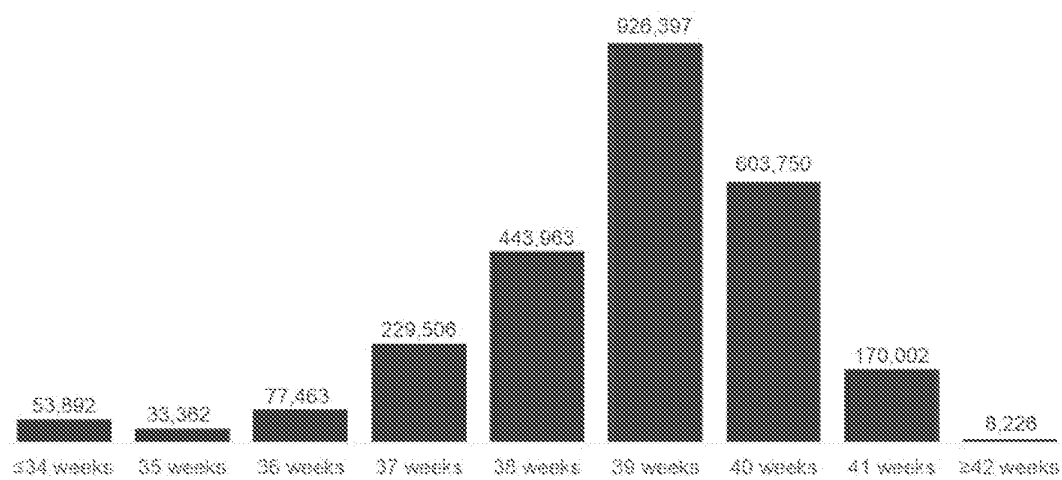


FIG. 8

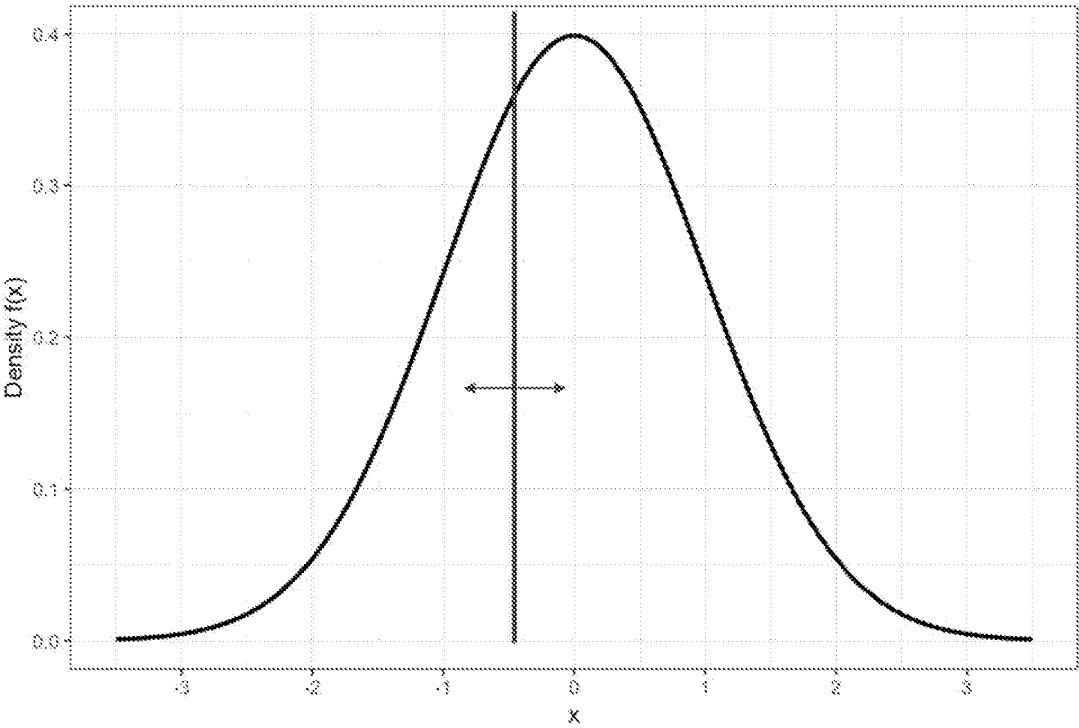


FIG. 9A

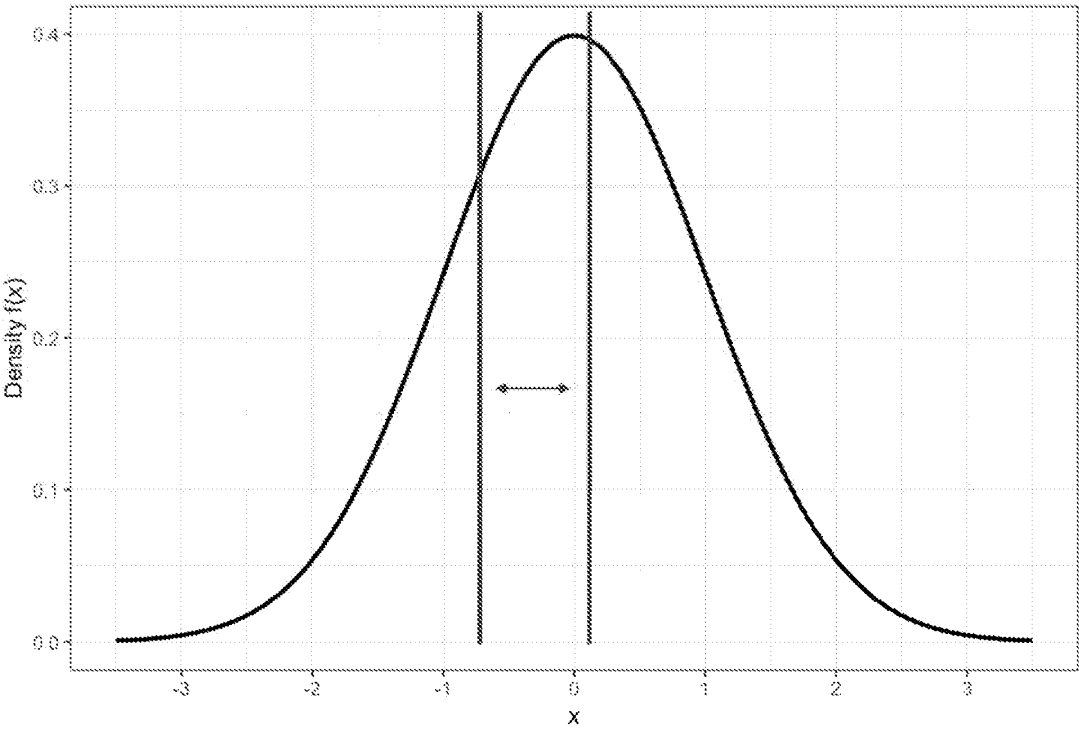


FIG. 9B

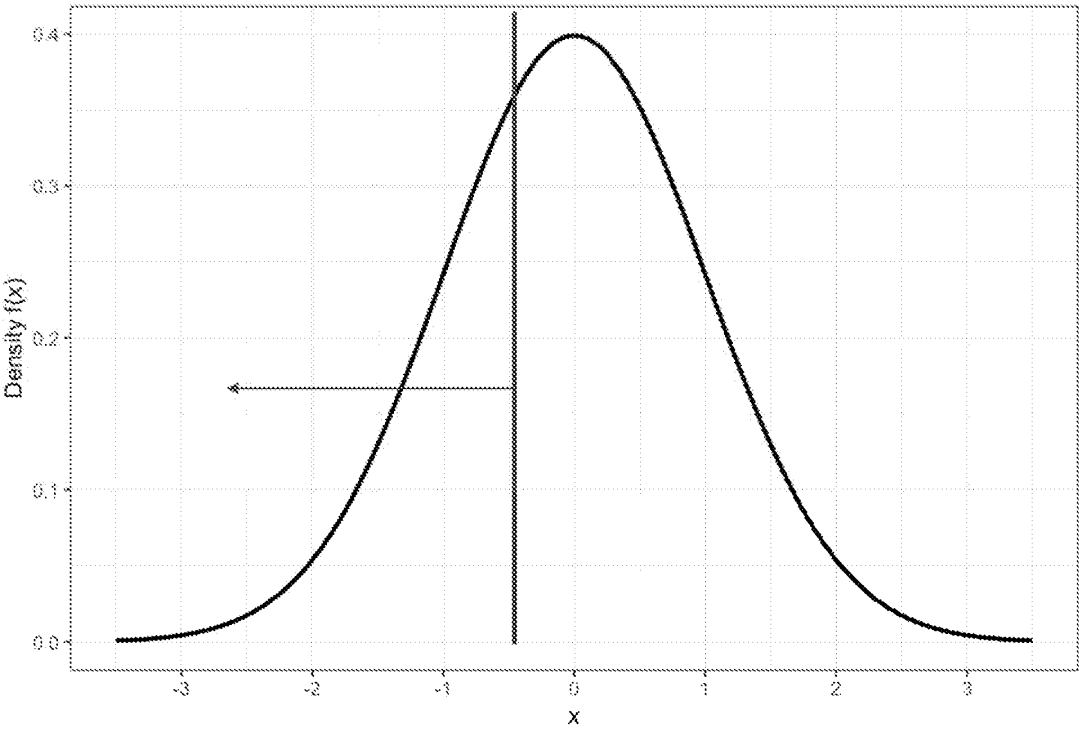


FIG. 9C

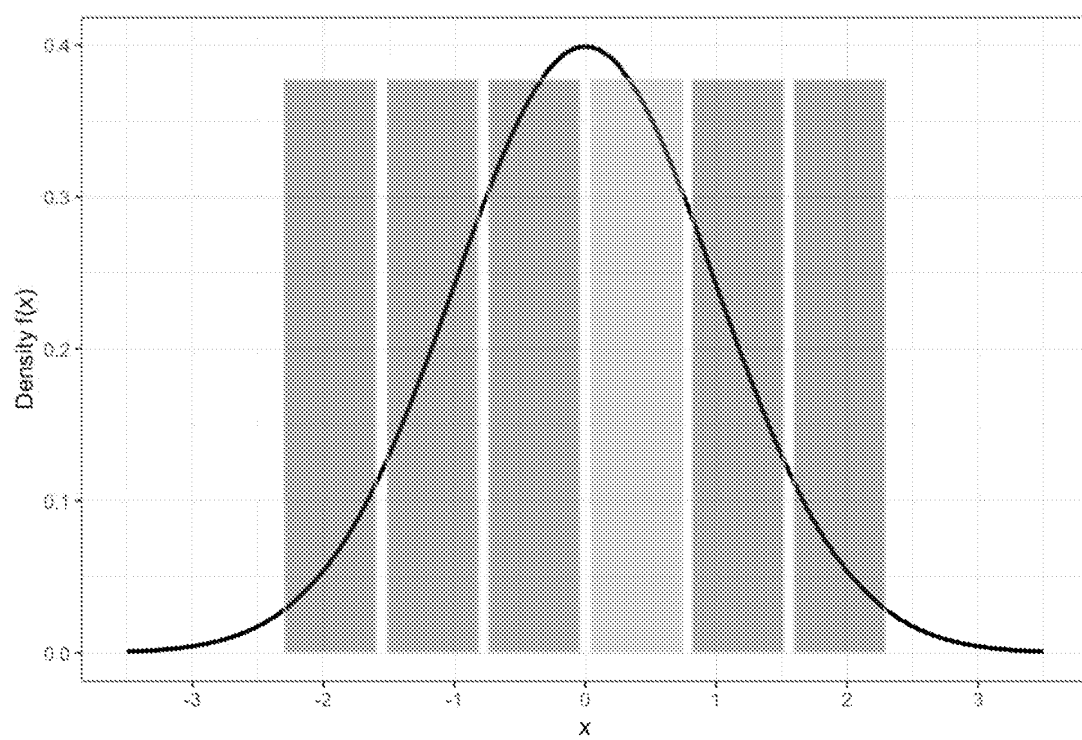


FIG. 9D

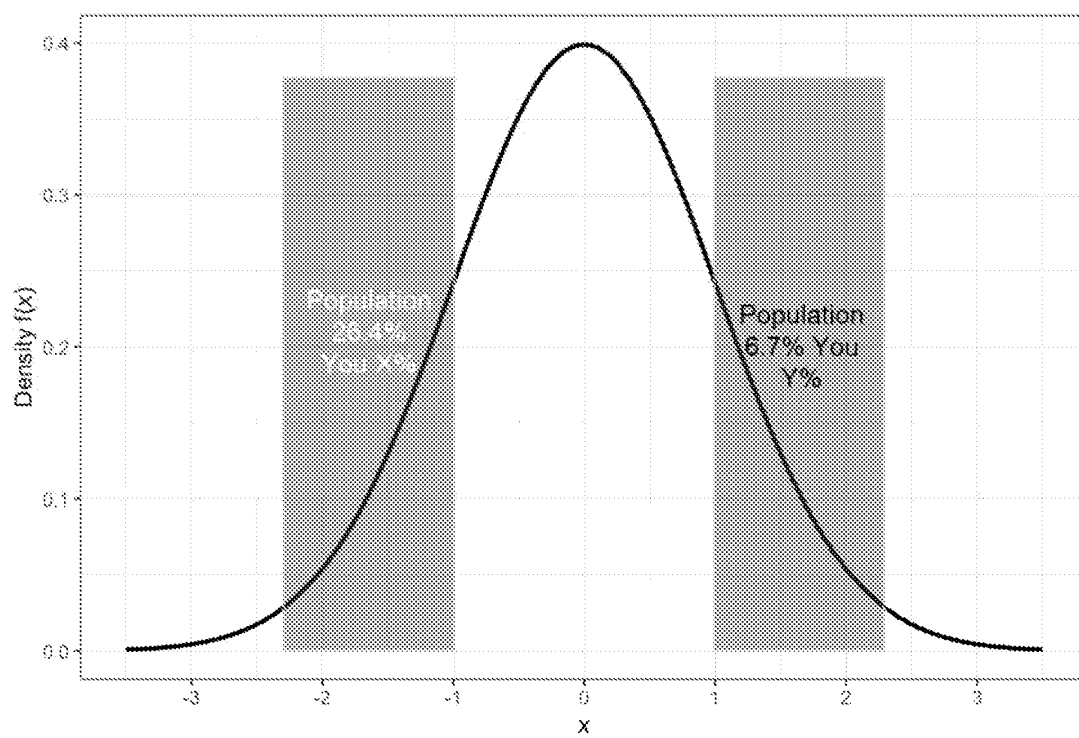


FIG. 9E

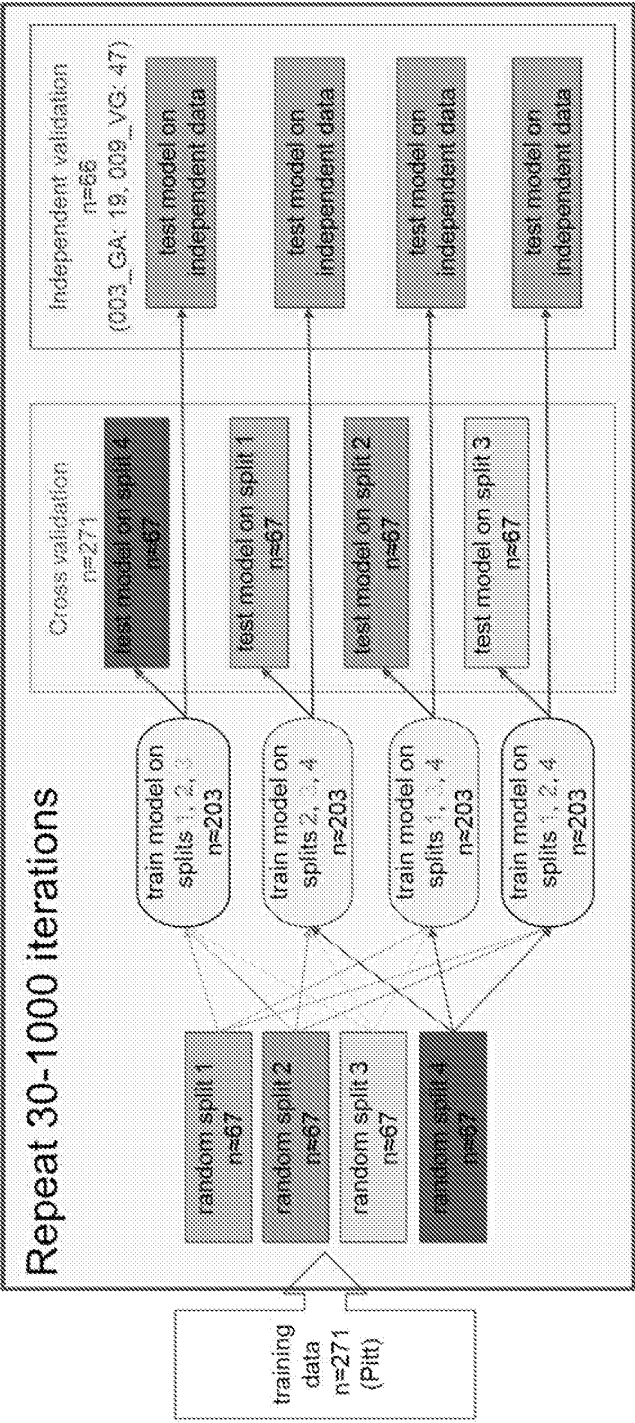


FIG. 10

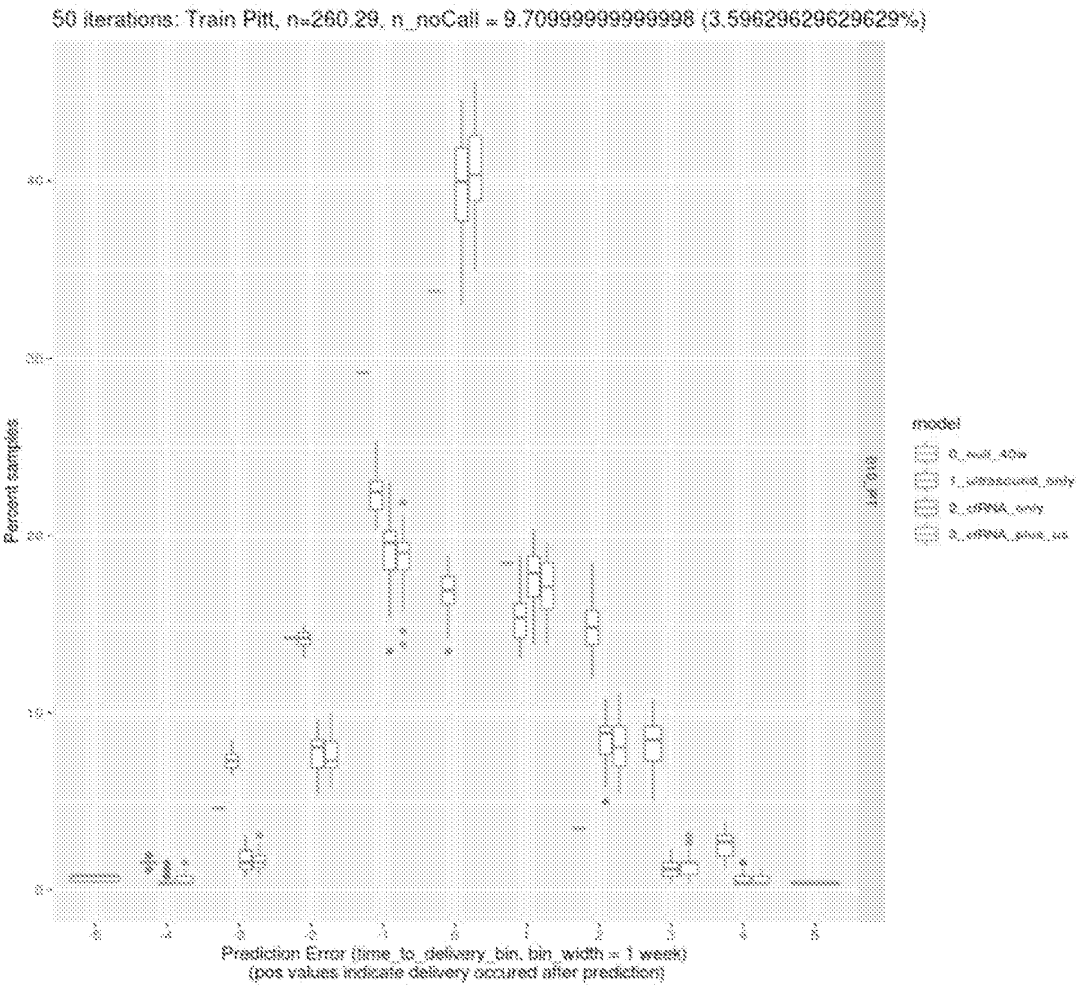
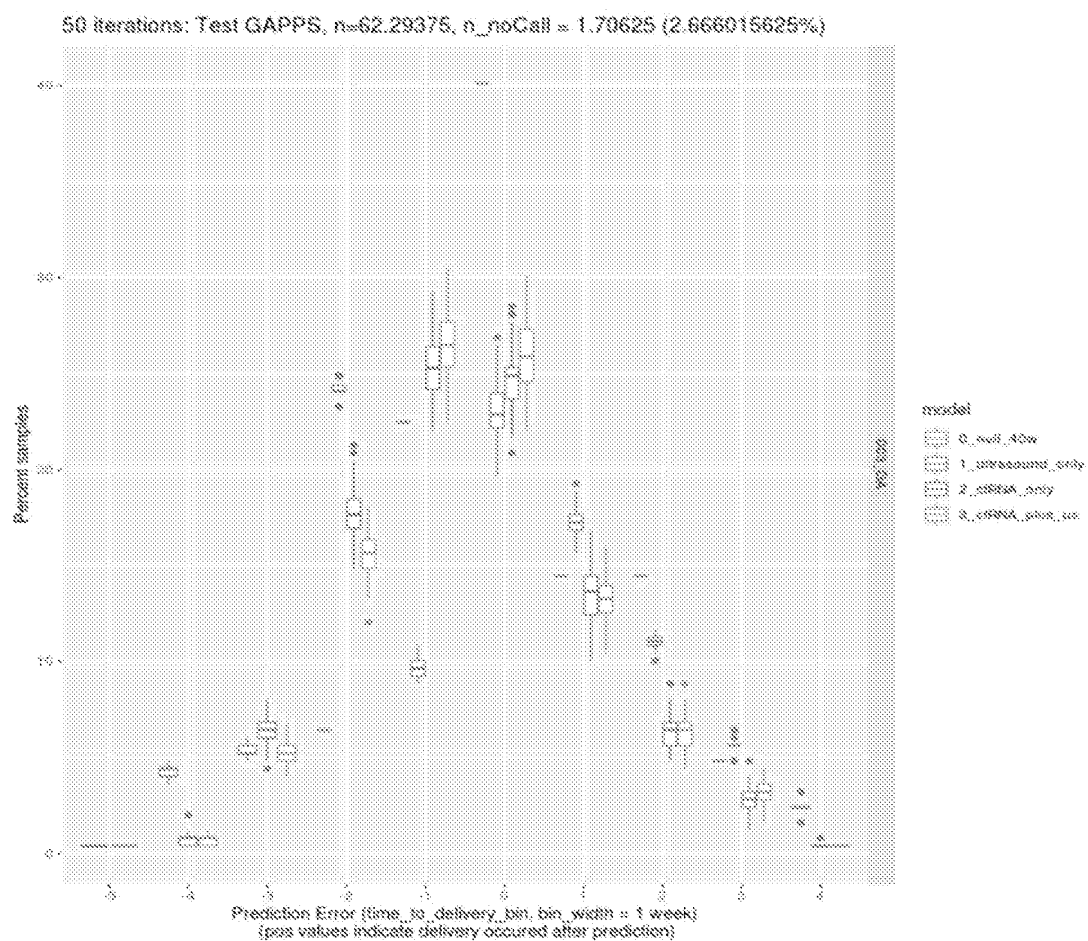
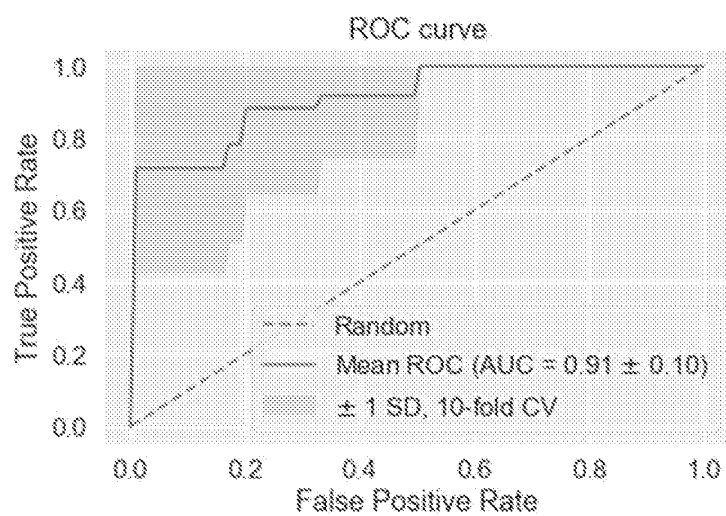


FIG. 11A





79 samples total
23 early PTB (<34 w)
1 cohort

FIG. 12

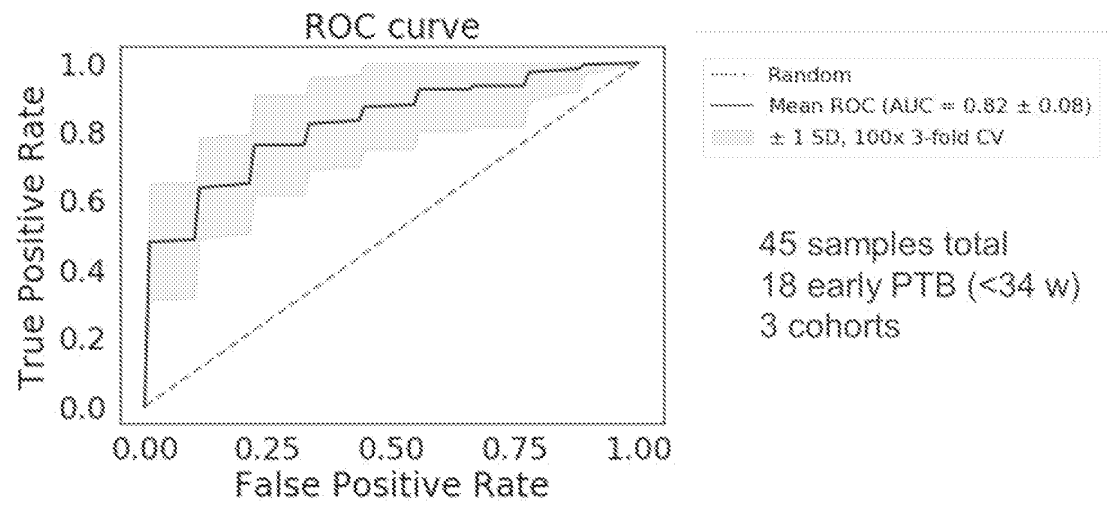


FIG. 13A



FIG. 13B

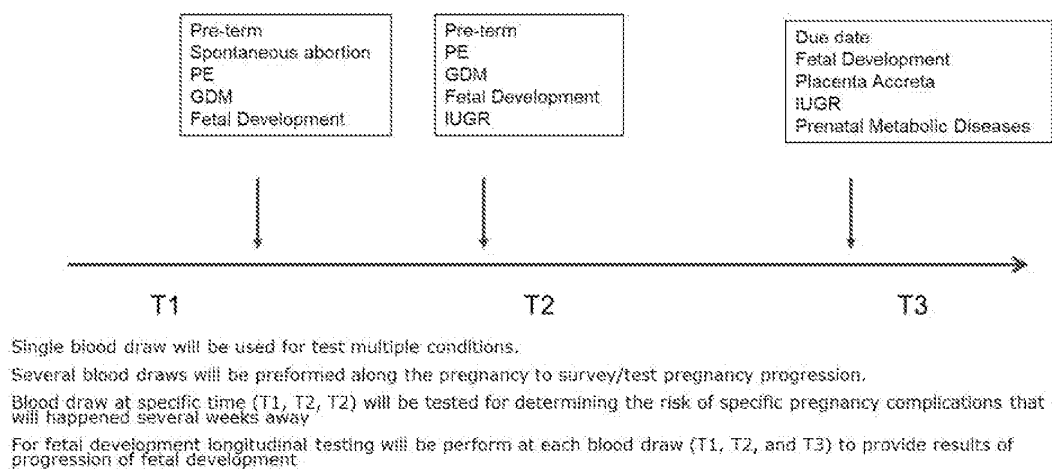


FIG. 14A

Condition/product	Testing time
Pre-term	T1
Gestational age	T2
Due date	T3
Preeclampsia (pregnancy-related hypertensive disorders)	T1,T2
Gestational diabetes	T1,T2
Congenital disorder	T3
spontaneous abortion	T1,T2
Placenta previa	T2,T3
Placenta accreta (hemorrhage or excessive bleeding during delivery same?)	T2,T3
Premature rupture of membrane, PROM	T2,T3
Fetal development, normal and abnormal	T1,T2,T3
IUGR, intrauterine/fetal growth restriction	T2,T3
post-partum depression	T3
Prenatal Metabolic genetic disease	T3
post-partum cardiomyopathy	T3

