

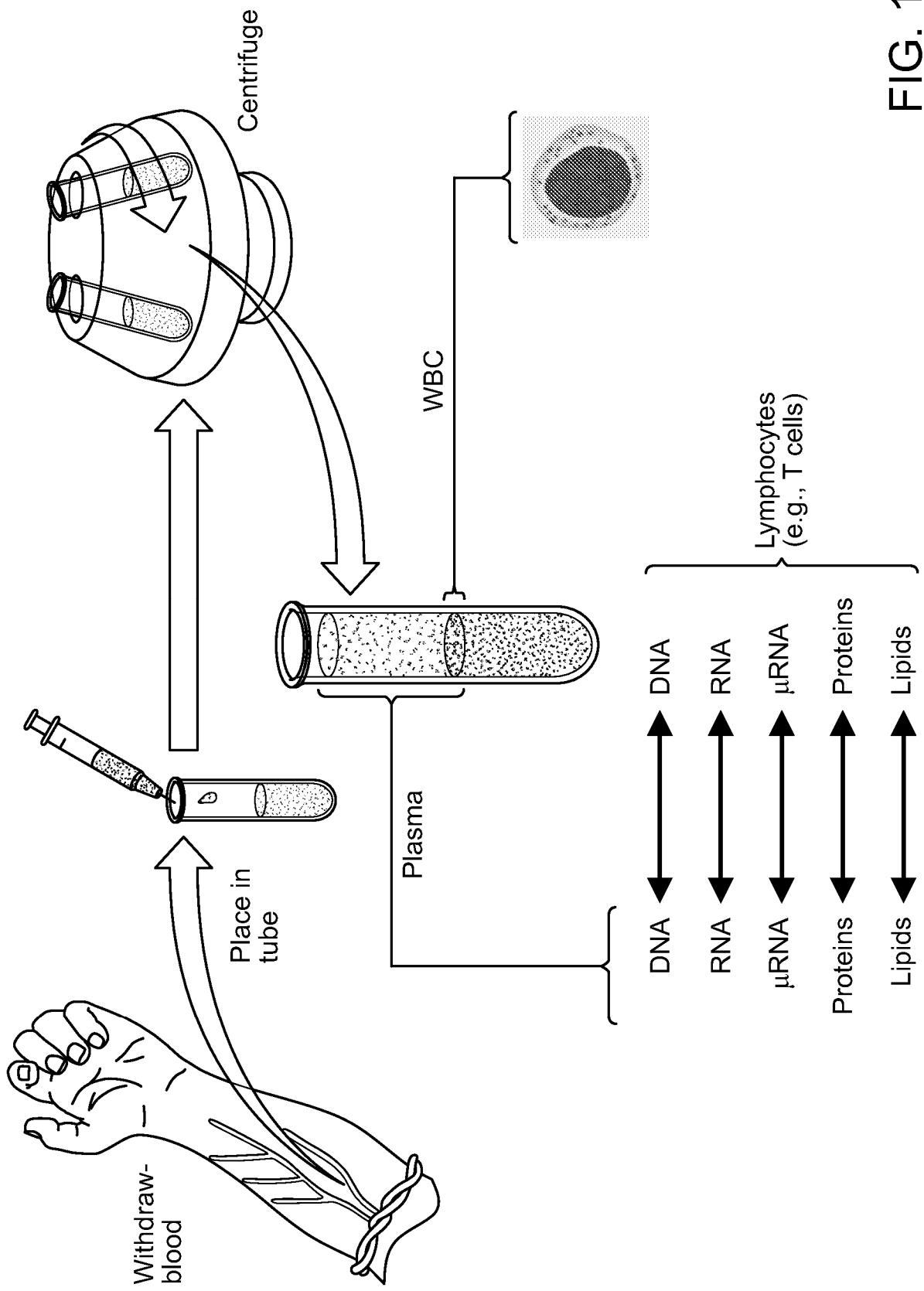


FIG. 1

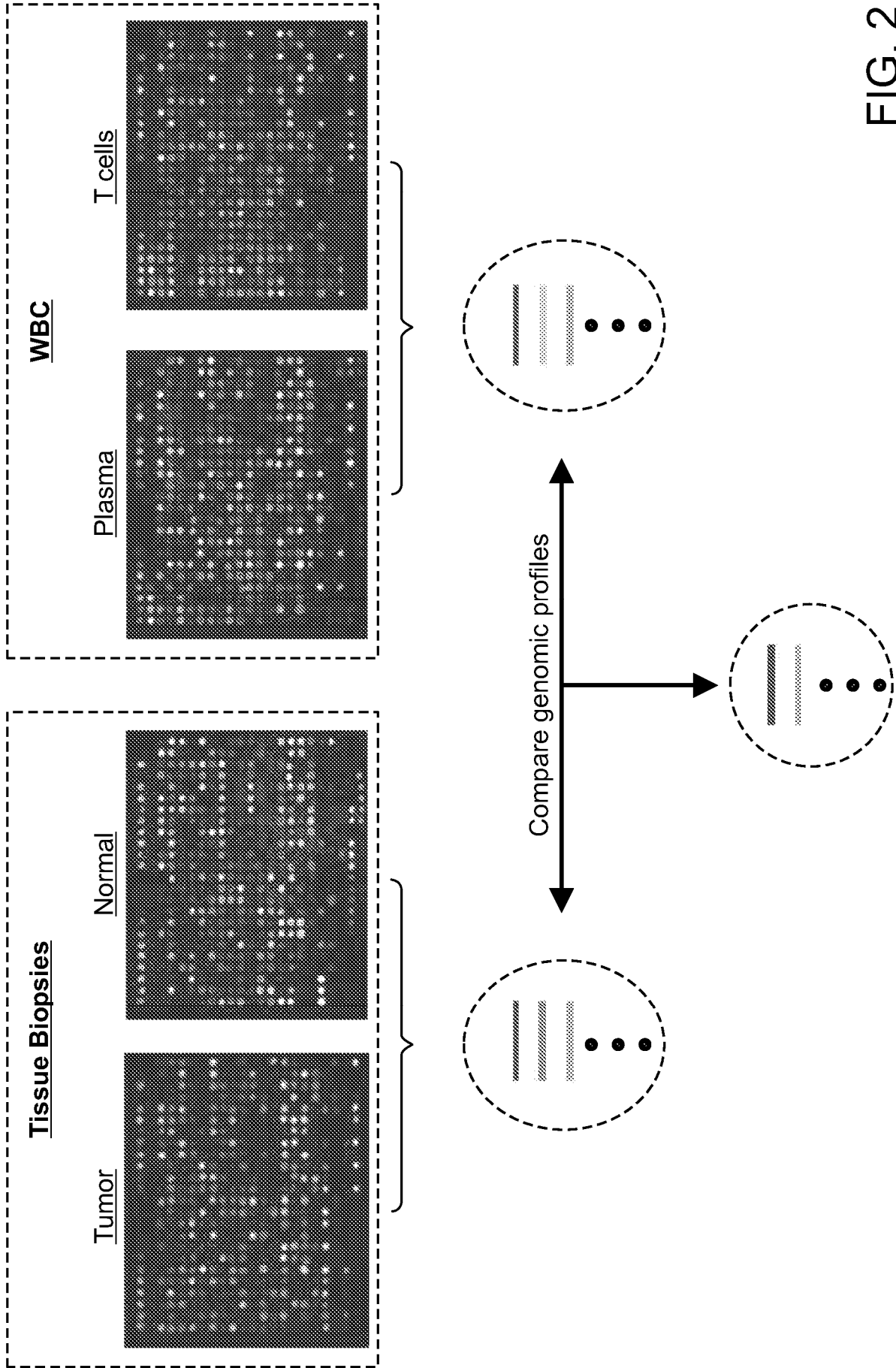


FIG. 2

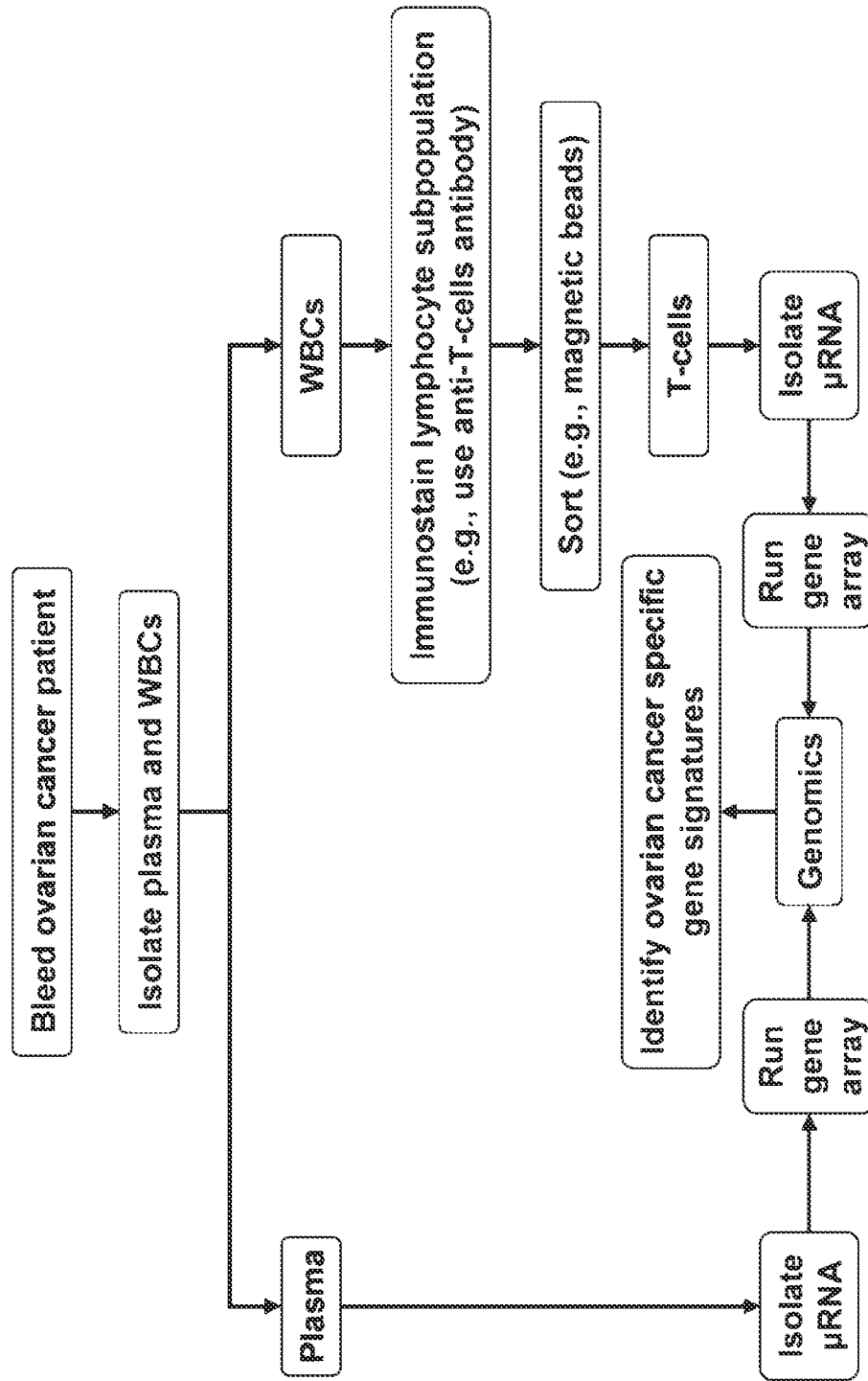


FIG. 3

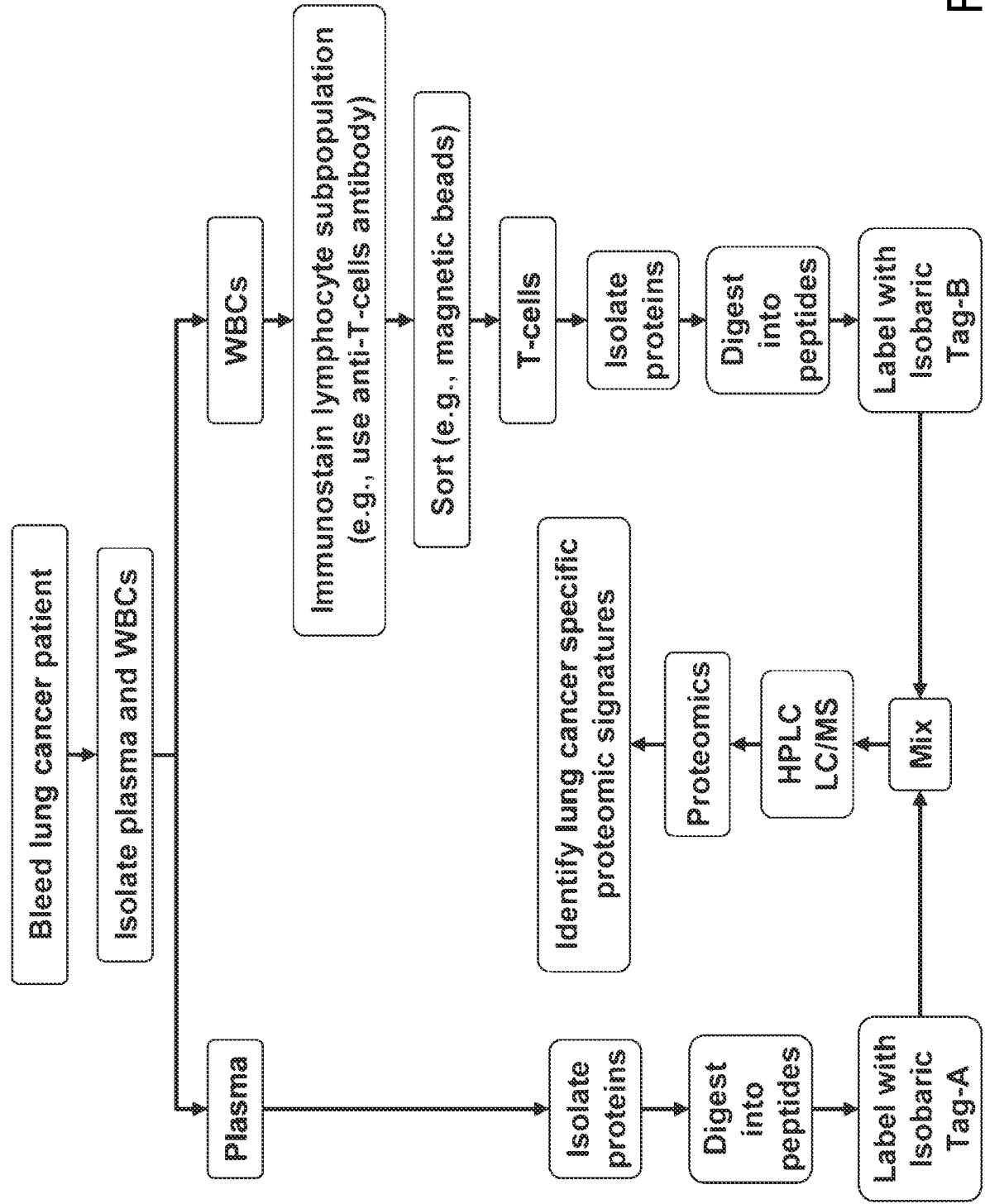


FIG. 4

