

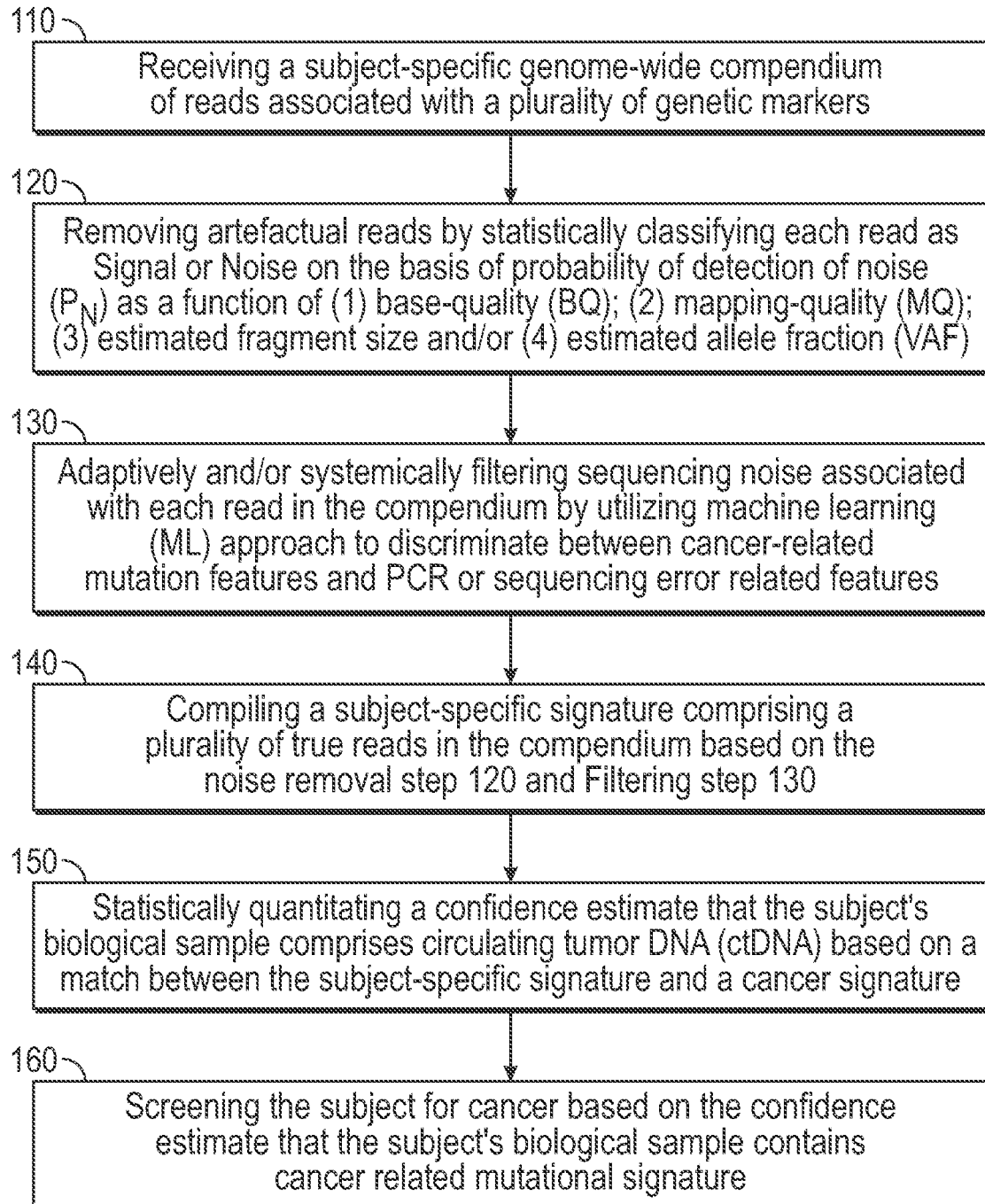


FIG. 1A

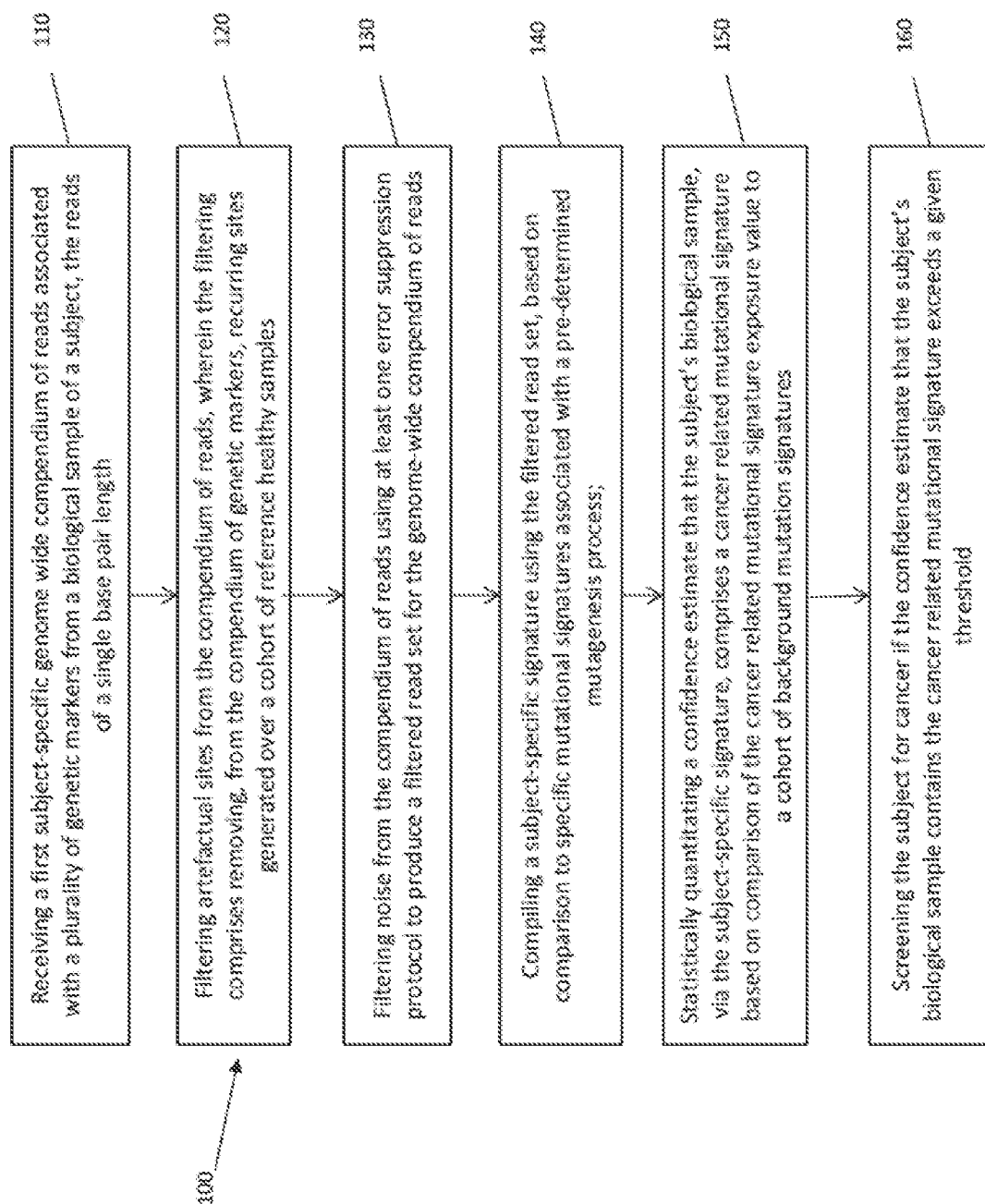


FIG. 1B

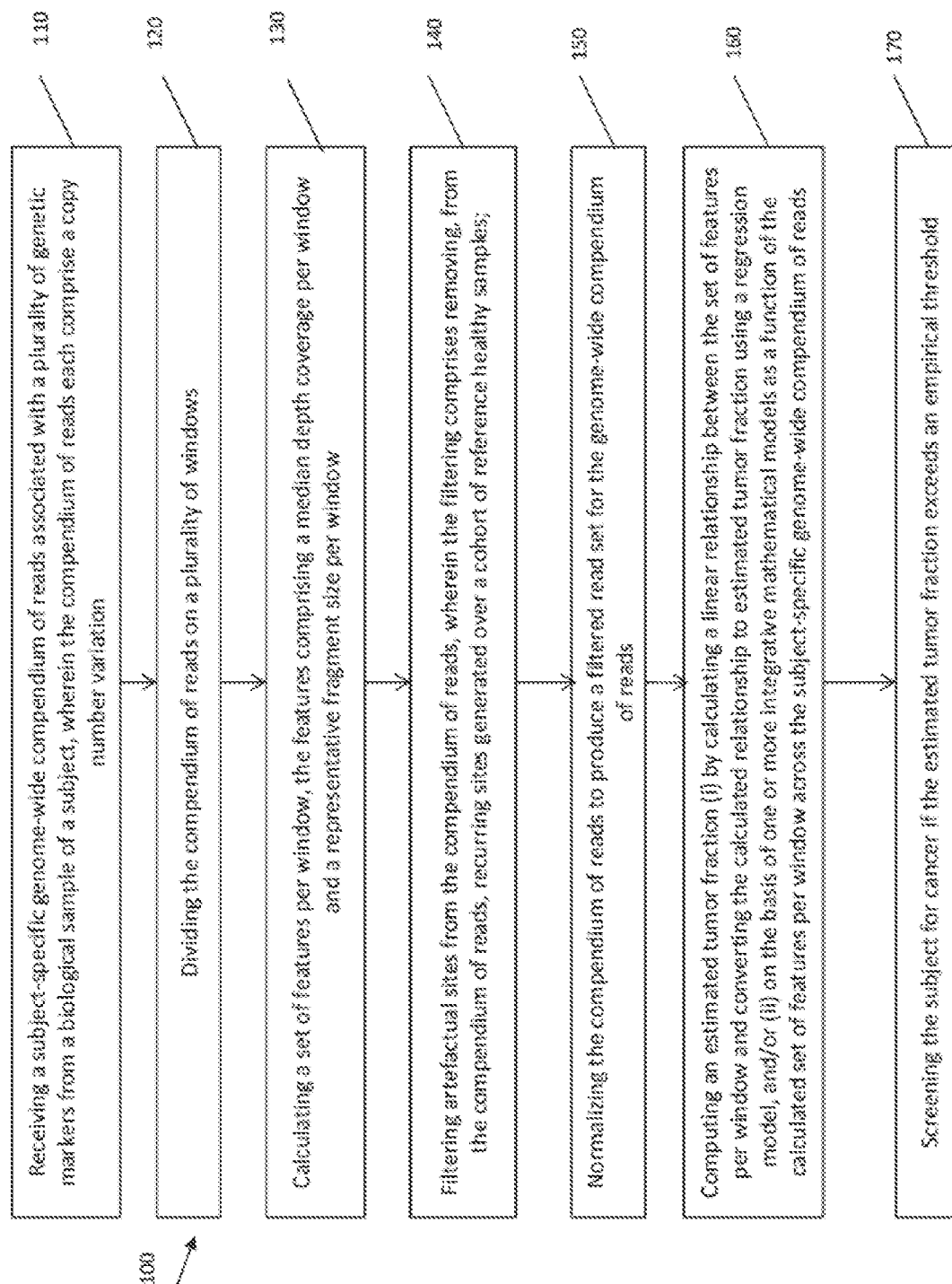


FIG. 1C

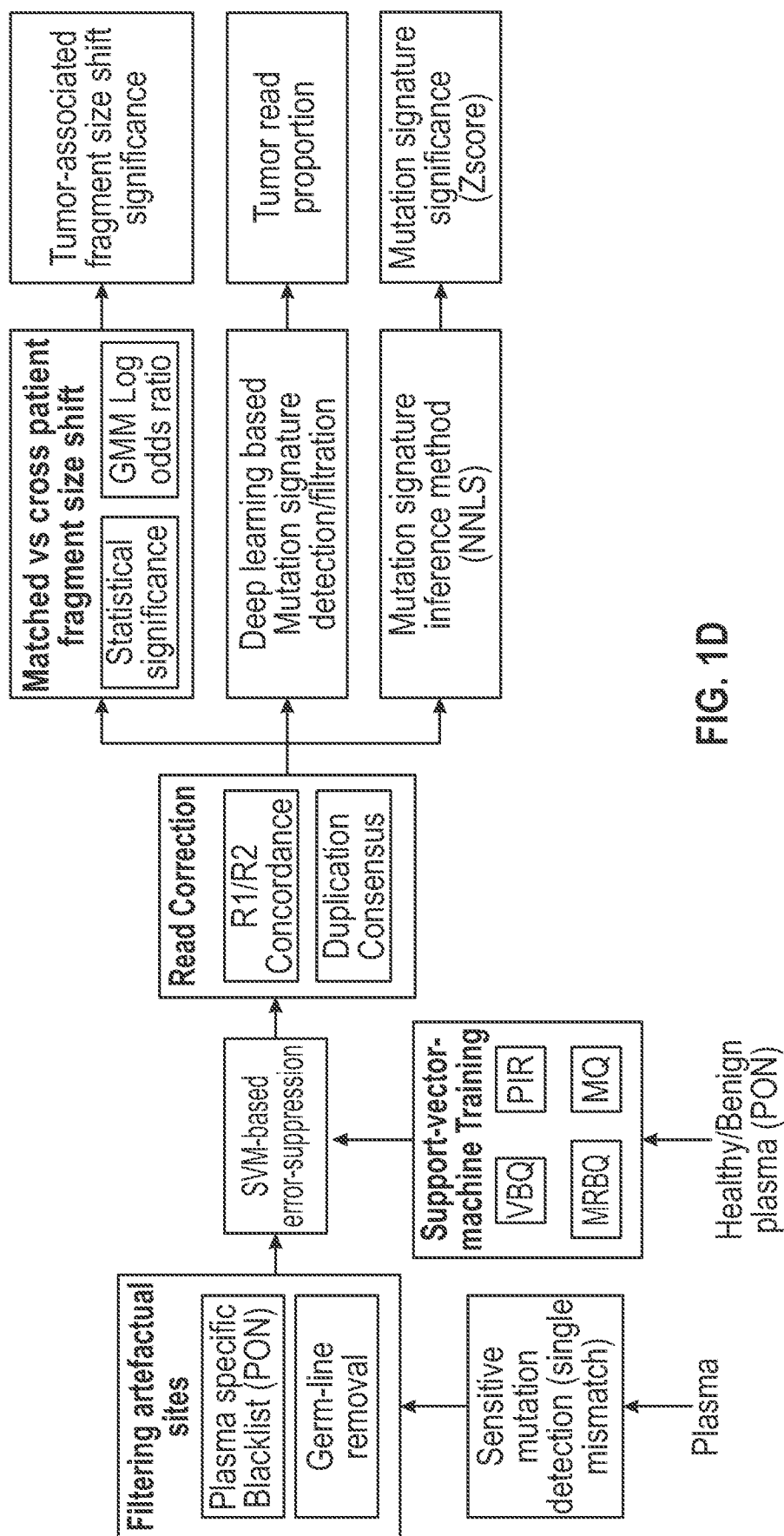


FIG. 1D

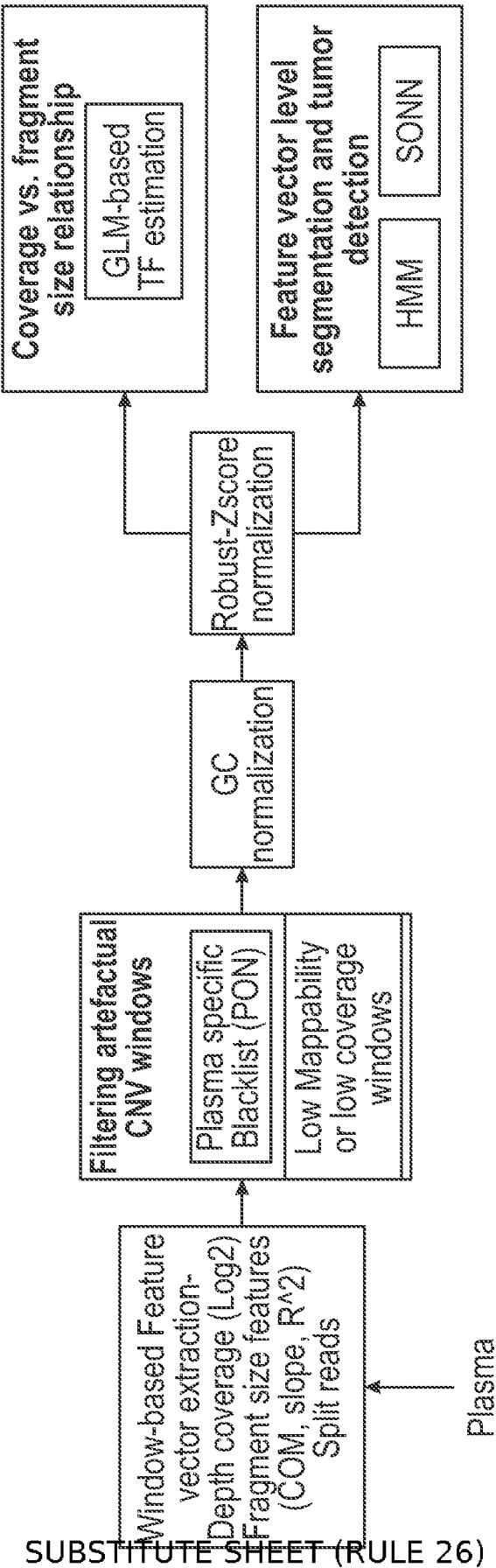


FIG. 1E

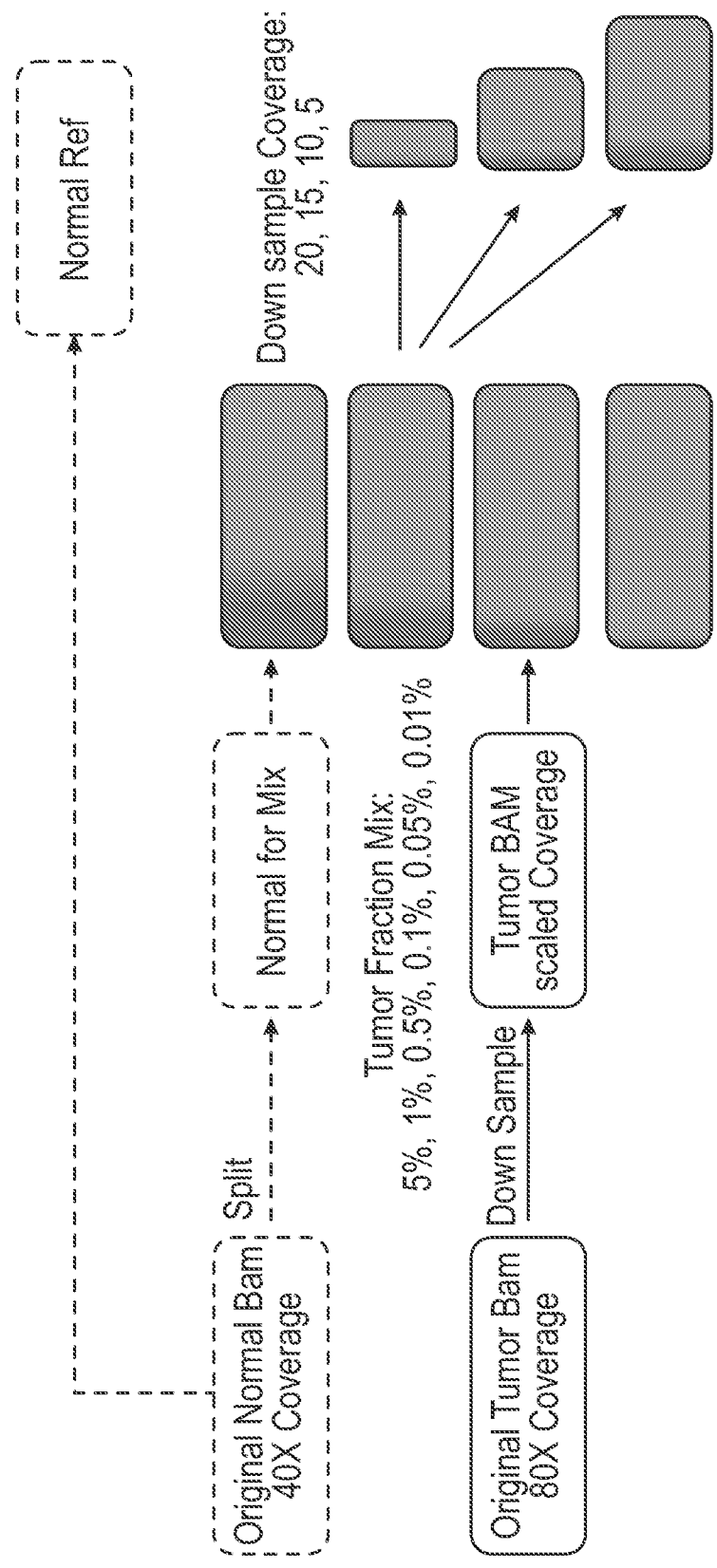
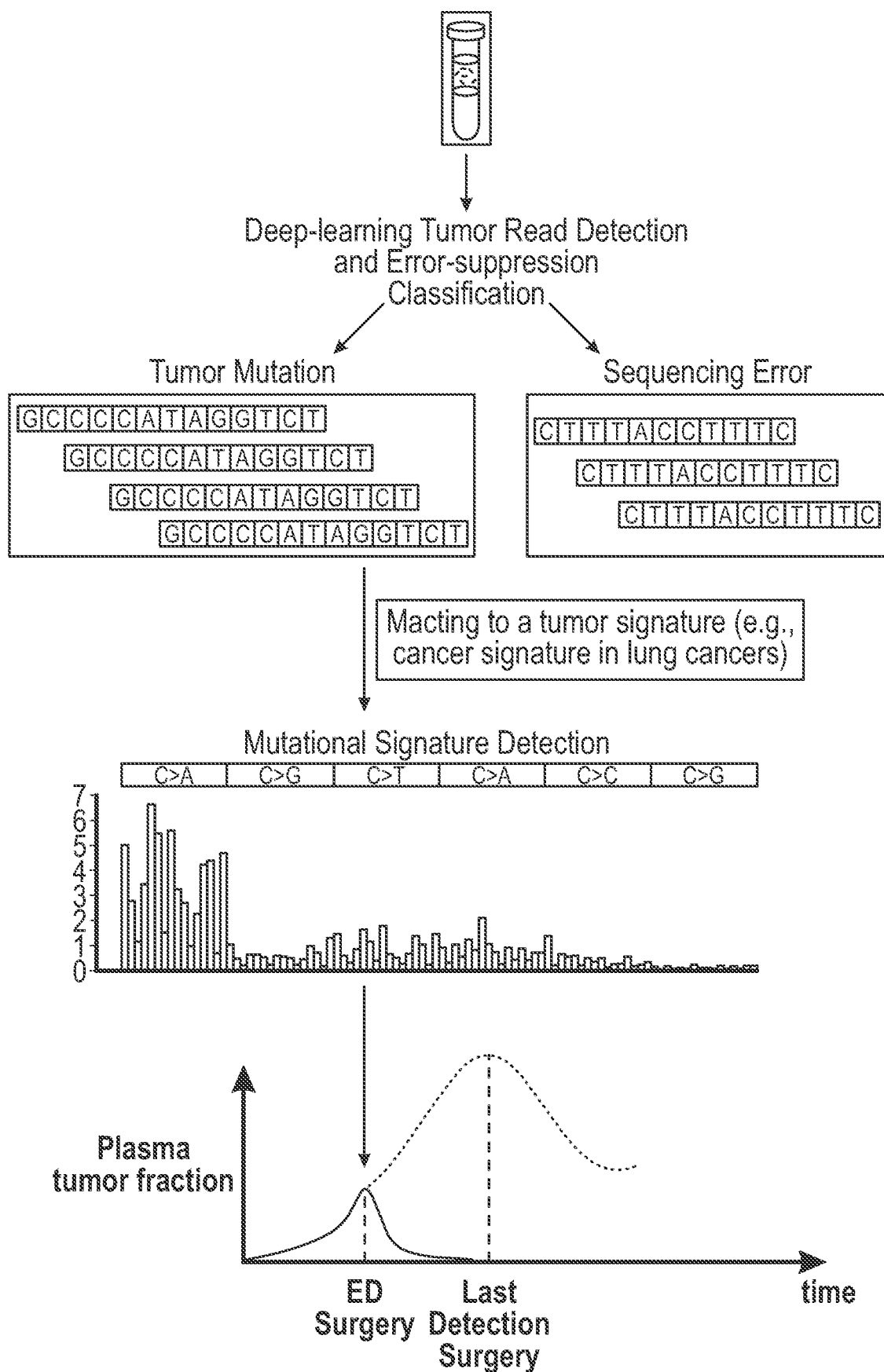