FIG. 14B

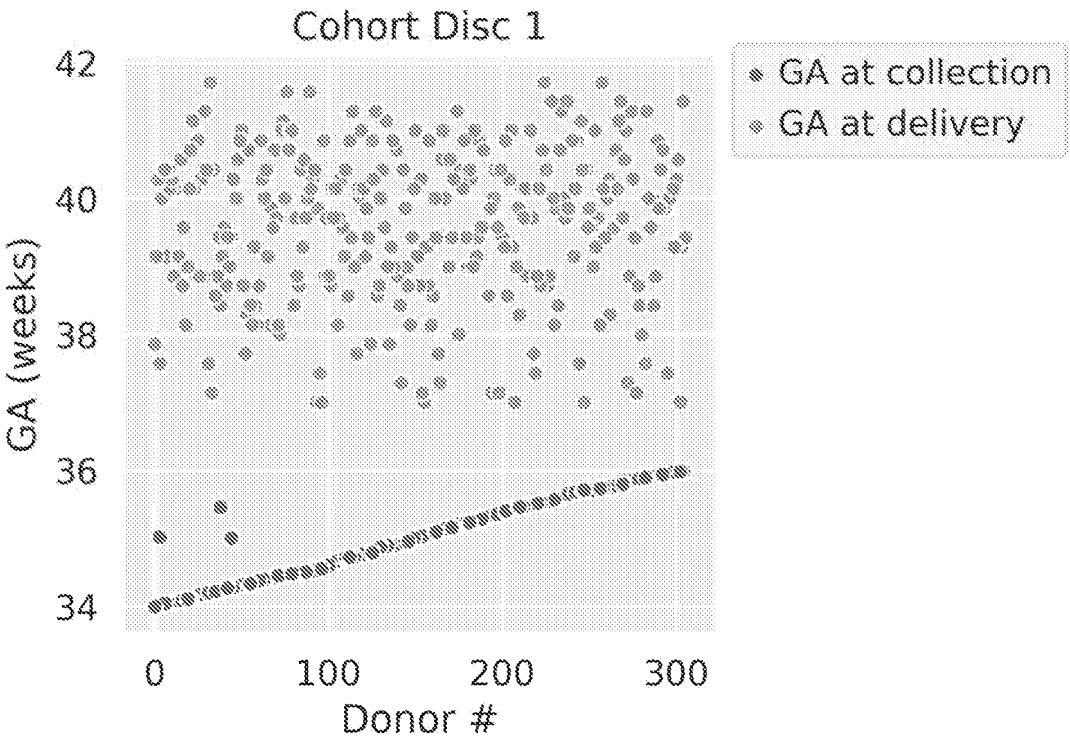


FIG. 15A

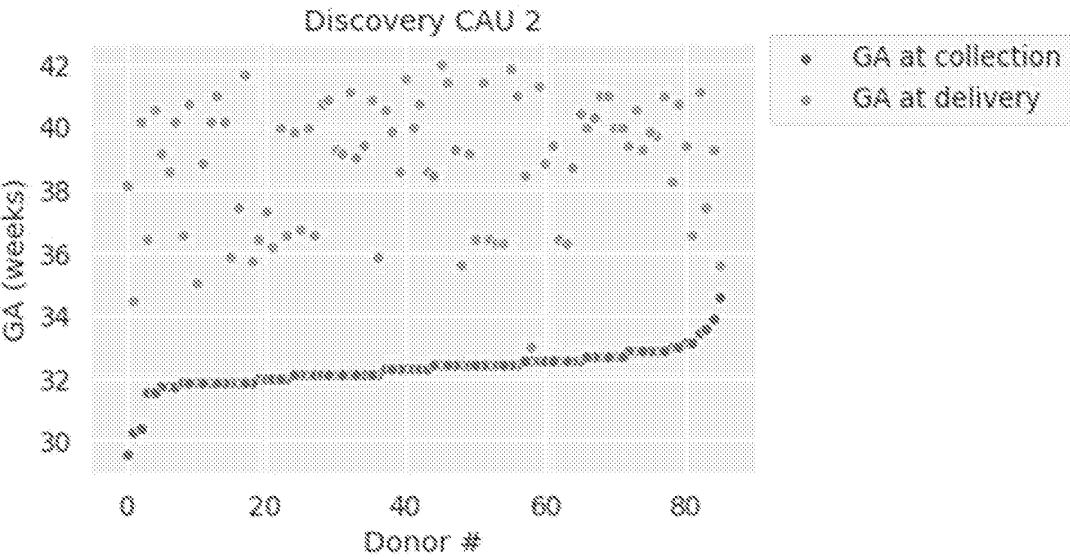


FIG. 15B

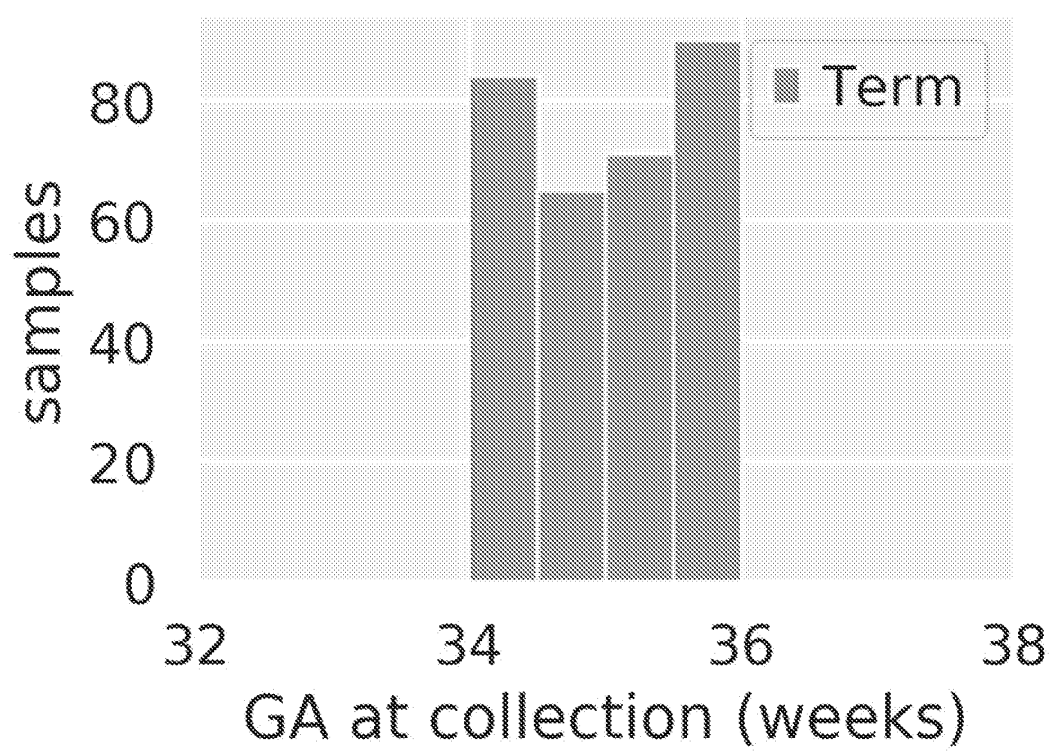


FIG. 15C

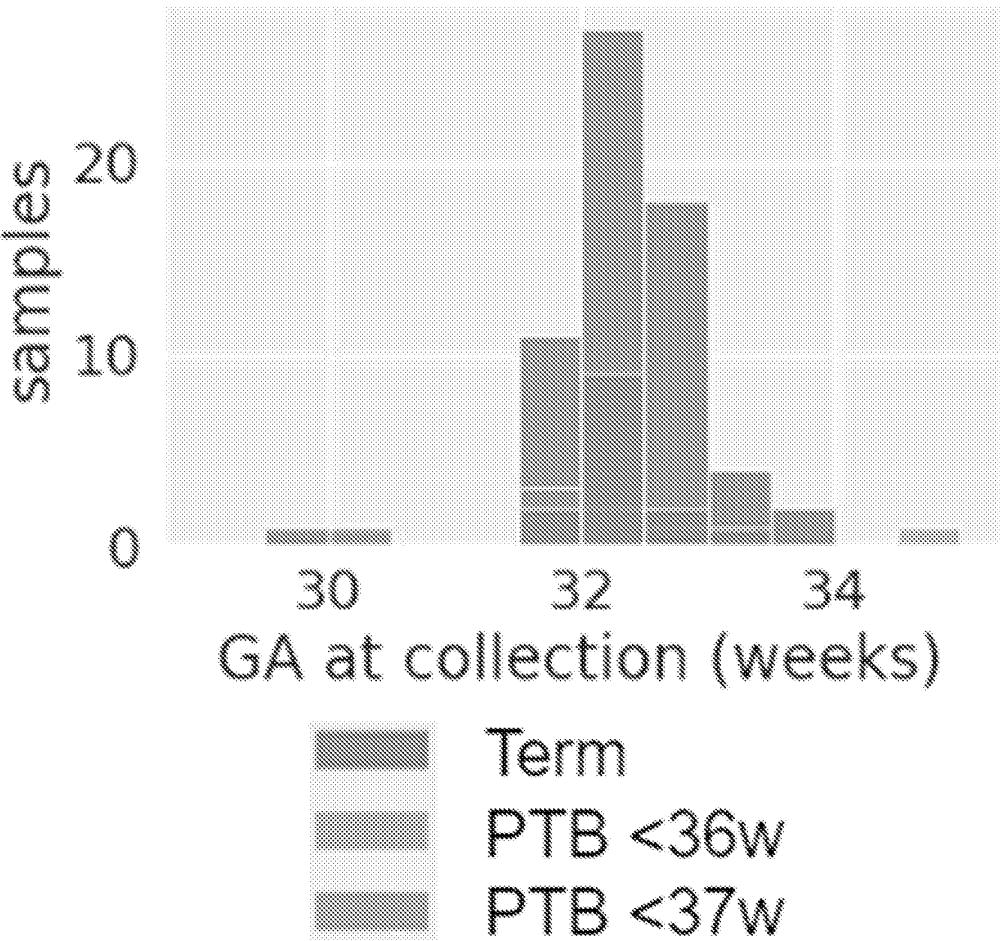


FIG. 15D

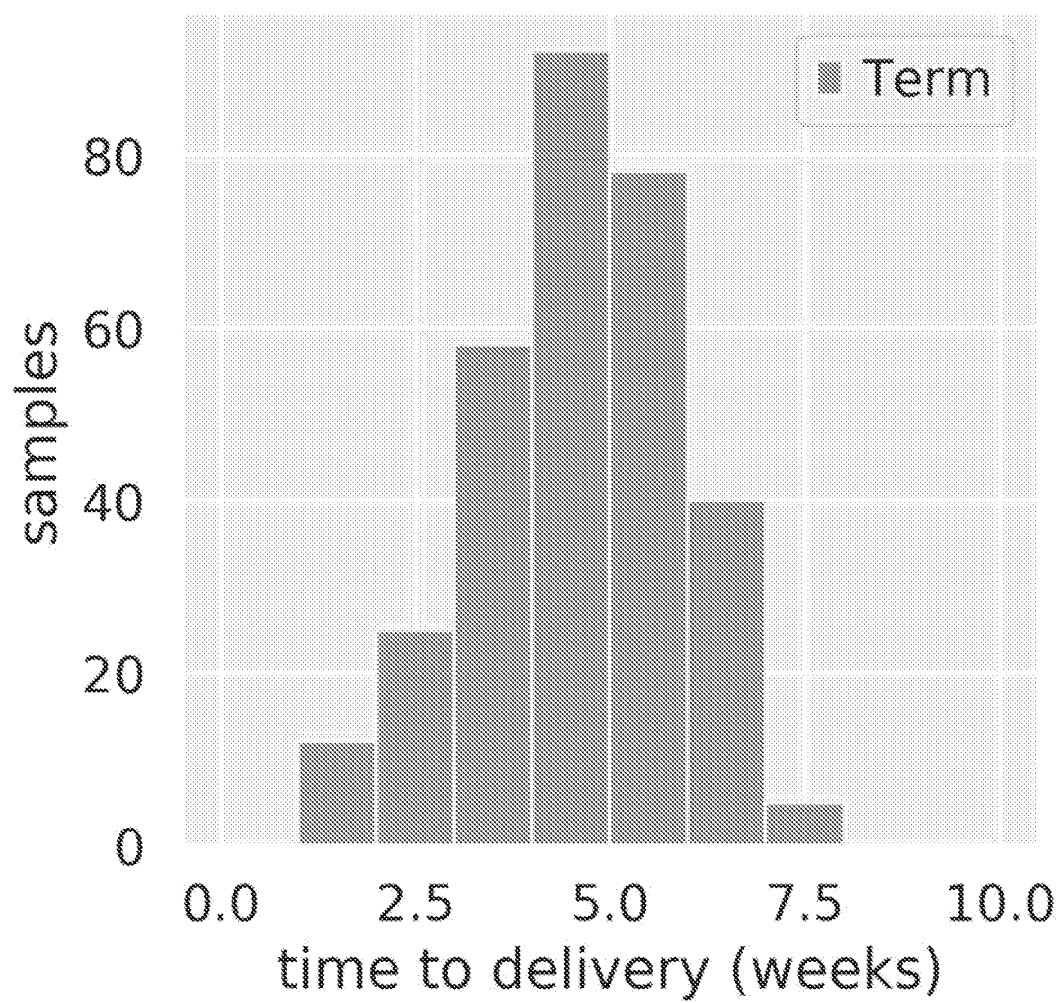


FIG. 15E

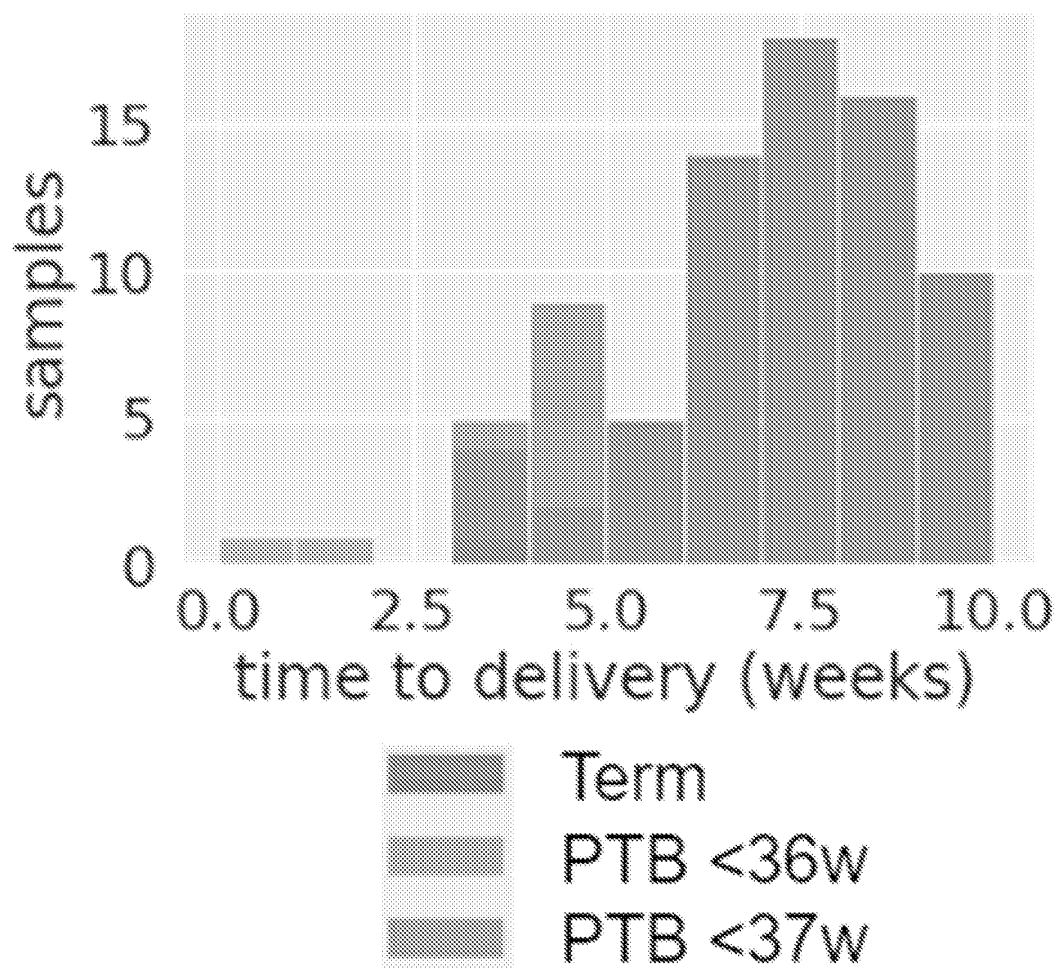


FIG. 15F

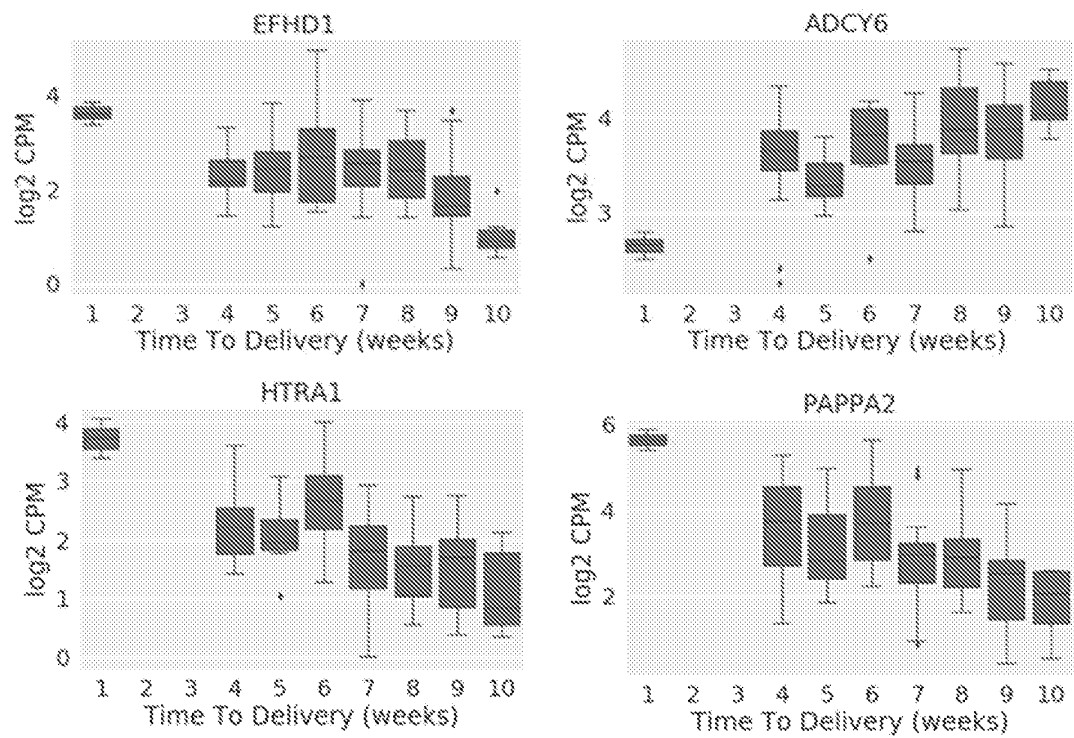


FIG. 16A