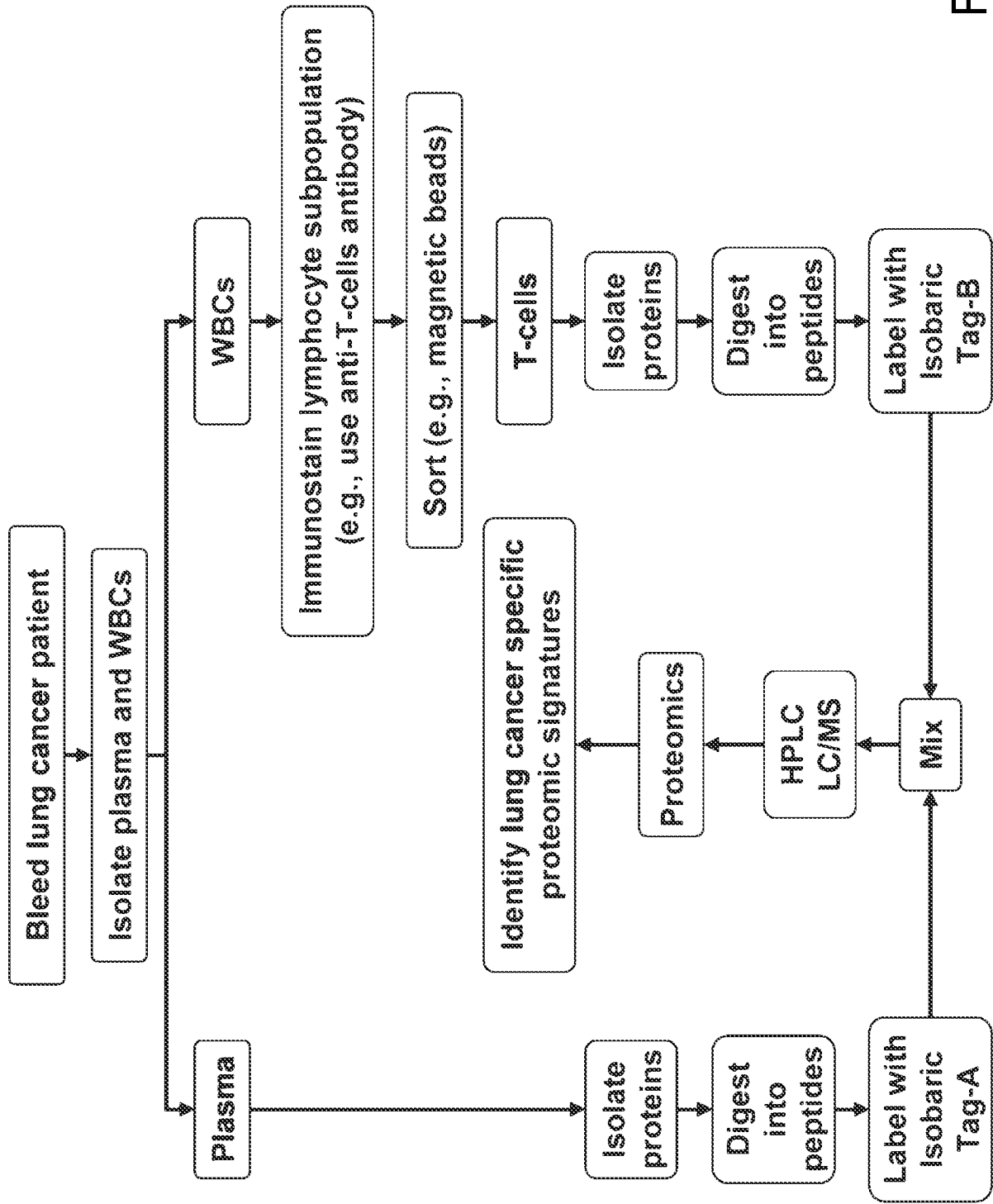


FIG. 5

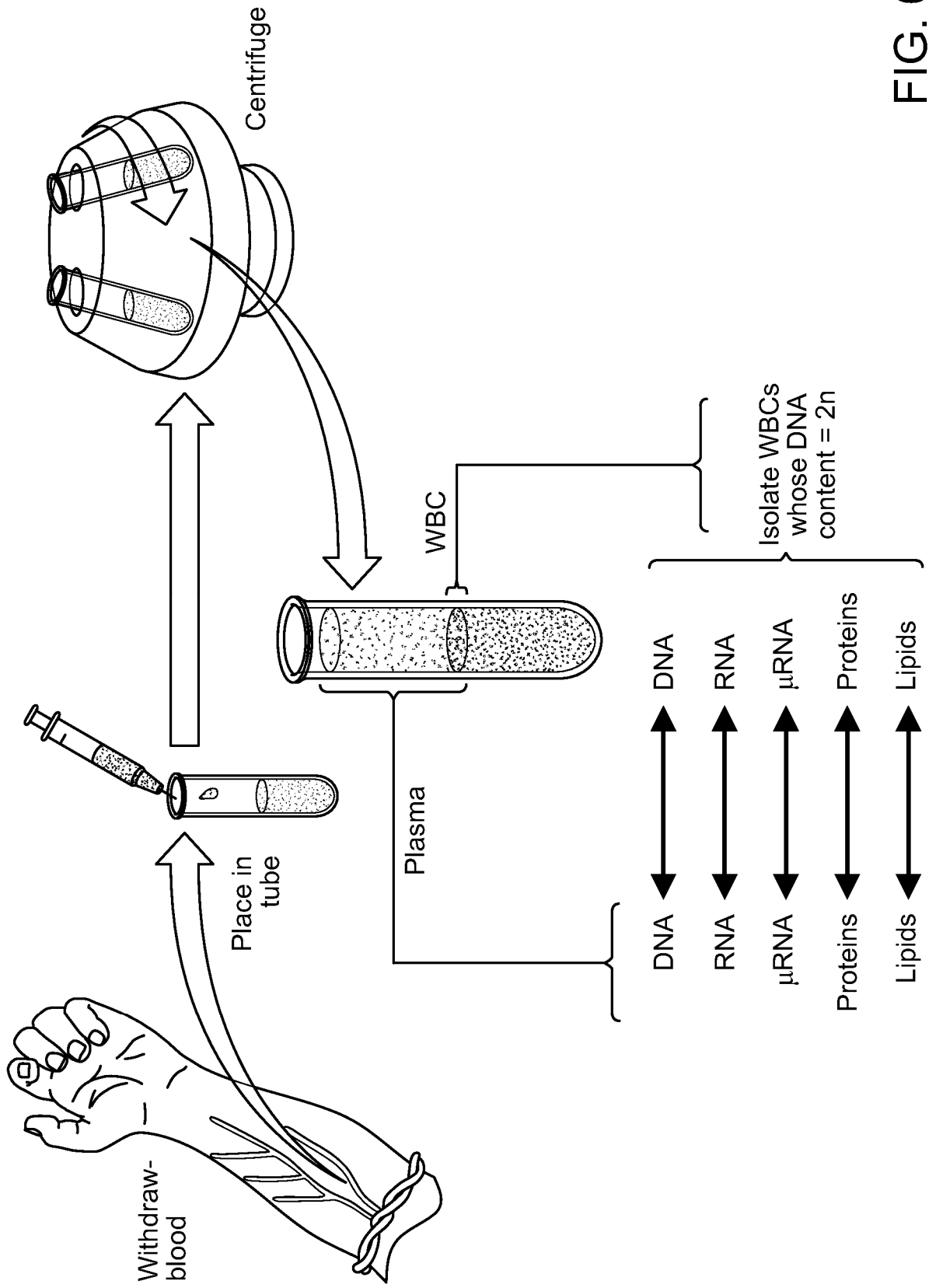


FIG. 6

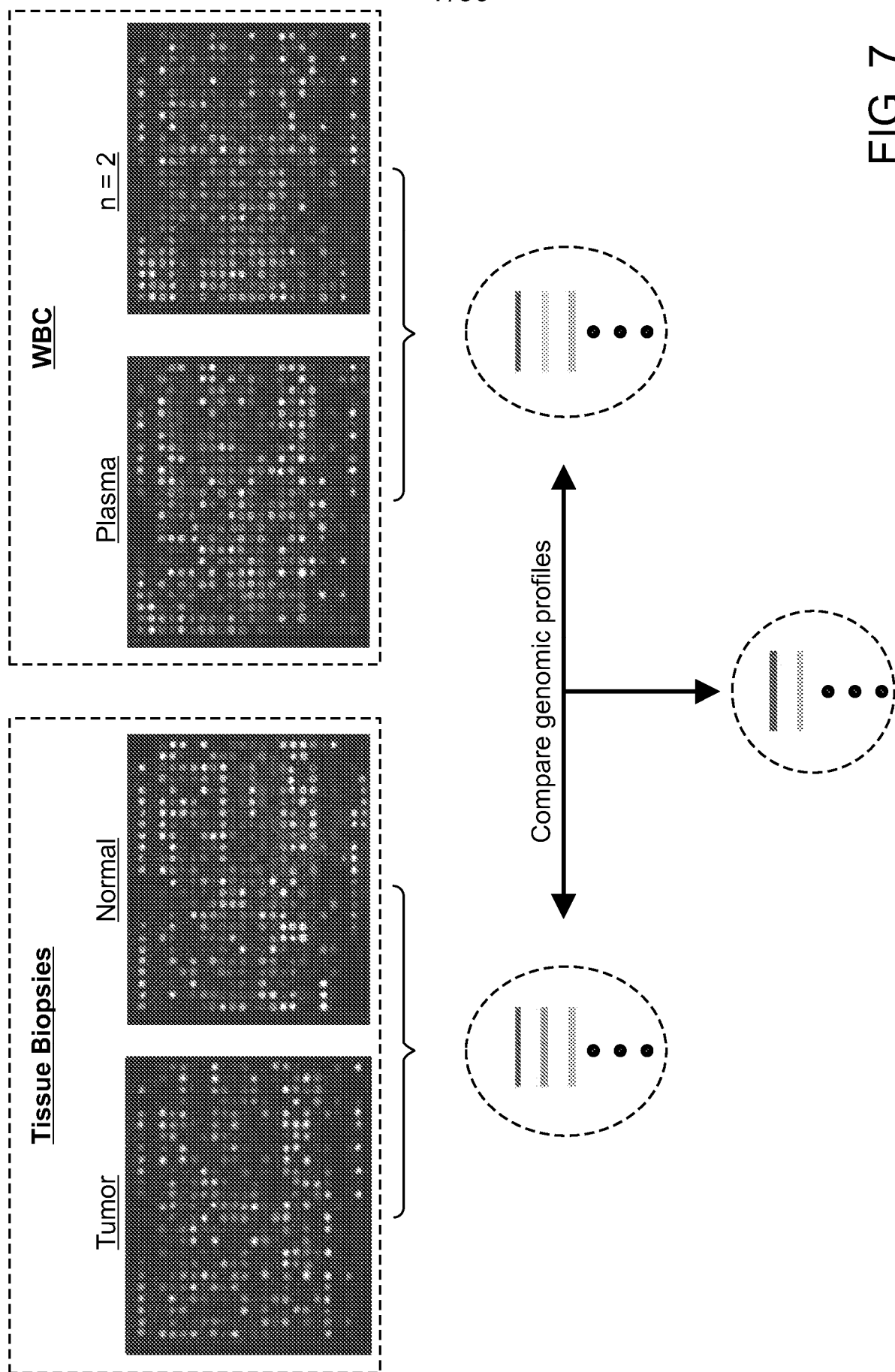


FIG. 7

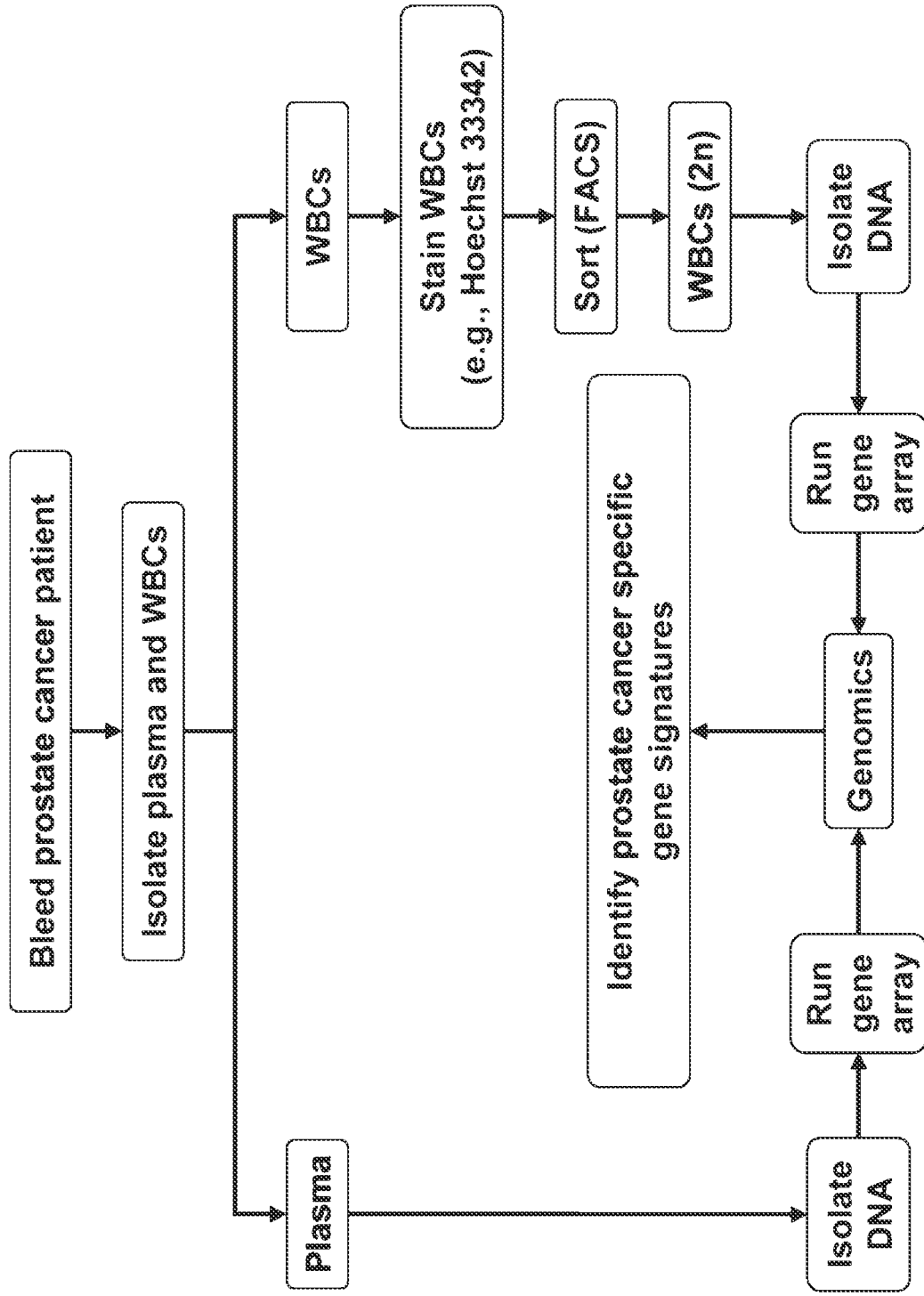


FIG. 8