FIG. 1F



Bernoulli trail: $P = 1 - (1 - TF)^{\text{Unique Reads}}$ Genomic Equivalence

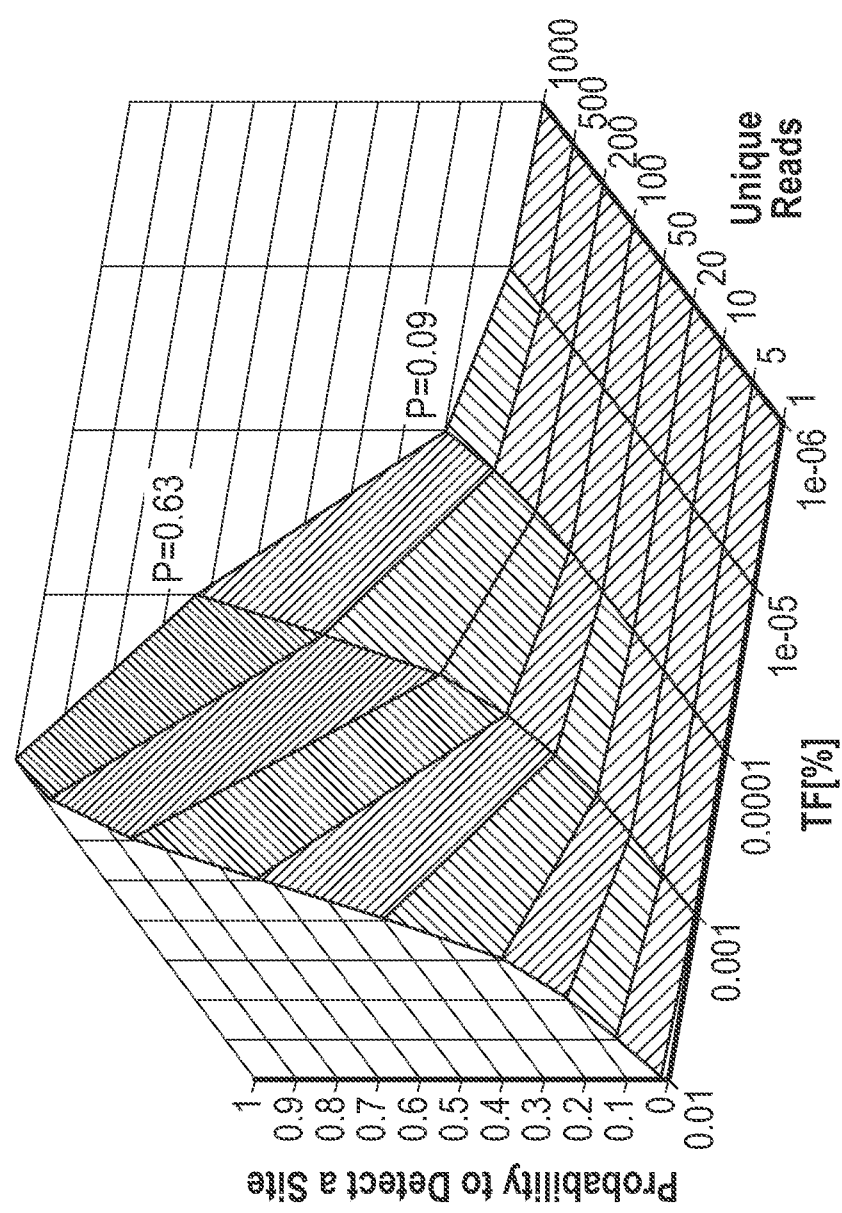


FIG. 3A

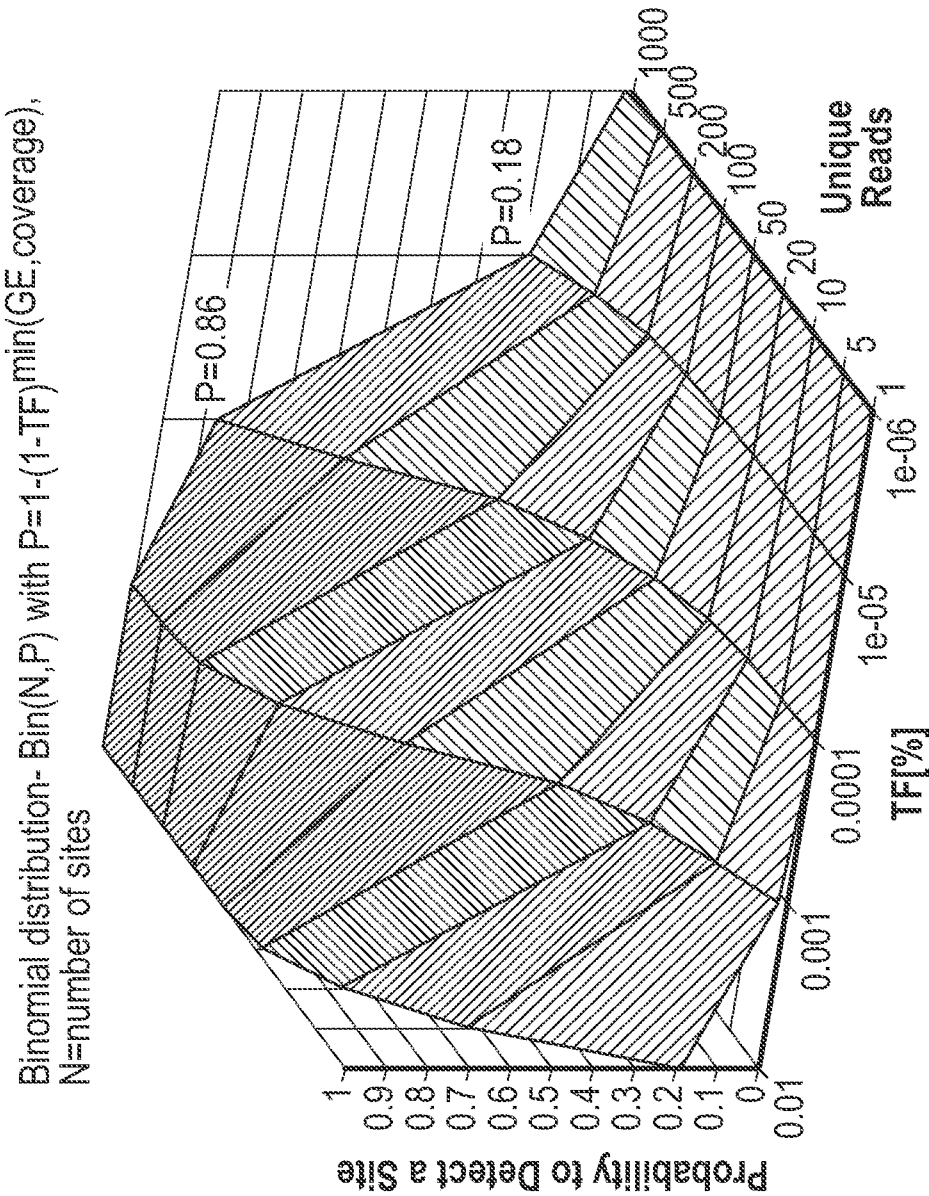


FIG. 3B

$\text{Bin}(N,P)$ with $z_p = 1 - (1 - \text{TF})^{\min(\text{GE}, \text{coverage})}$, $N = \text{number of sites}$