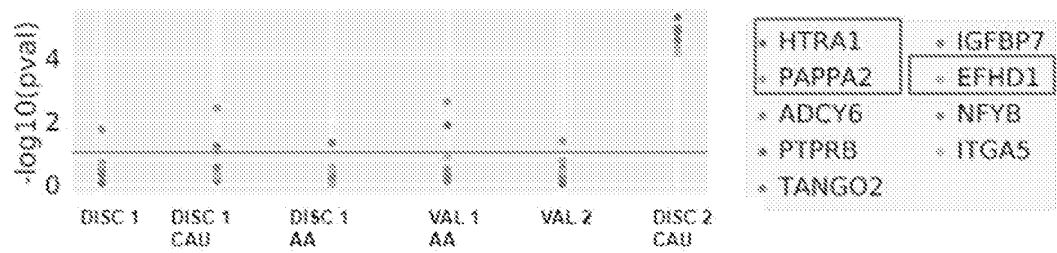


FIG. 16B

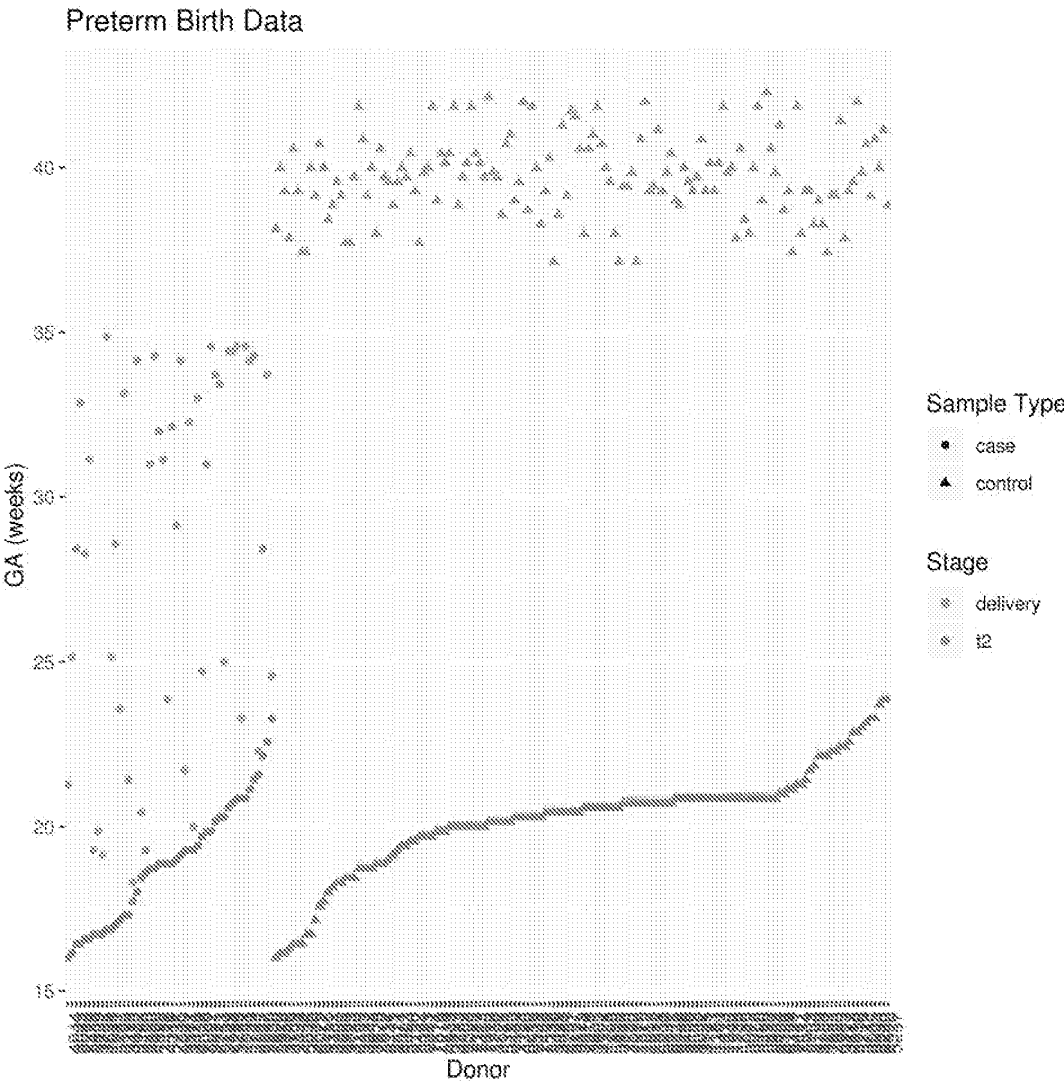


FIG. 17A

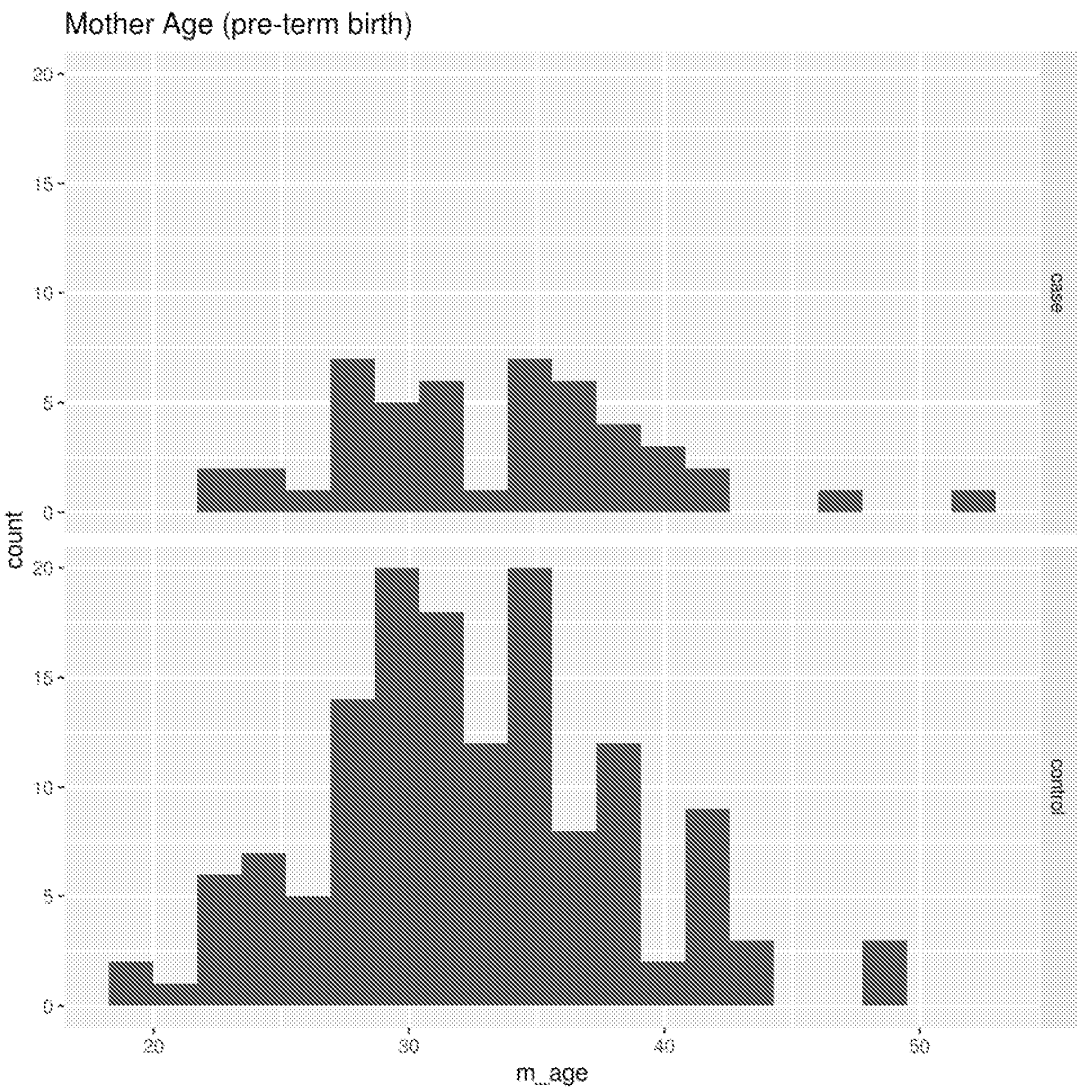


FIG. 17B

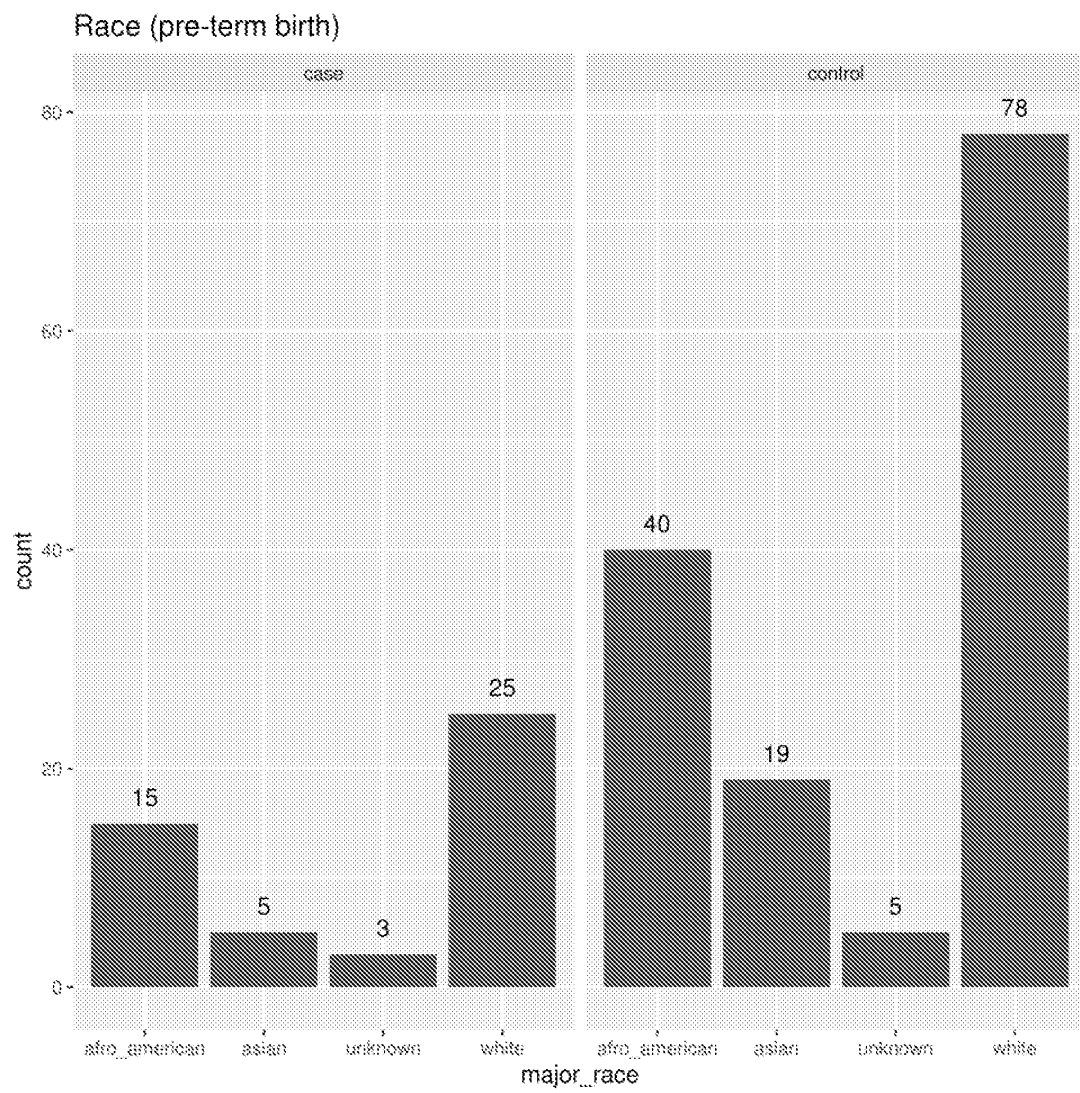


FIG. 17C

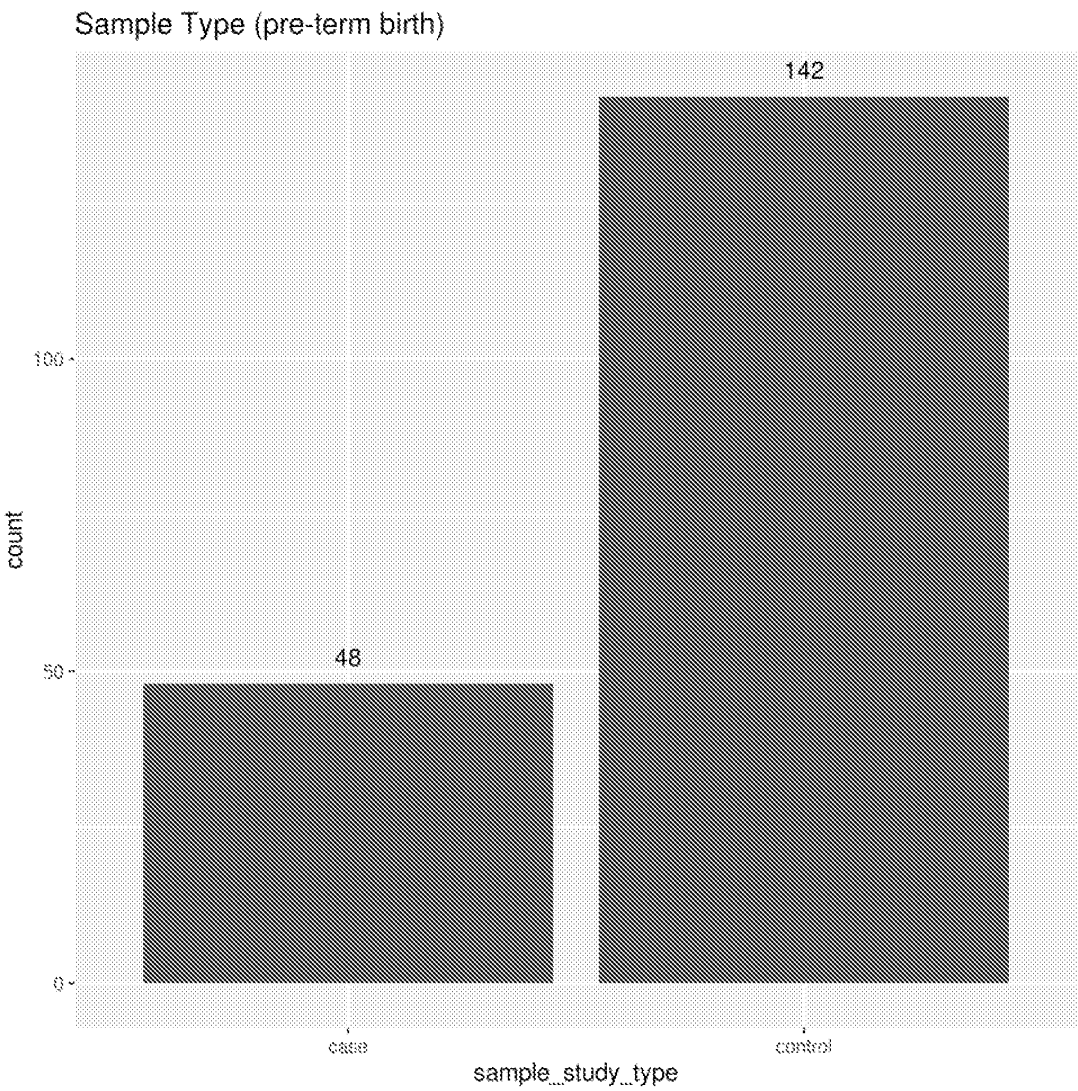


FIG. 17D

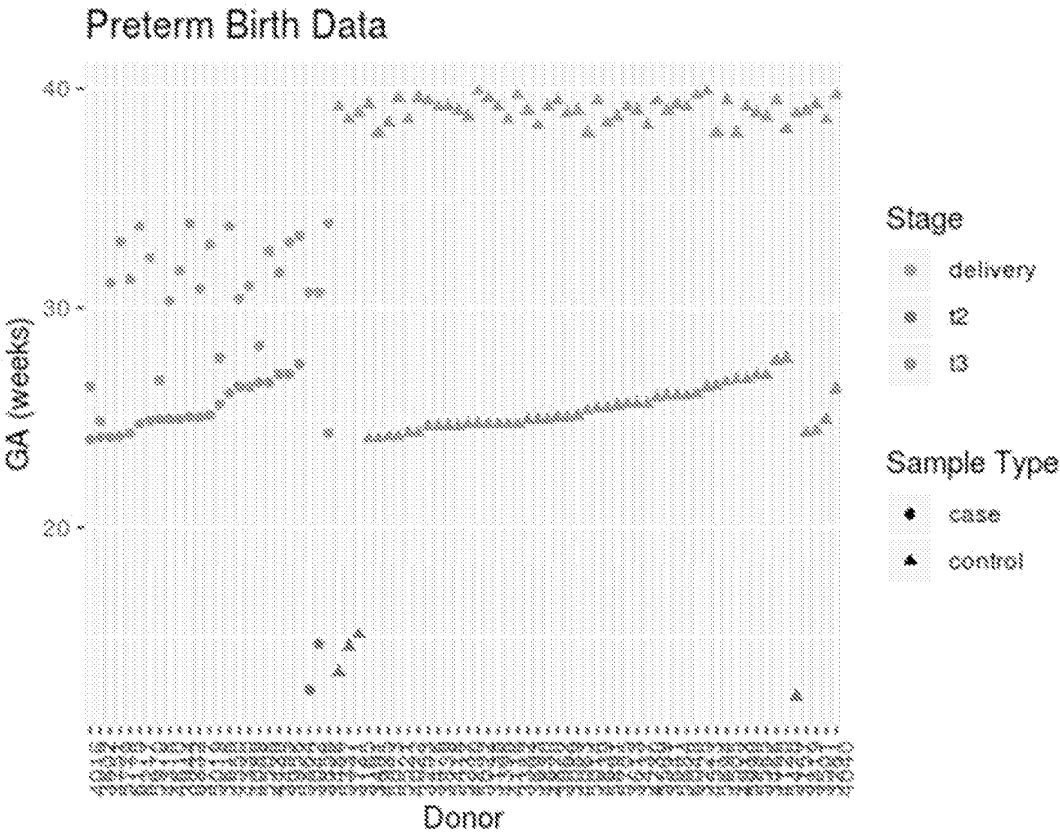


FIG. 18A

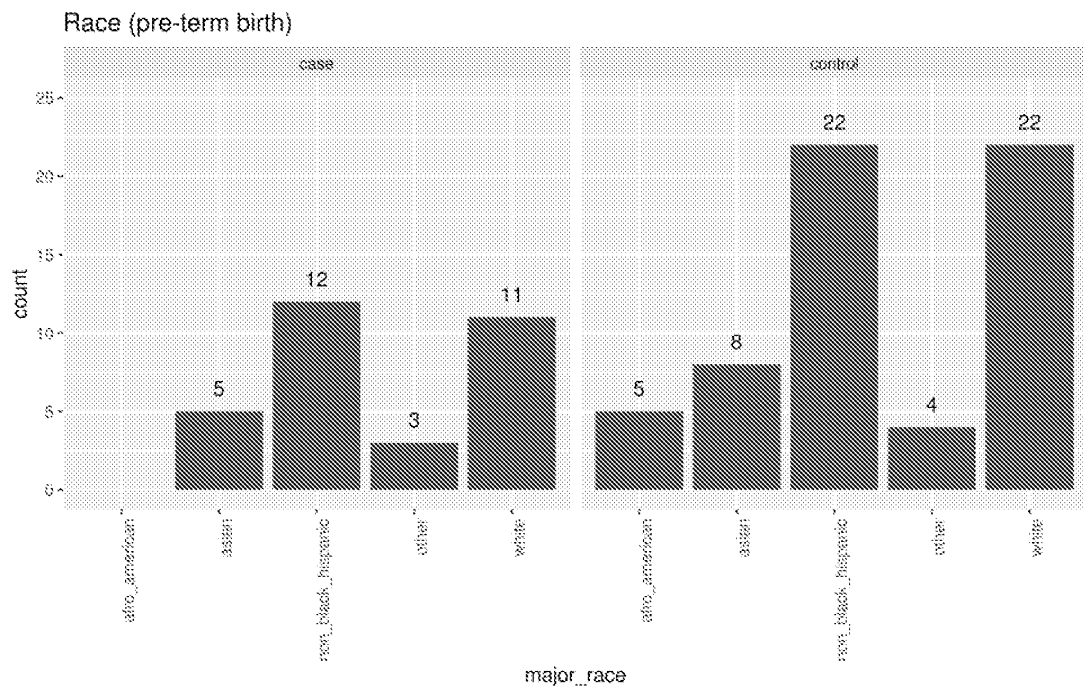
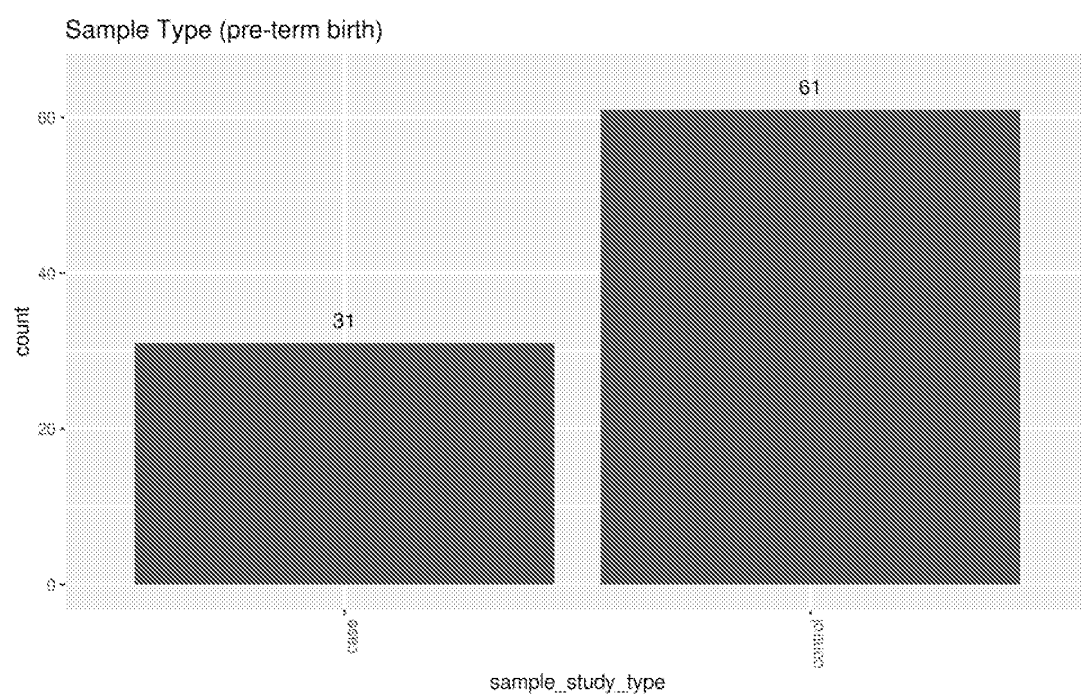