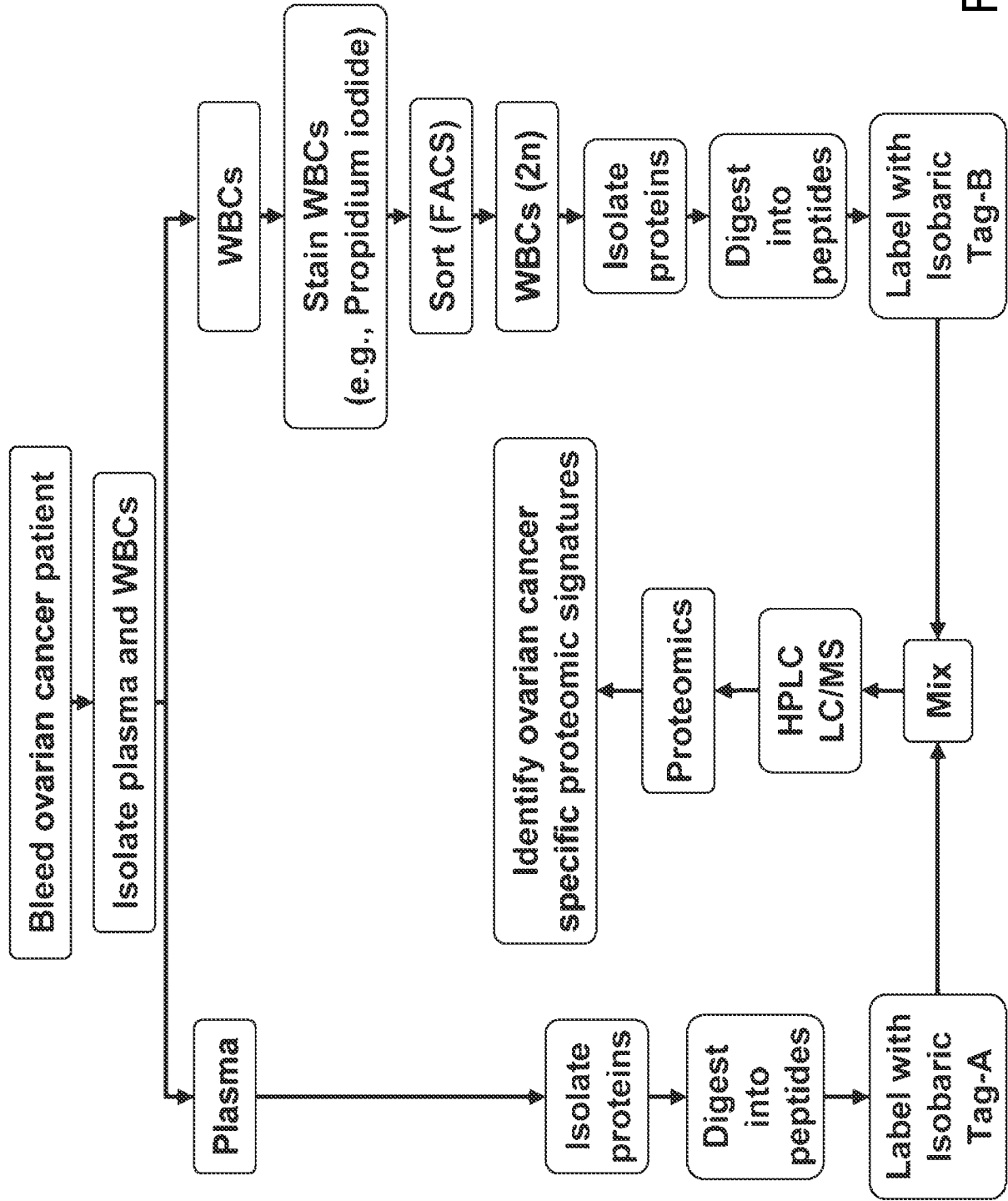


FIG. 9

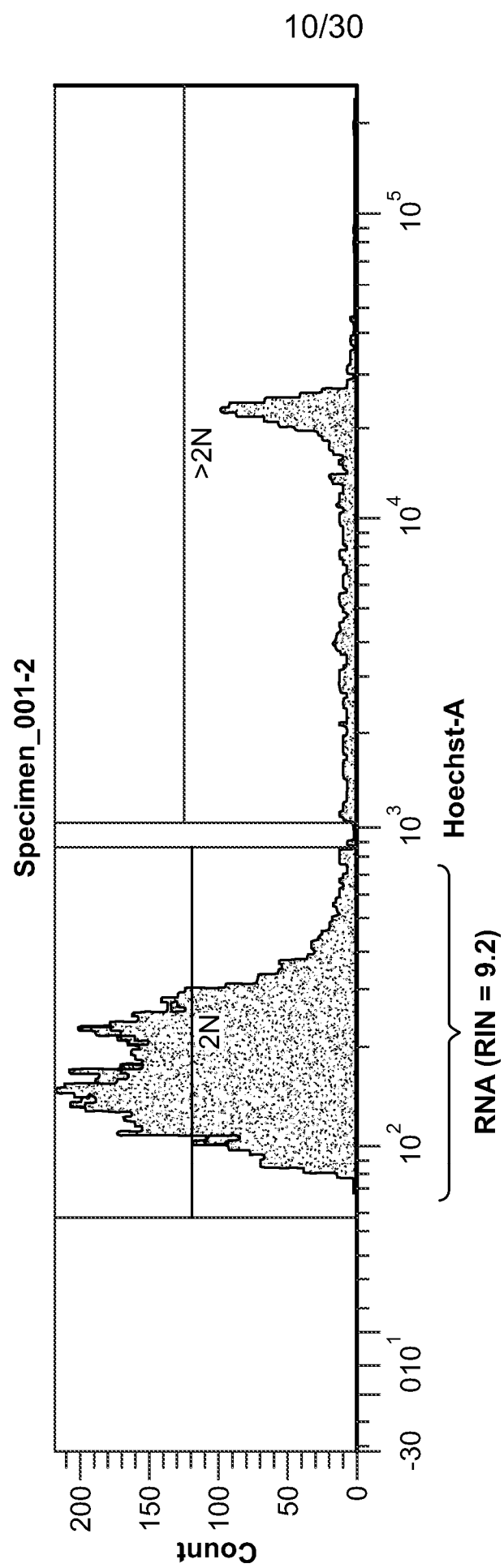


FIG. 10

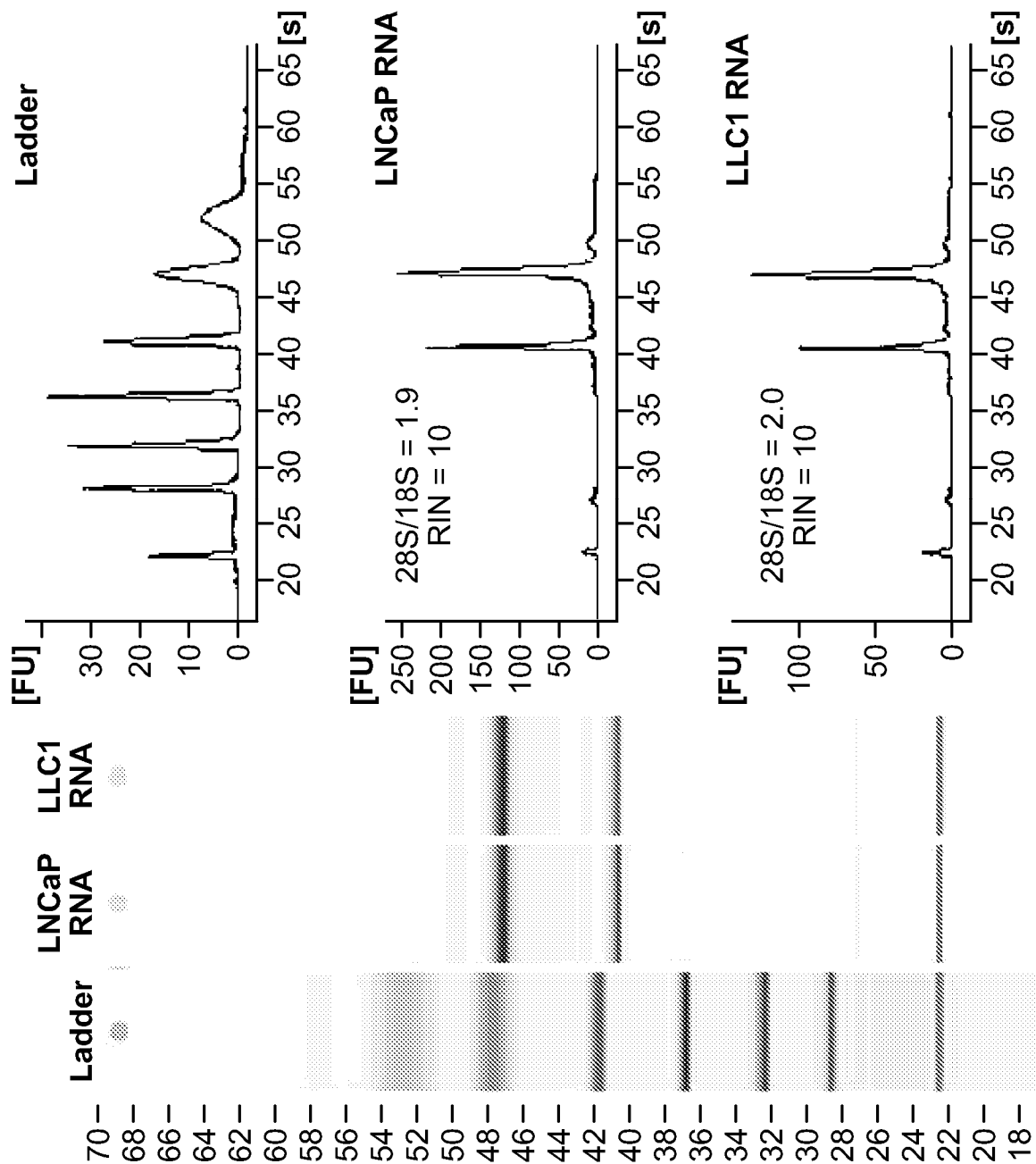


FIG. 11

**Table 1. Yield and Quality of RNA
Obtained from Mouse WBC**

	Yield (μ g)	28S/18S Ratio	RNA Integrity Number (RIN)
Macrophage*	0.53 ± 0.22	1.9 ± 0.2	9.4 ± 0.8
T cells*	0.42 ± 0.20	1.9 ± 0.3	8.4 ± 0.9
Neutrophils*	0.62 ± 0.16	1.9 ± 0.3	9.6 ± 0.7

*Mean of ≥ 6 cell preparations each.