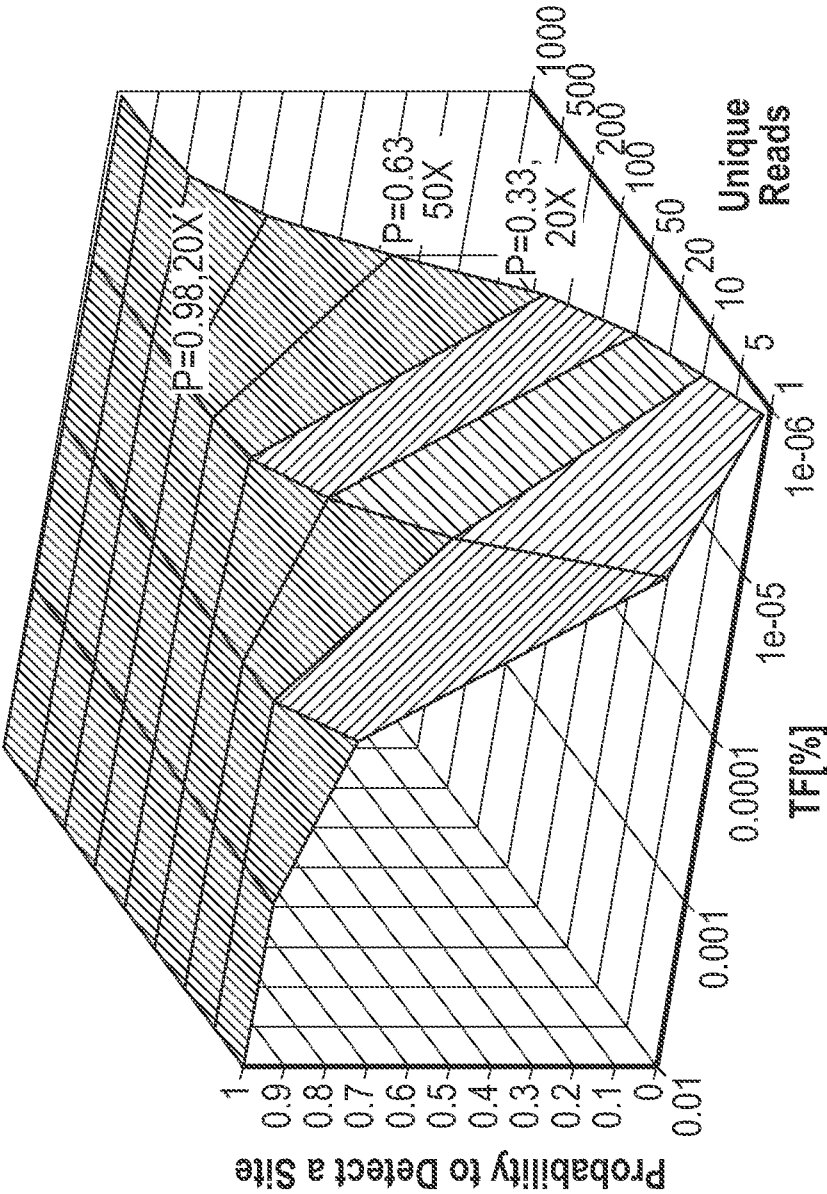


FIG. 3C

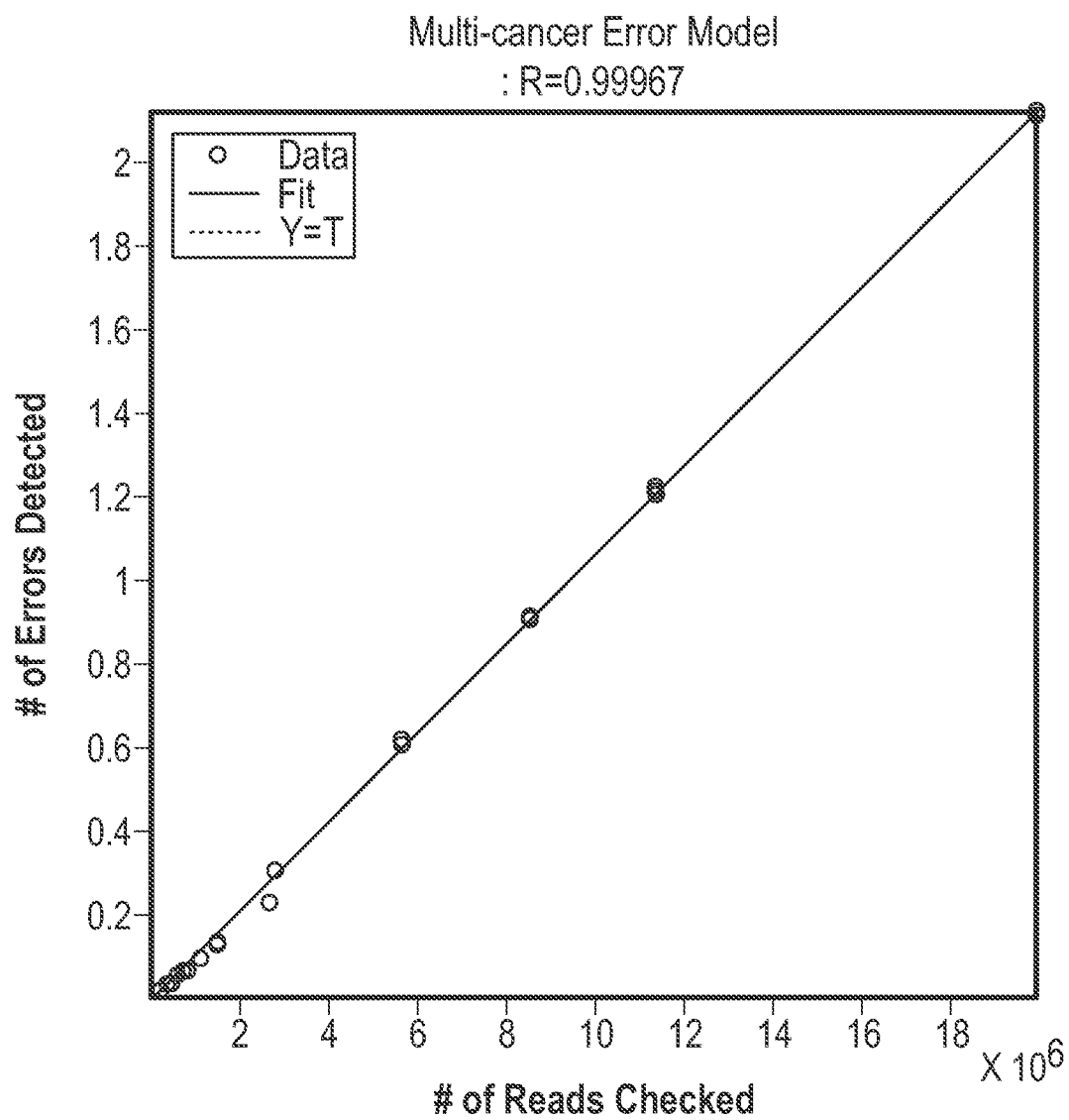


FIG. 4A

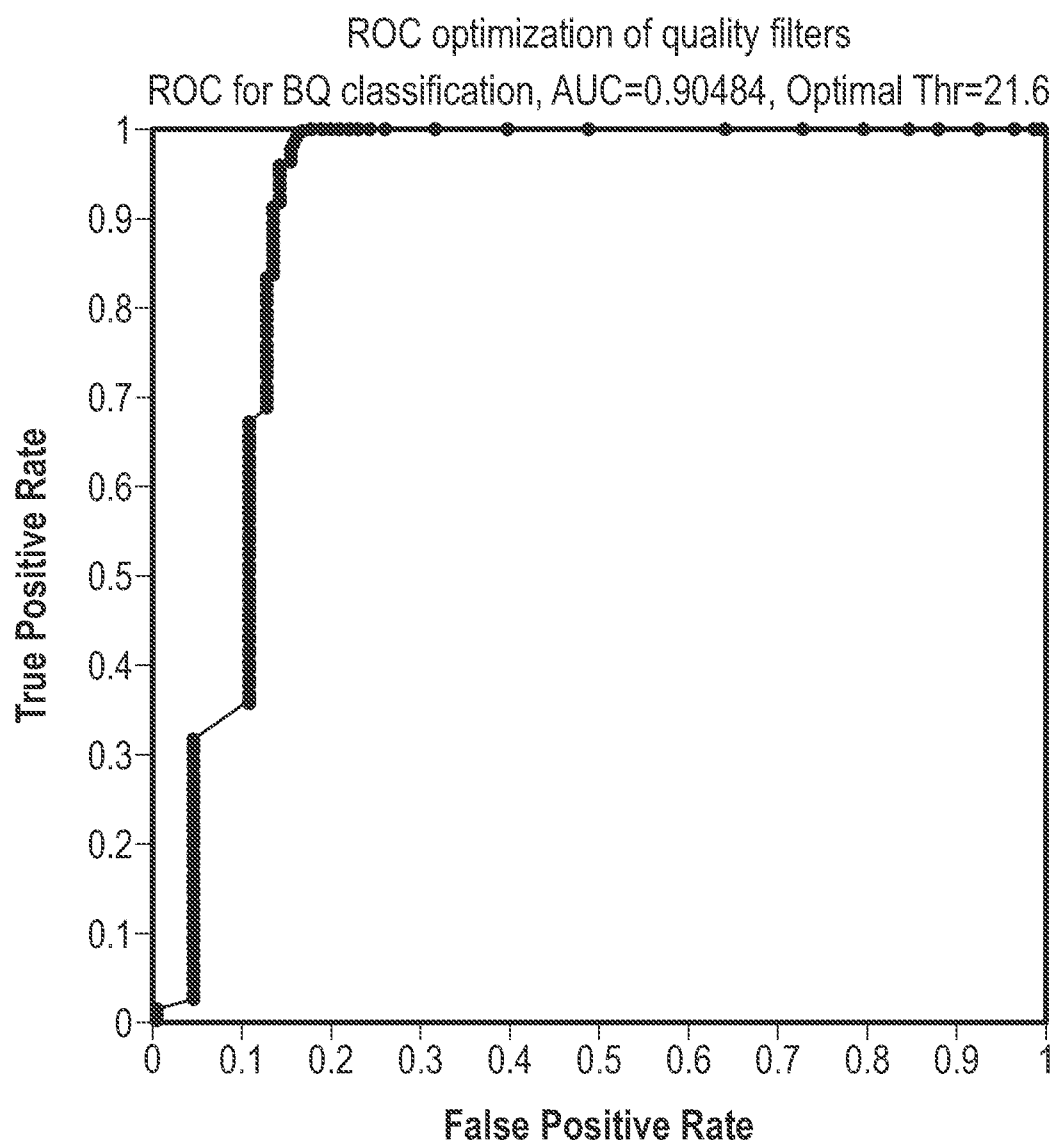


FIG. 4B

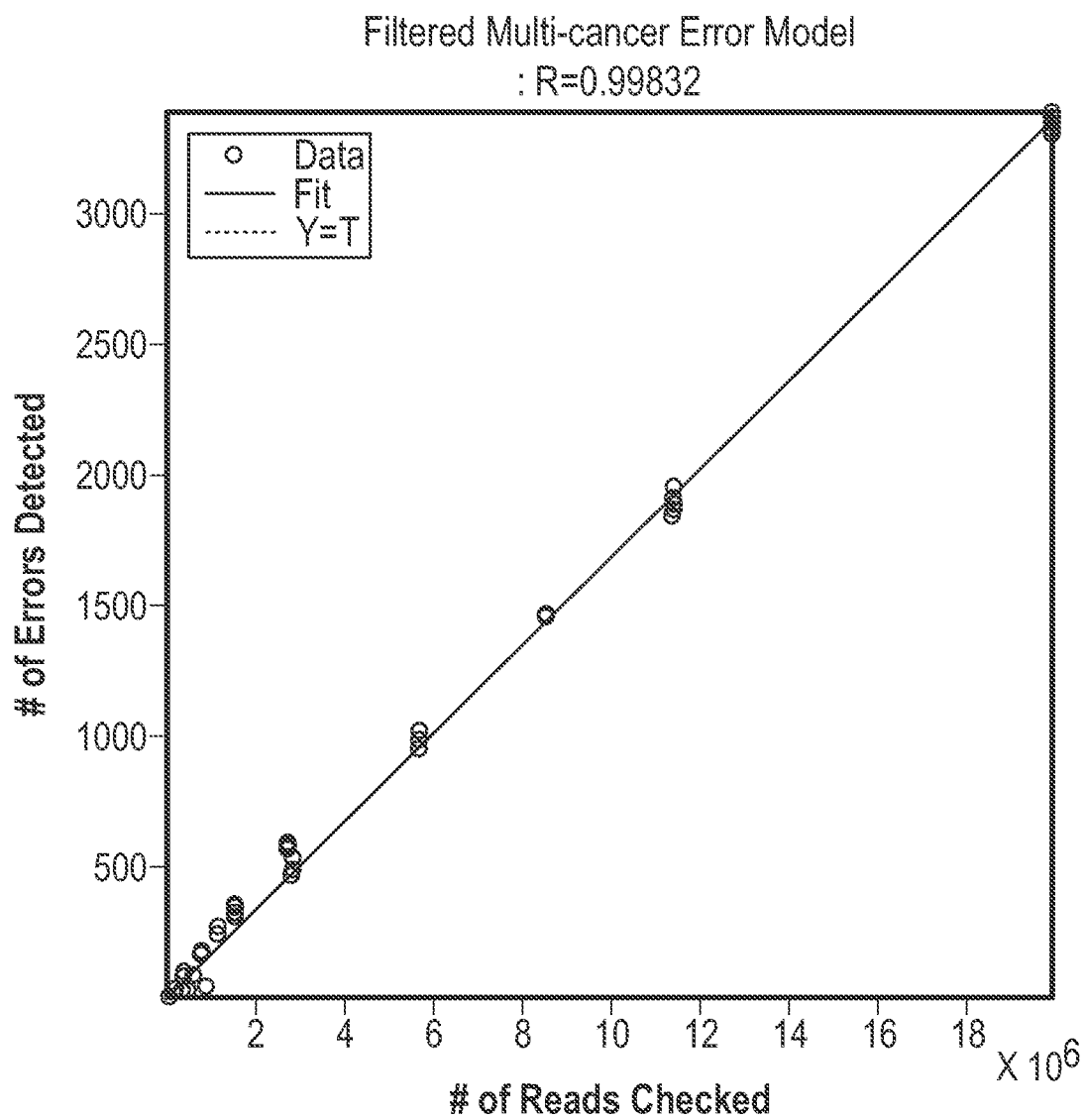


FIG. 4C

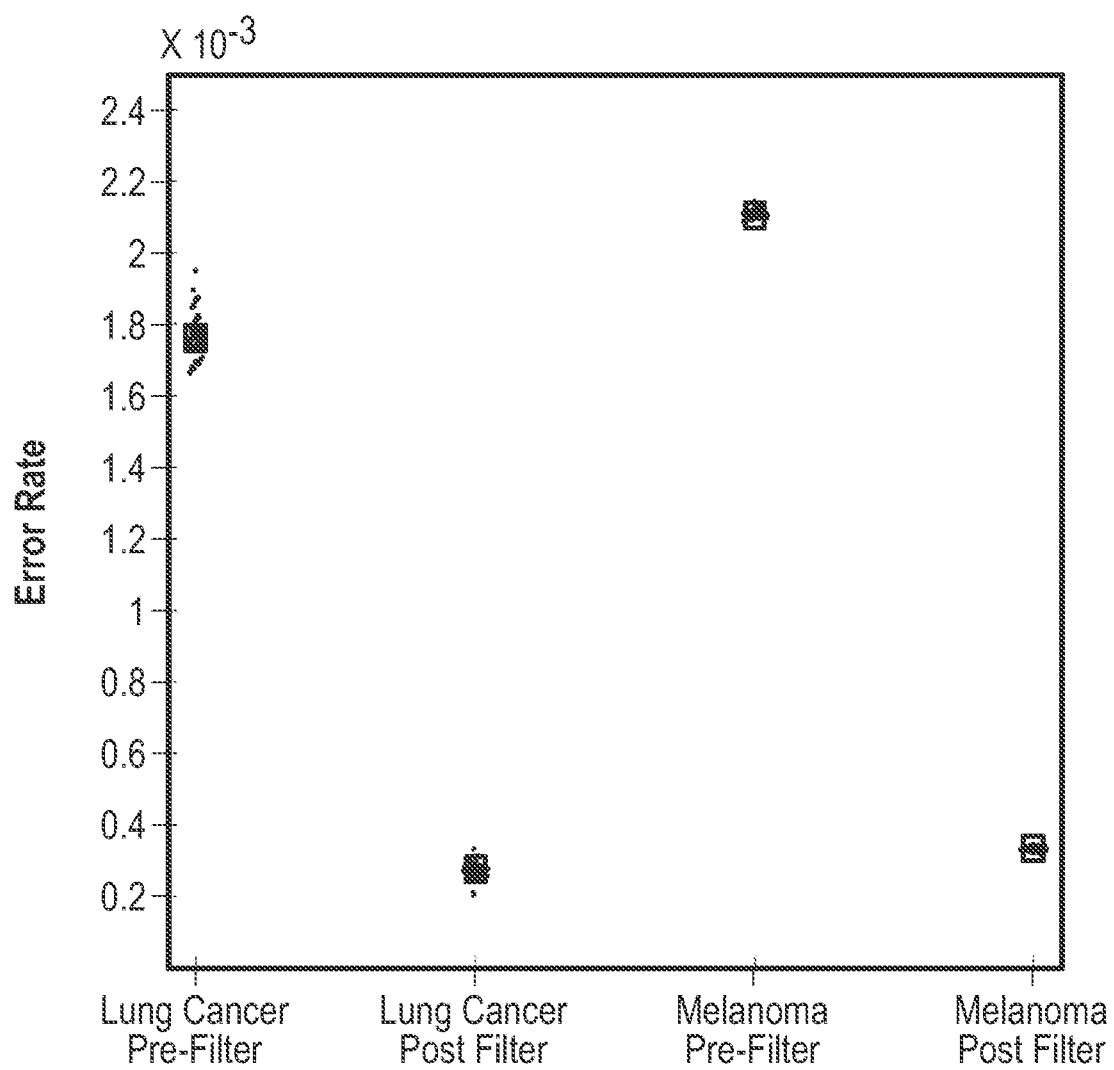


FIG. 4D

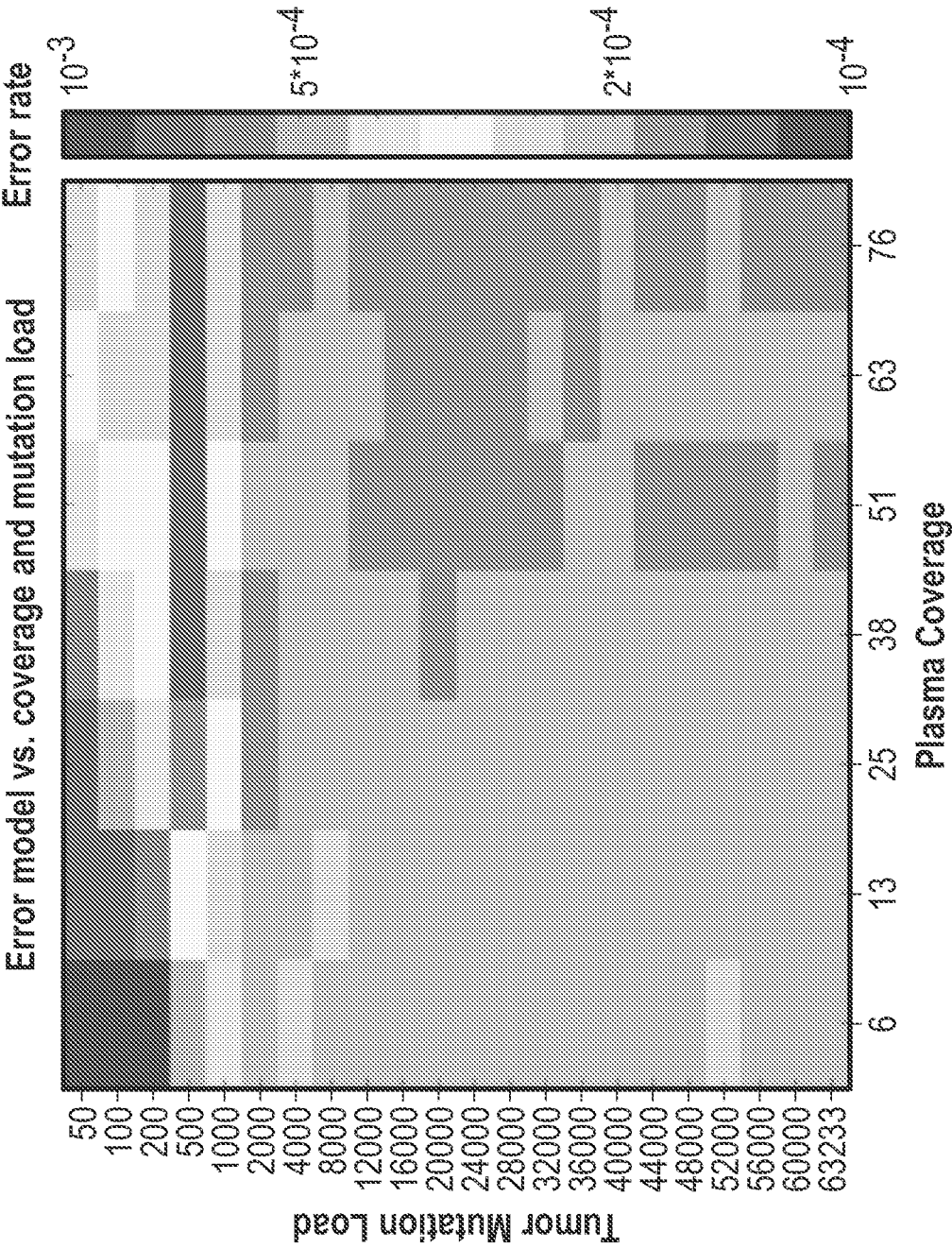