FIG. 18B

**FIG. 18C**

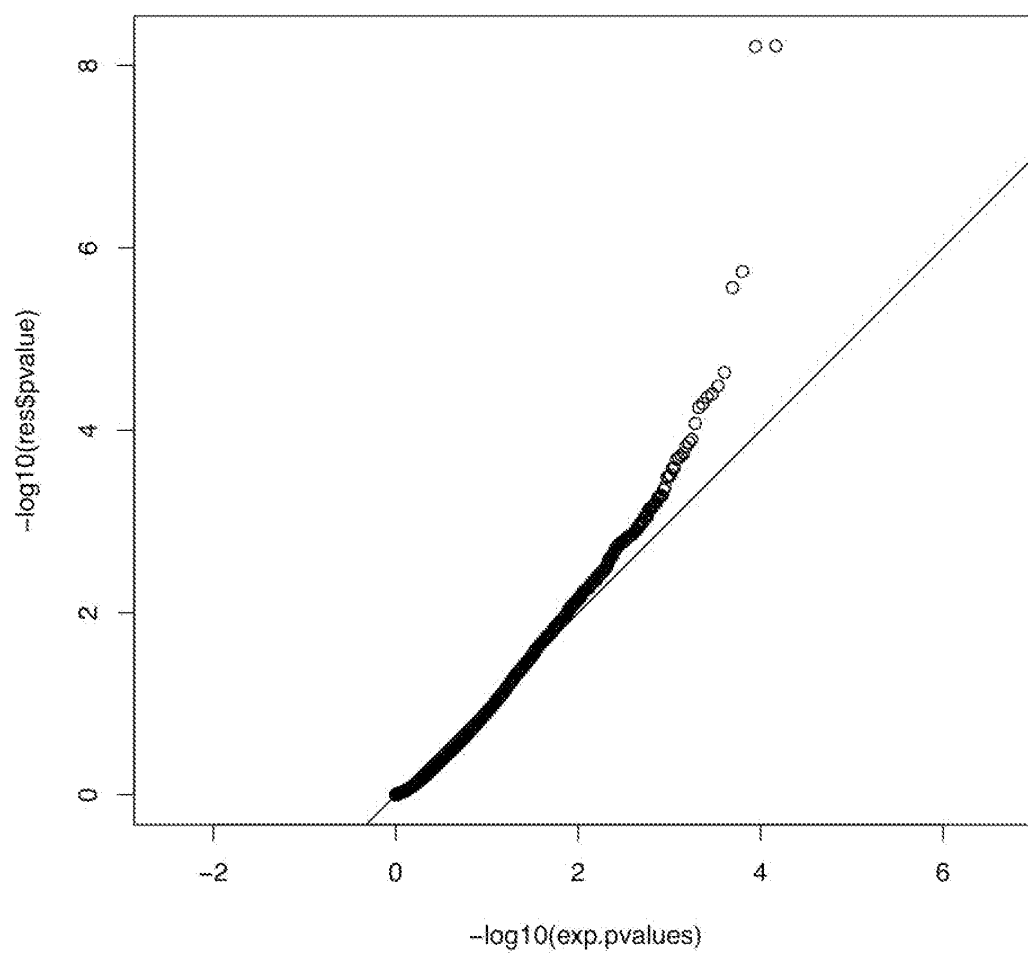


FIG. 19A

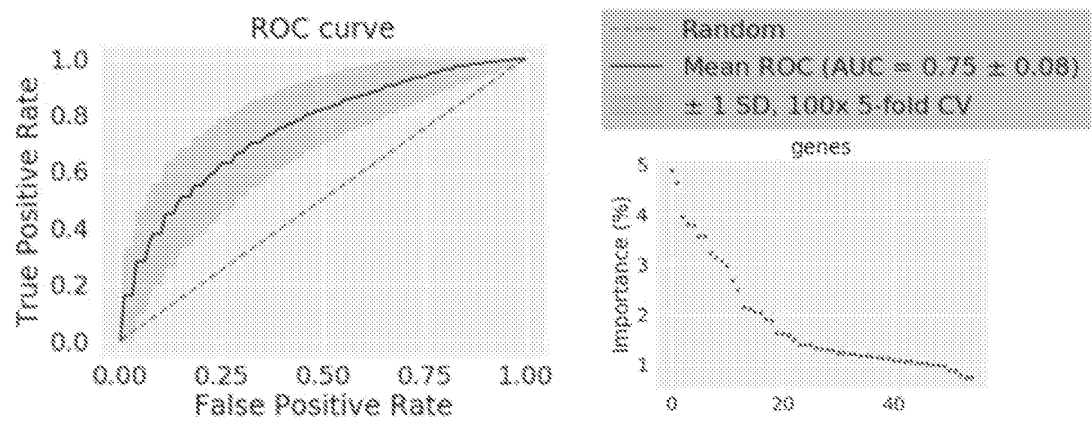


FIG. 19B

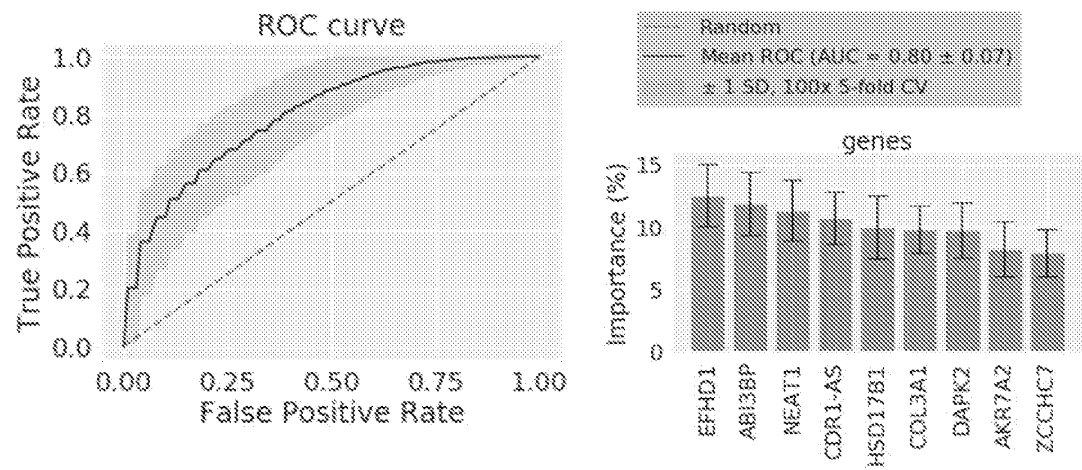


FIG. 19C

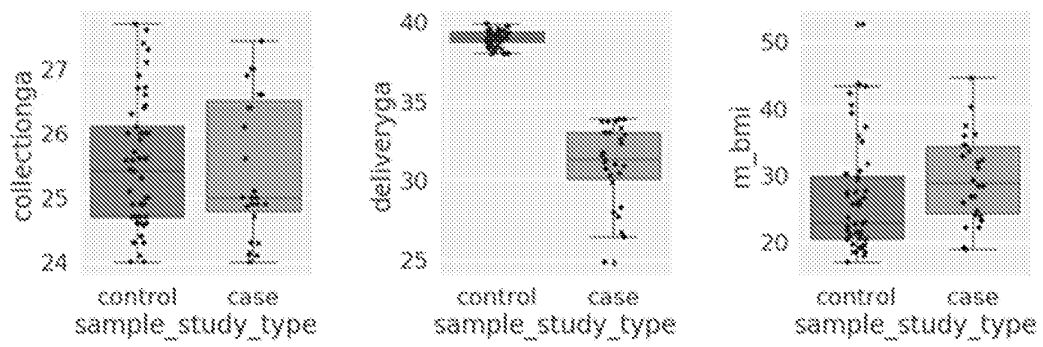


FIG. 20A

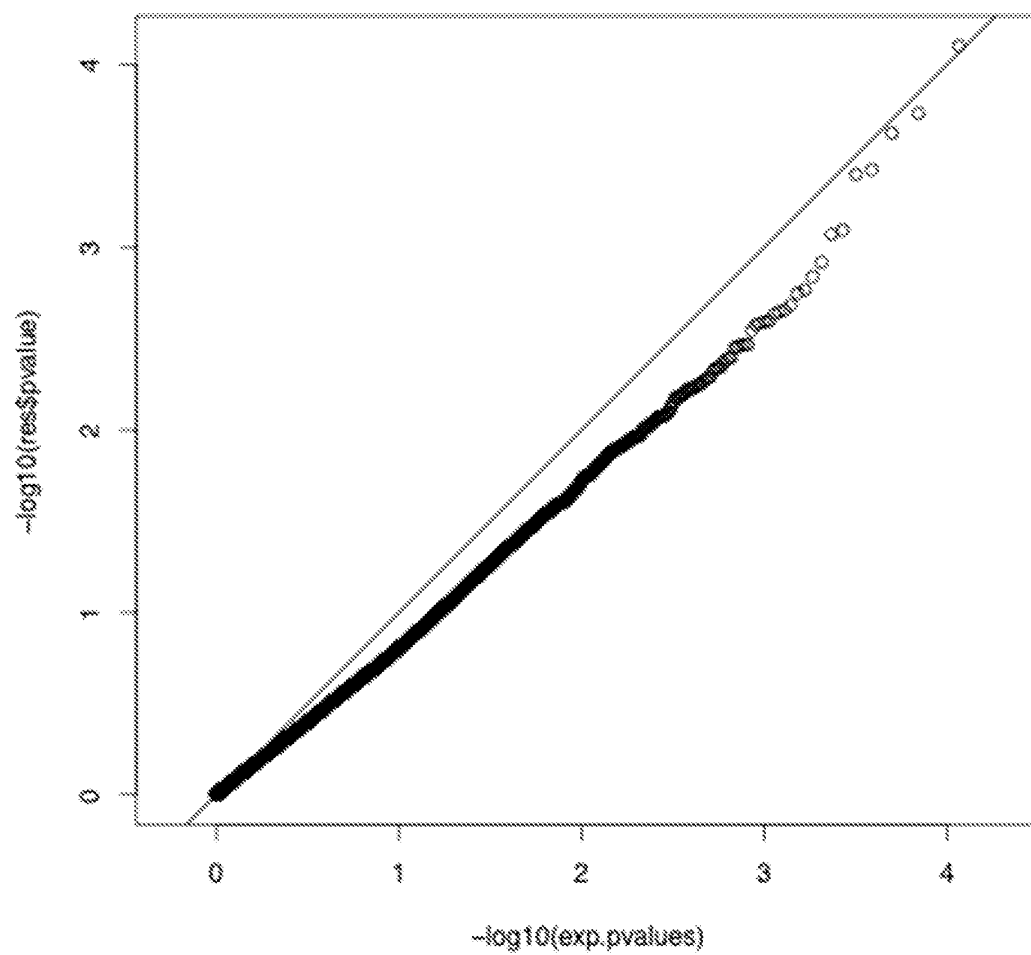


FIG. 20B

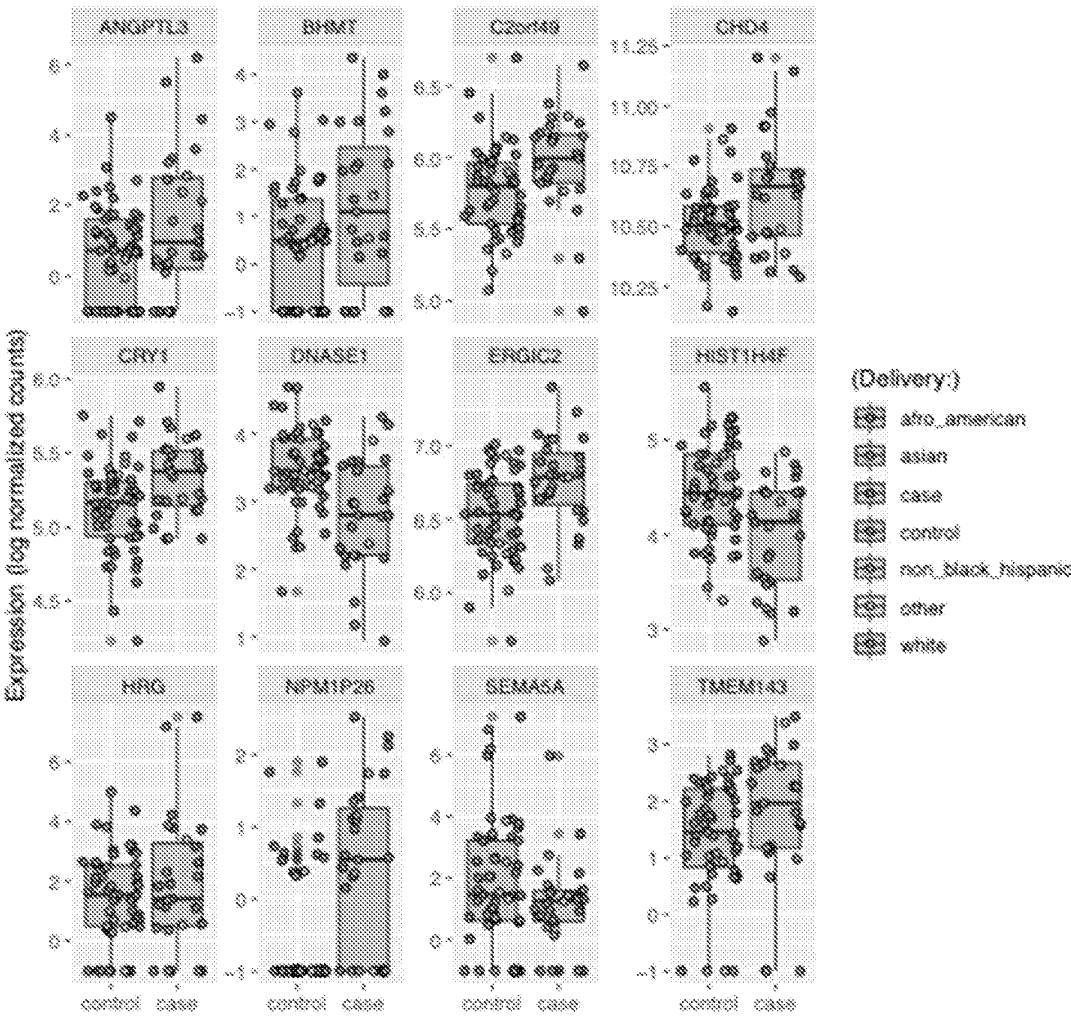


FIG. 20C

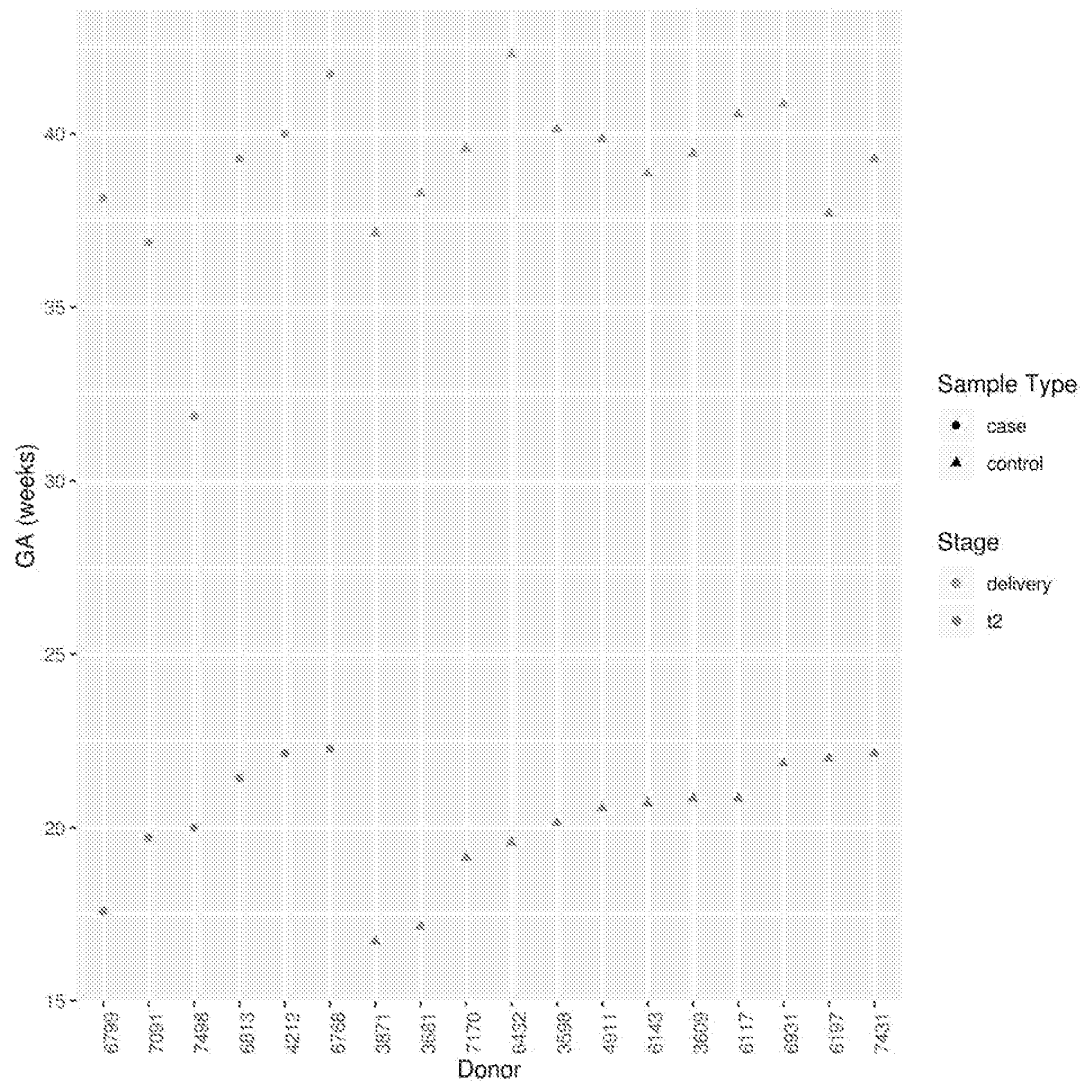


FIG. 21

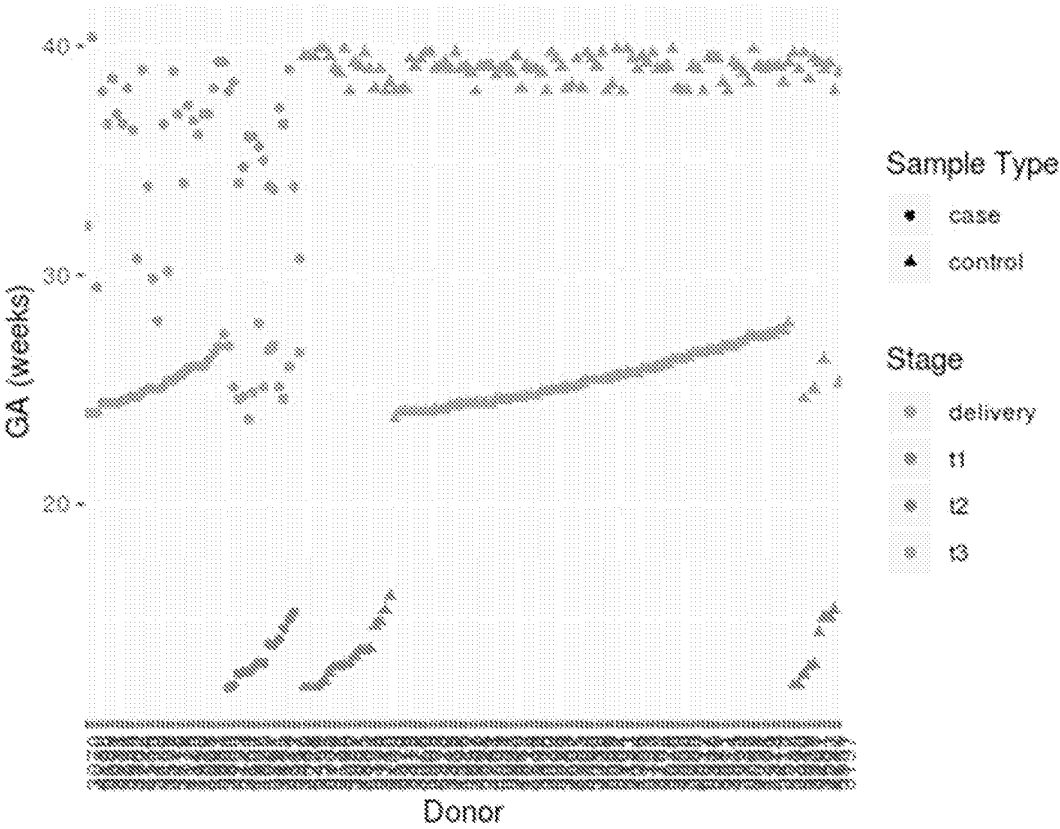


FIG. 22A

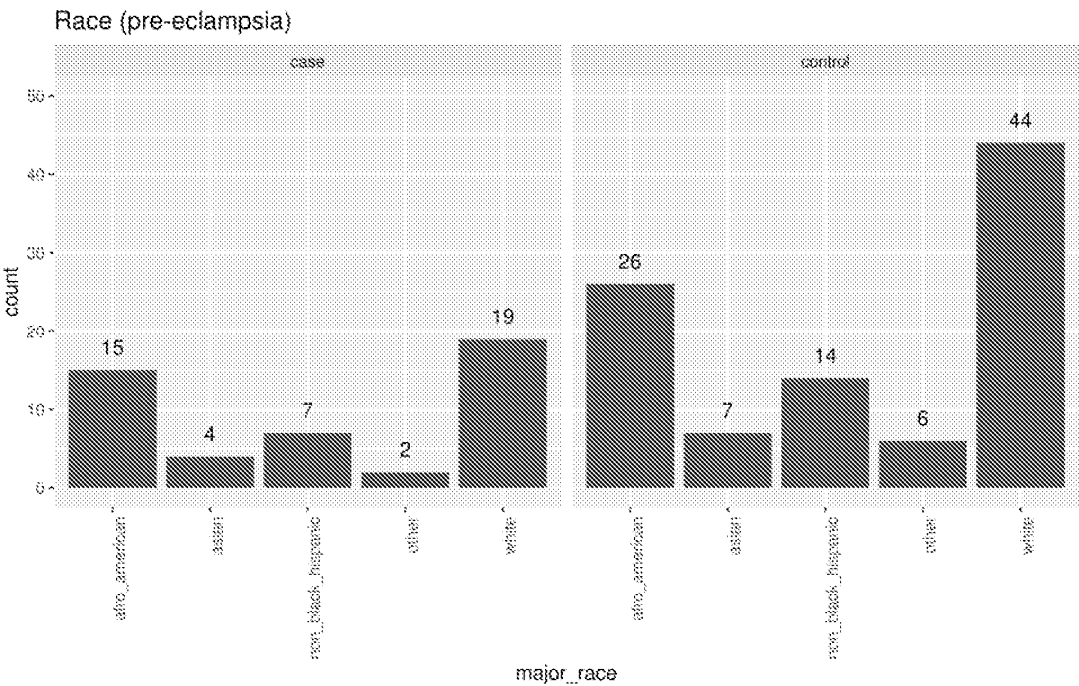


FIG. 22B

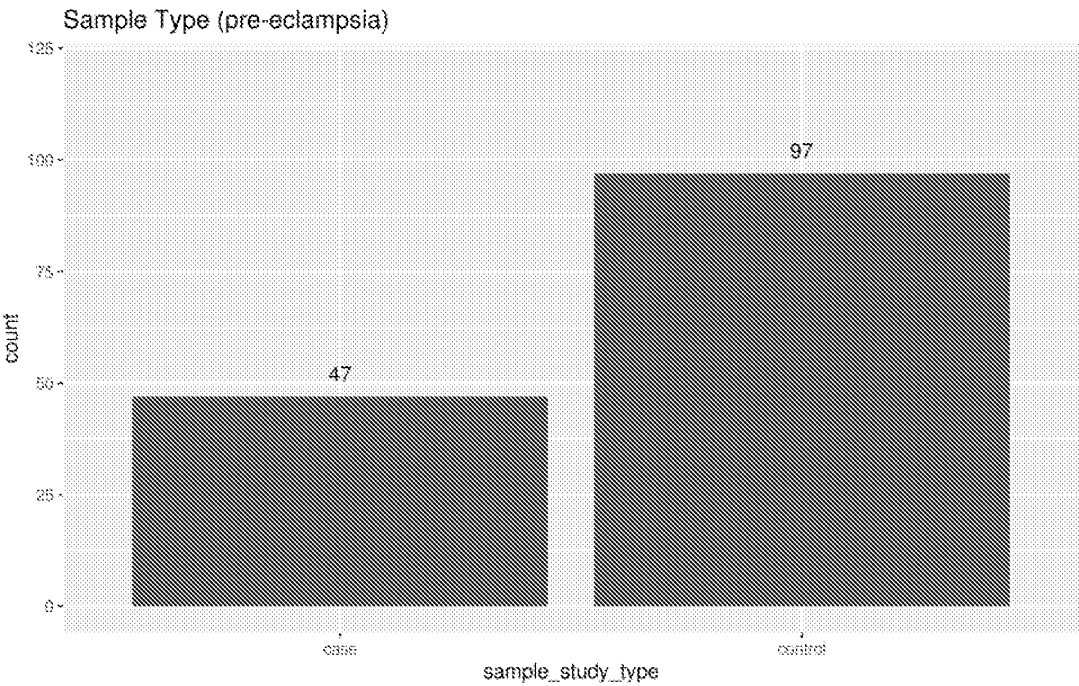


FIG. 22C

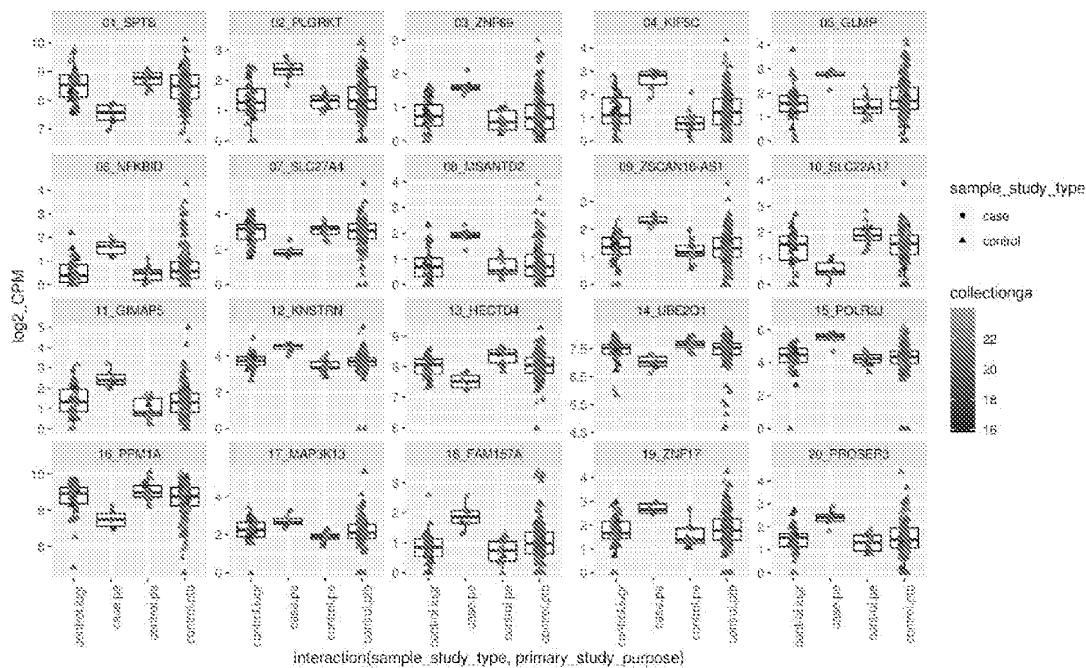


FIG. 23

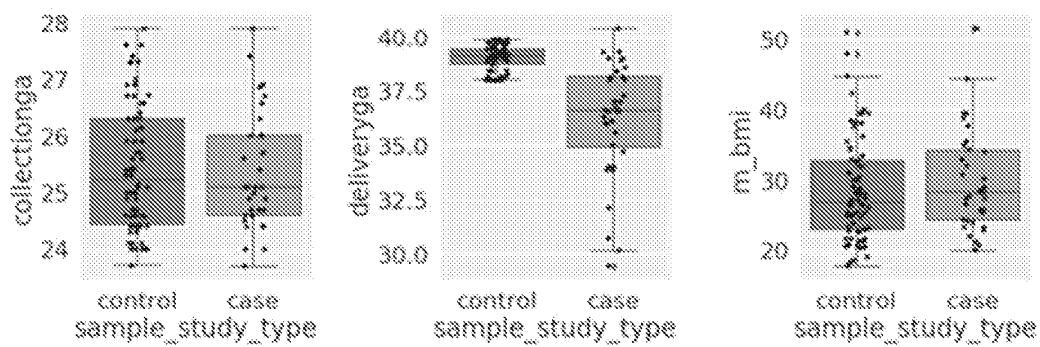