FIG. 12

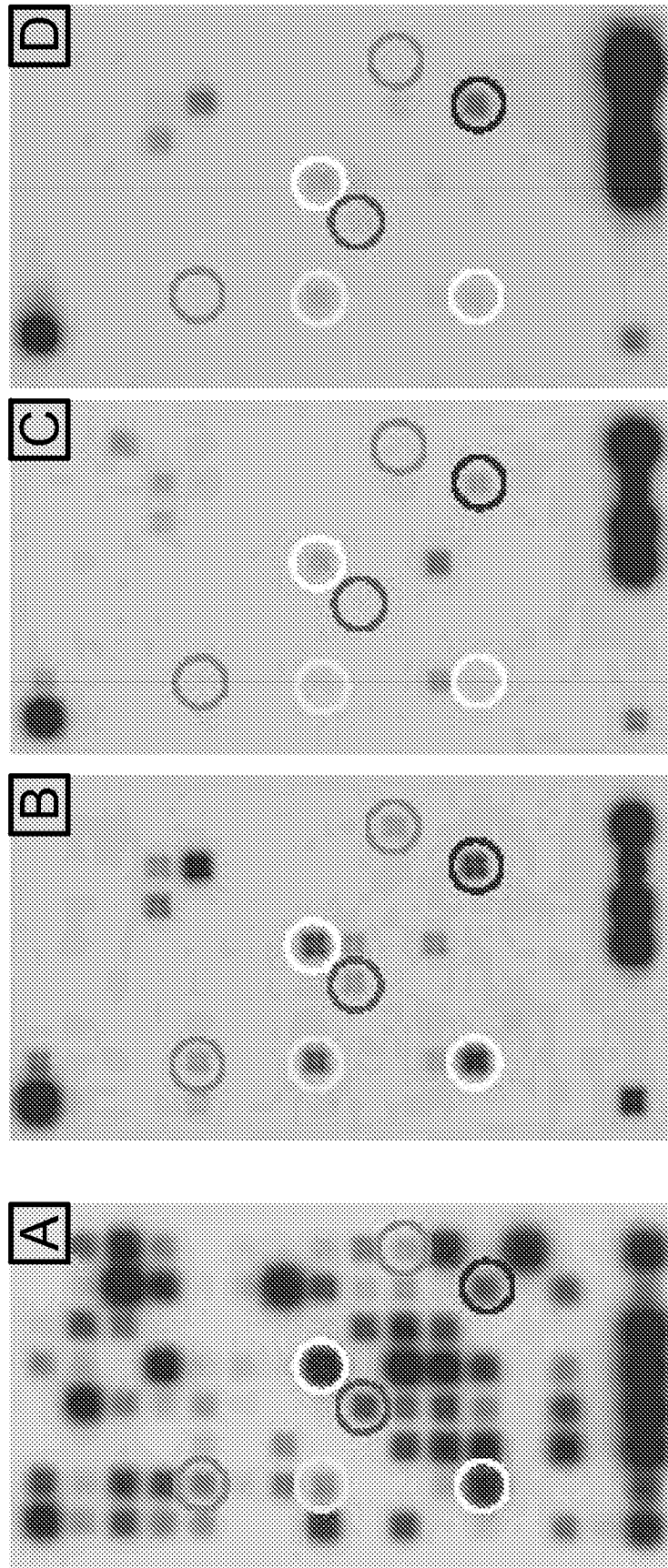


FIG. 13

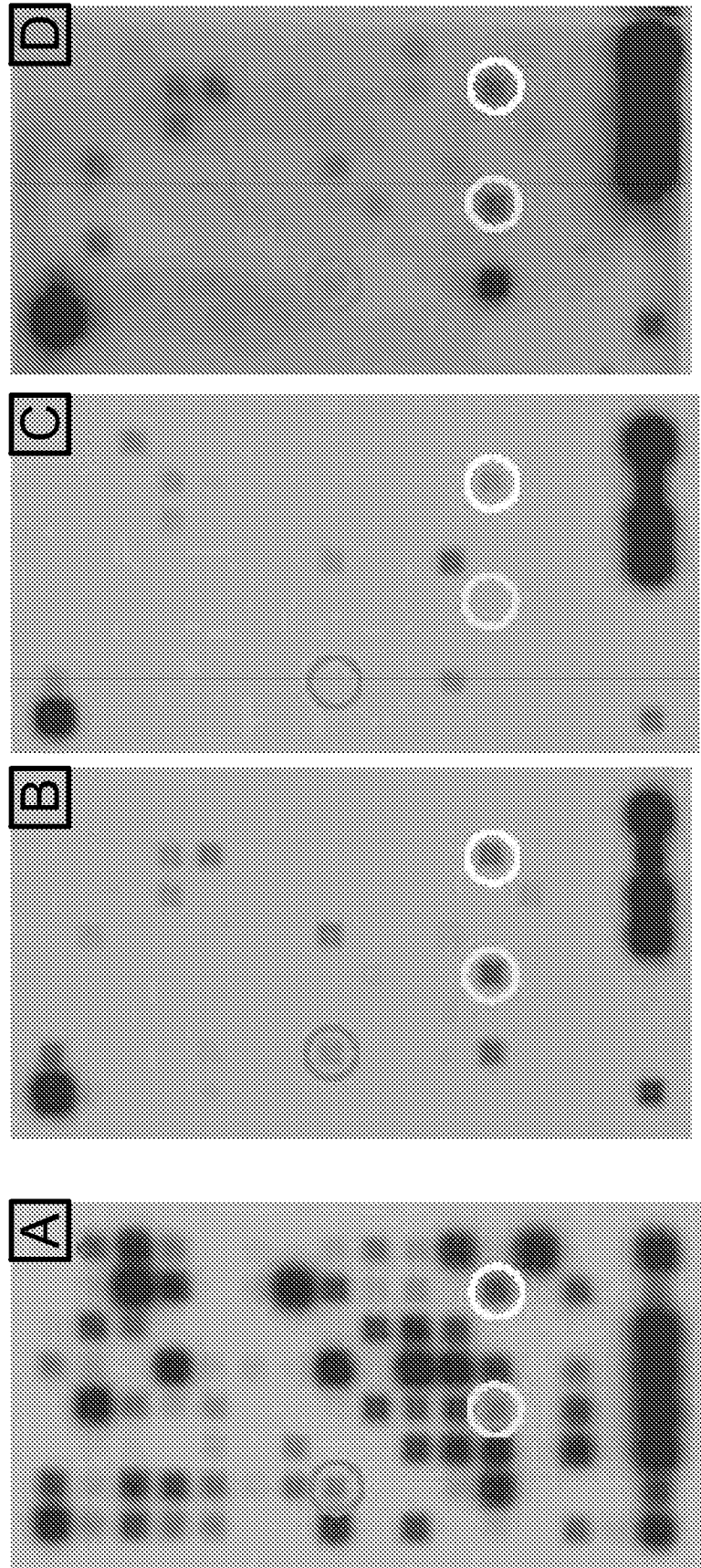


FIG. 14

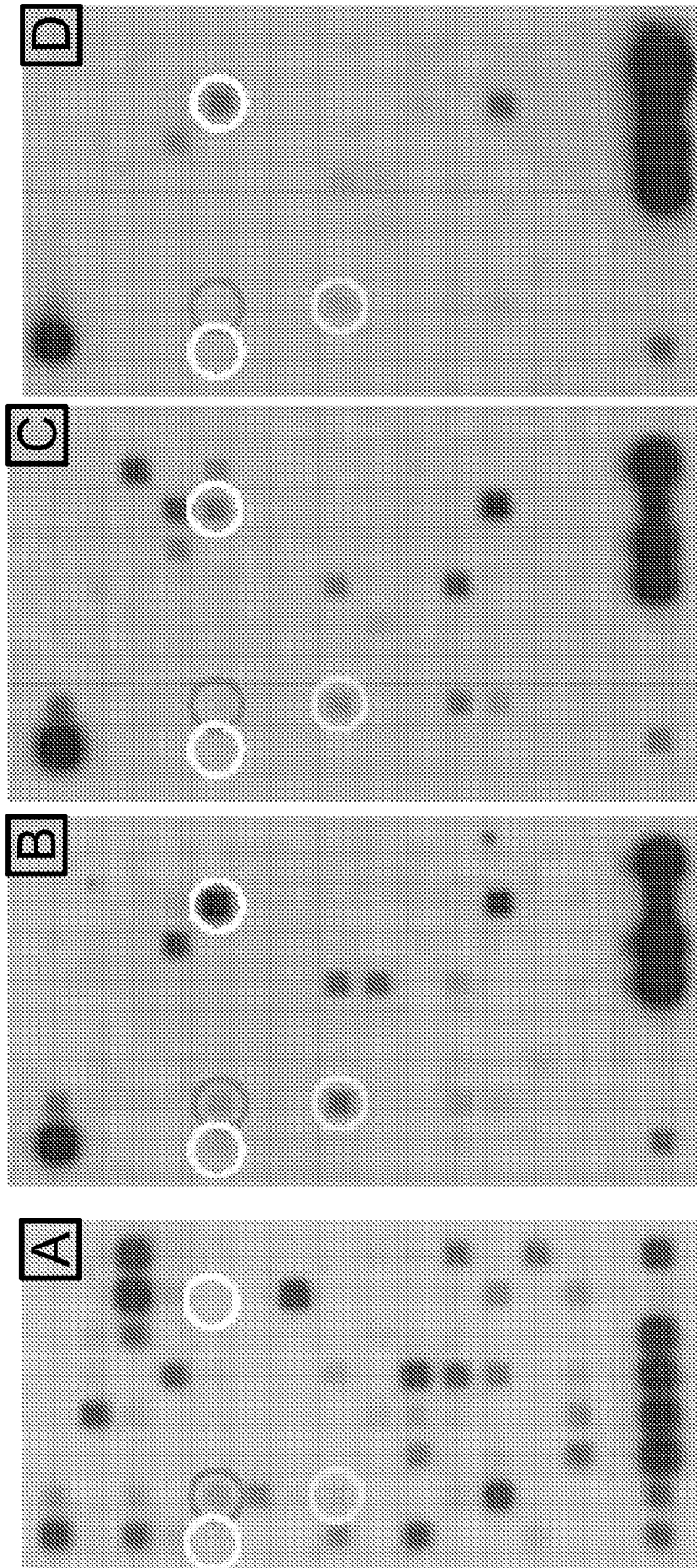