FIG. 4E

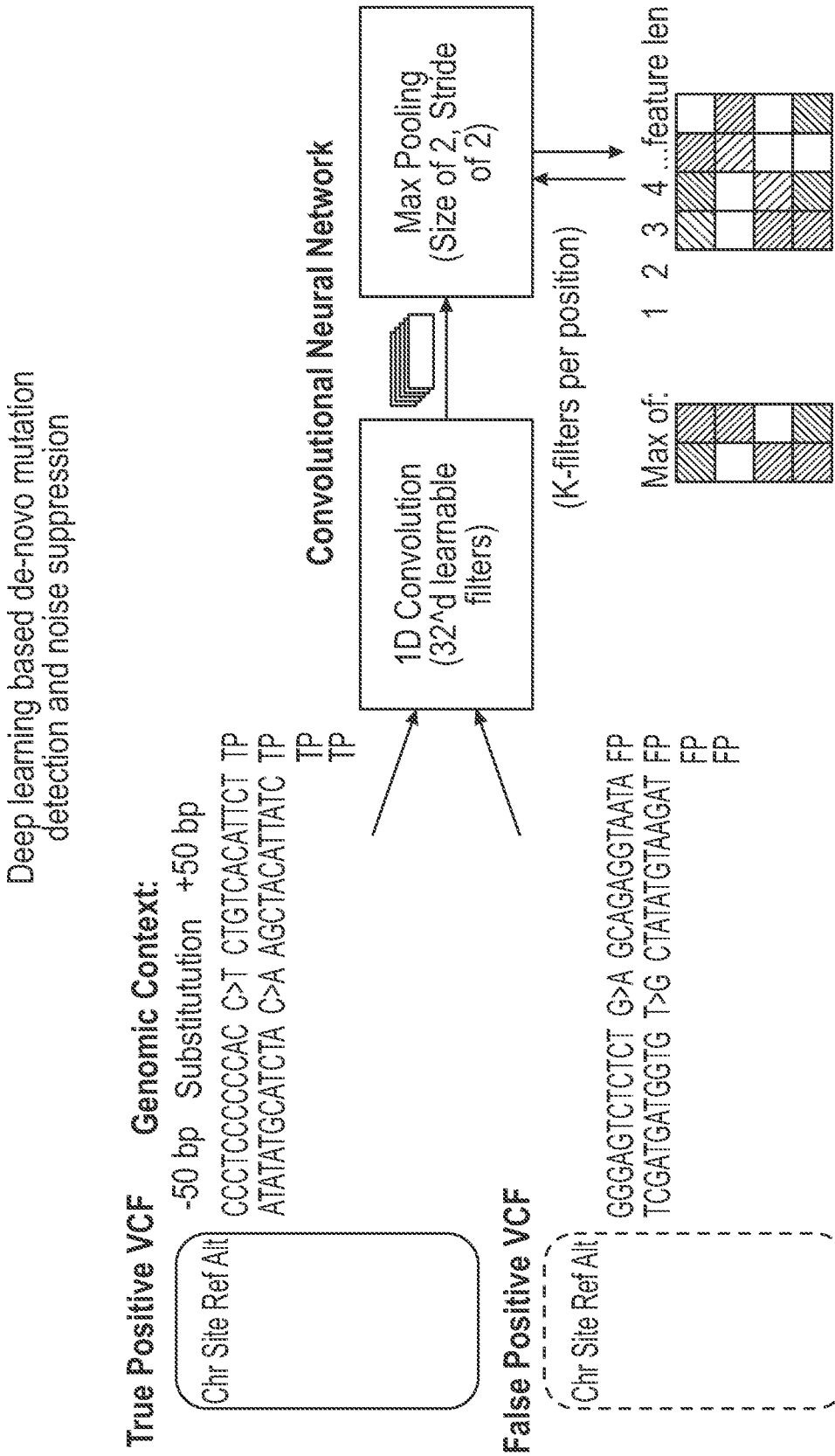


FIG. 5

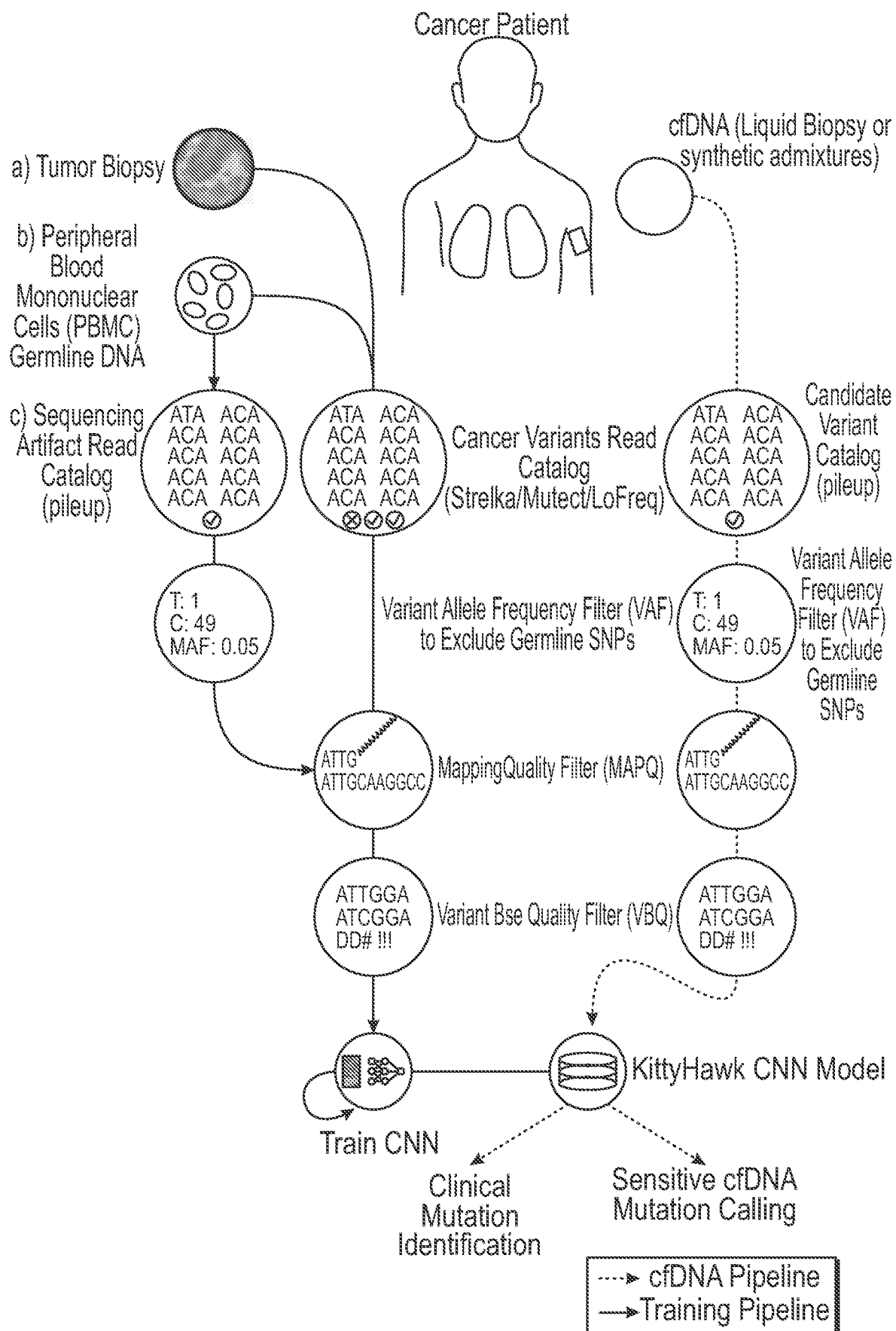
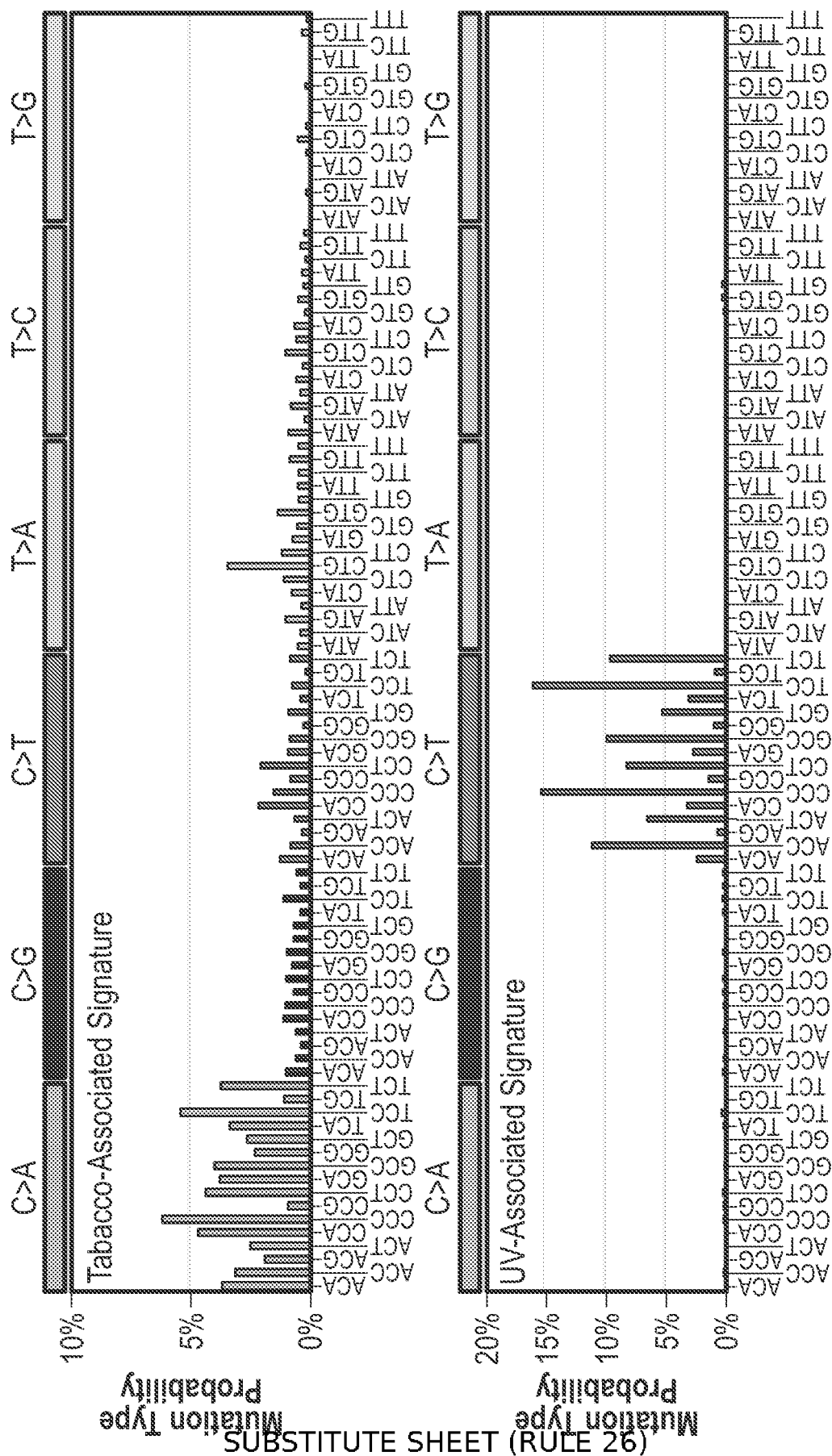
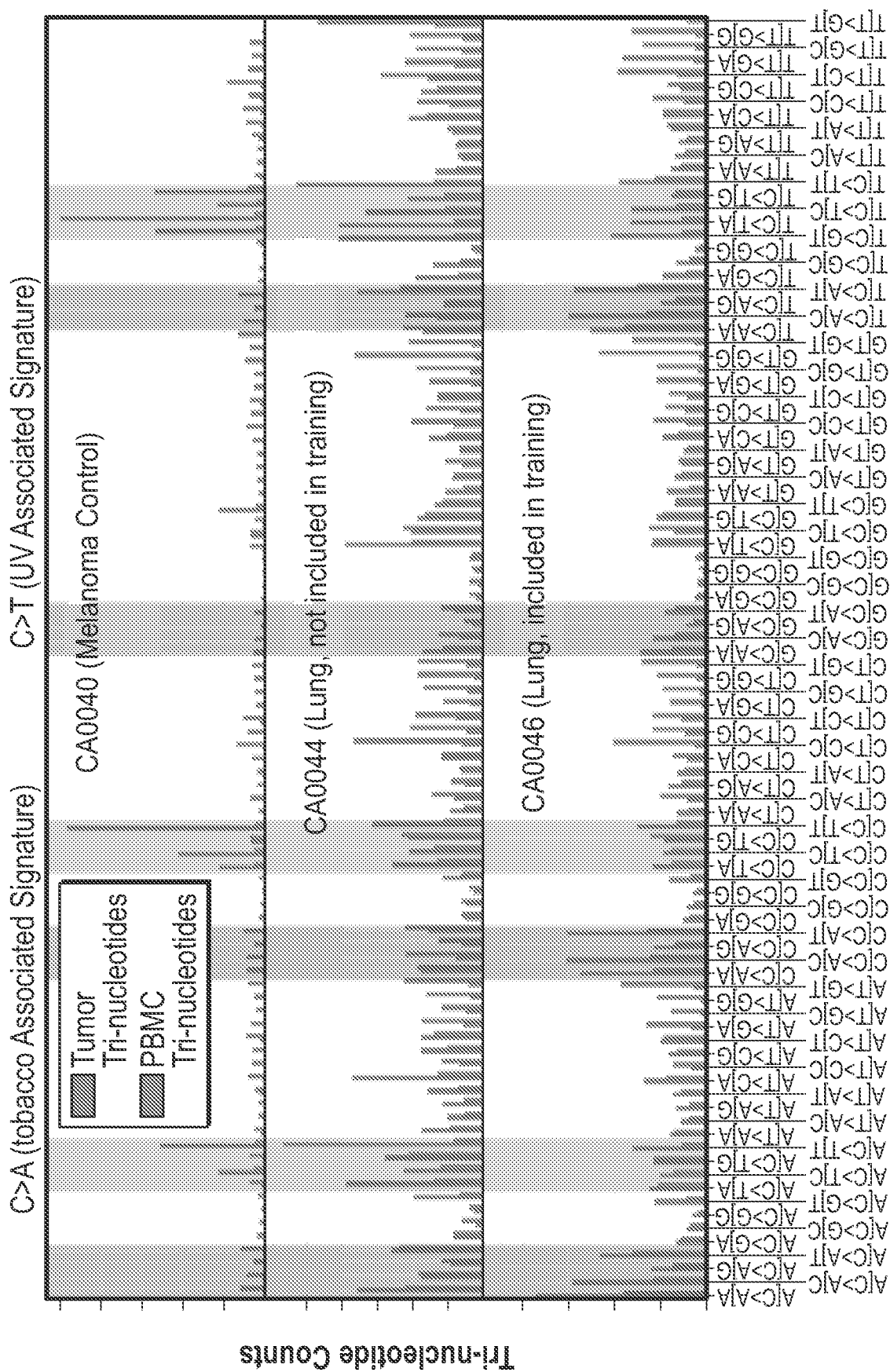


FIG. 7
SUBSTITUTE SHEET (RULE 26)





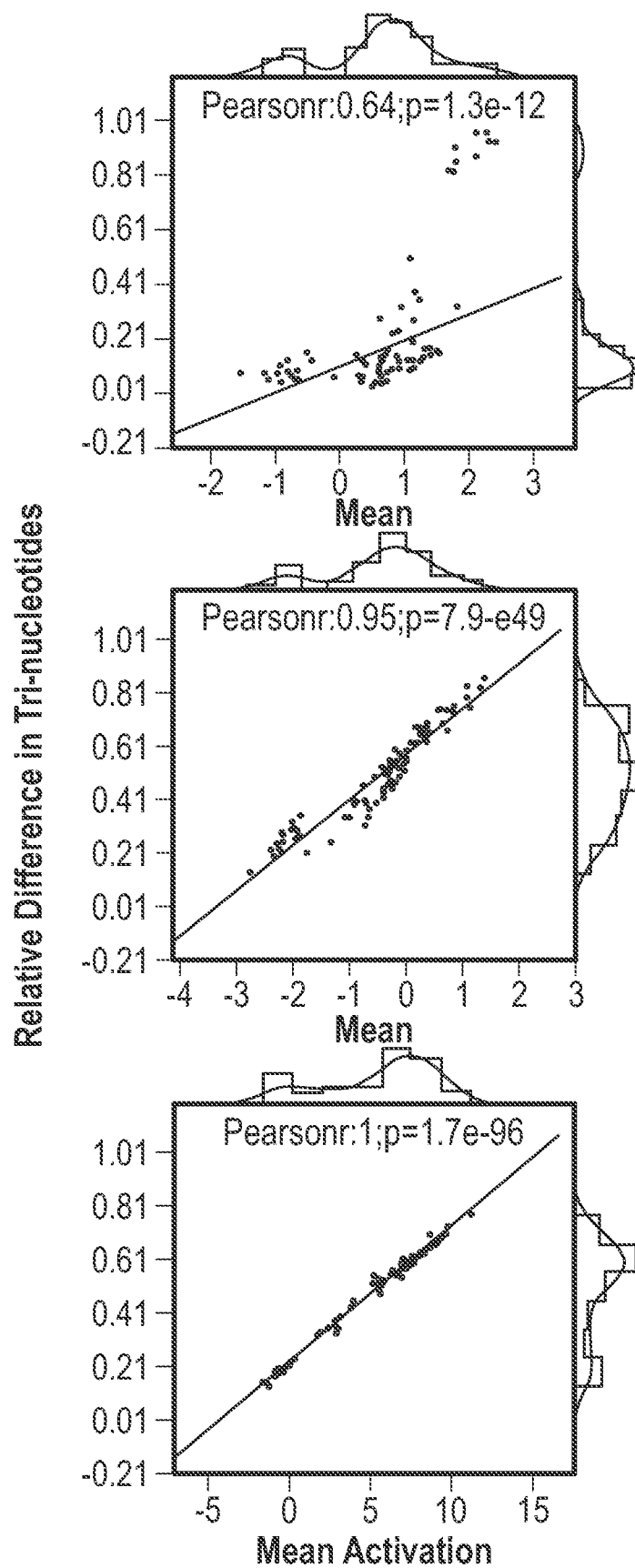


FIG. 8C
SUBSTITUTE SHEET (RULE 26)