FIG. 24A

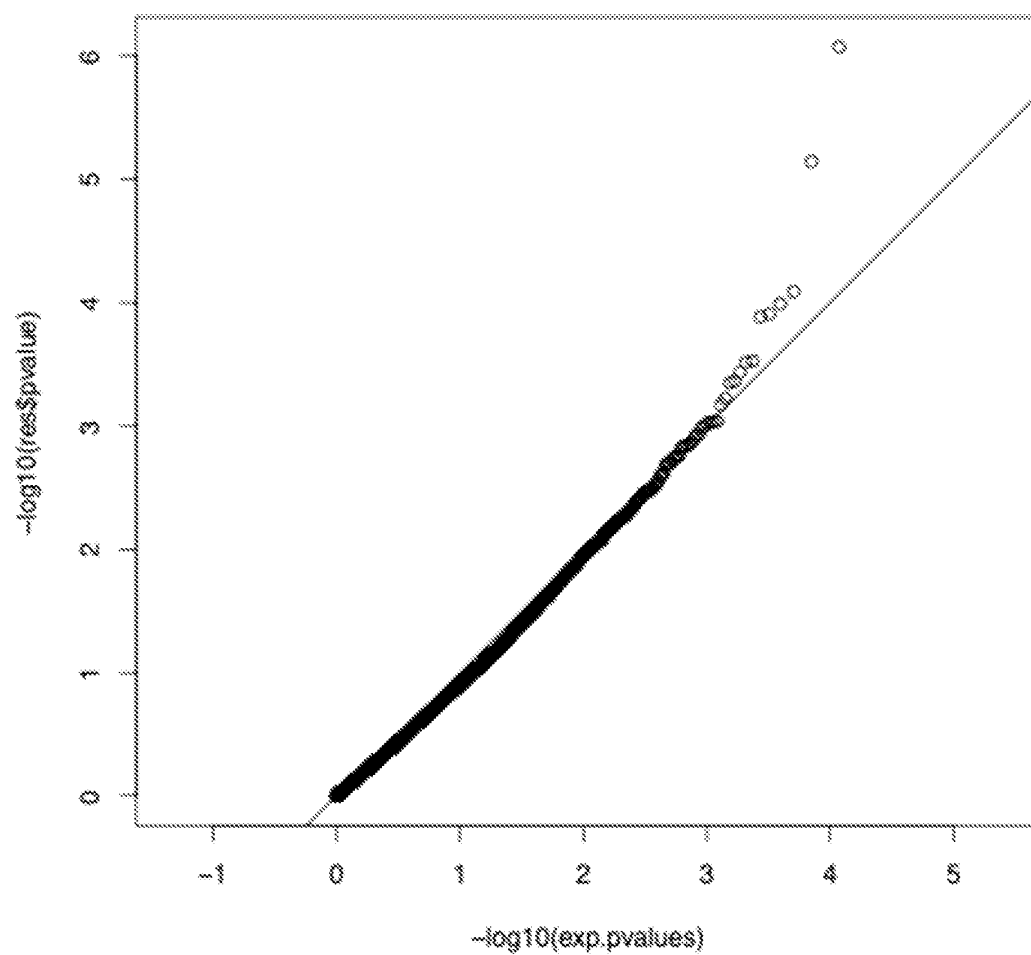


FIG. 24B

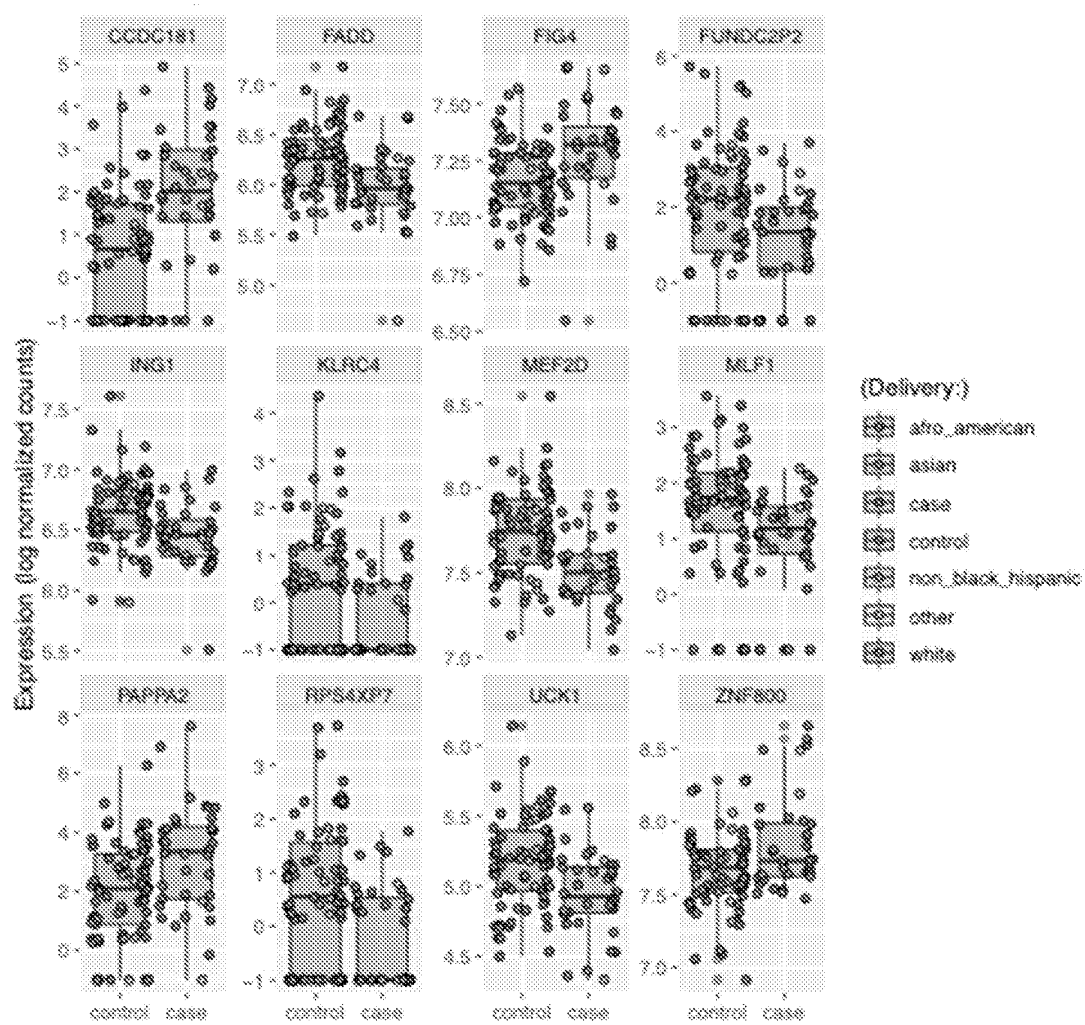


FIG. 24C

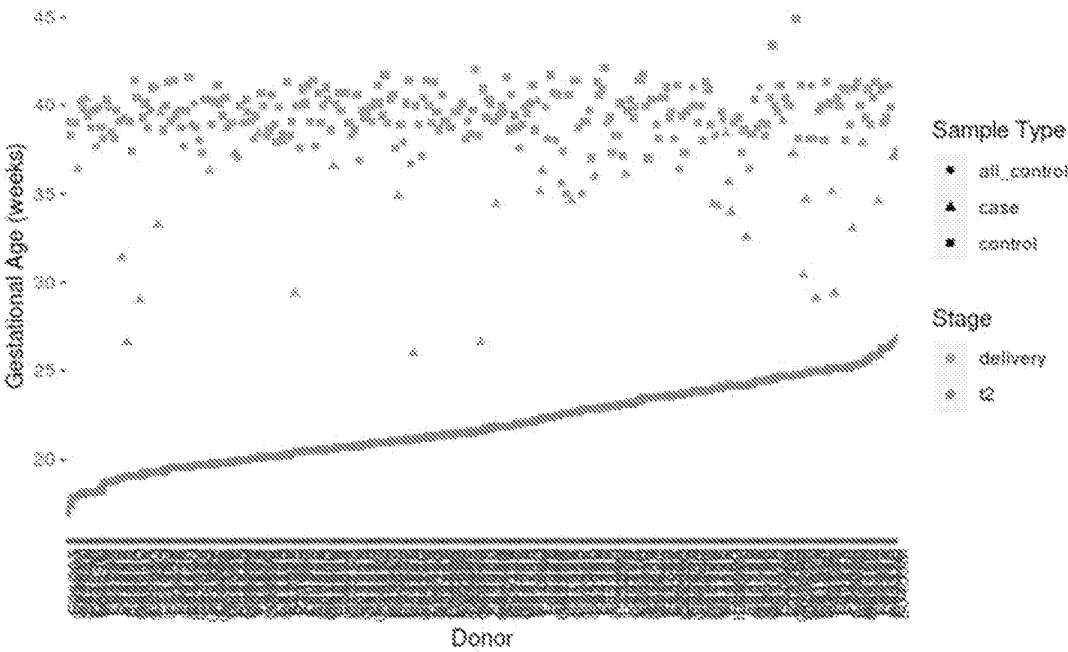


FIG. 25A

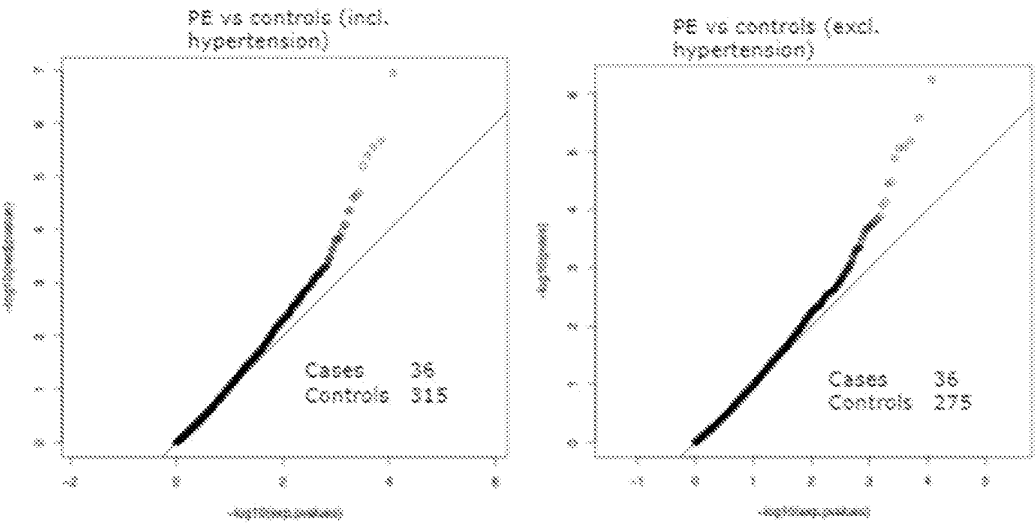


FIG. 25B

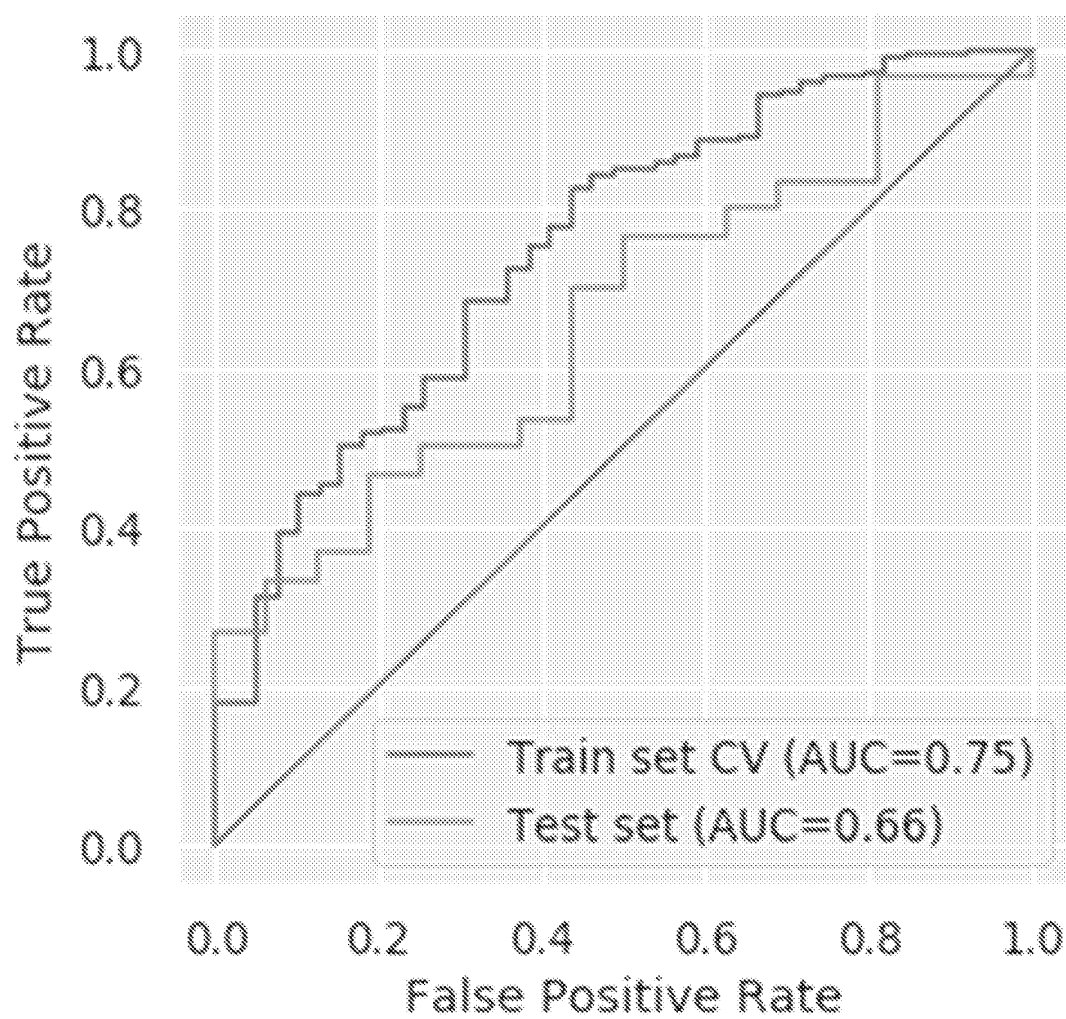


FIG. 25C

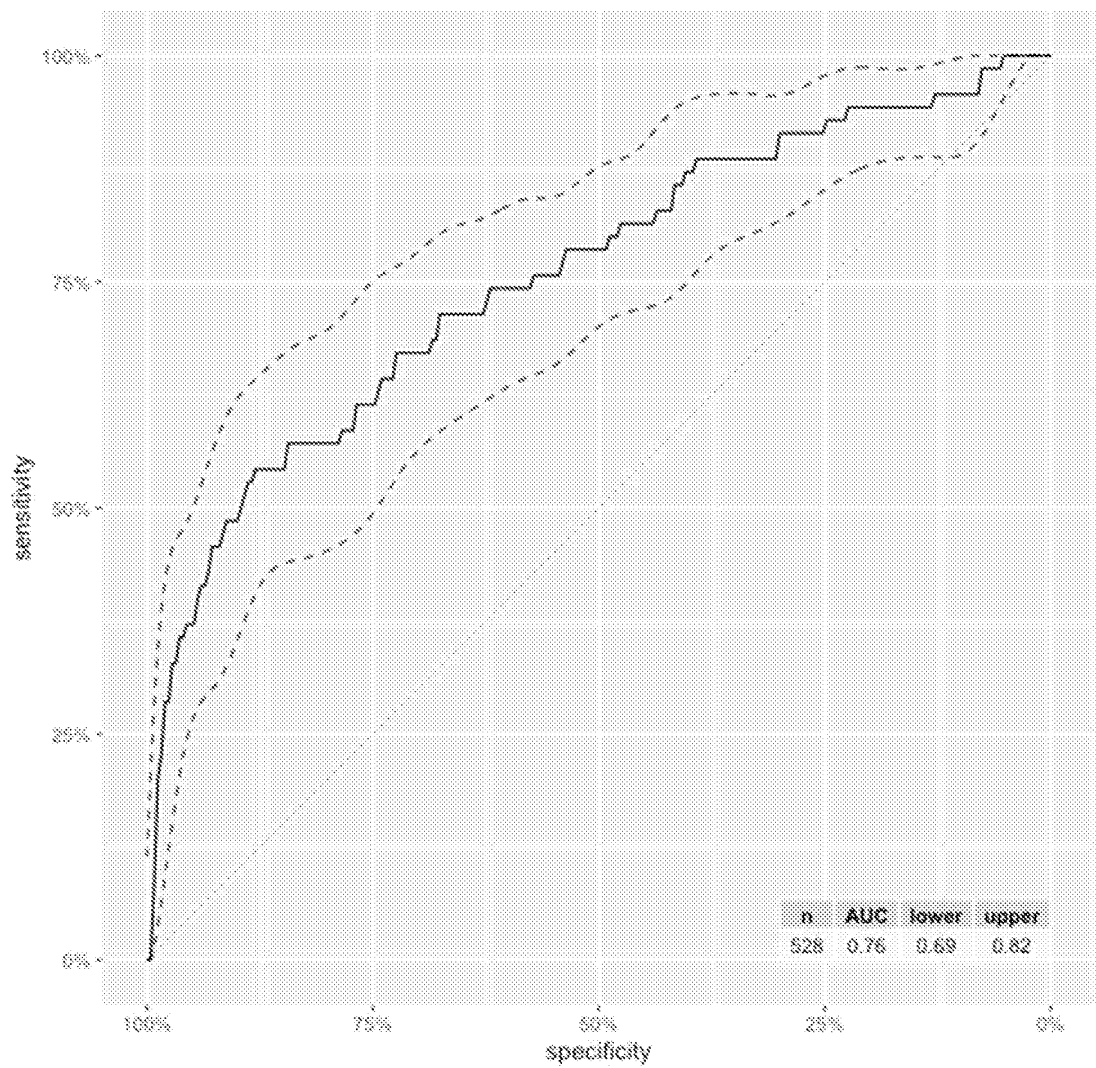


FIG. 25D

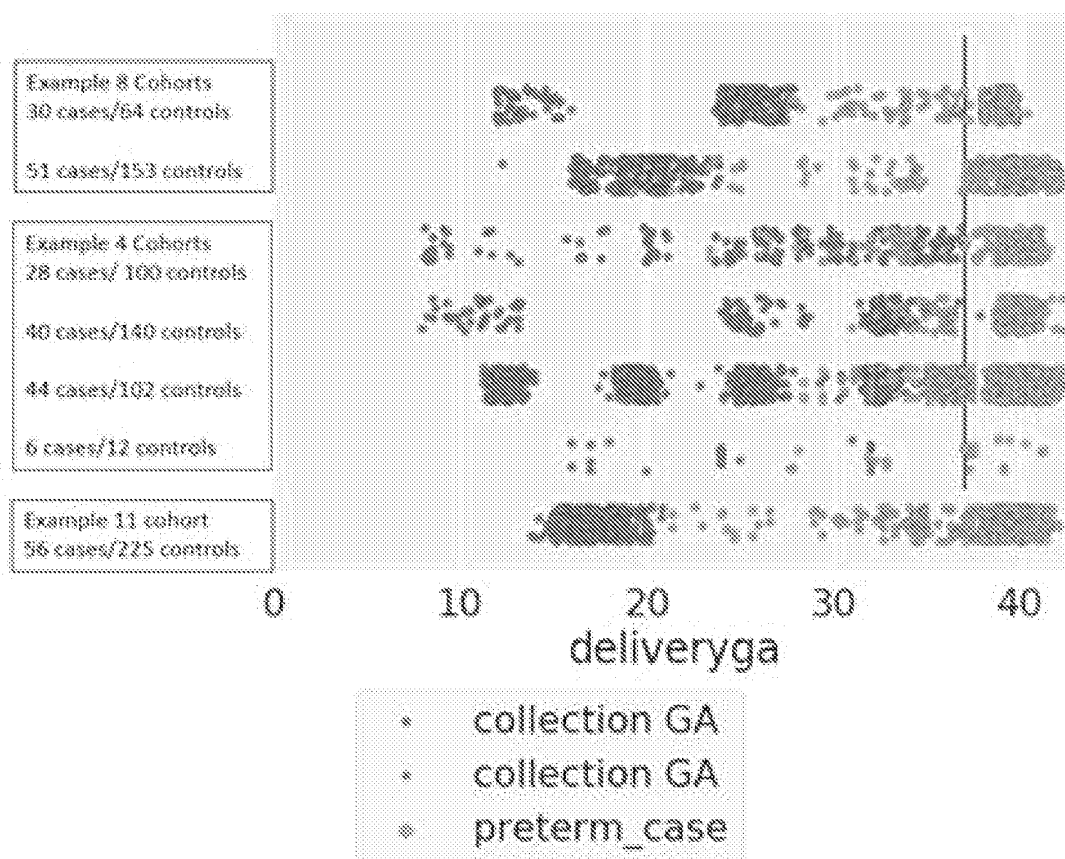


FIG. 26A

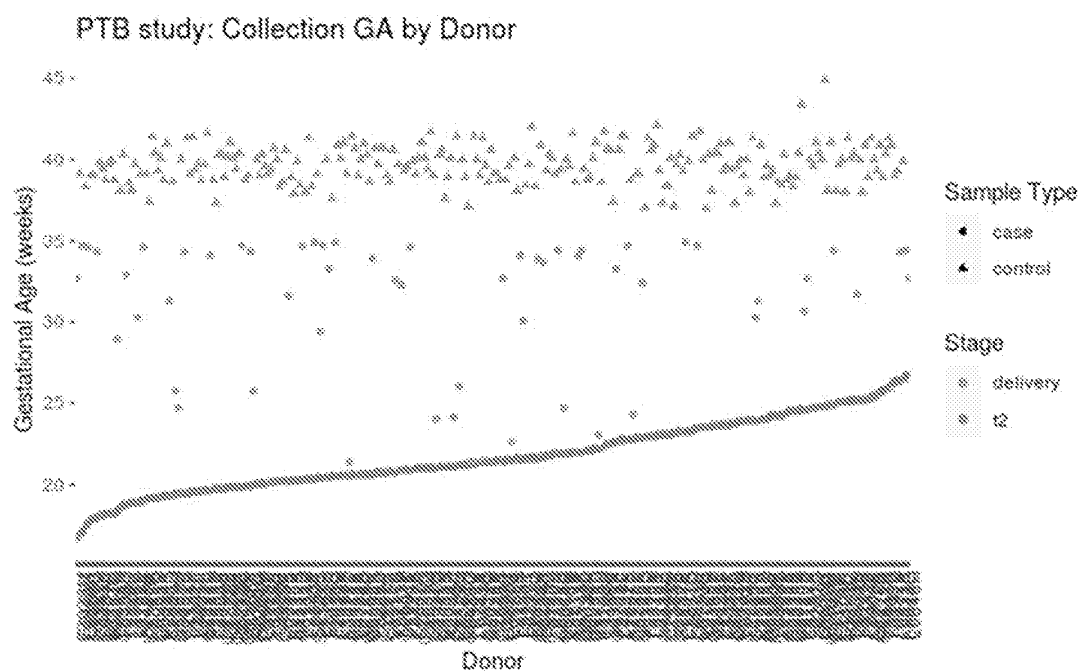


FIG. 26B

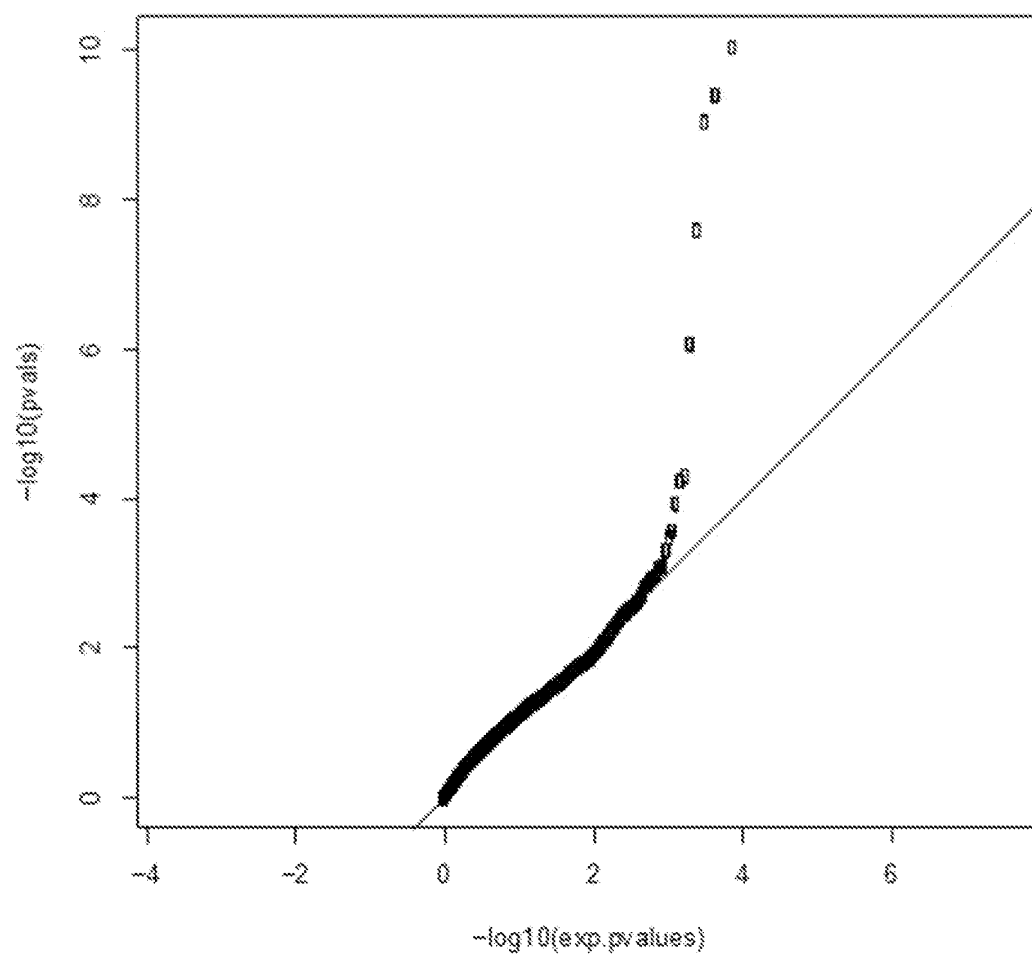


FIG. 26C

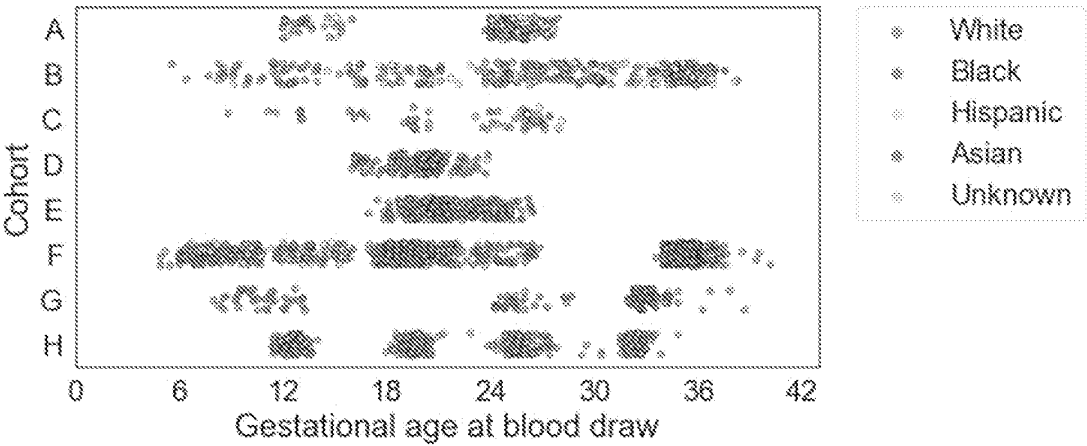


FIG. 27A

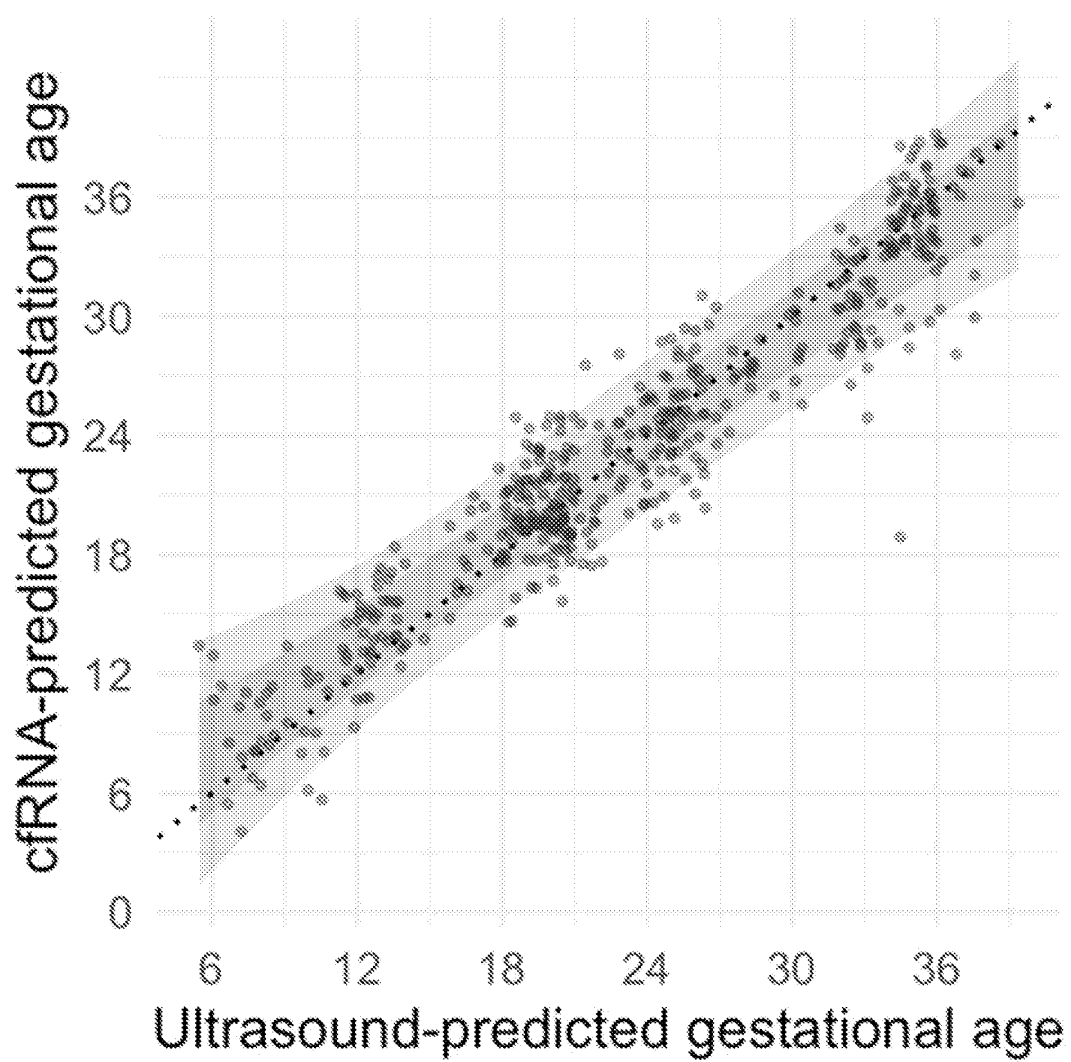


FIG. 27B

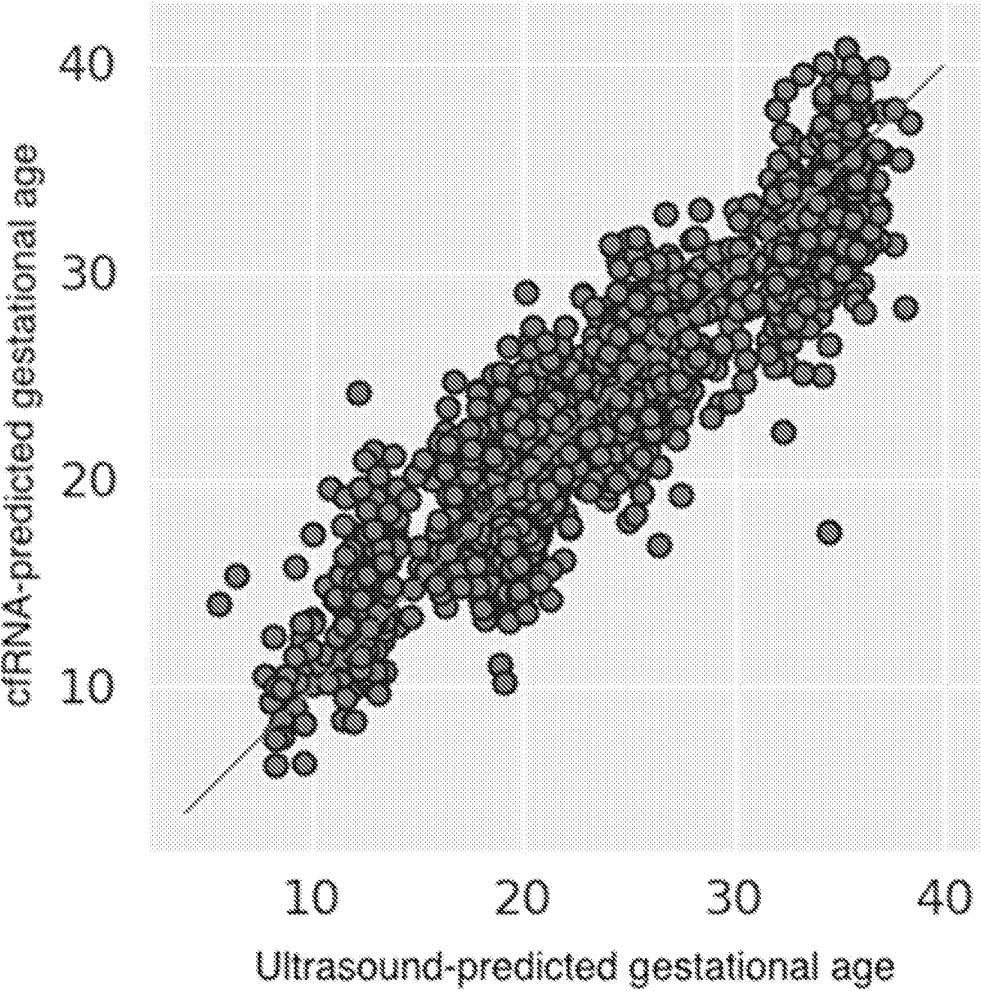


FIG. 27C