FIG. 15

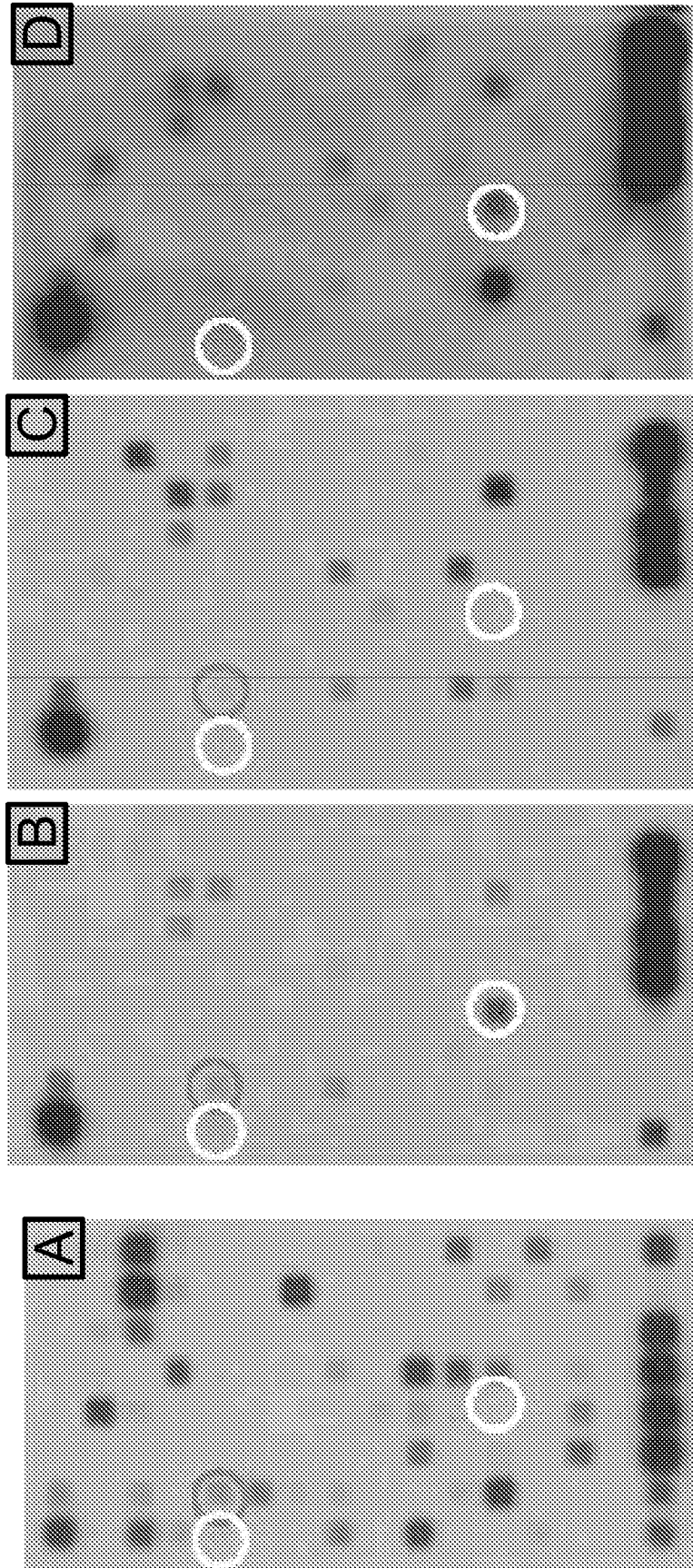


FIG. 16

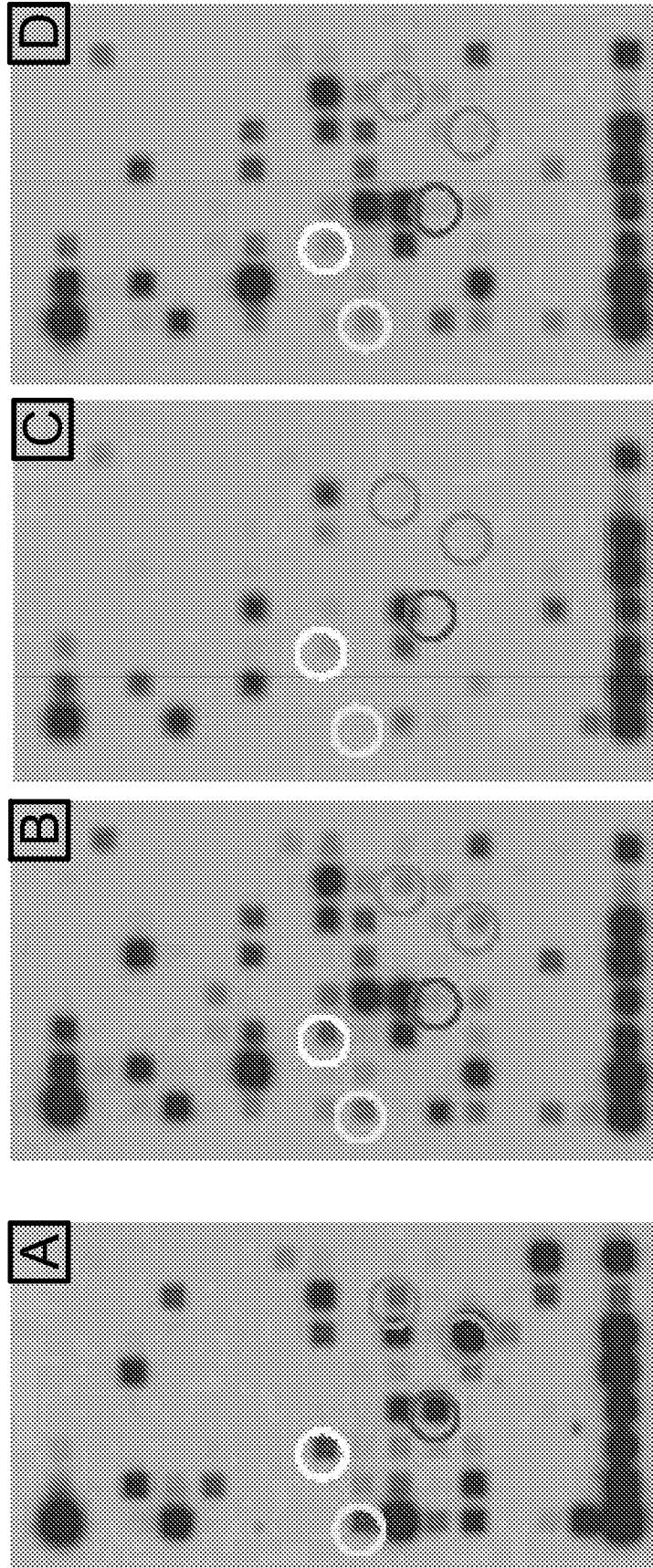


FIG. 17