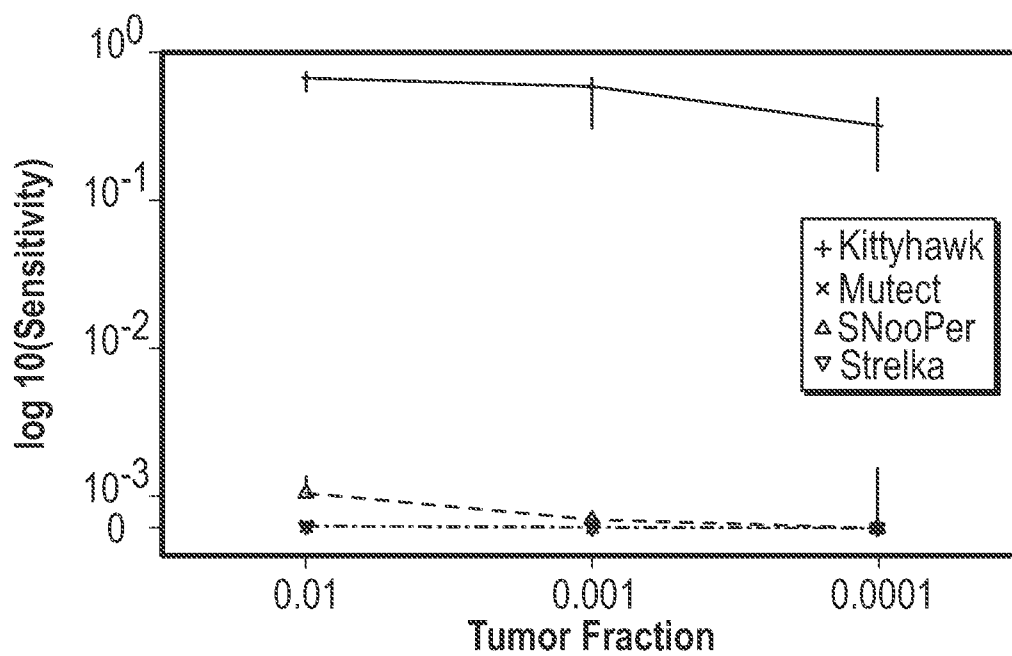


FIG. 9A

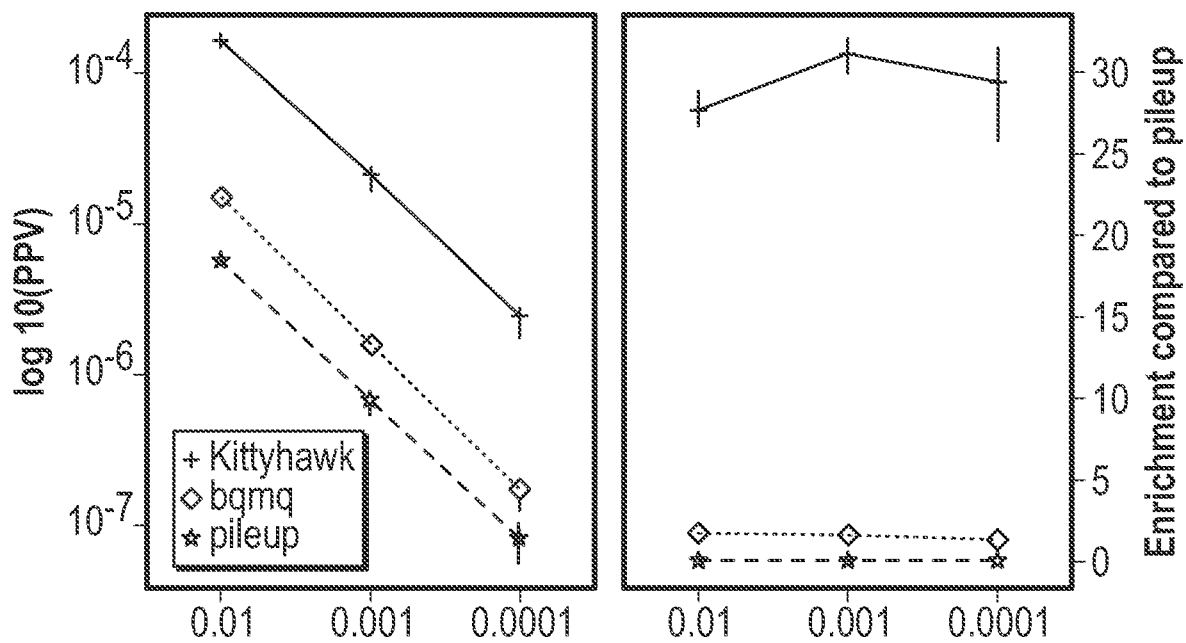


FIG. 9B

FIG. 9C

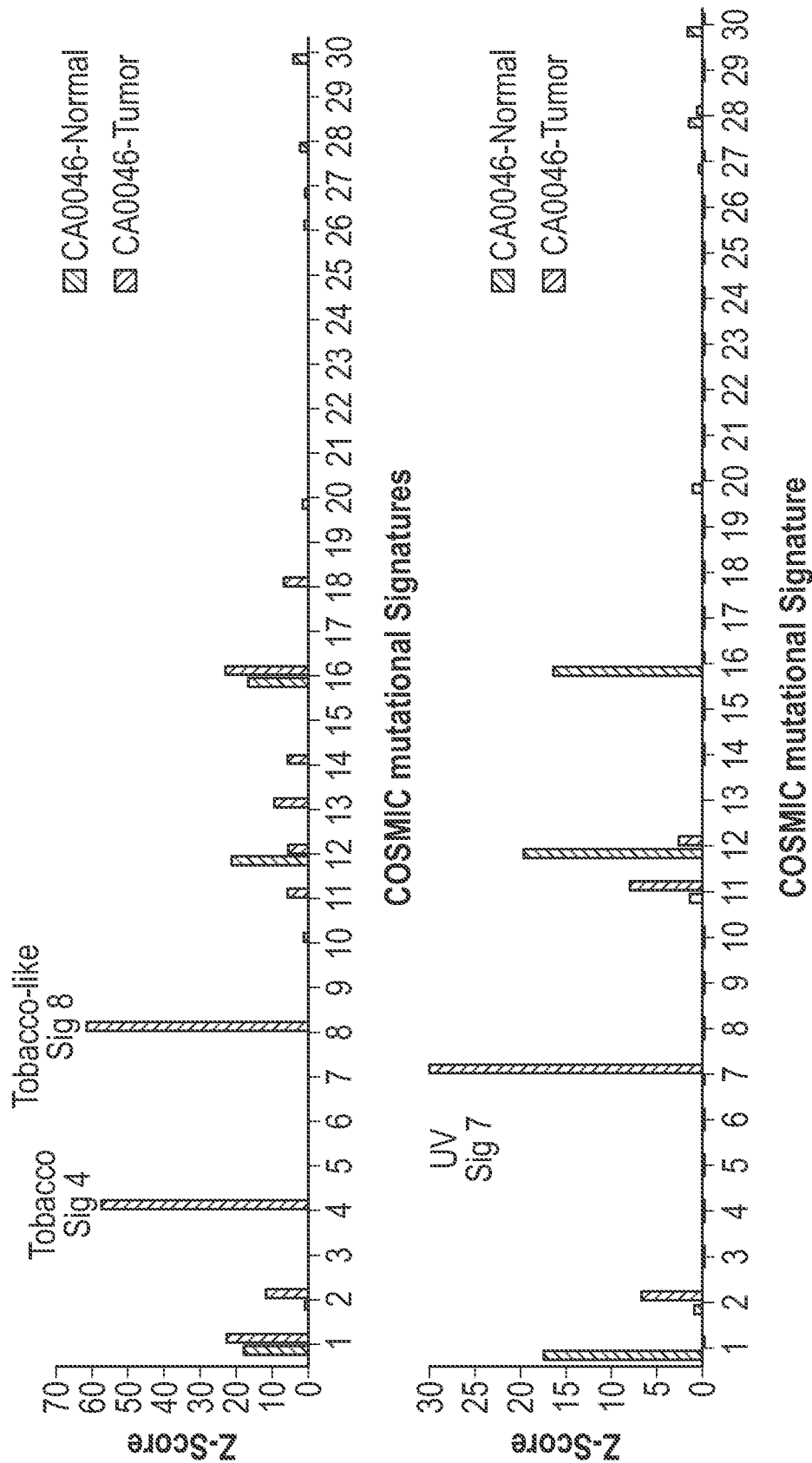


FIG. 12

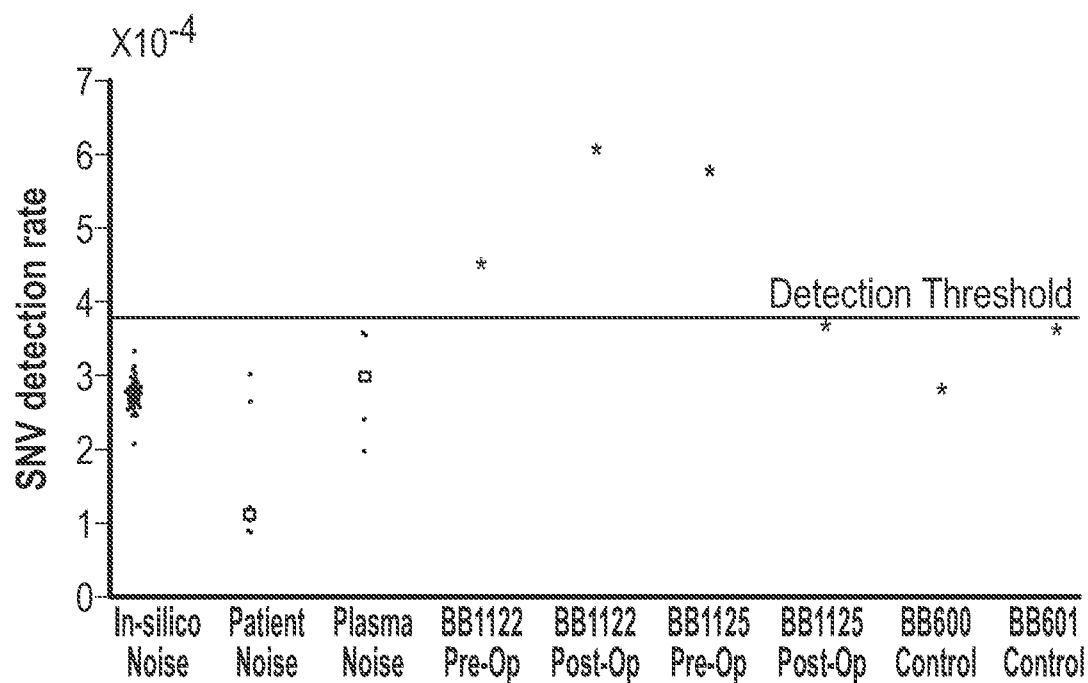


FIG. 10

Histology	Age	Sex	Ethnicity	Smoker	Cigarette Pack Years	Cancer Stage	Tumor Size (cm)	Comments	Days between blood samples
Adenocarcinoma	72	F	Unknown	Former	14	IA	2.6		11
Adenocarcinoma	69	M	White	Former	38	IIA	2.1		22
Adenocarcinoma	87	F	Unknown	Former	15	IIIA	4.4		10
Adenocarcinoma	79	M	White	Former	30	IIA	2.3		16
Adenocarcinoma	73	F		Never	0	IA	3		90
Benign process	75	M	Unknown	Current	50	NA	NA	COPD	
Benign process	70	F	Unknown	Former	20	NA	NA	Bronchiectasis	
Benign process	64	M	Unknown	Former	30	NA	NA	ILD.	