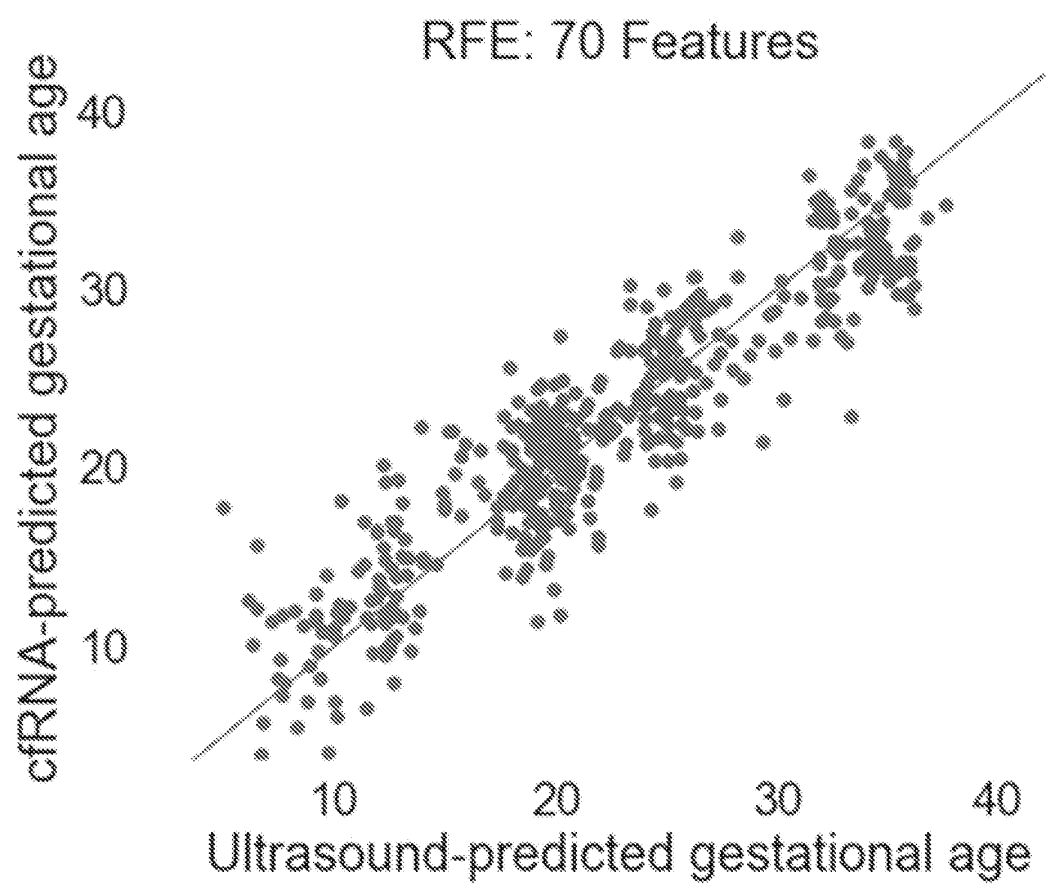


FIG. 27D

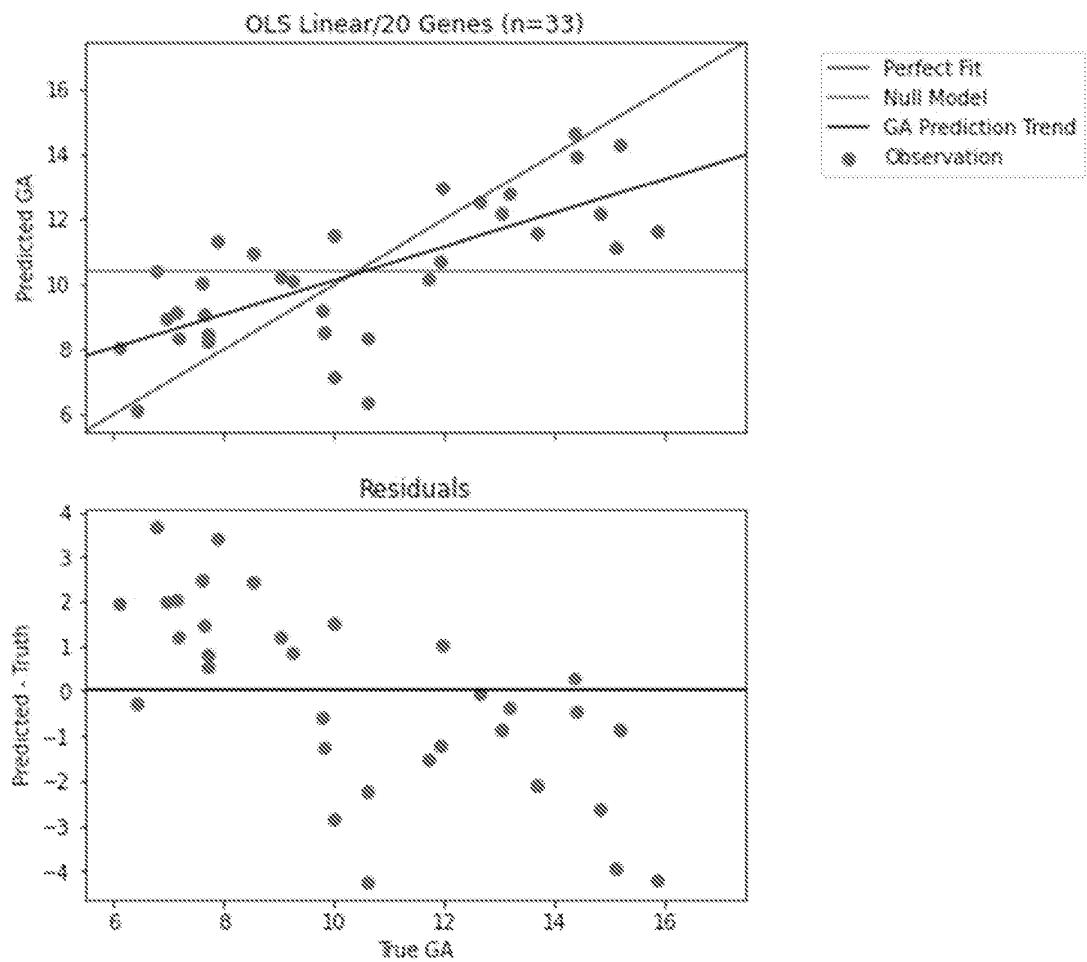


FIG. 27E

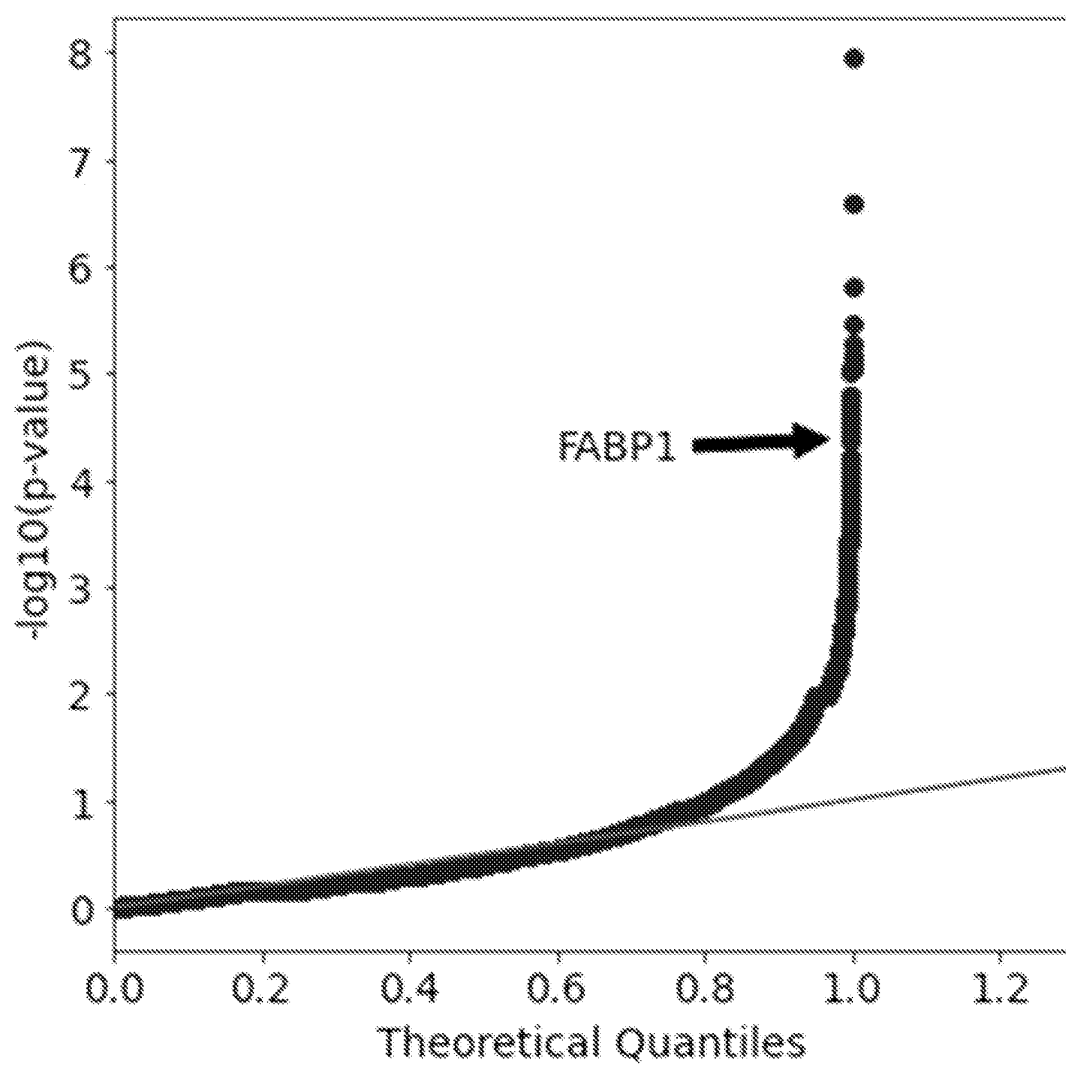


FIG. 28A

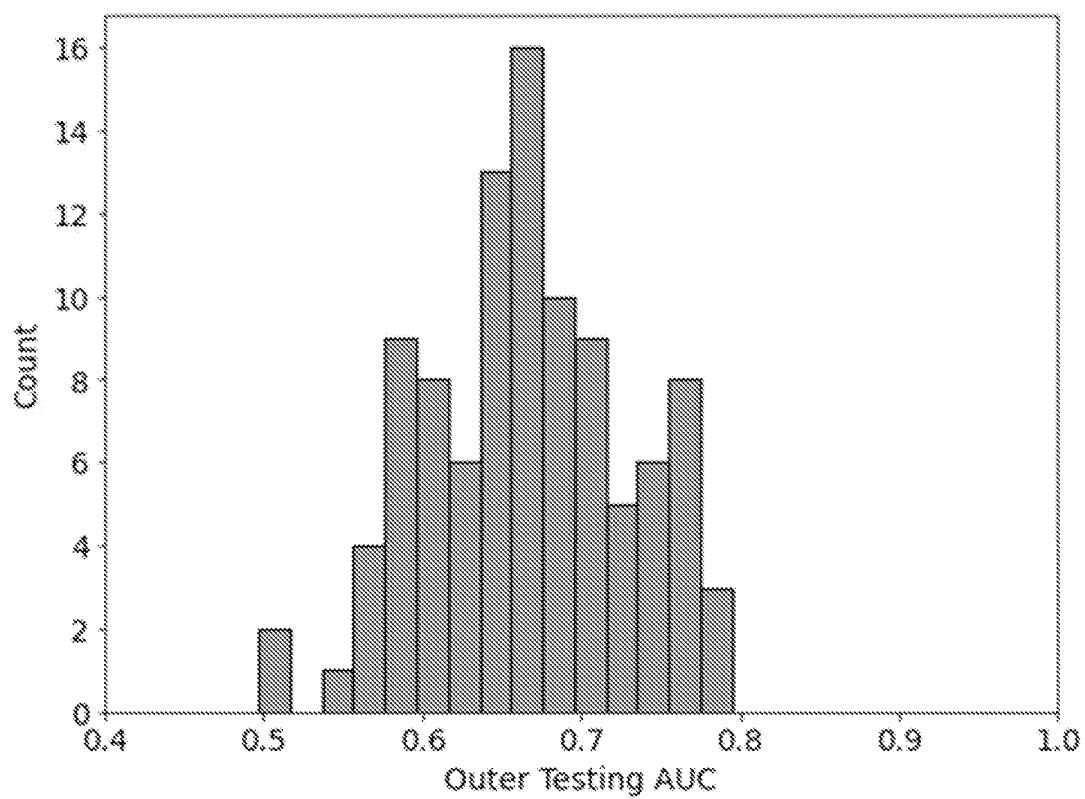


FIG. 28B

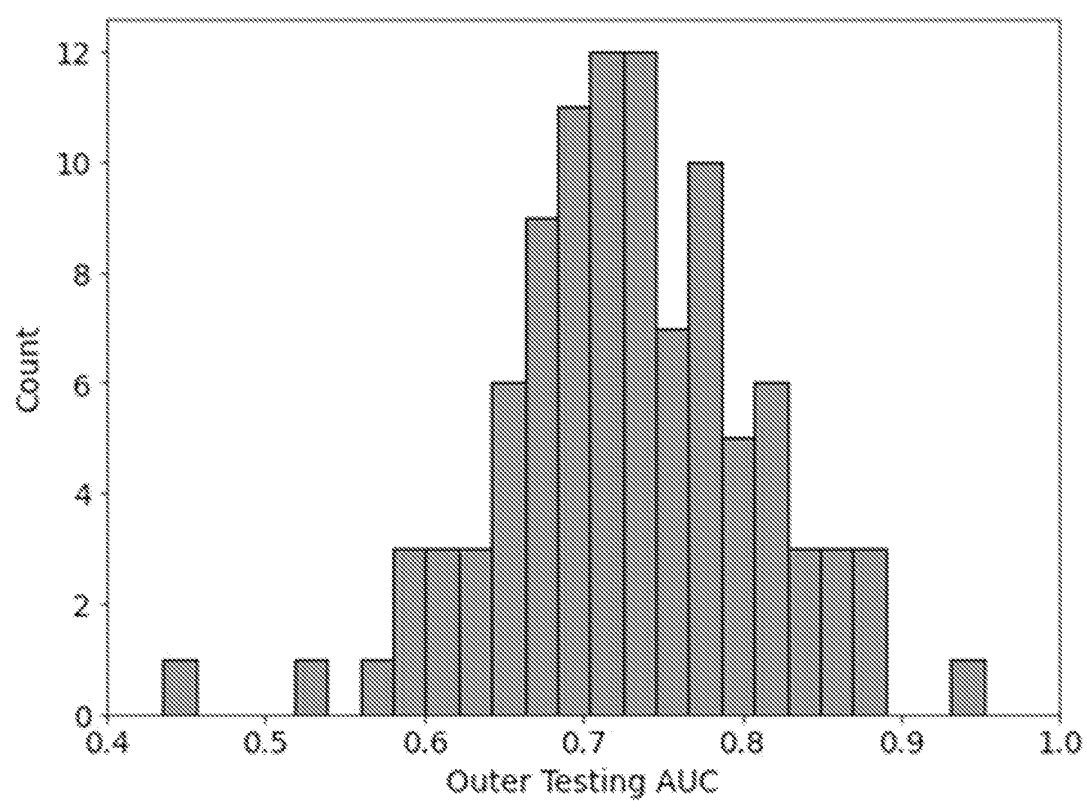


FIG. 28C

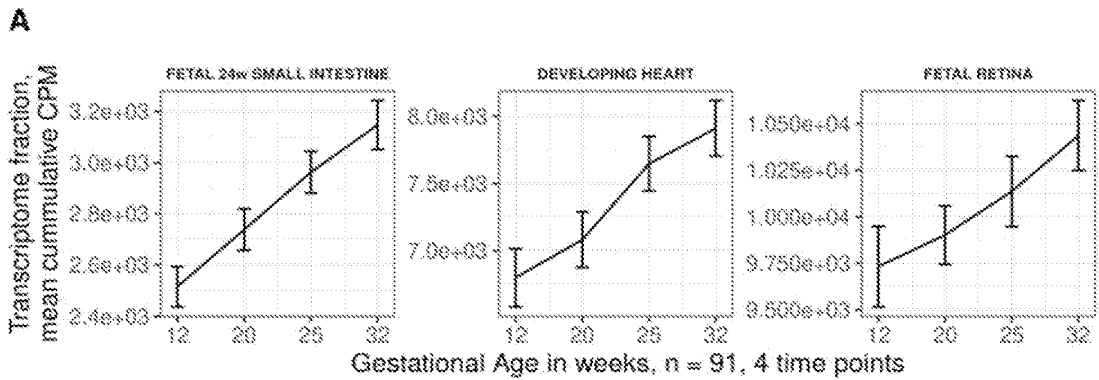


FIG. 29A

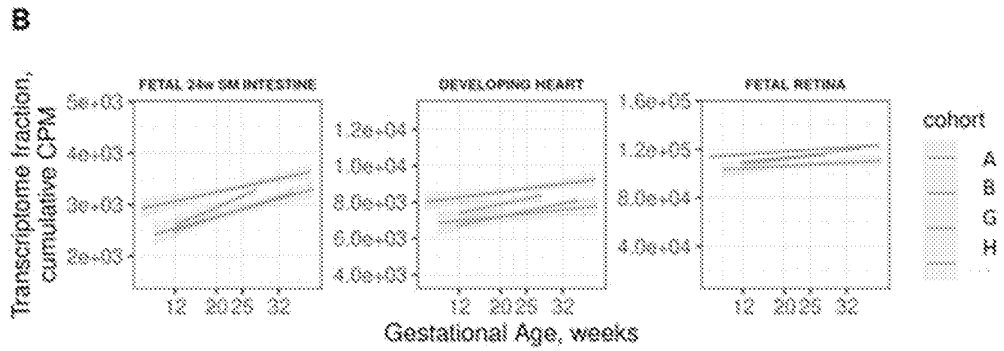


FIG. 29B

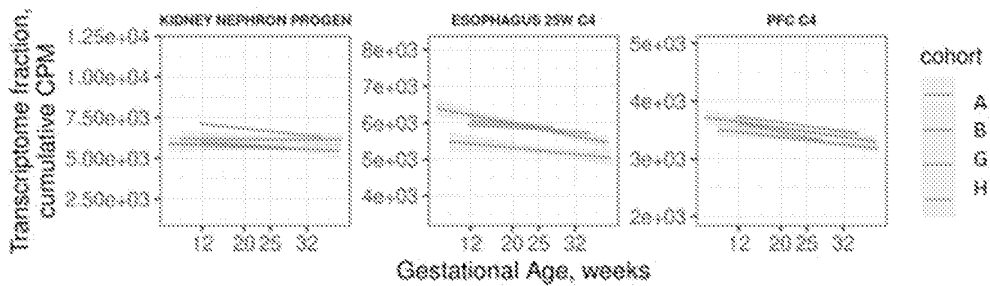


FIG. 29C



FIG. 30

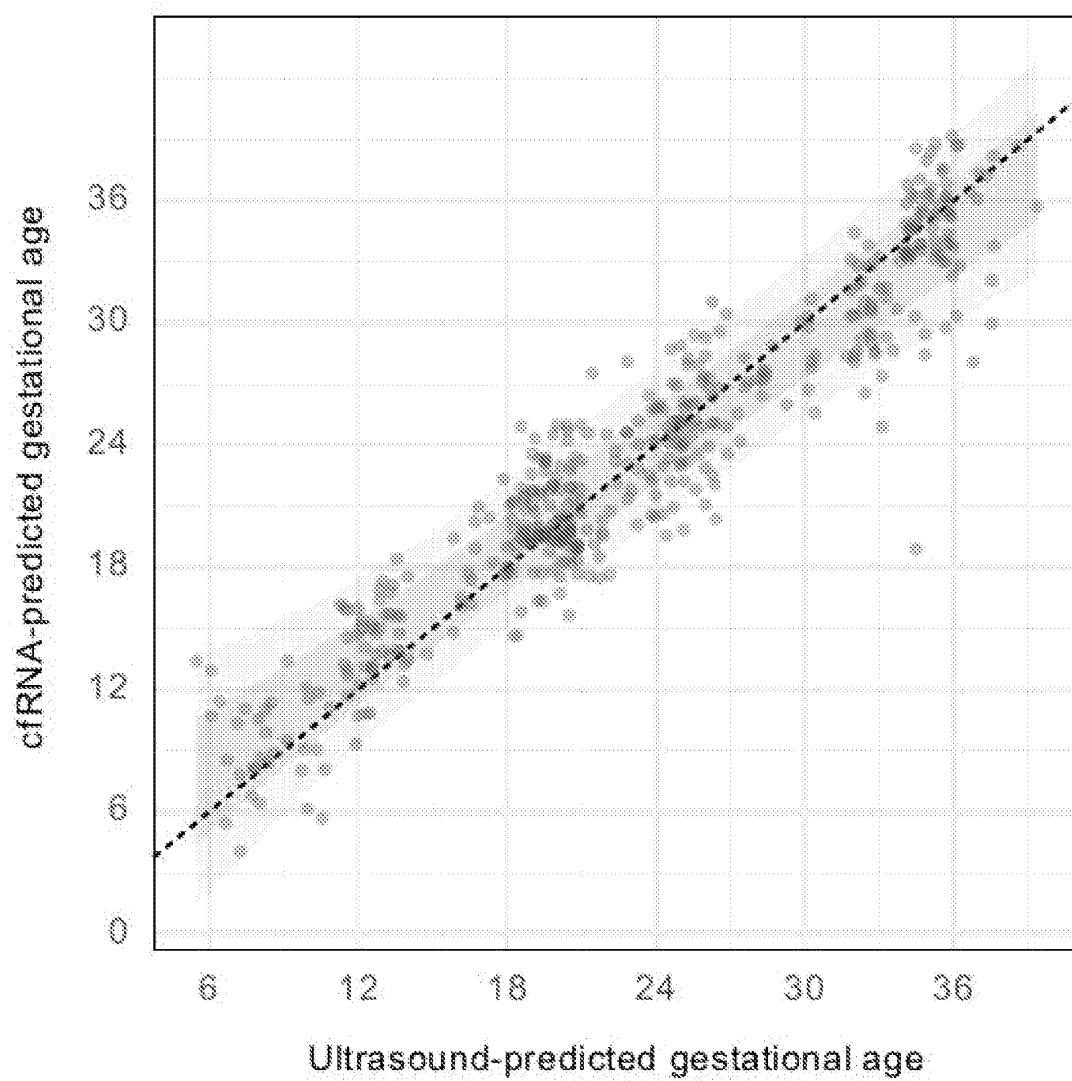


FIG. 31A

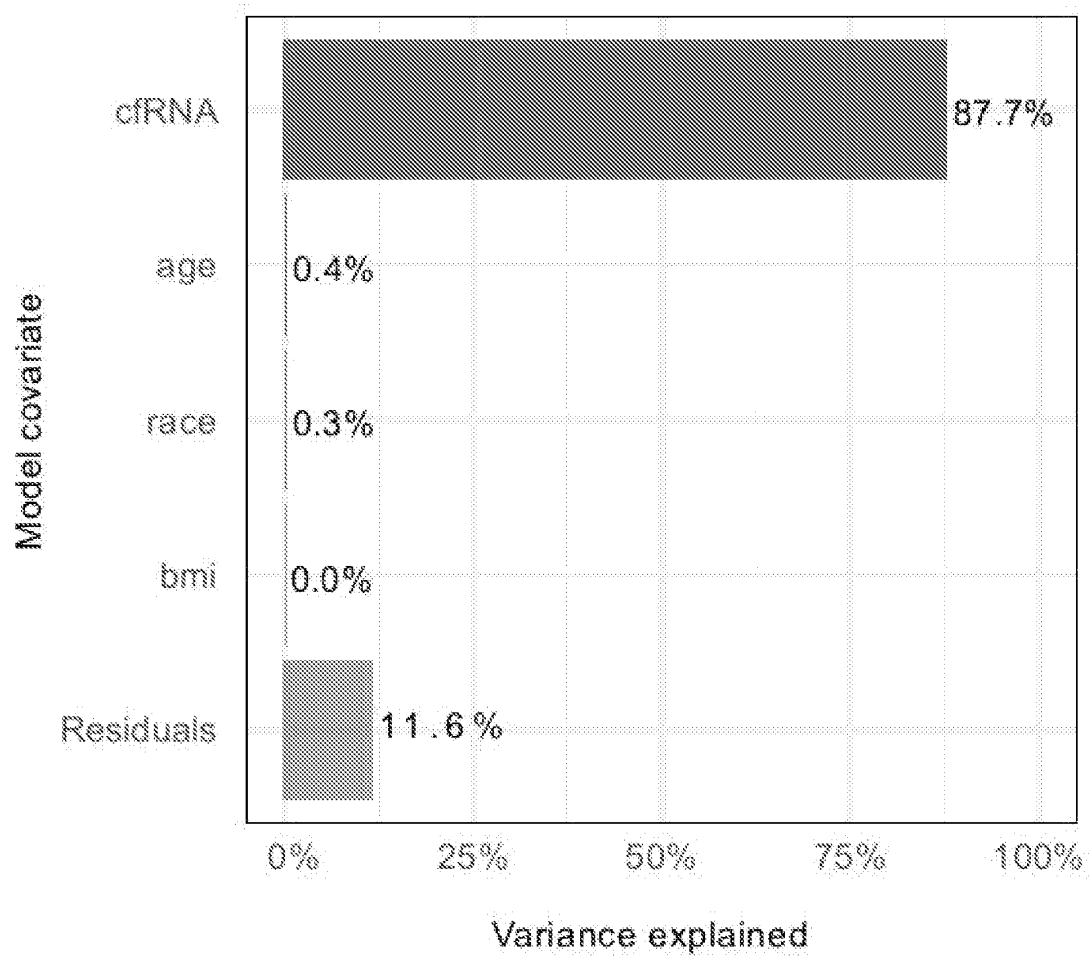


FIG. 31B

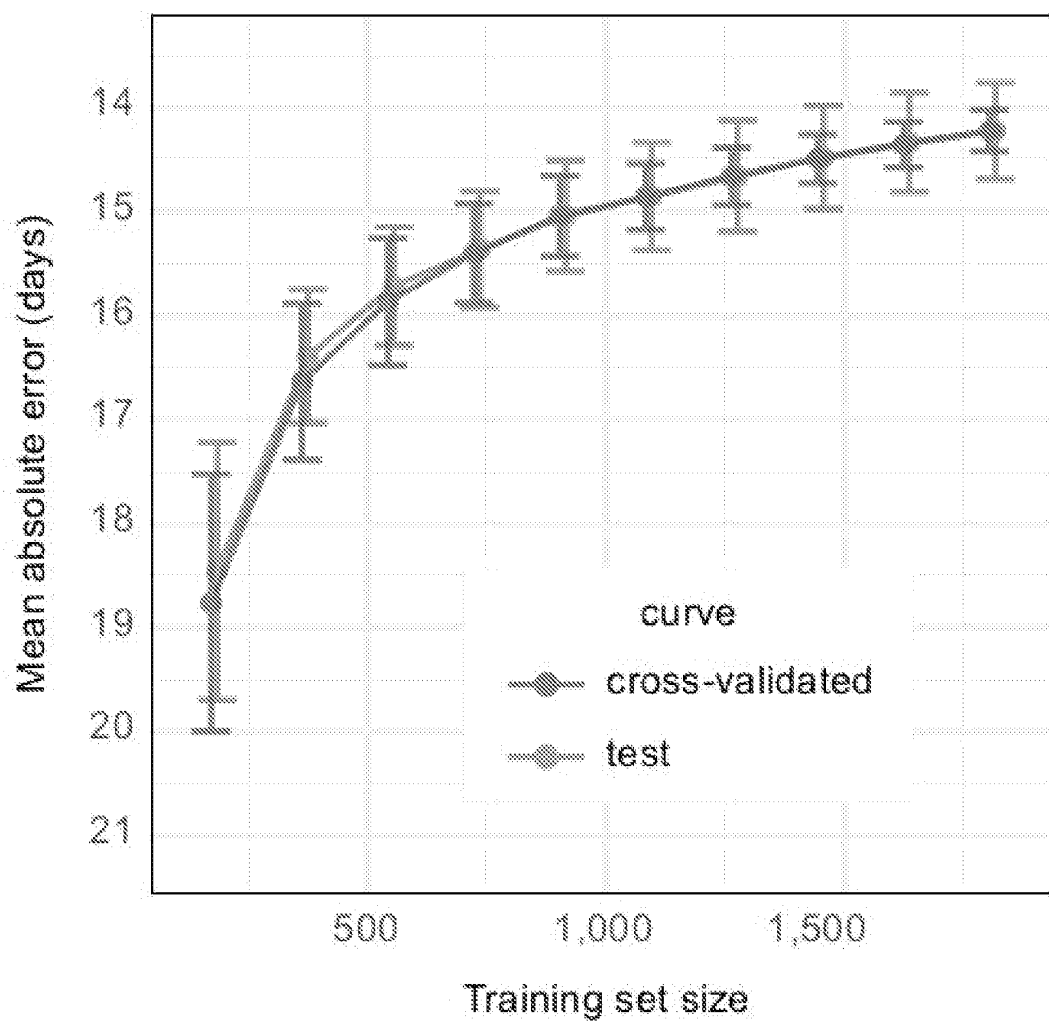


FIG. 31C

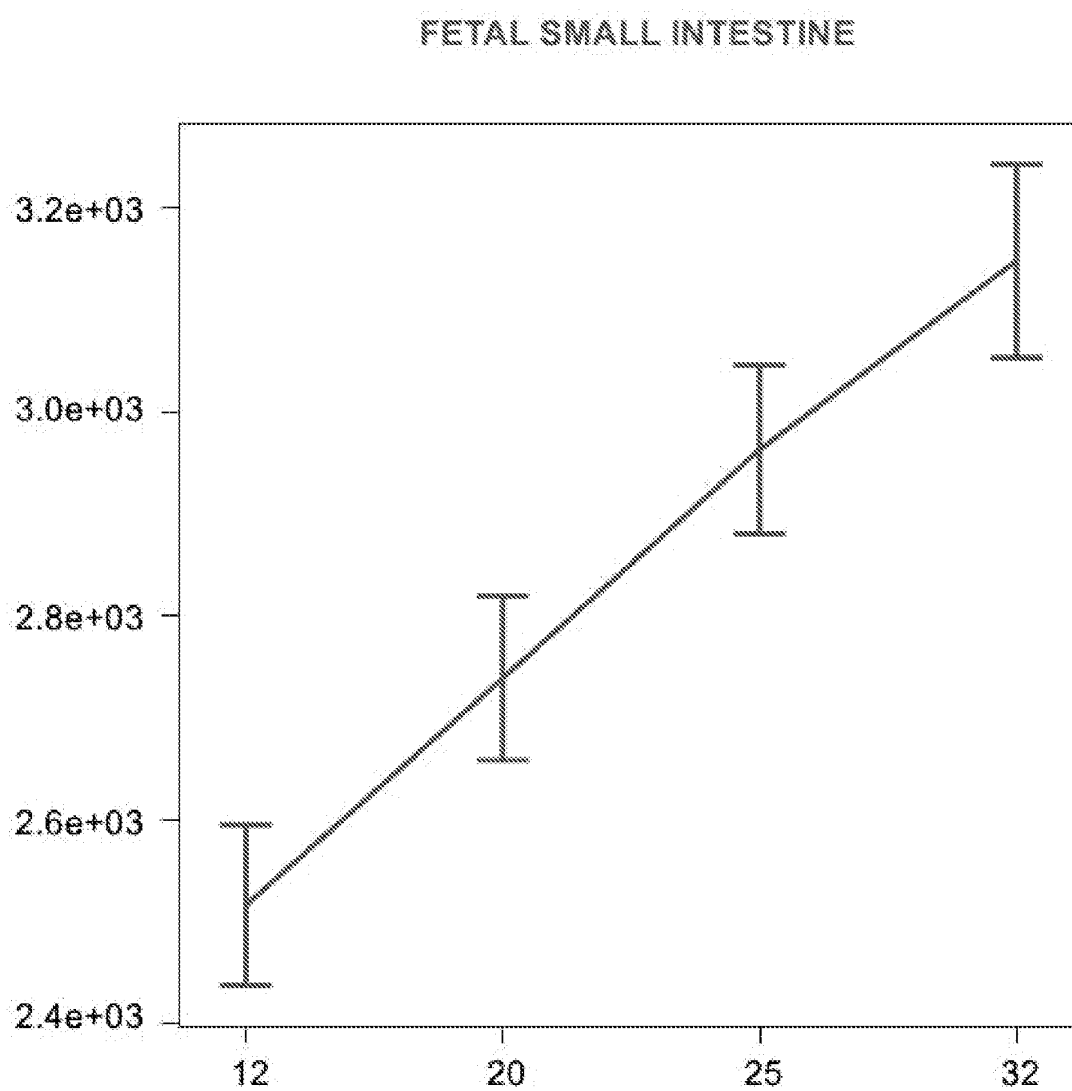