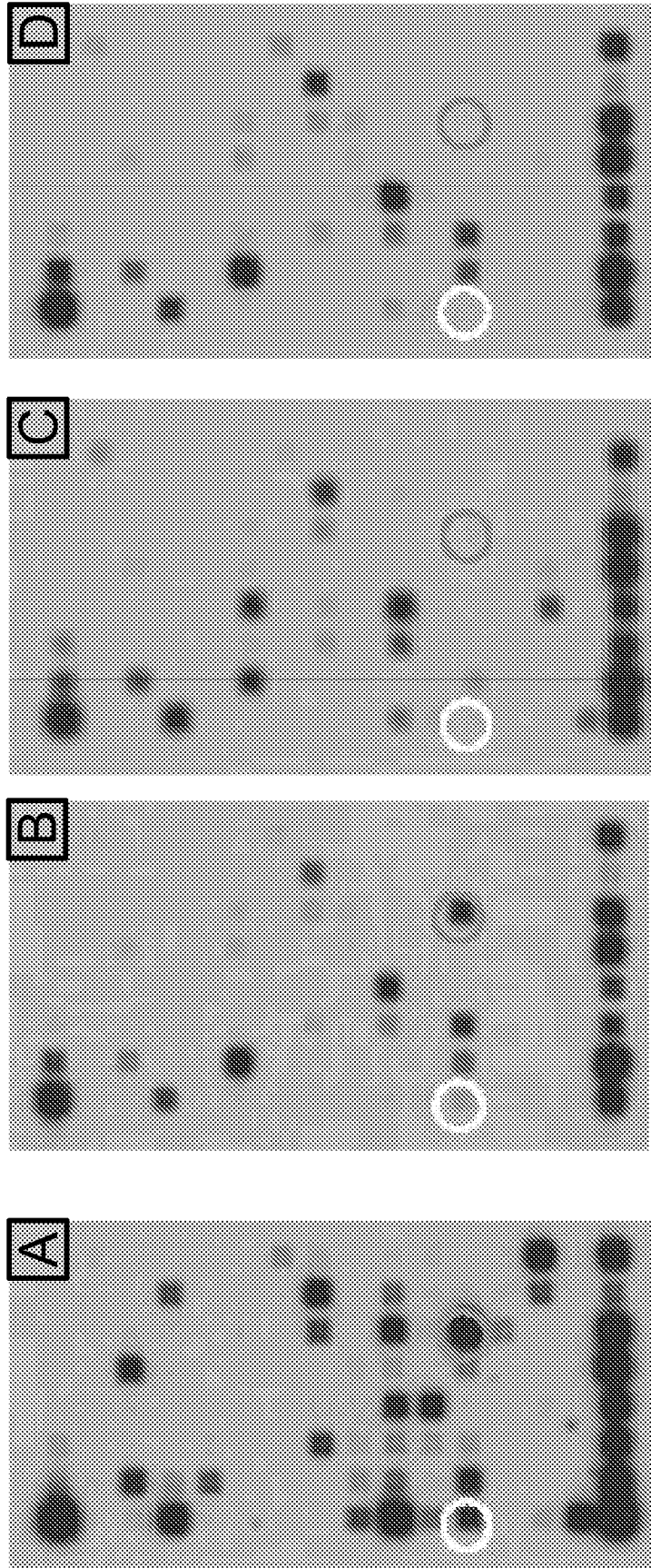


FIG. 18

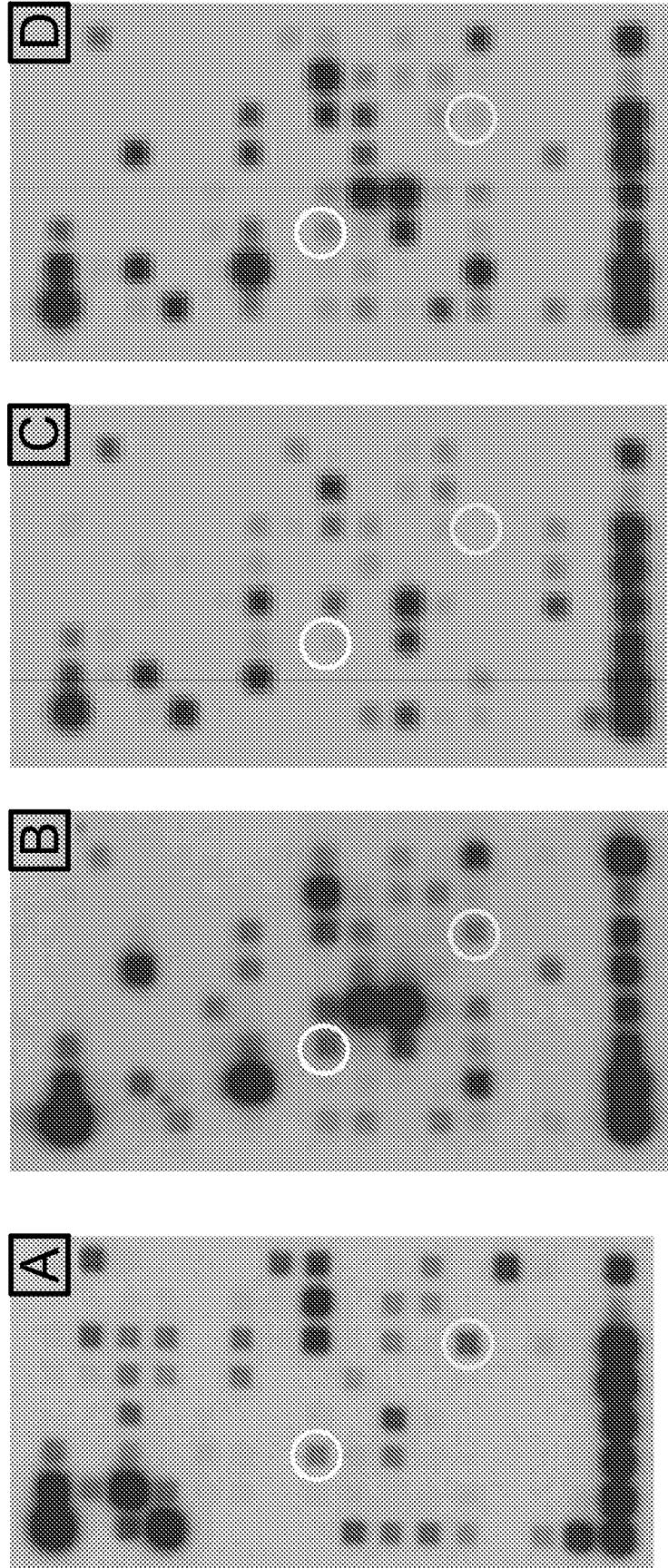


FIG. 19

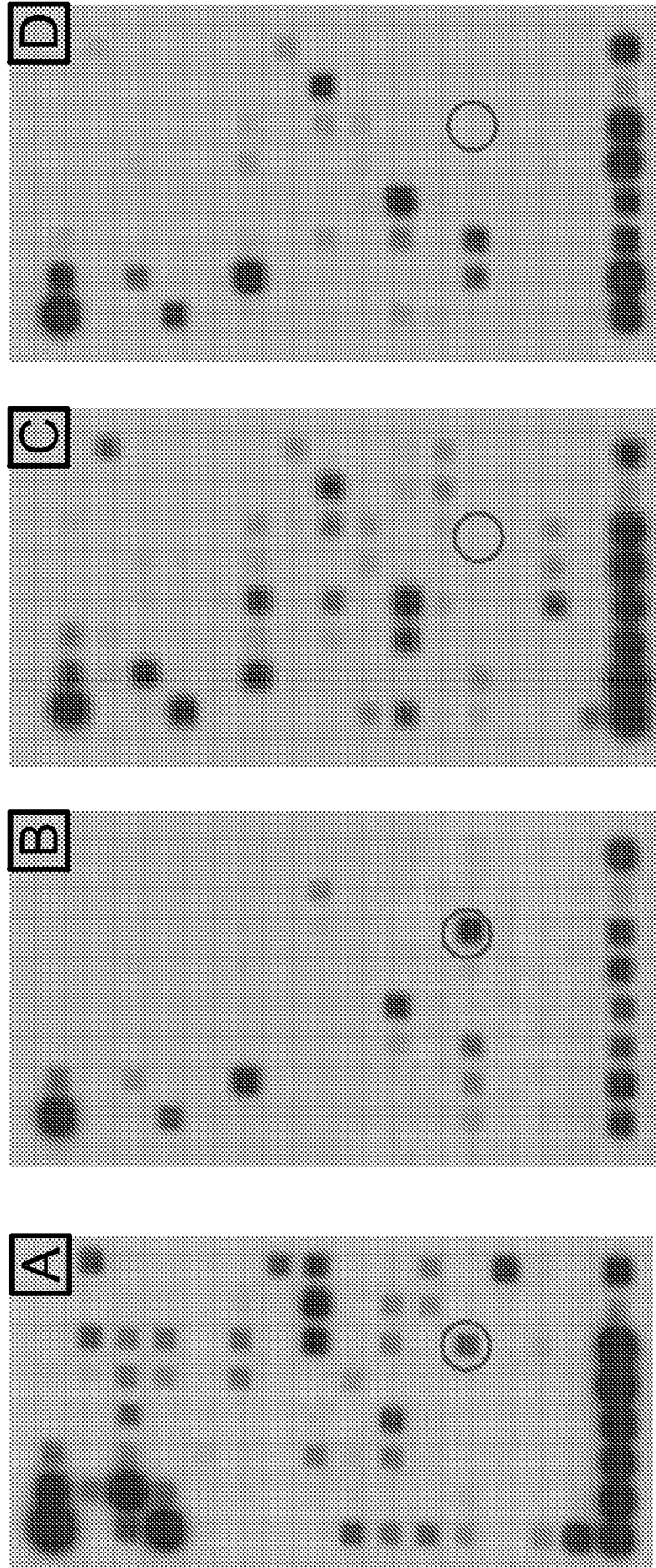


FIG. 20