FIG. 11

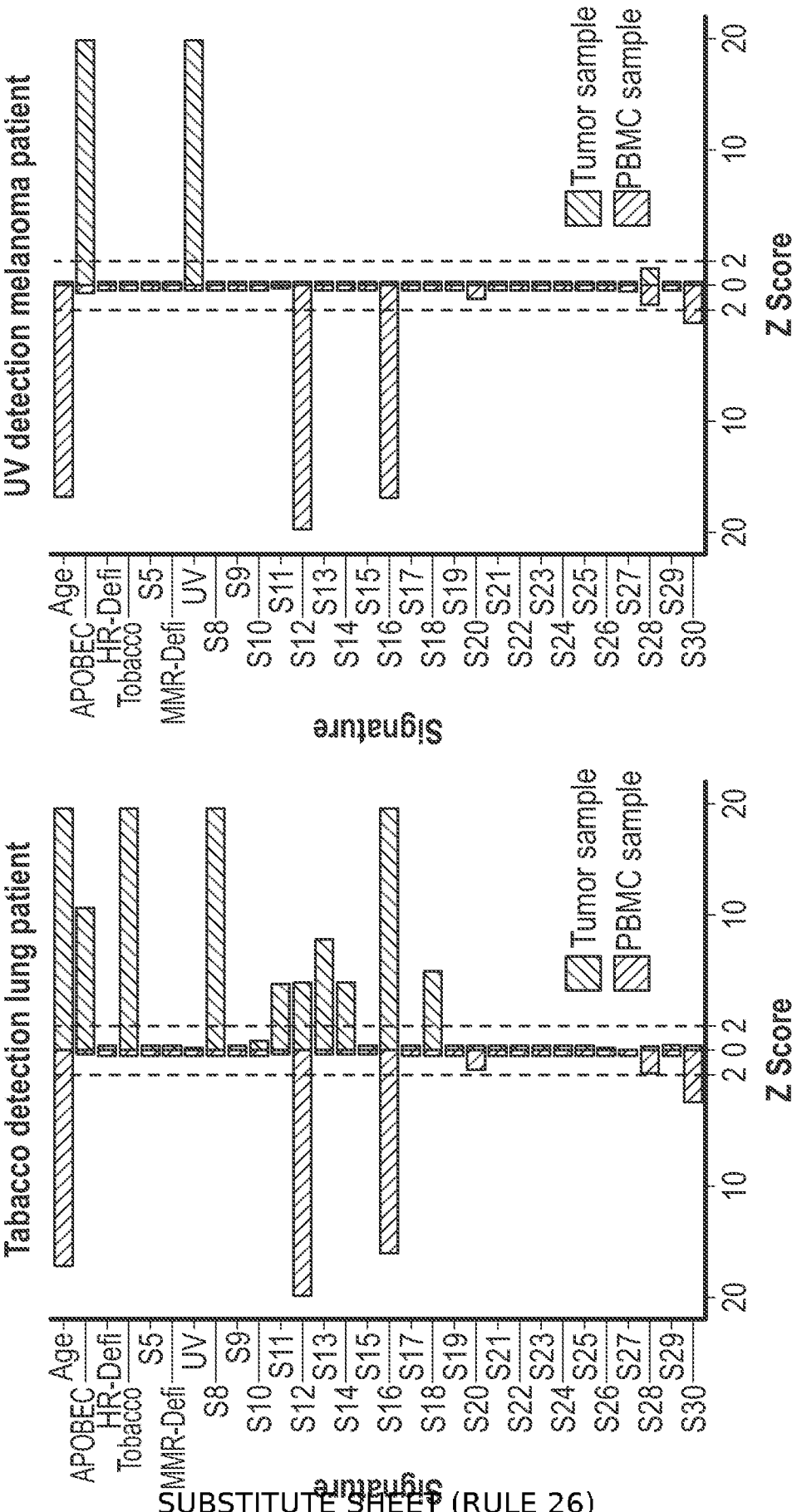


FIG. 12B

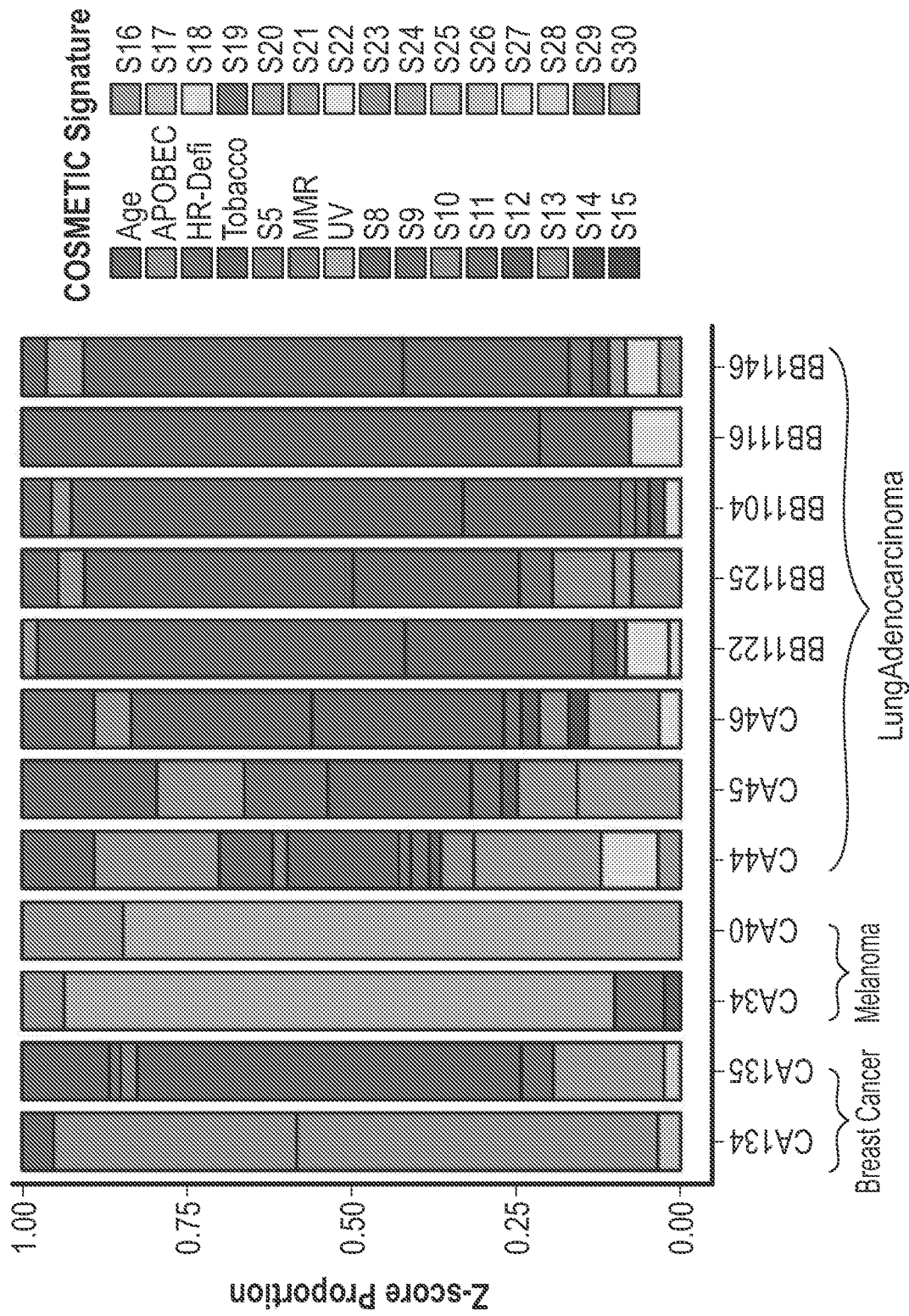


FIG. 12C

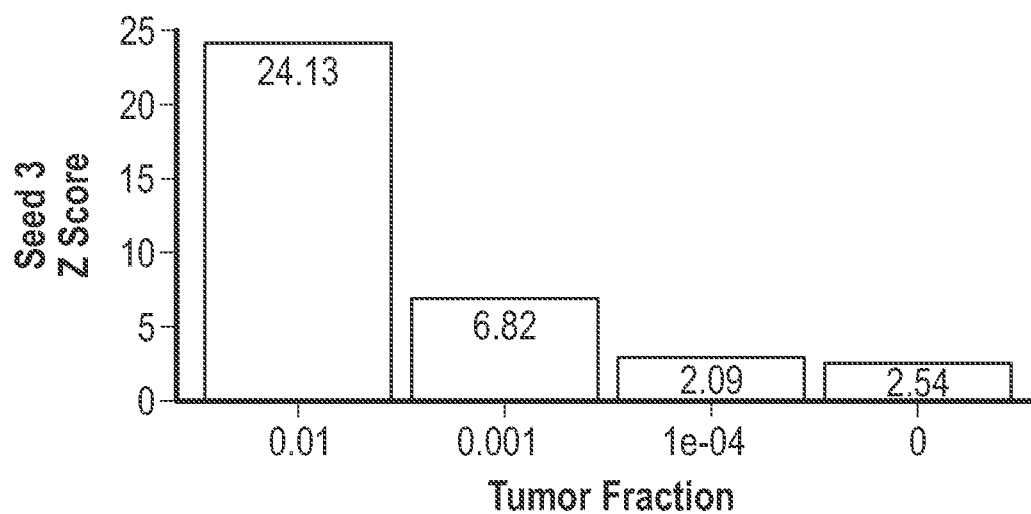


FIG. 13A

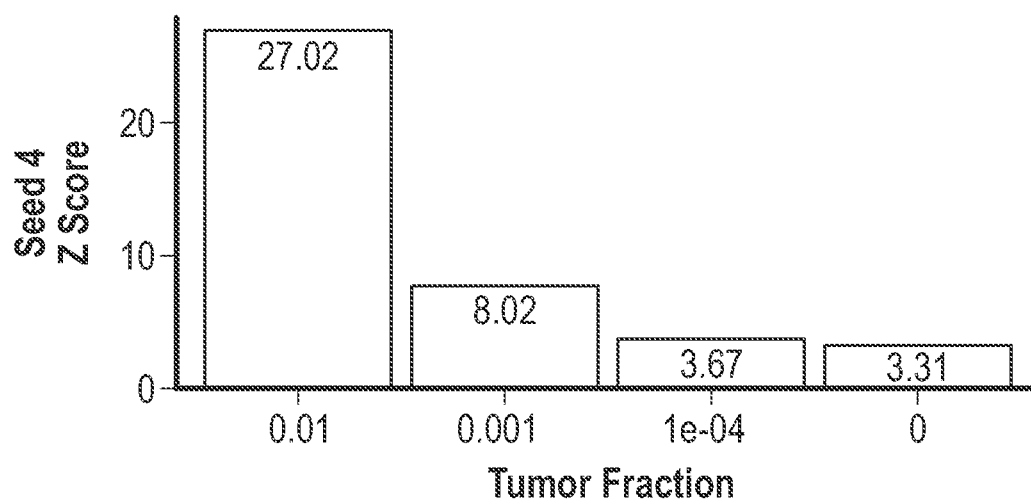


FIG. 13B

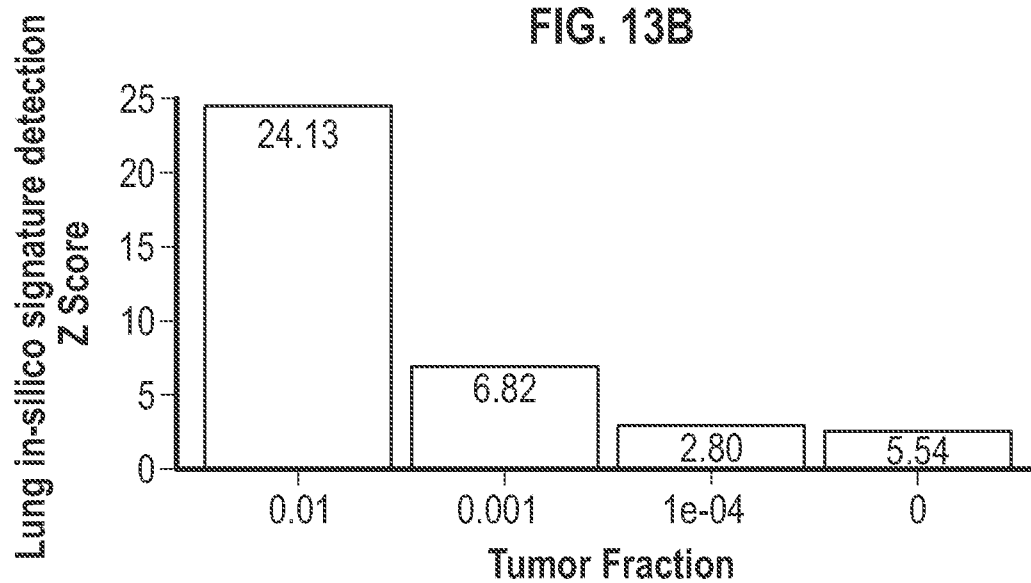


FIG. 13C

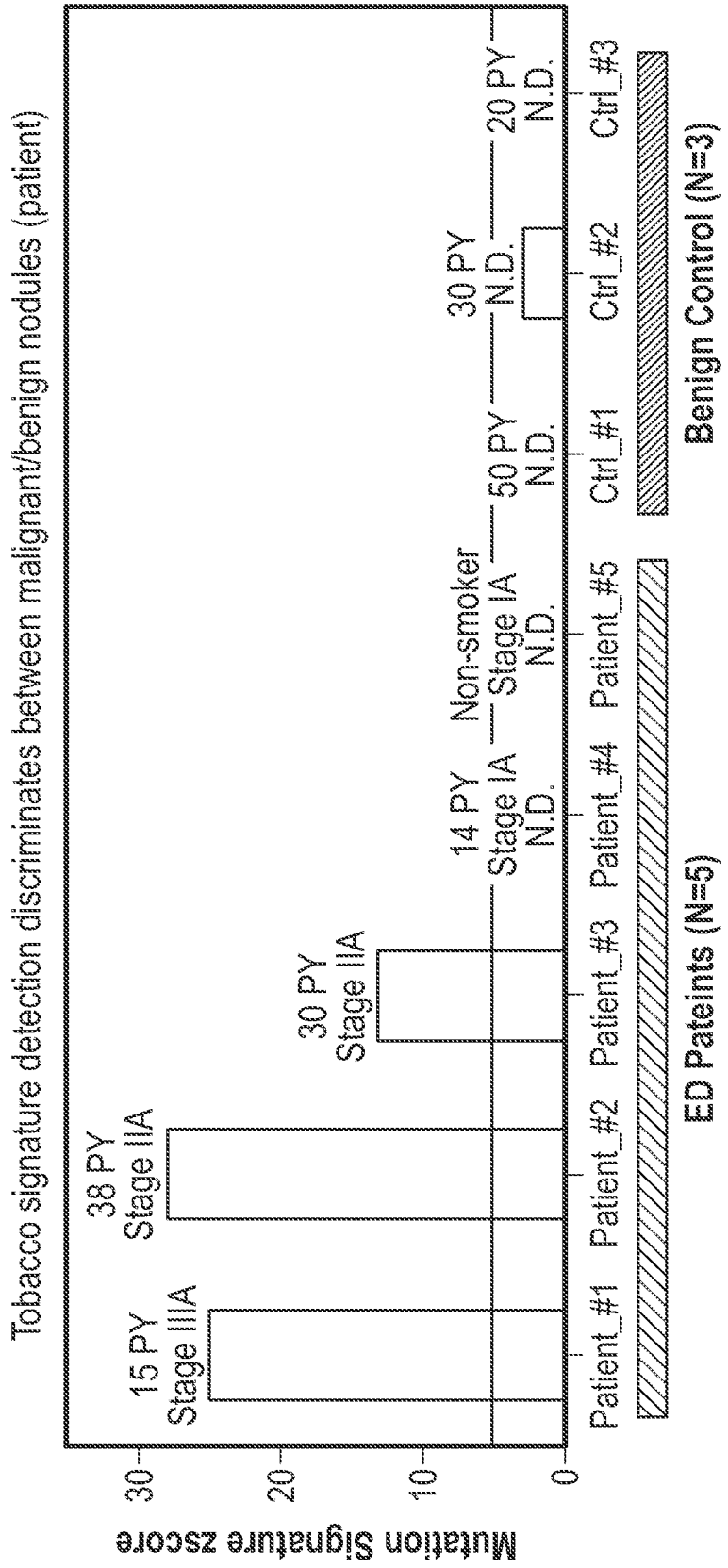


FIG. 14

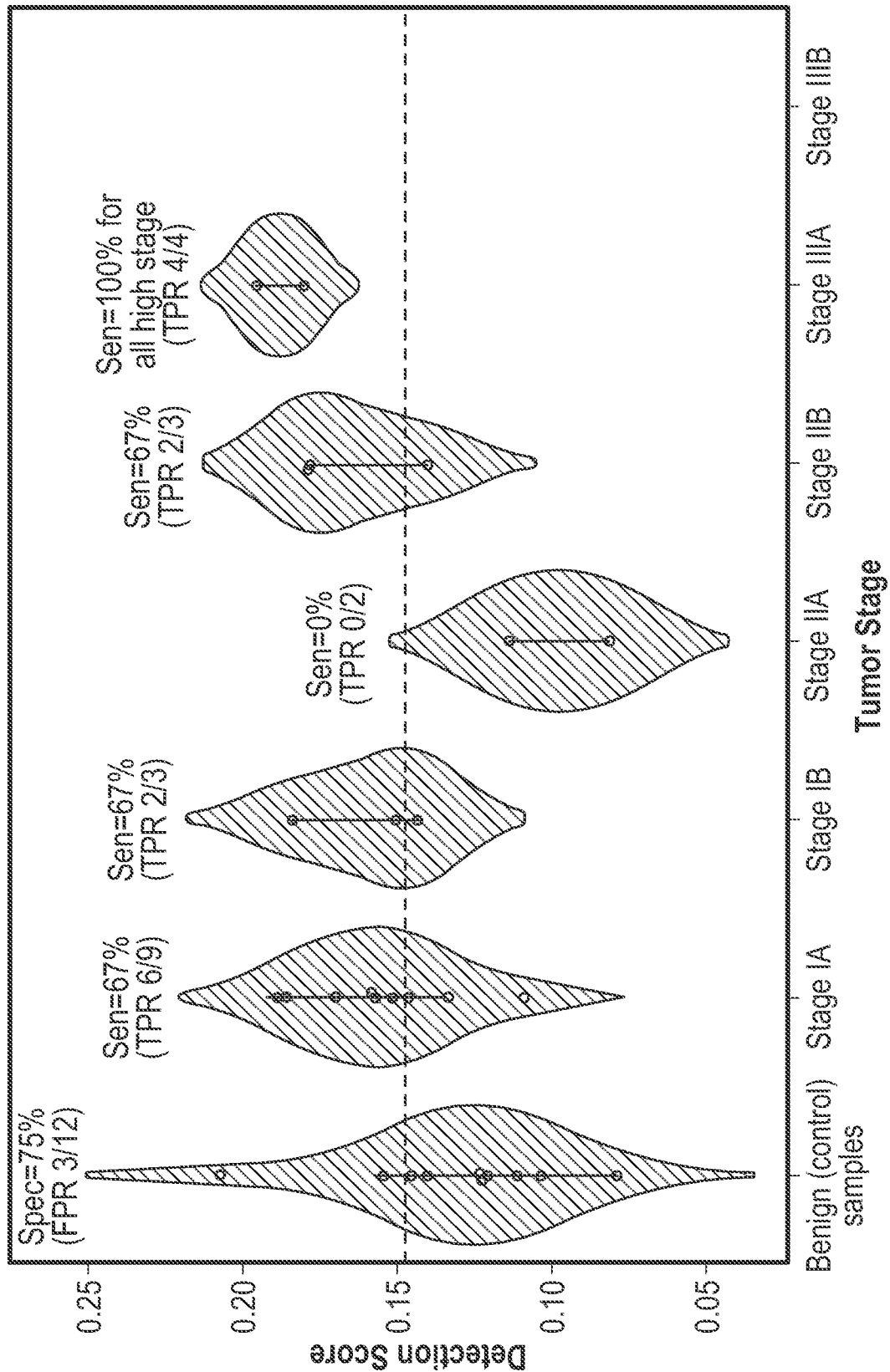


FIG. 14B

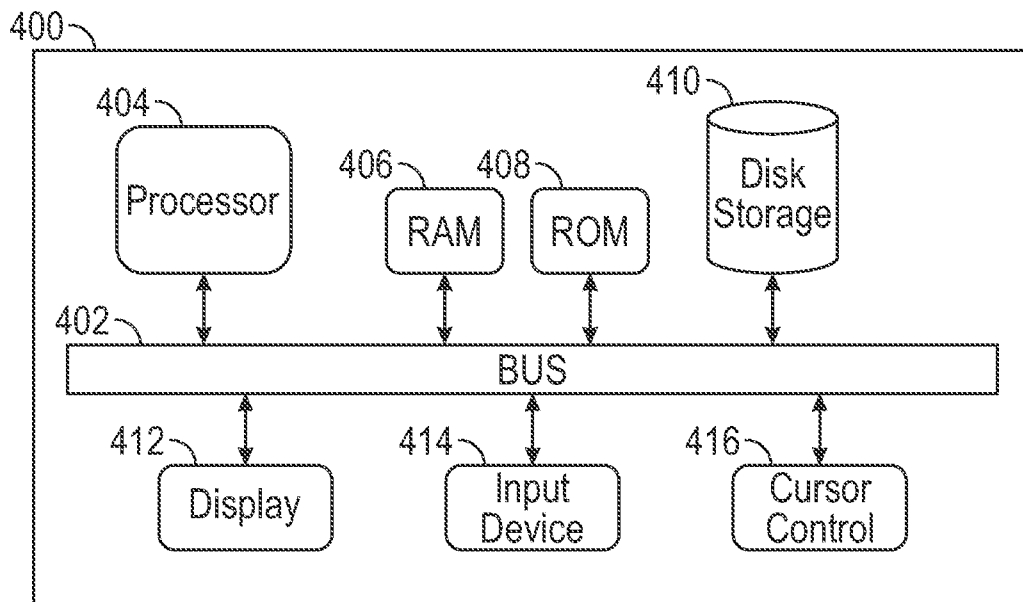


FIG. 15