FIG. 32A

DEVELOPING HEART

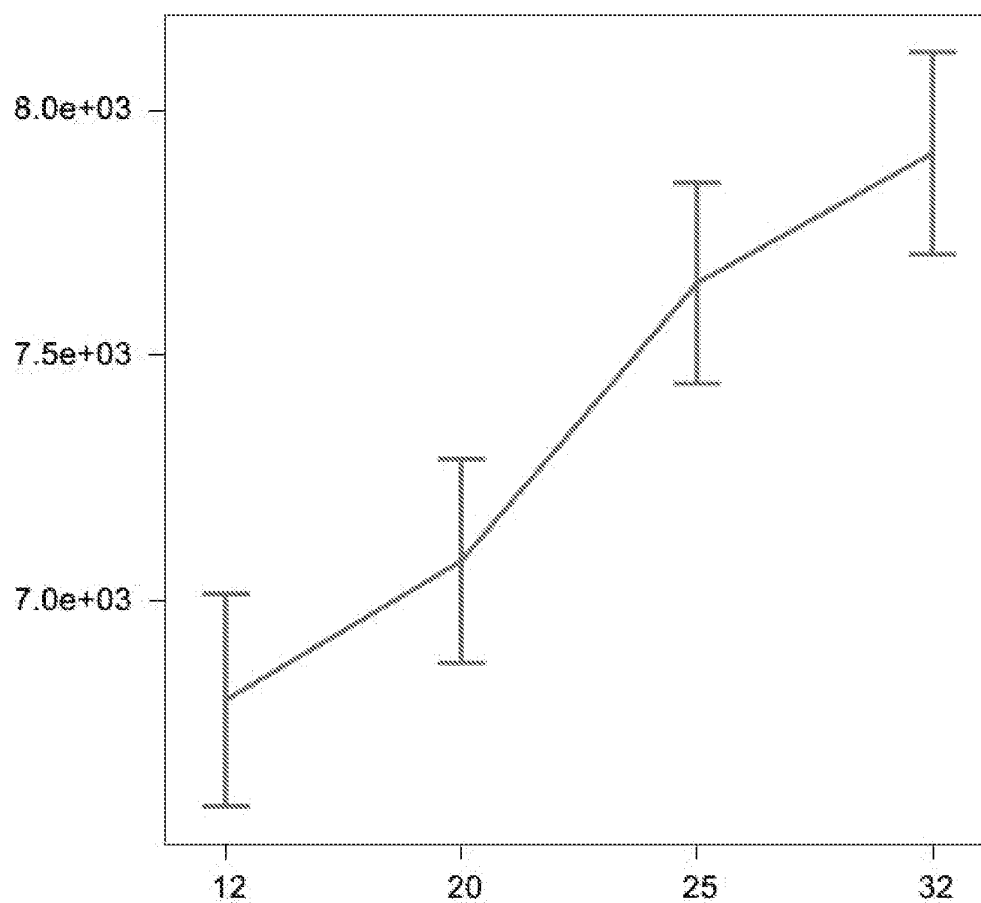


FIG. 32B

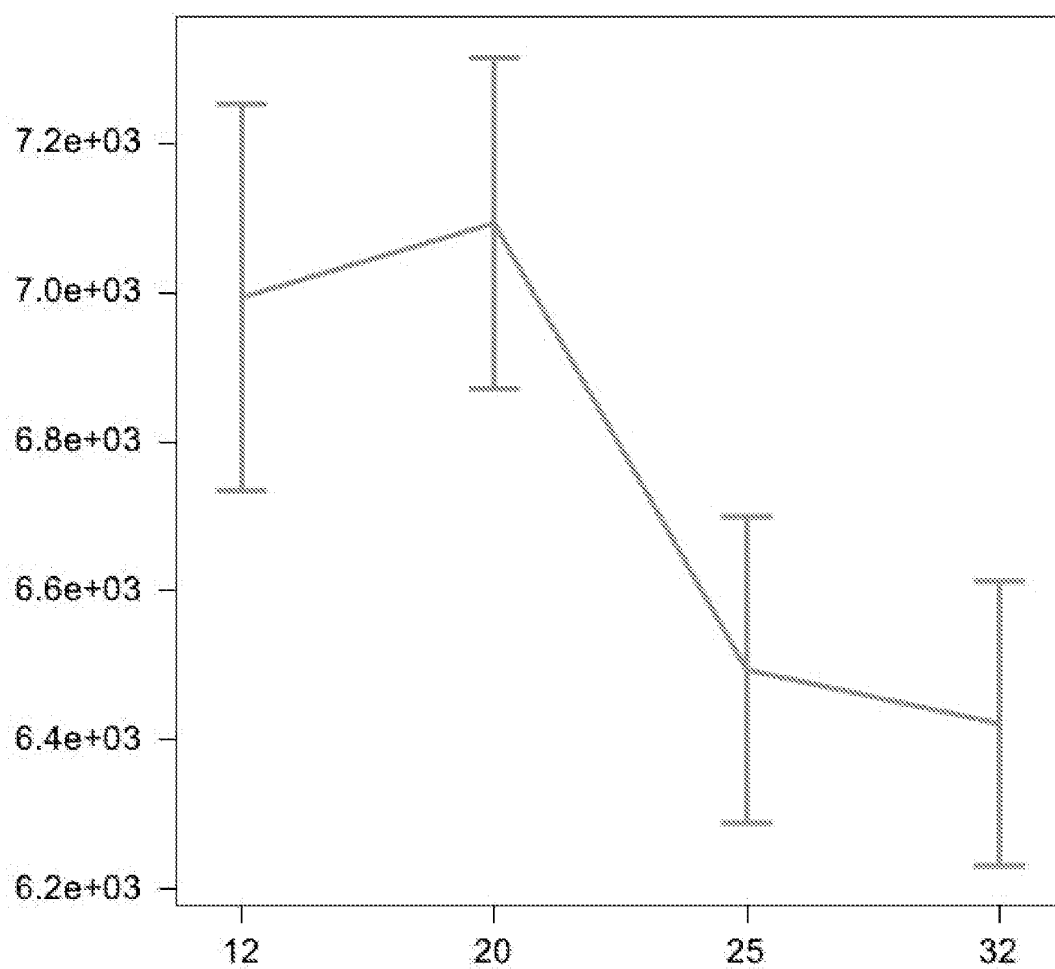


FIG. 32C

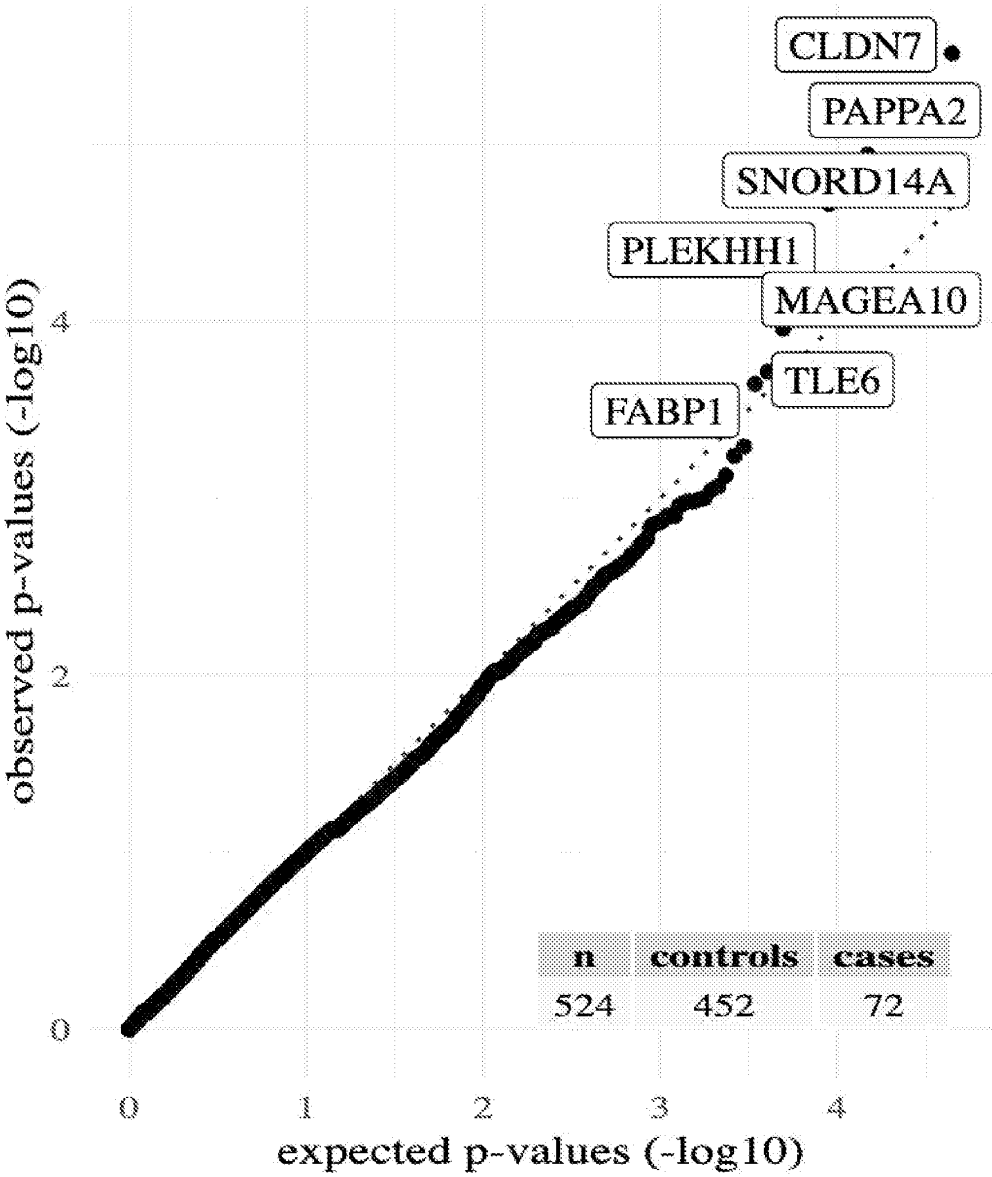


FIG. 33A

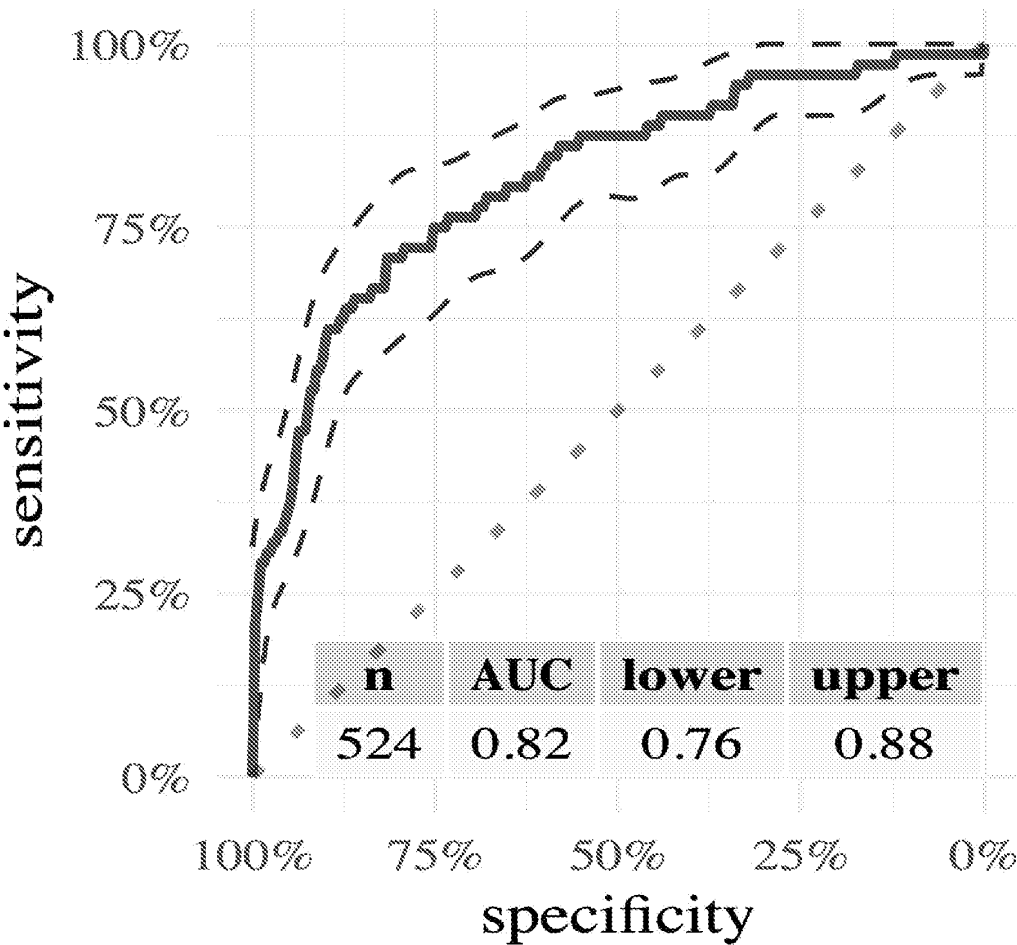


FIG. 33B

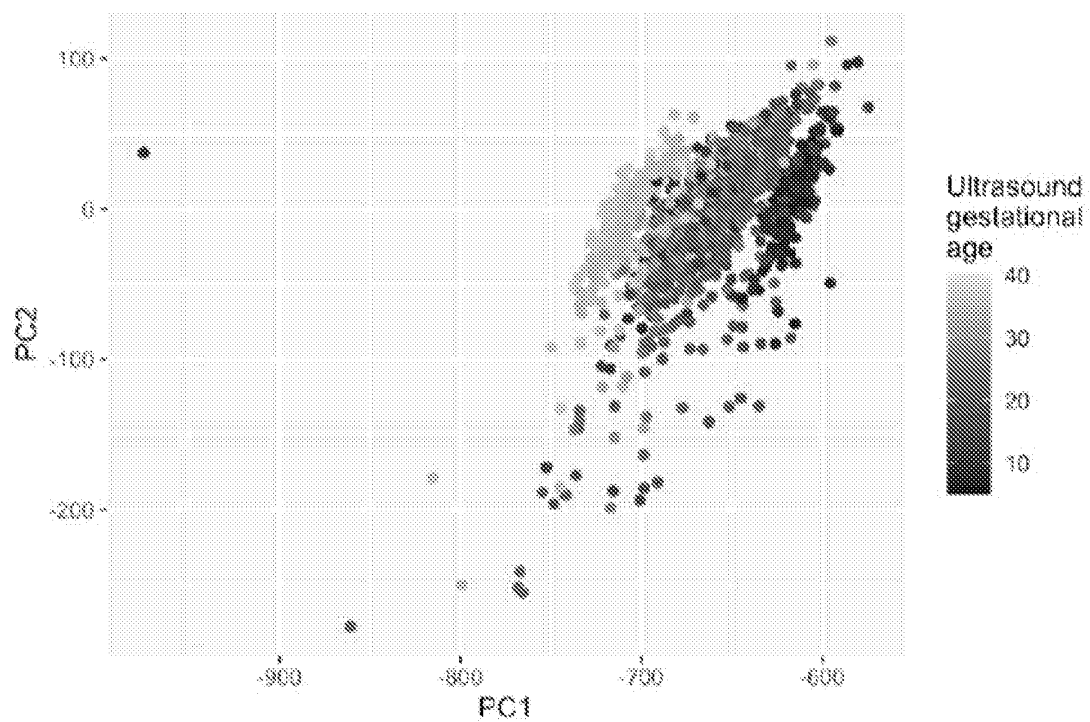


FIG. 34

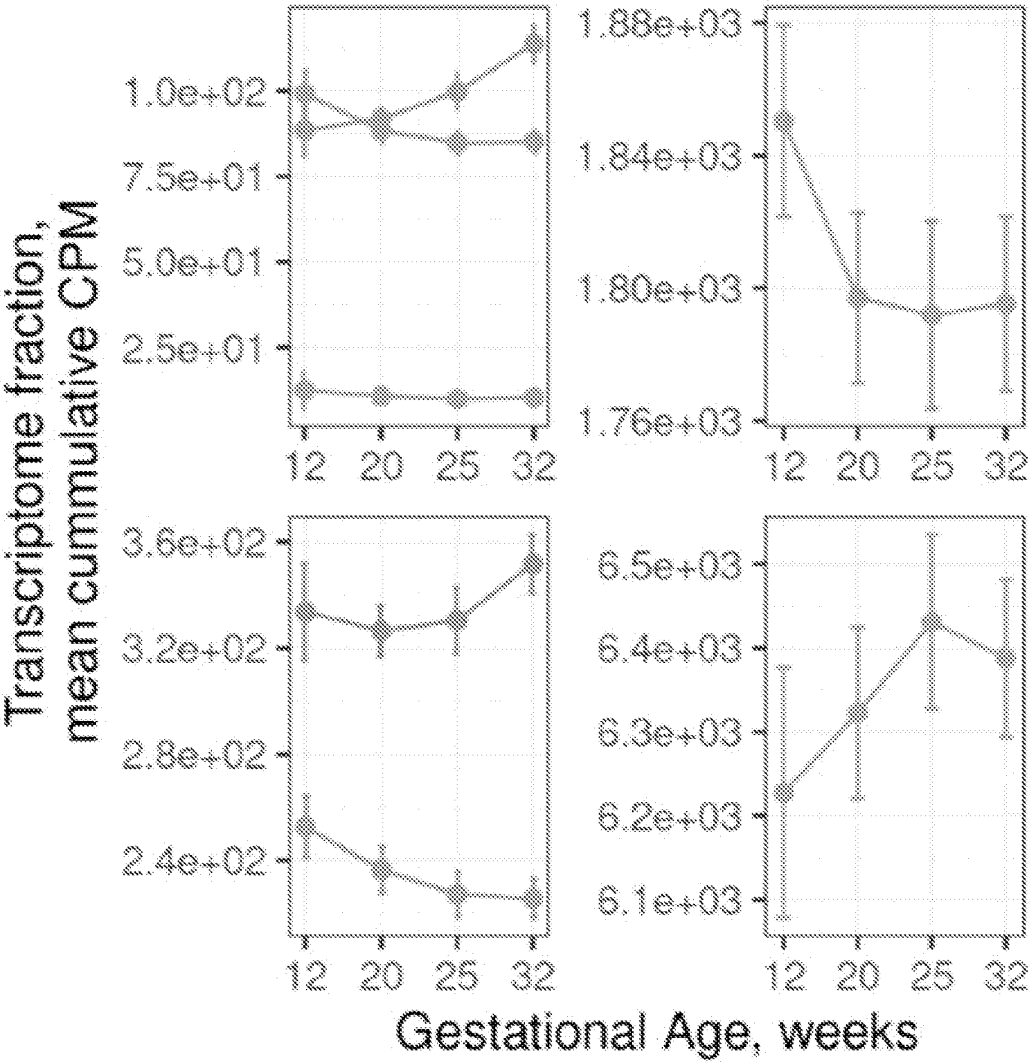


FIG. 35A

Gene set

- ◆— GO__ESTROGEN__16__ALPHA__HYDROXYLASE__ACTIVITY
- ◆— GO__ESTROGEN__BIOSYNTHETIC__PROCESS
- ◆— GO__ESTROGEN__METABOLIC__PROCESS
- ◆— GO__GONADOTROPIN__SECRETION
- ◆— GO__REGULATION__OF__GONADOTROPIN__SECRETION
- ◆— GO__RESPONSE__TO__ESTROGEN
- ◆— HP__ABNORMAL__CIRCULATING__ESTROGEN__LEVEL