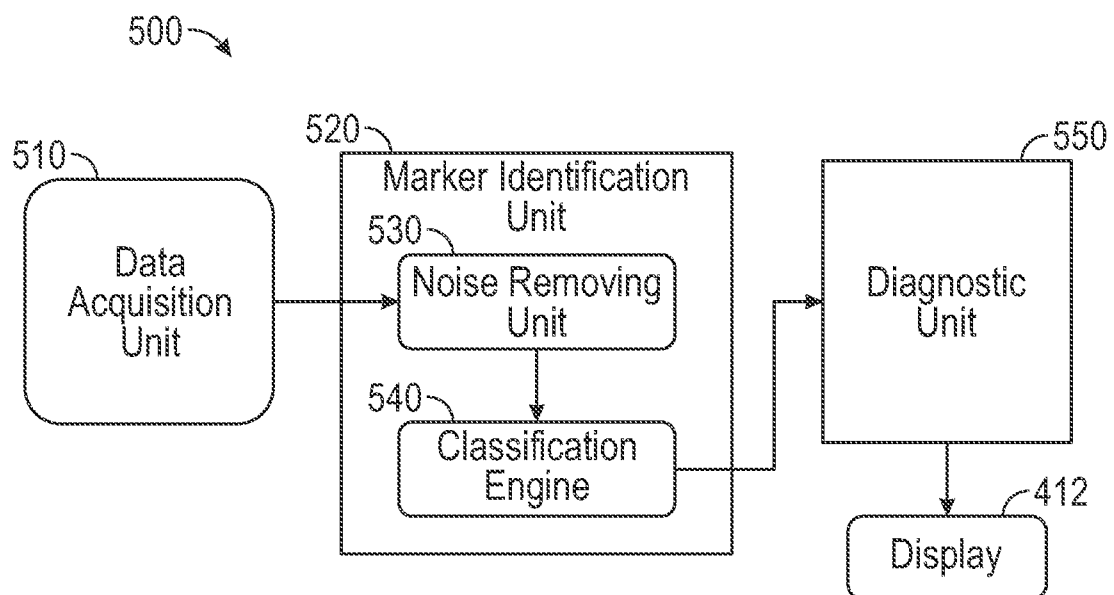


FIG. 16A

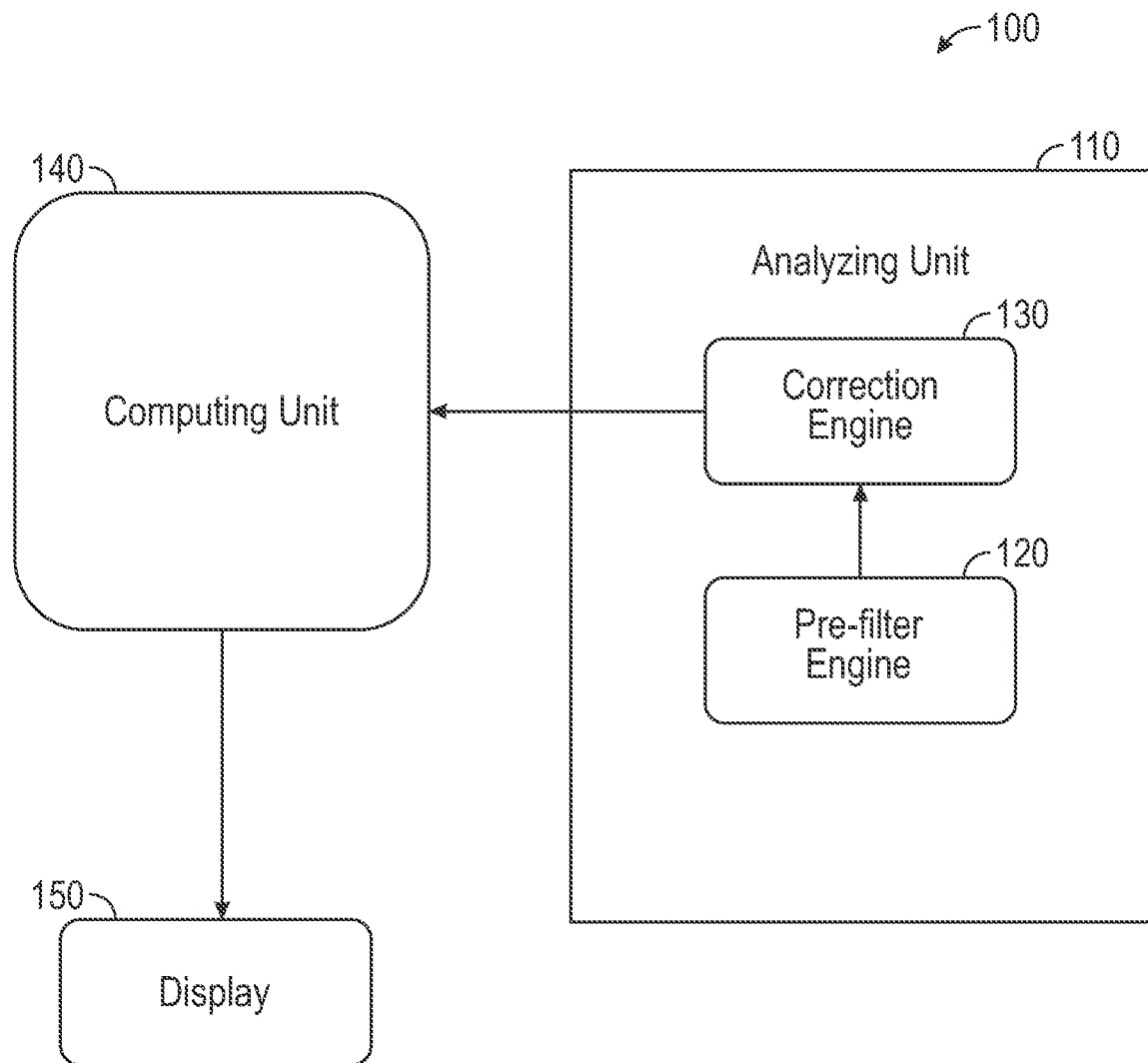


FIG. 16B

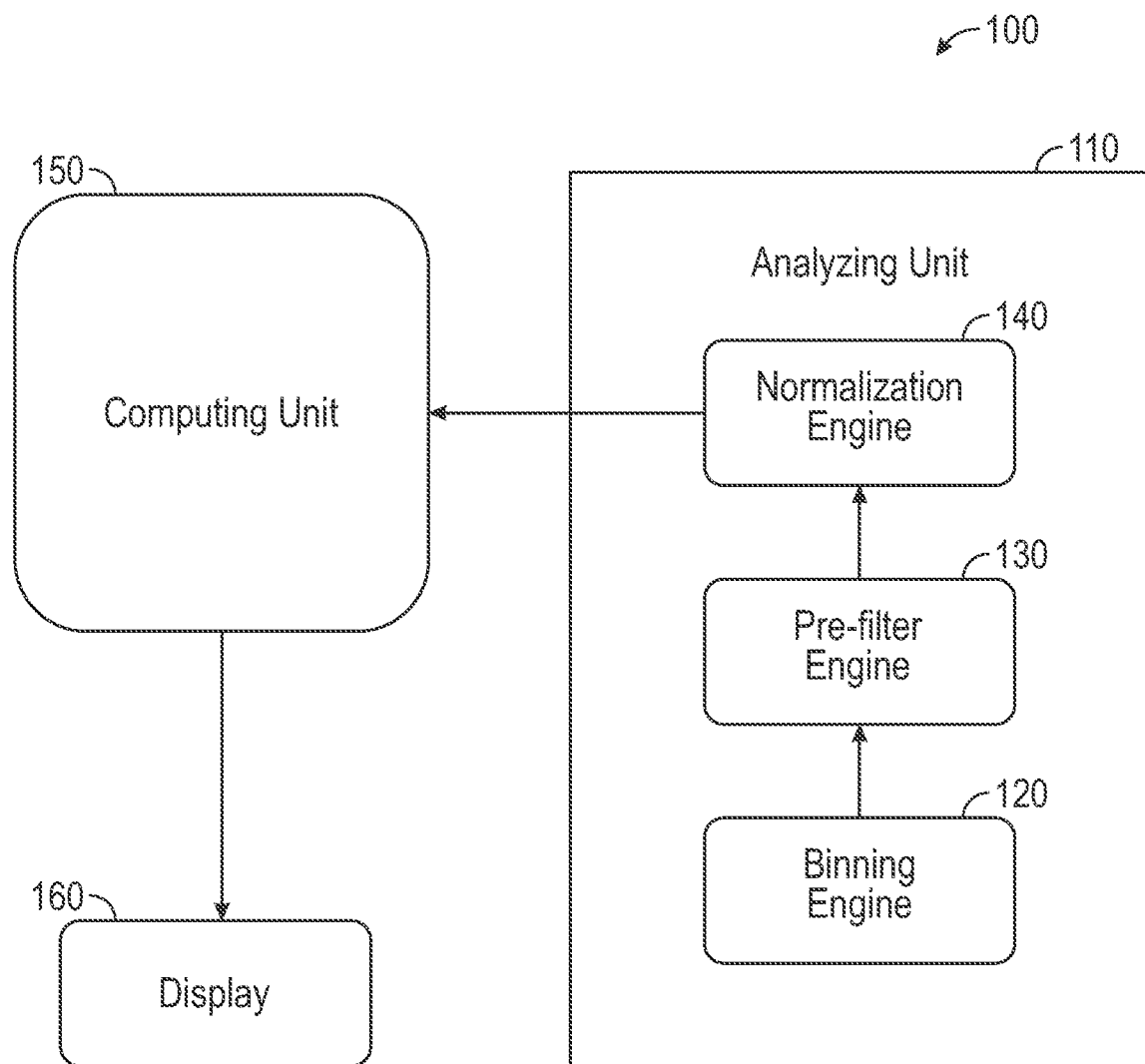
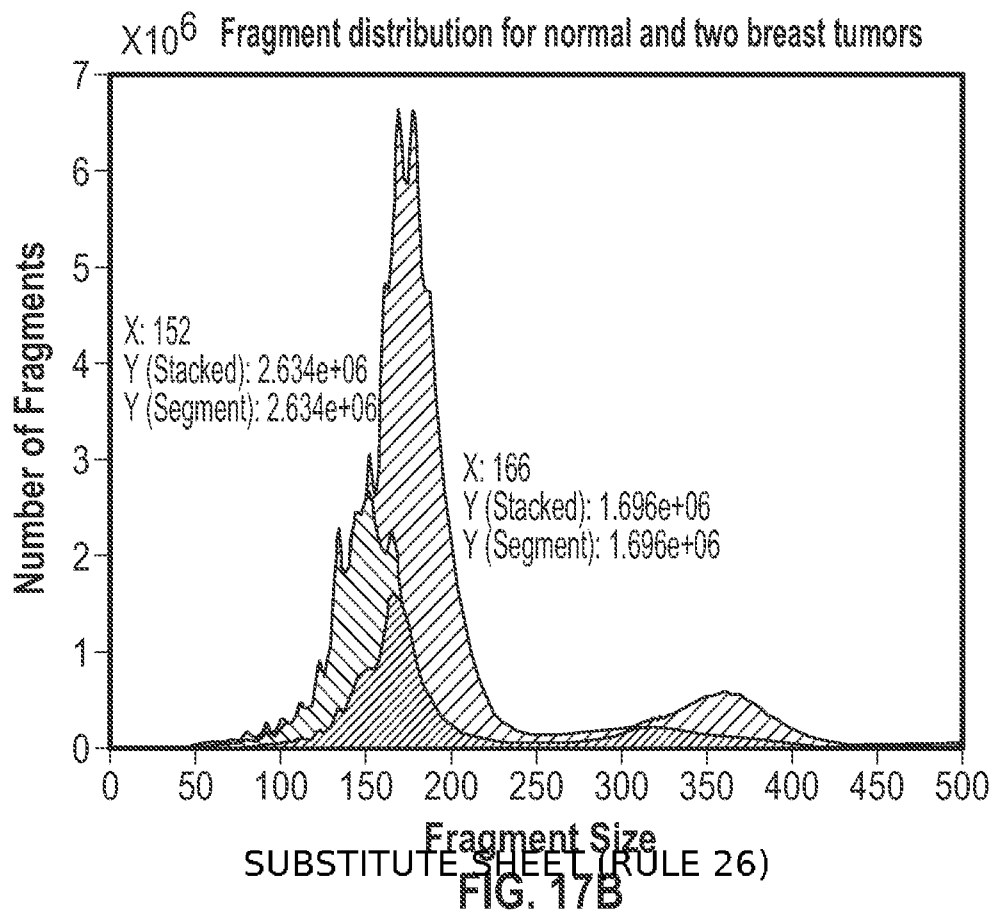
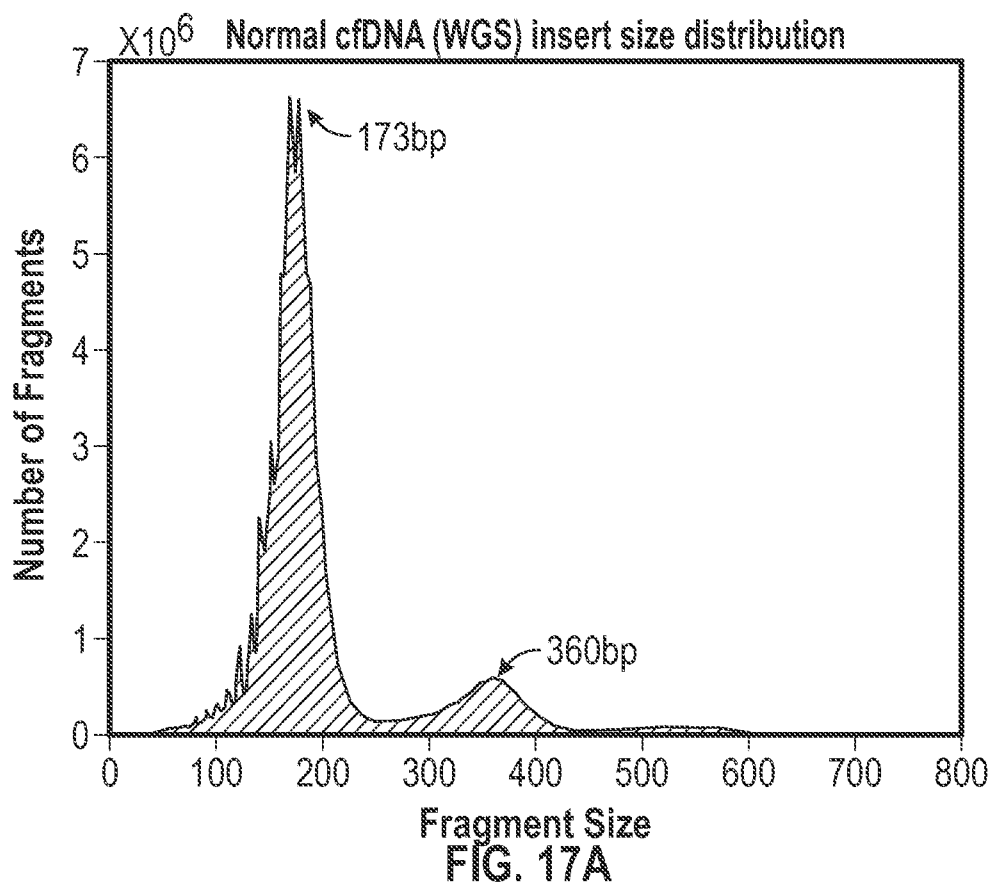


FIG. 16C



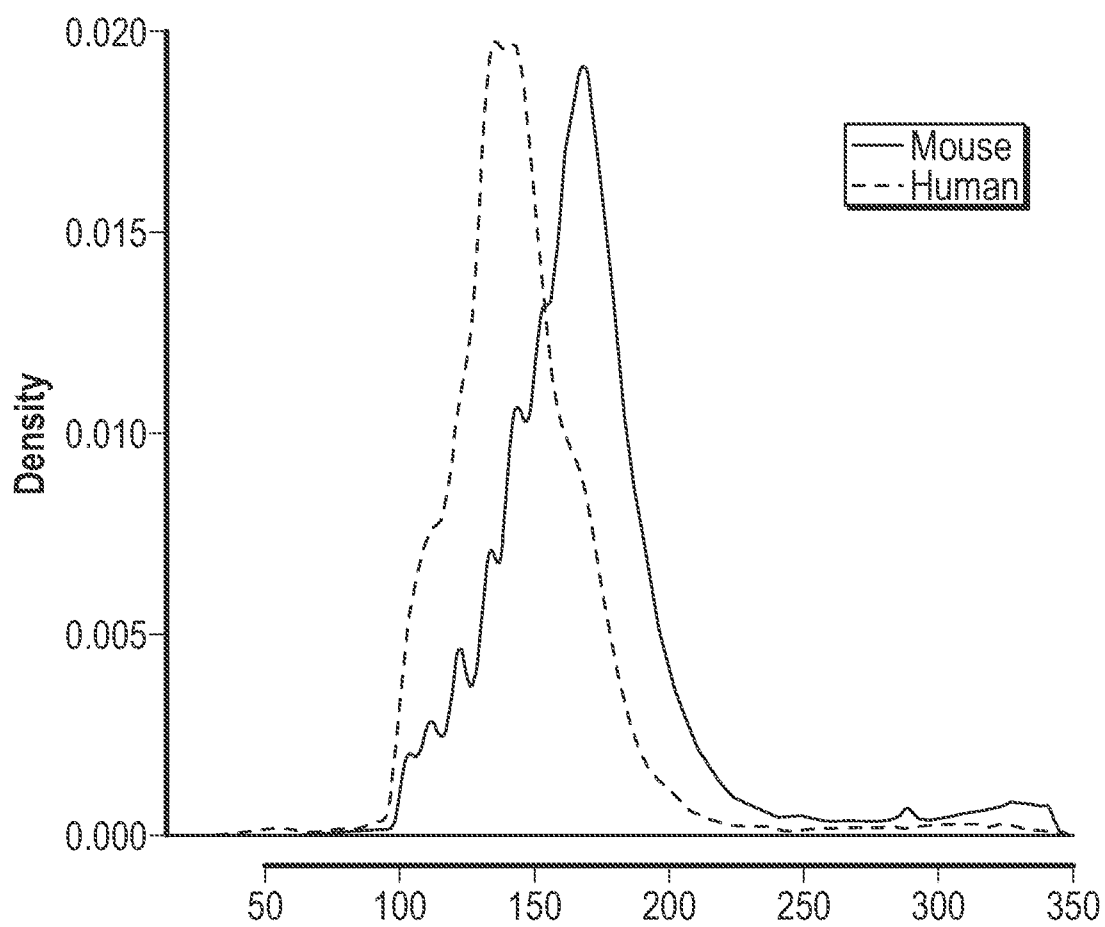


FIG. 17C

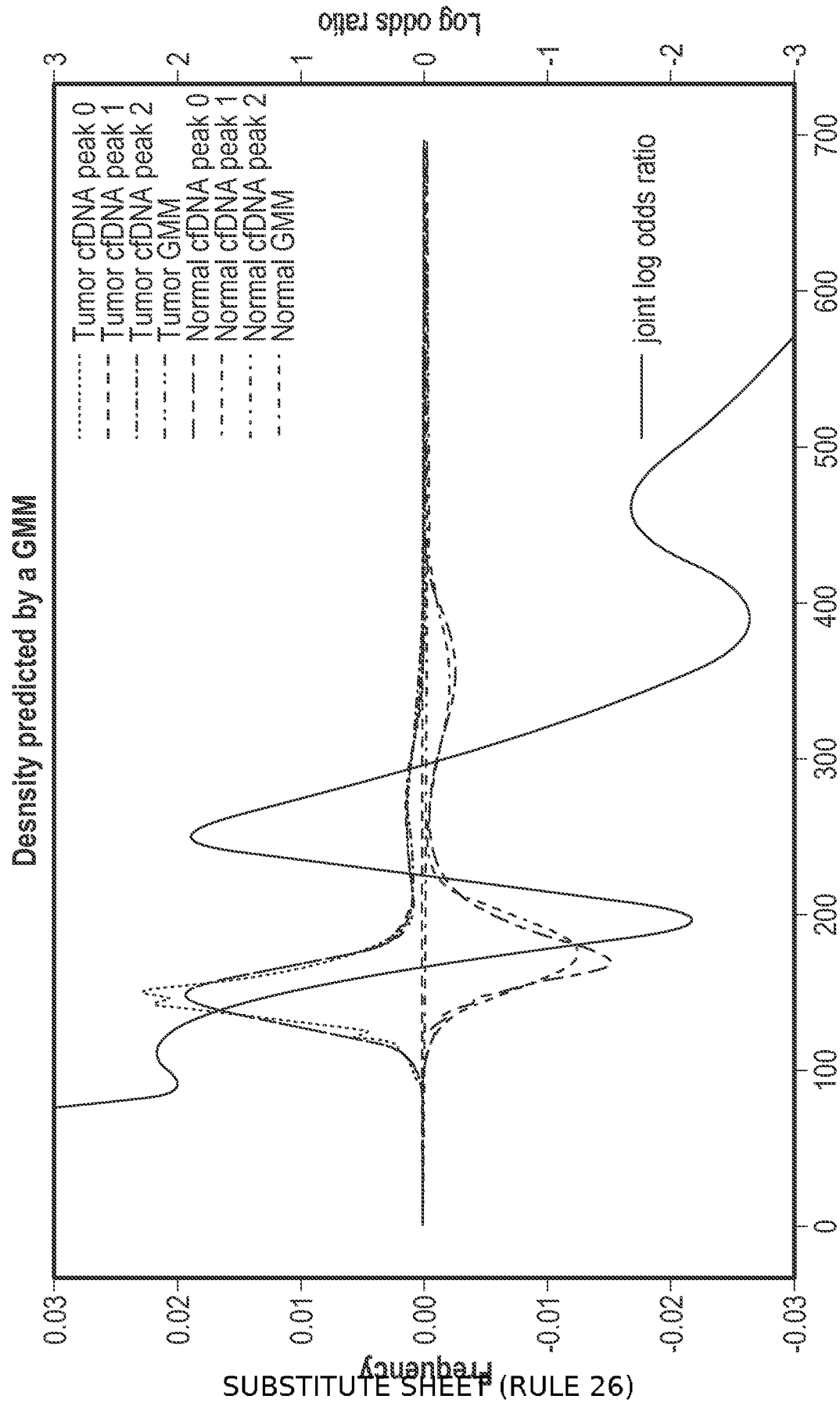


FIG. 17D

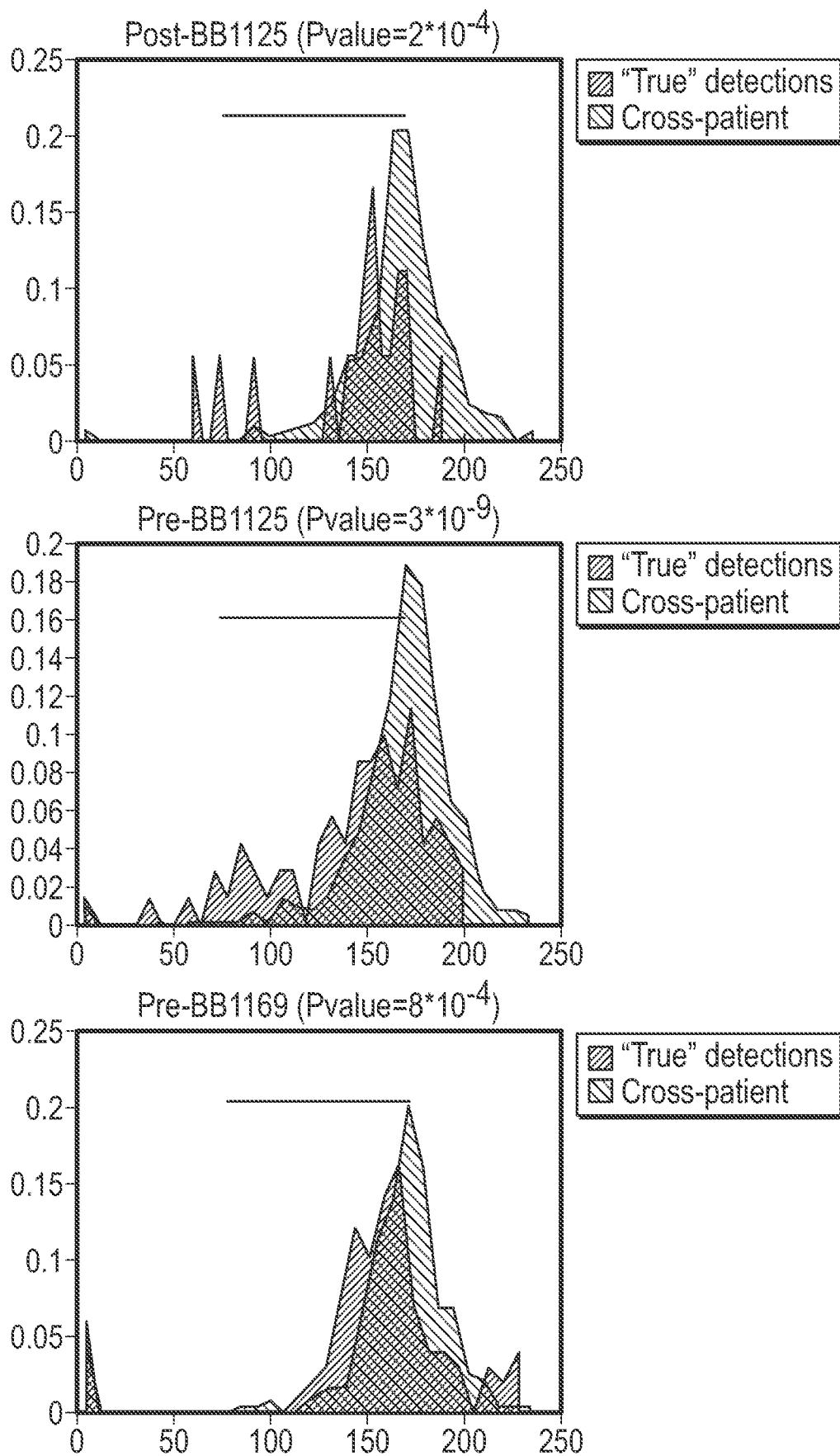


FIG. 17E

SUBSTITUTE SHEET (RULE 26)