FIG. 35B

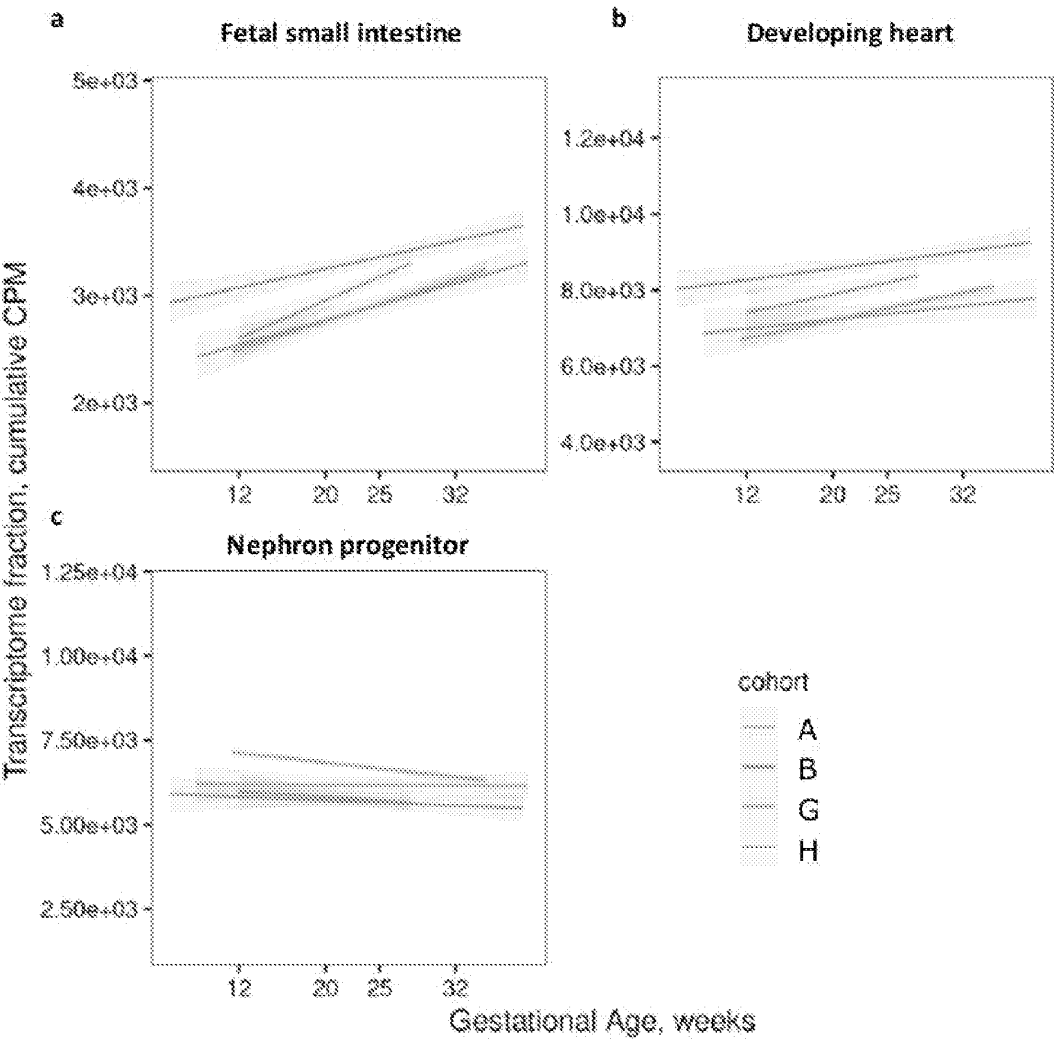


FIG. 36

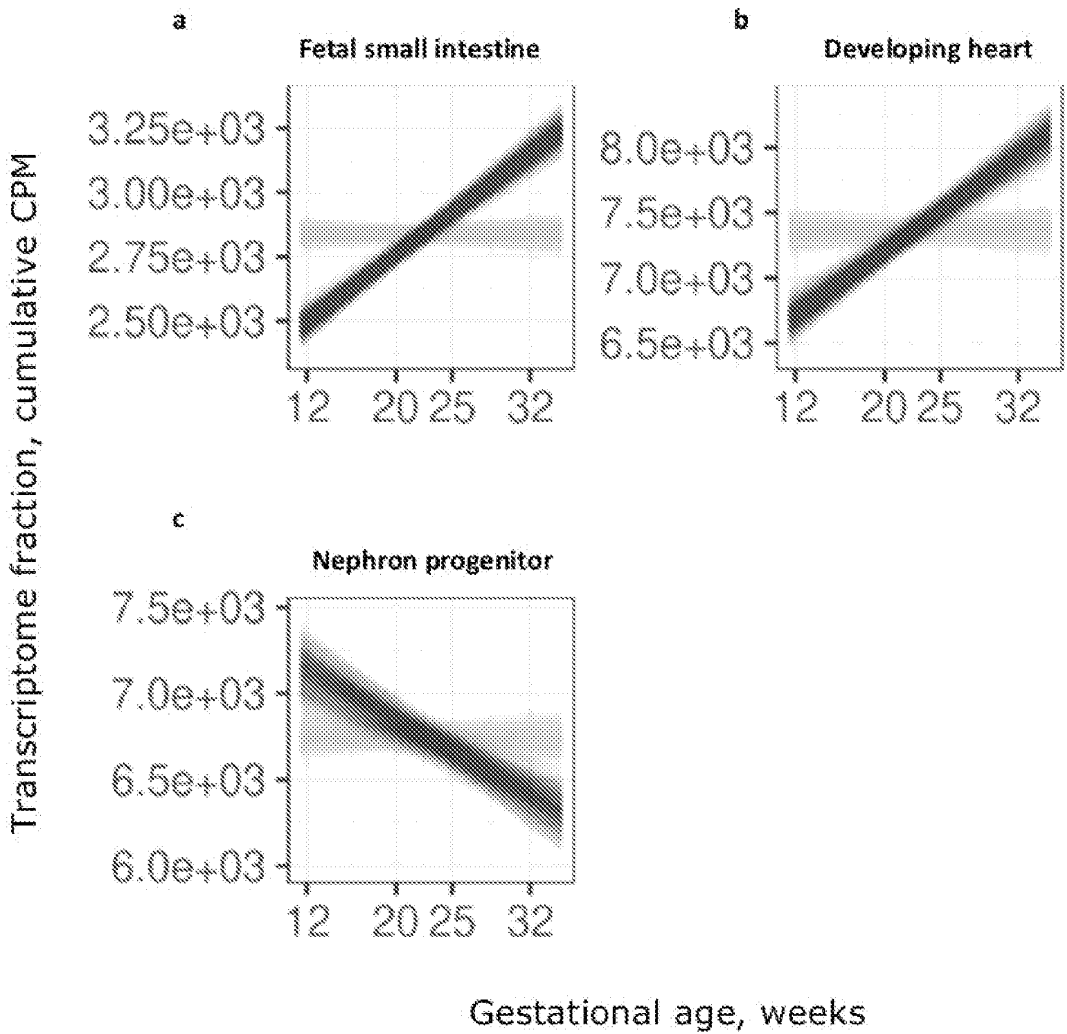


FIG. 37

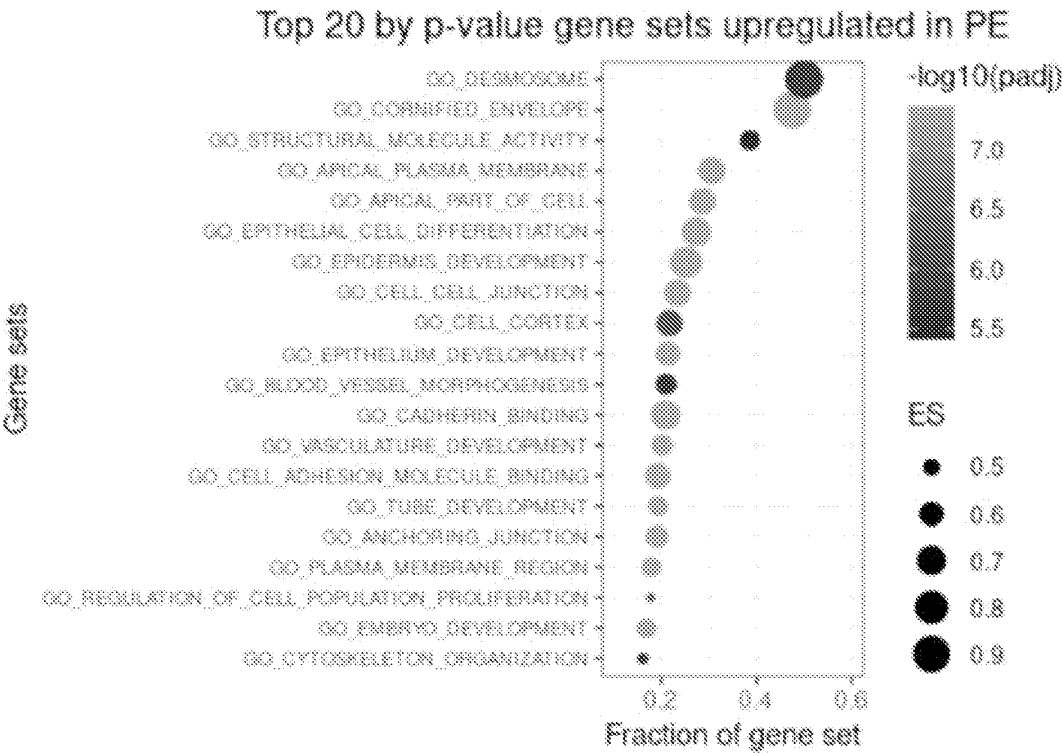


FIG. 38A

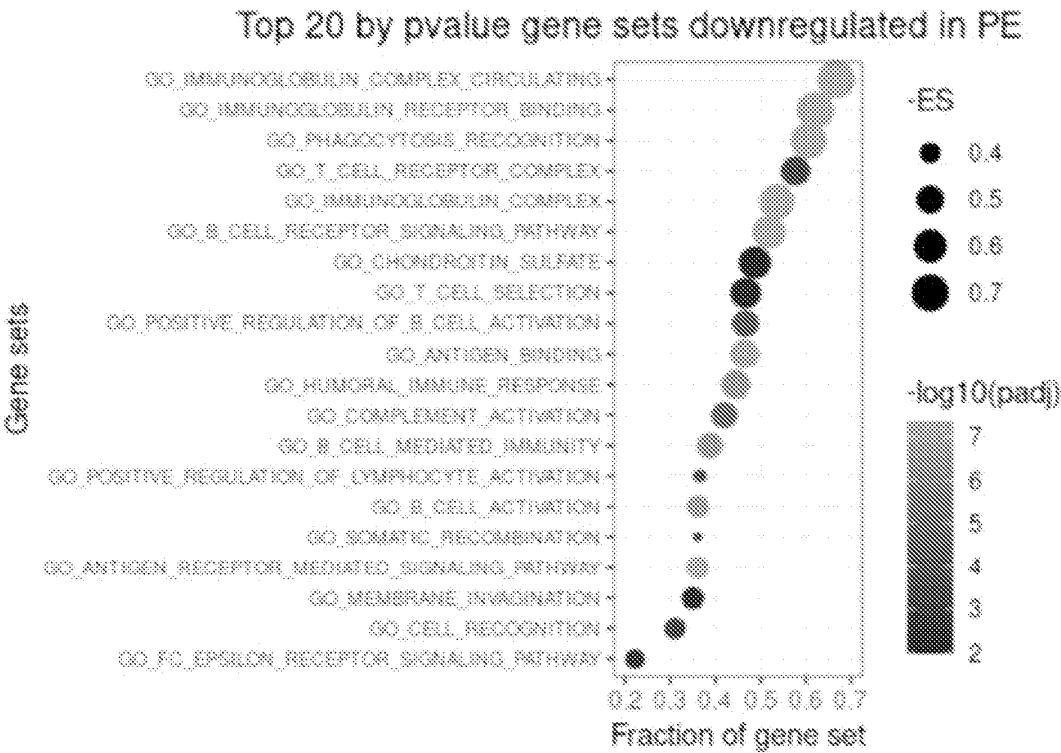


FIG. 38B

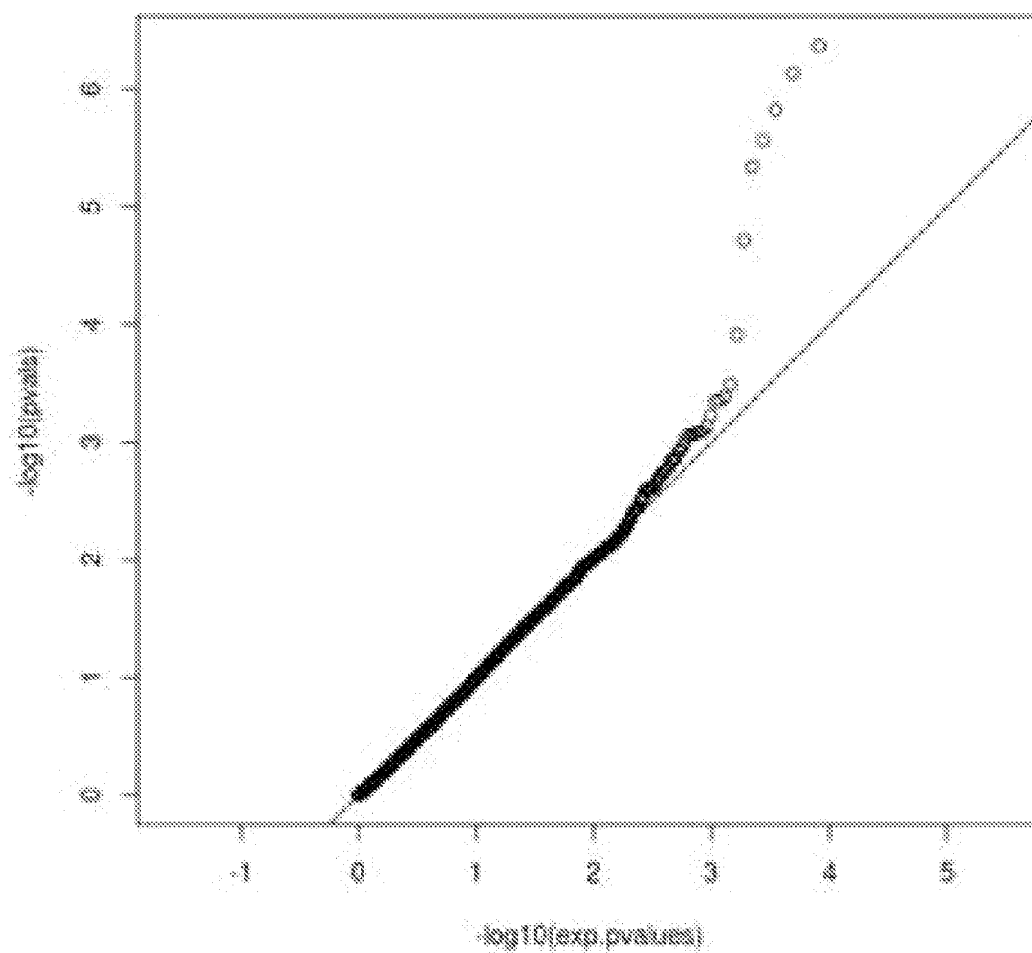


FIG. 39

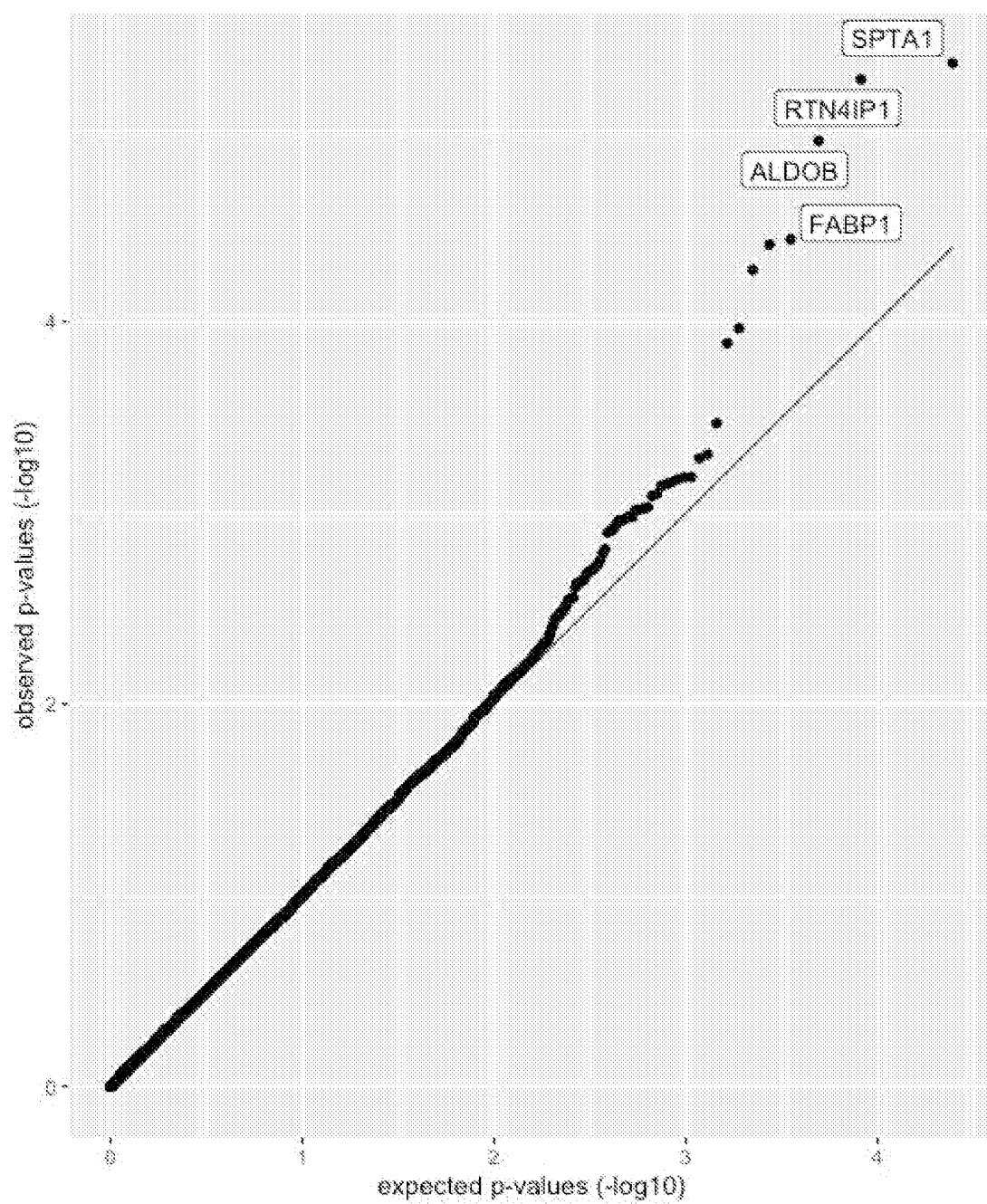
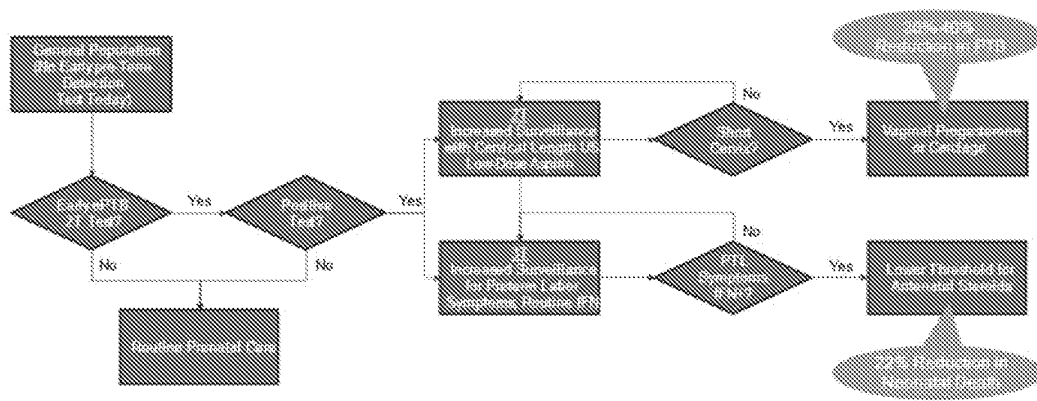


FIG. 40



2

Not for Confidential and Proprietary

FIG. 41

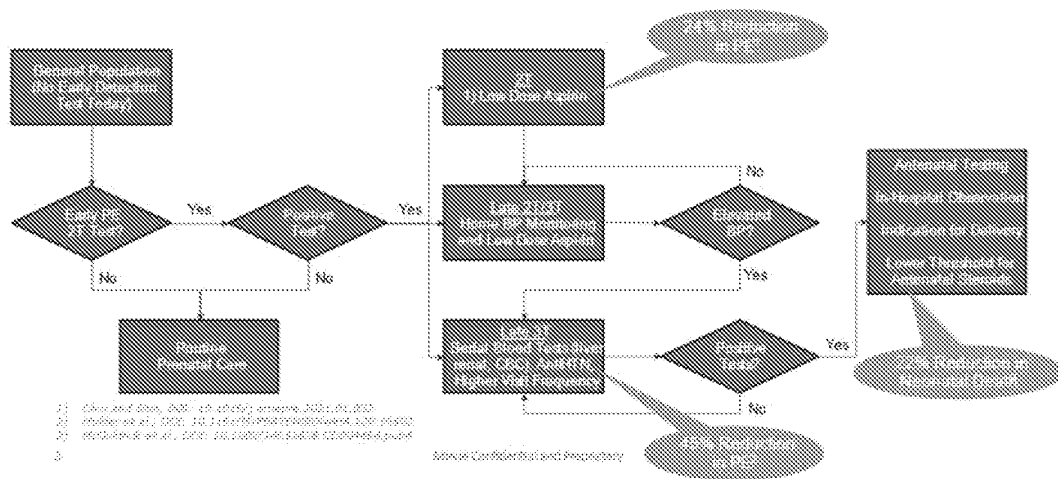
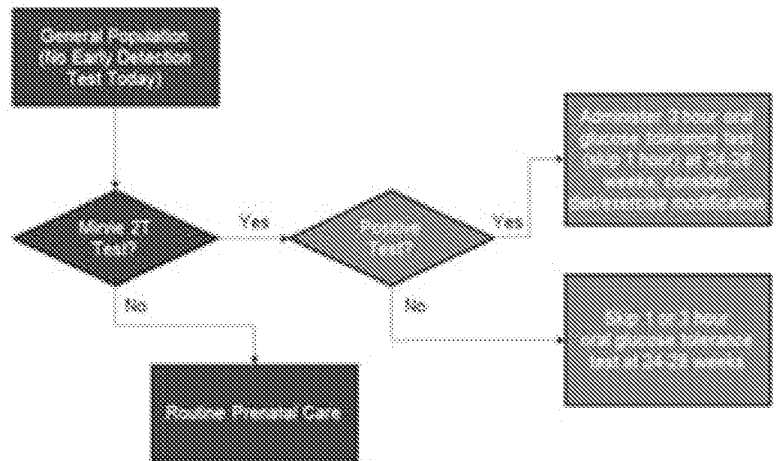


FIG. 42

GDM Care Pathway

**FIG. 43**

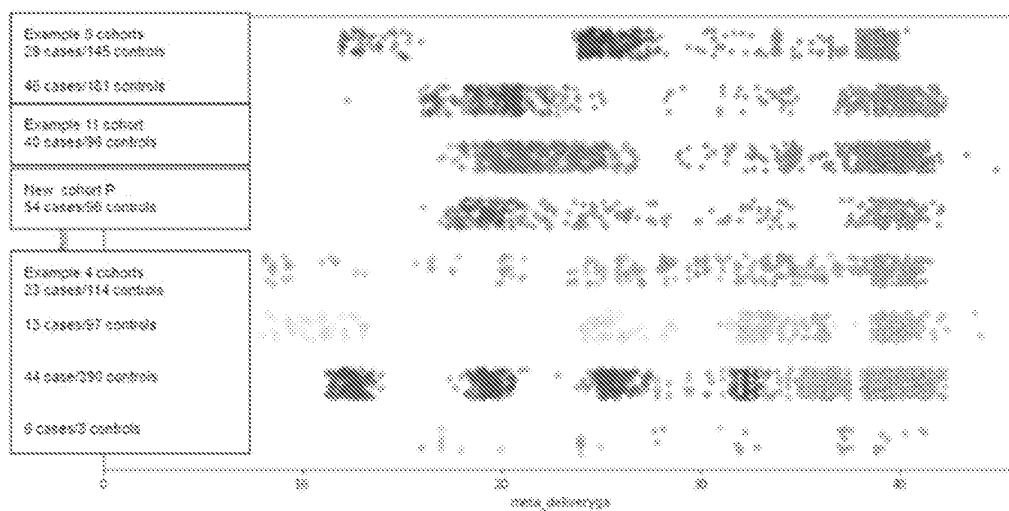


FIG. 44A

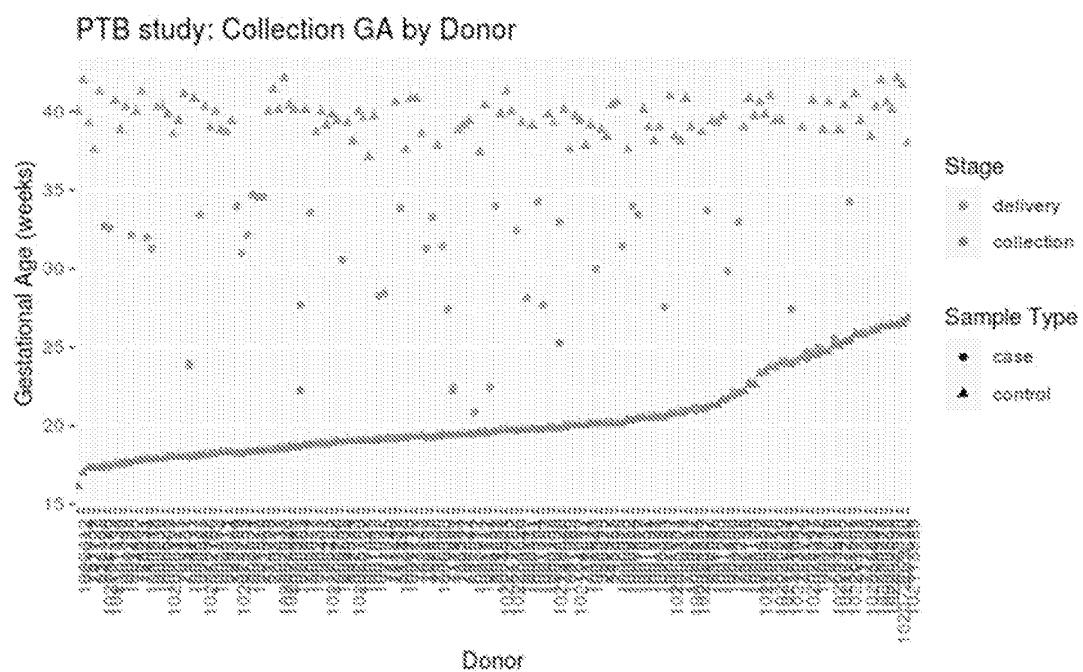


FIG. 44B

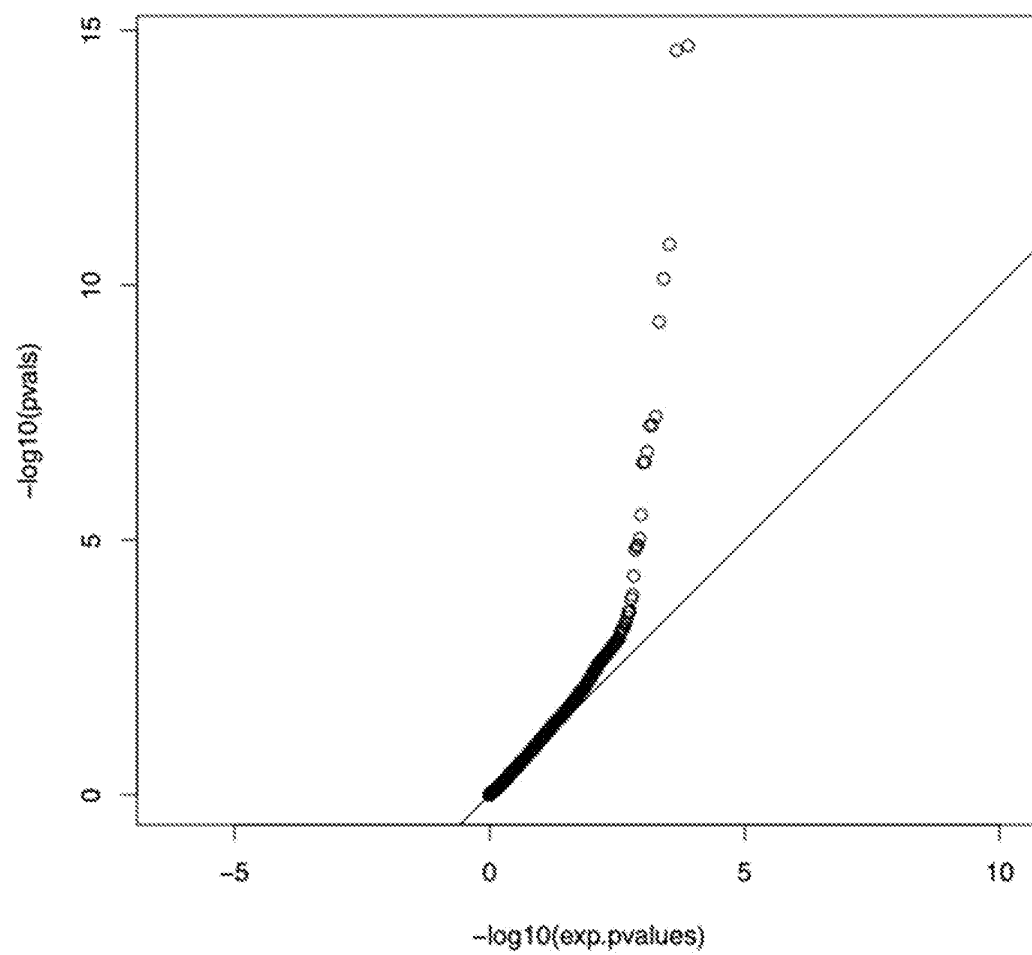


FIG. 44C

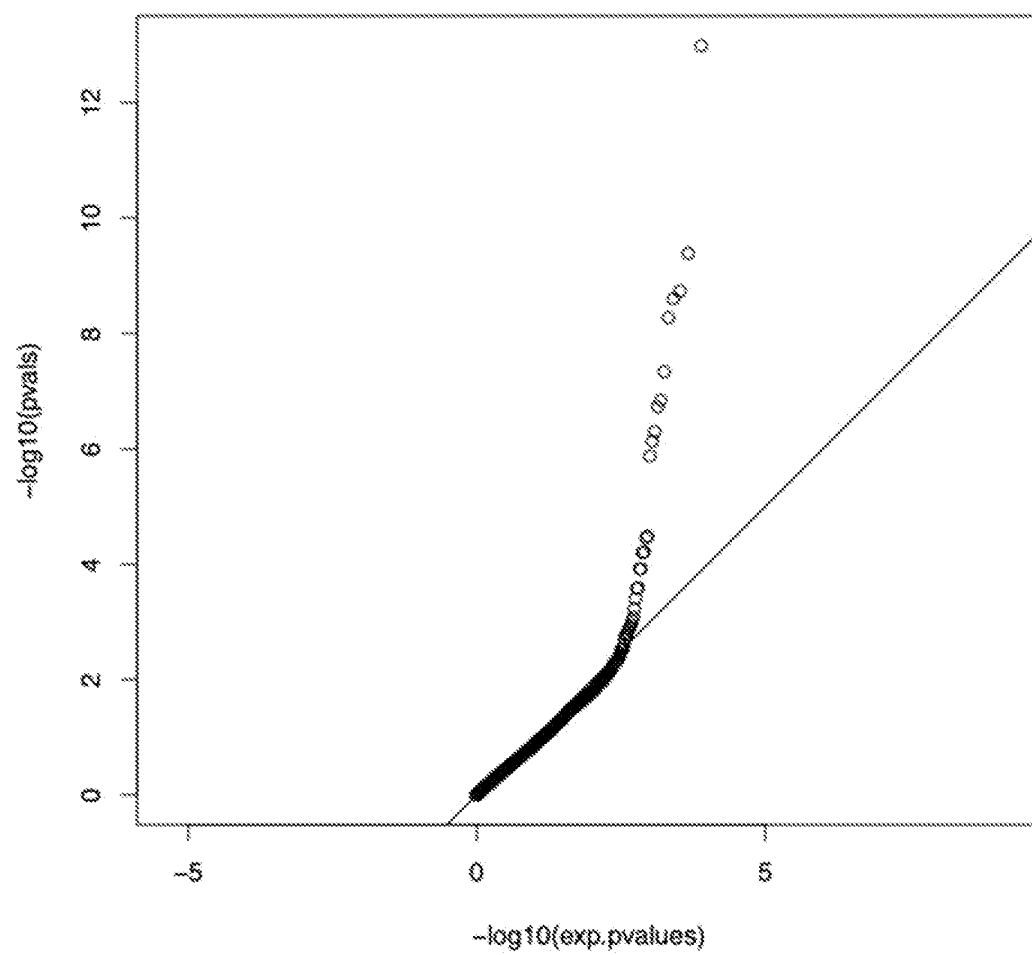


FIG. 44D

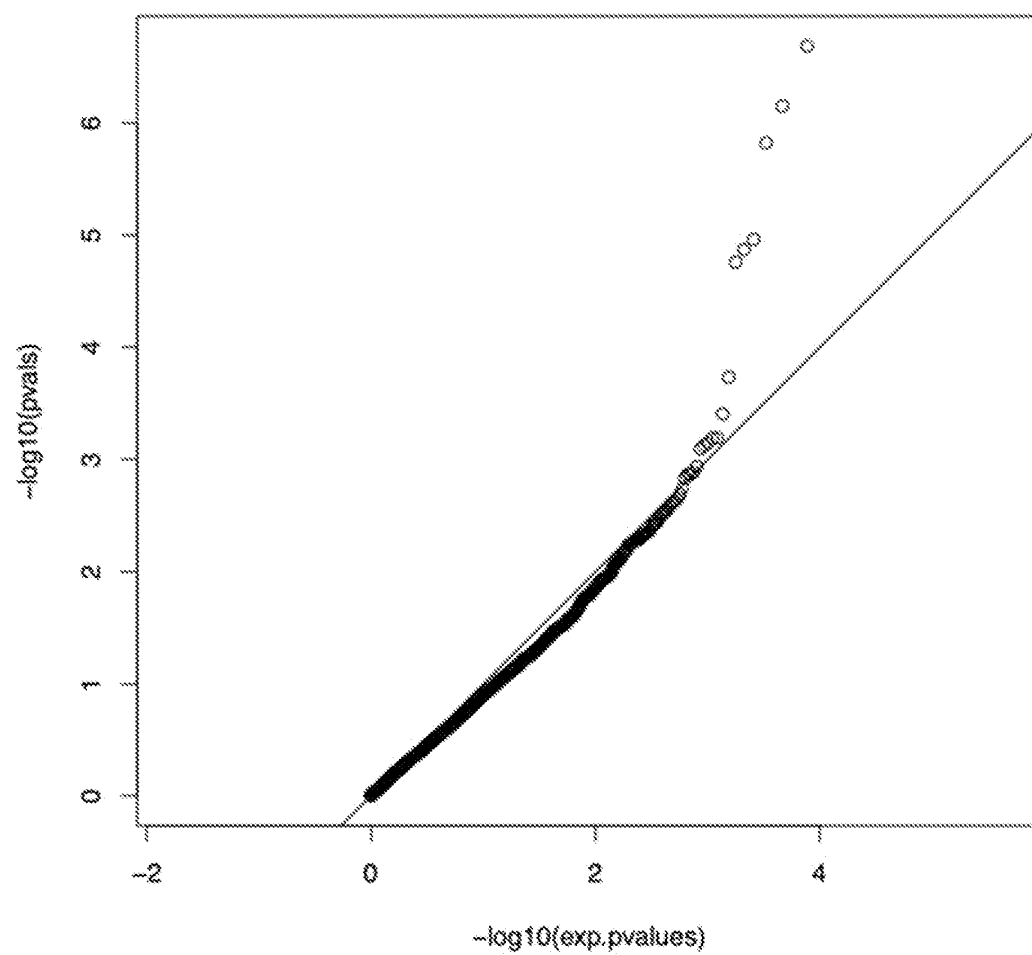


FIG. 44E