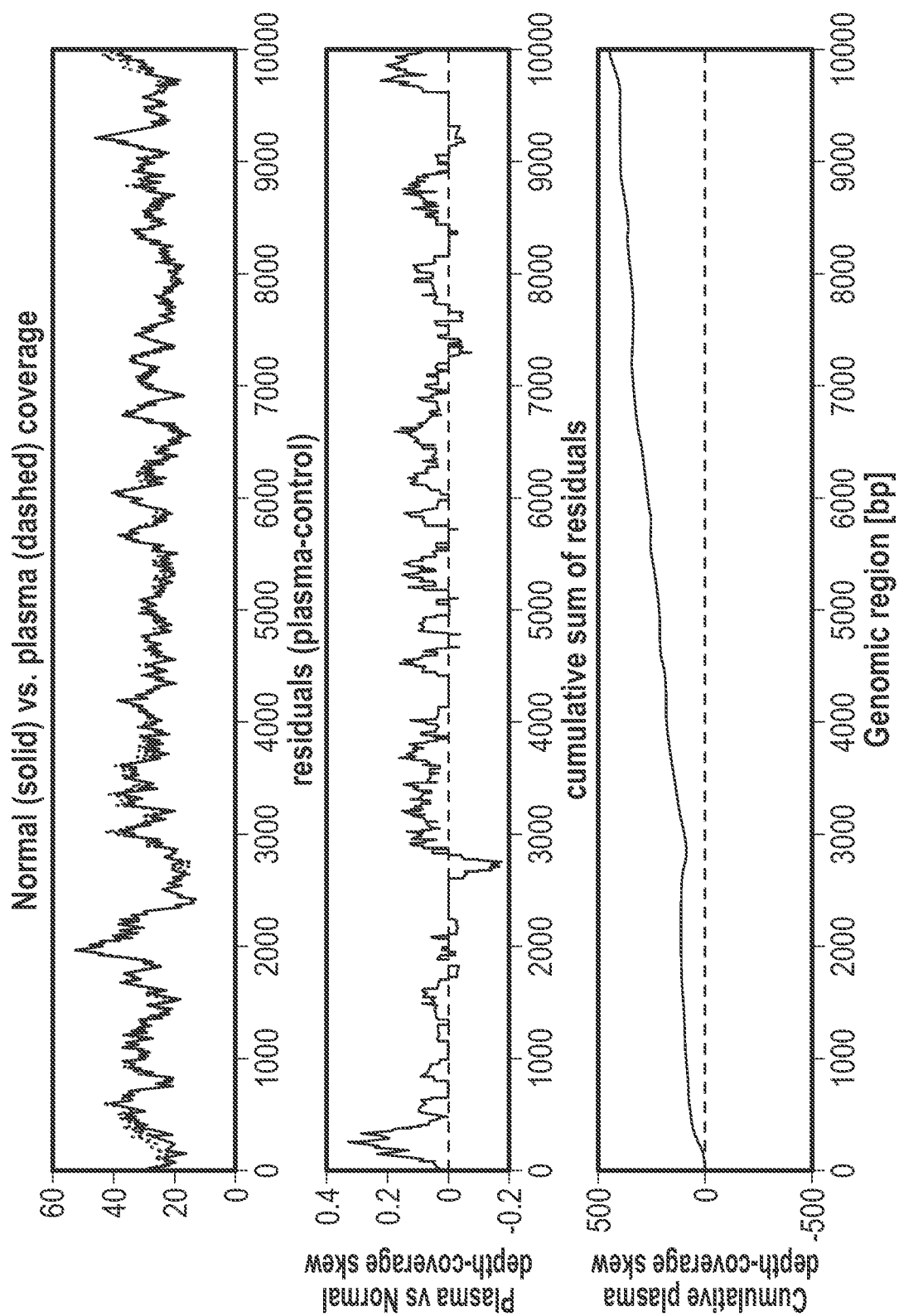


FIG. 18A

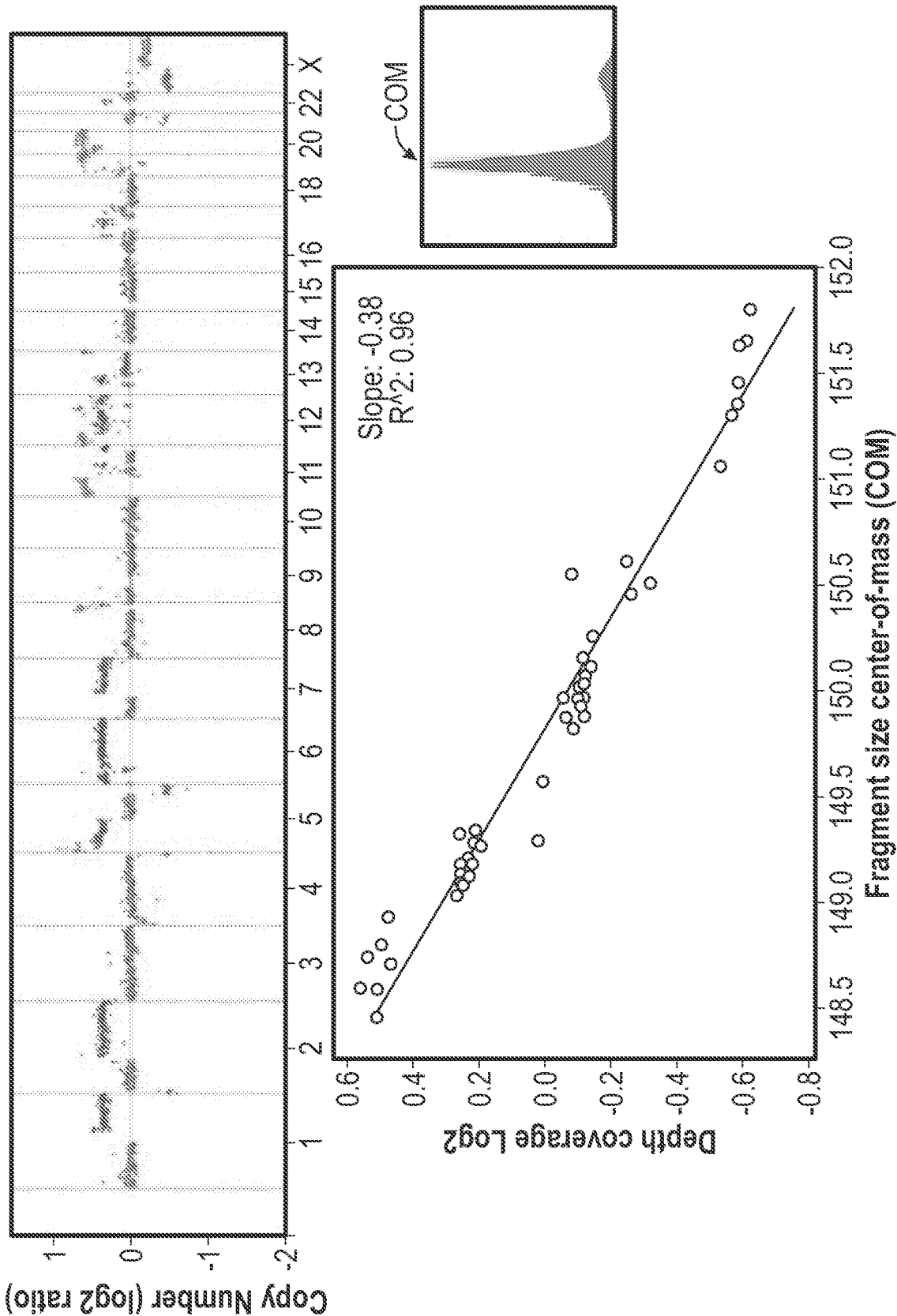


FIG. 18B

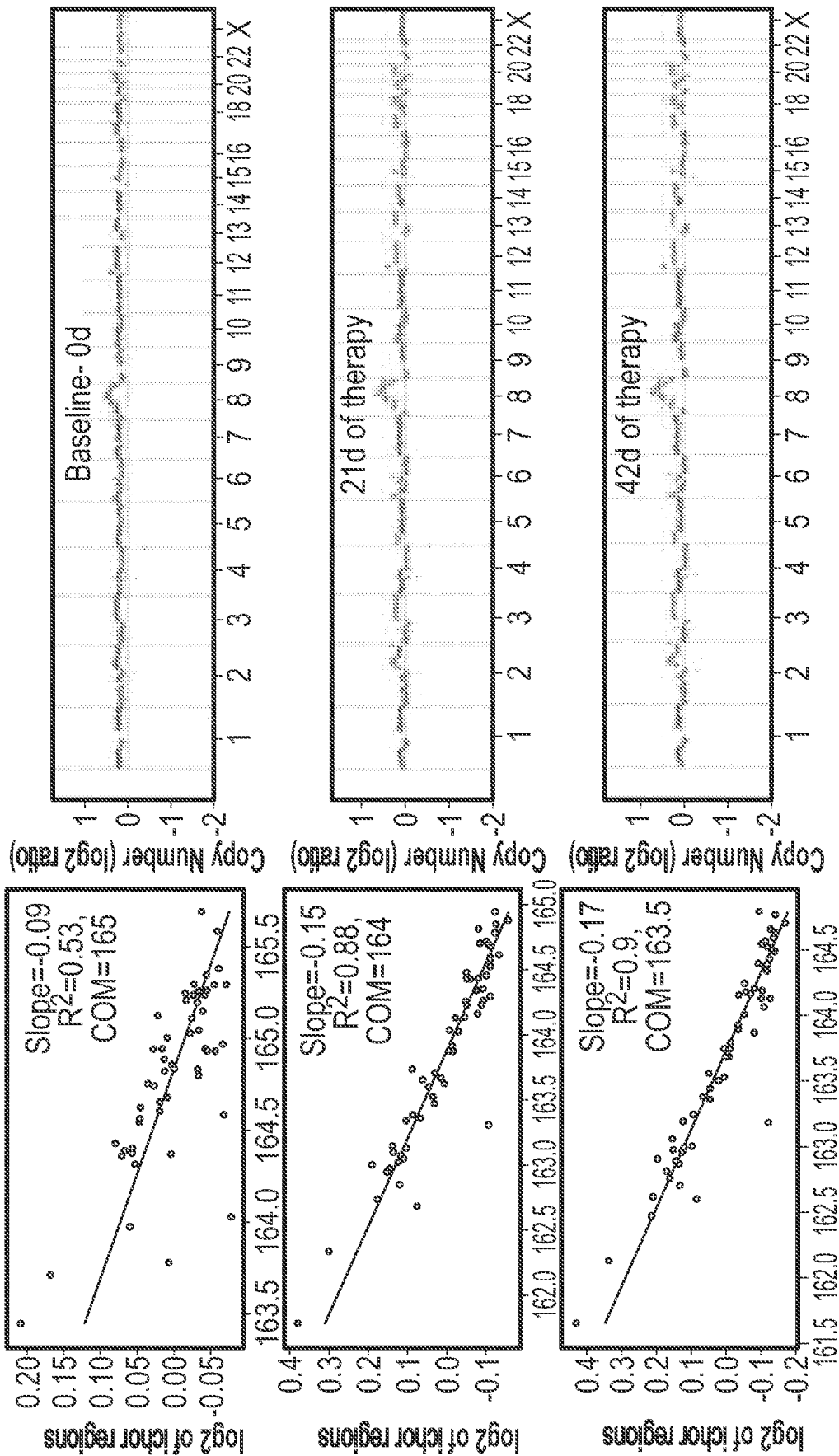


FIG. 18C

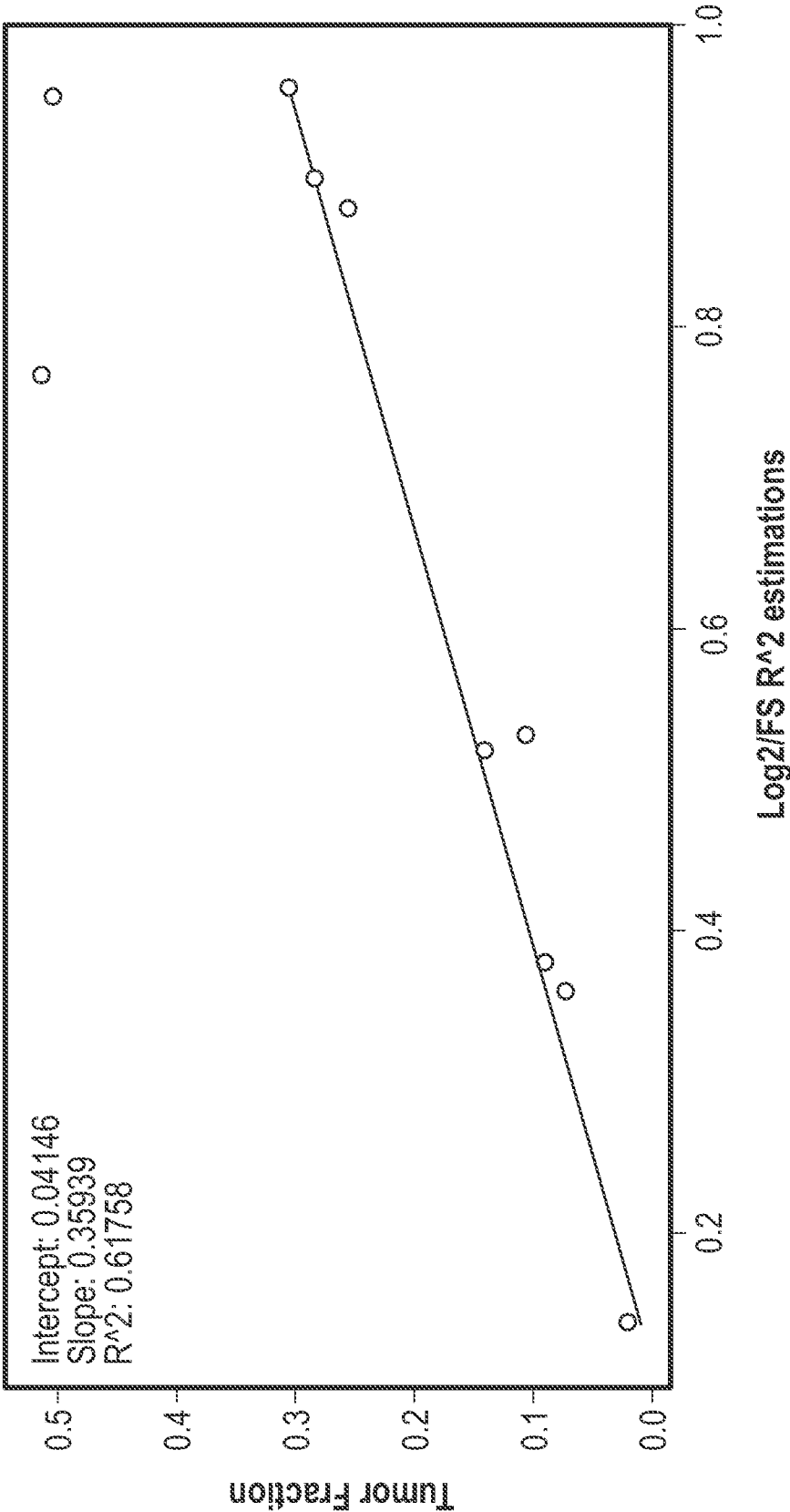


FIG. 18D

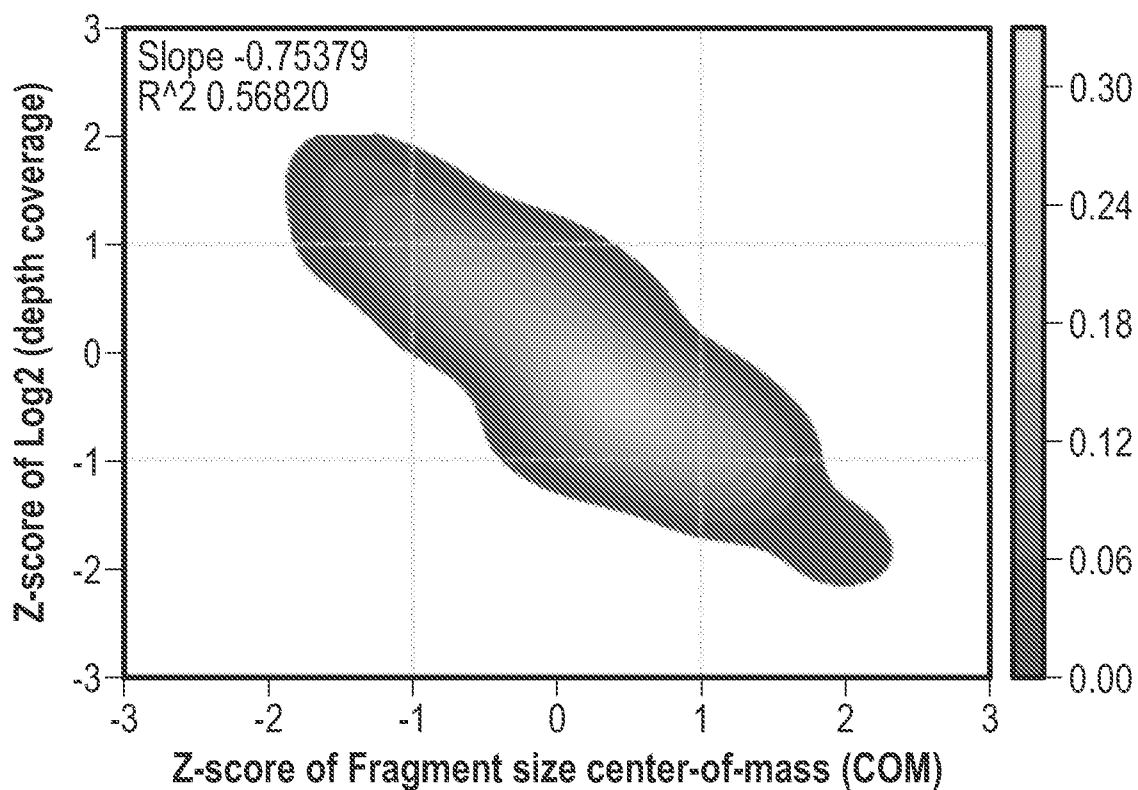


FIG. 18E

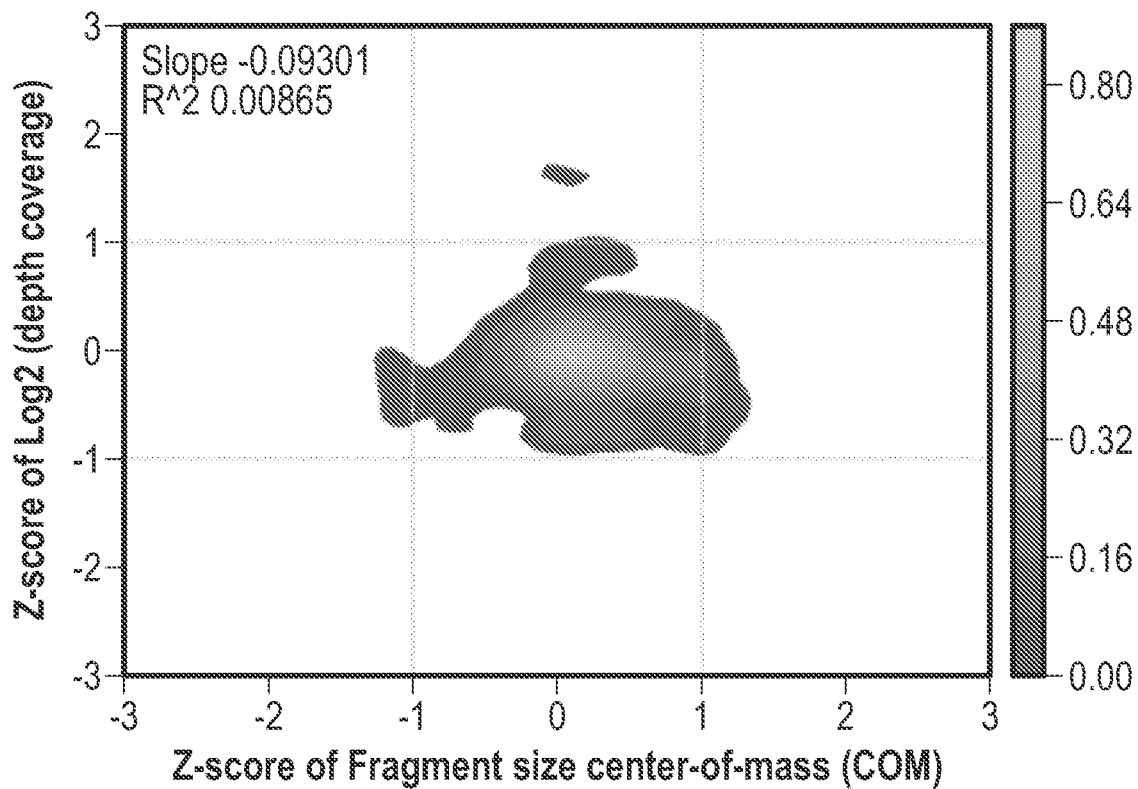


FIG. 18F