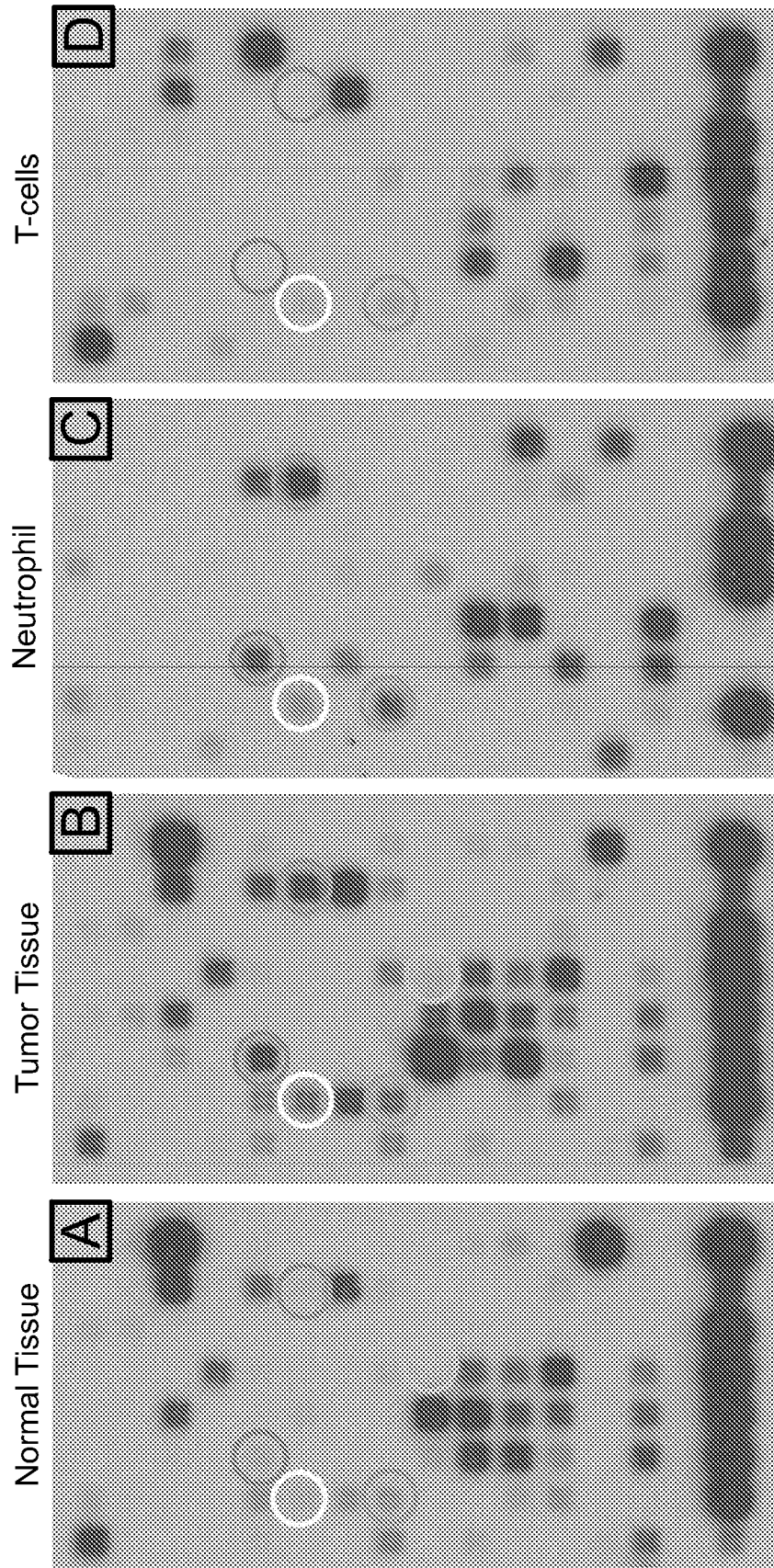


FIG. 21

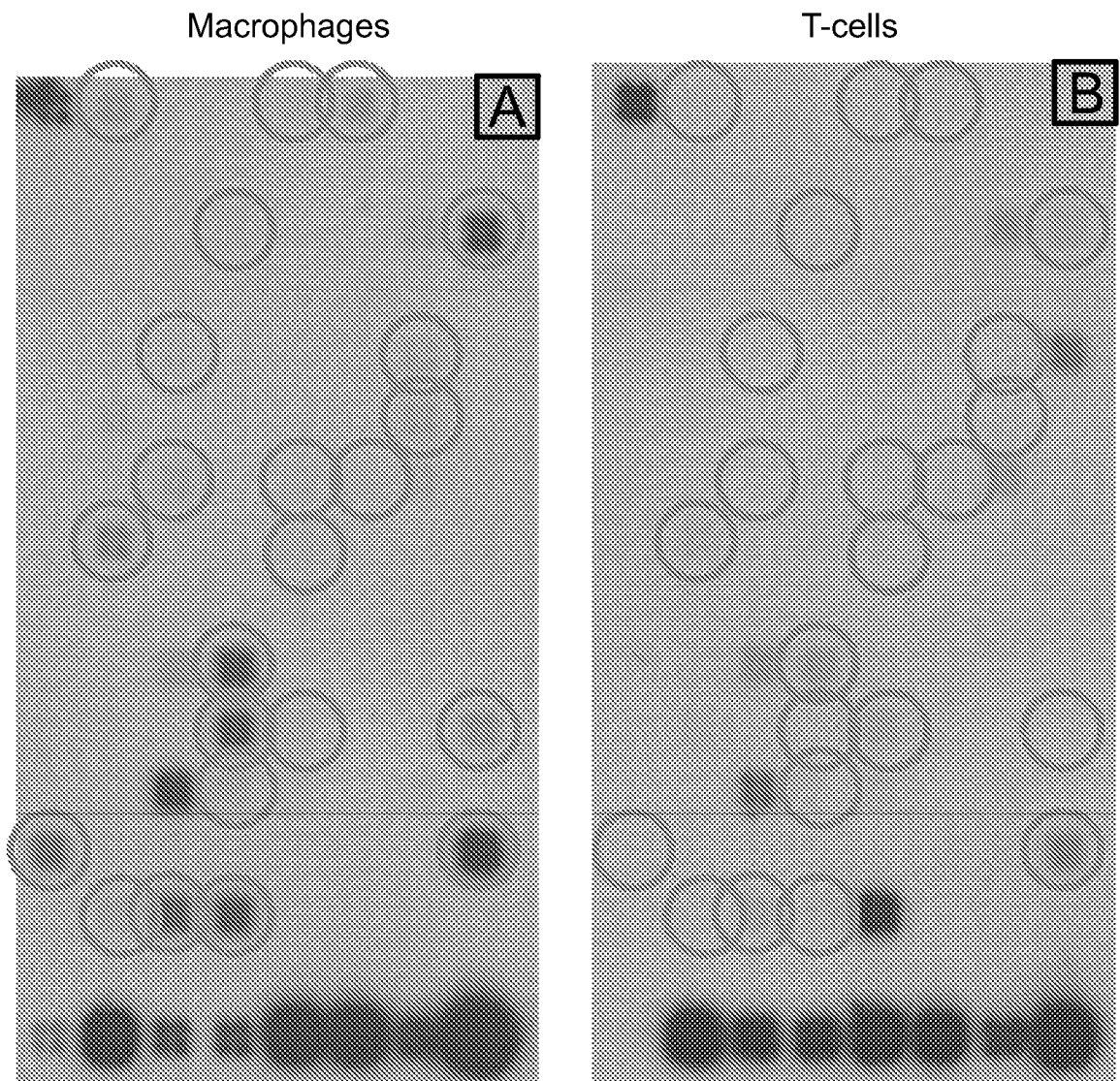


FIG. 22

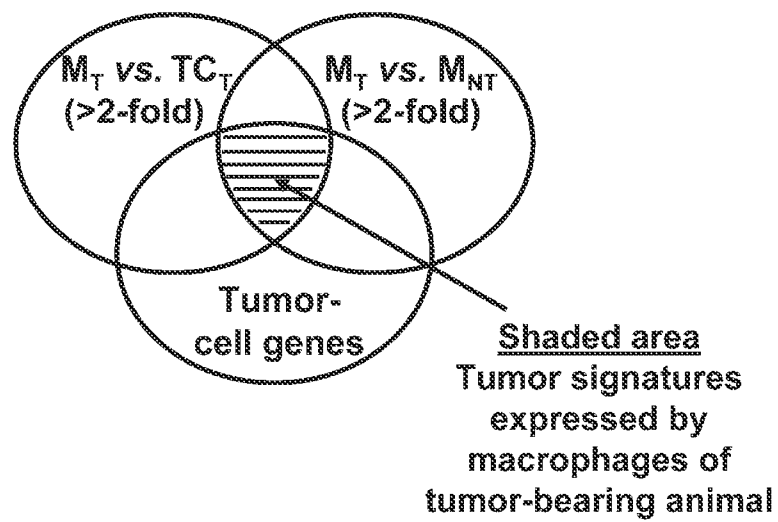


FIG. 23

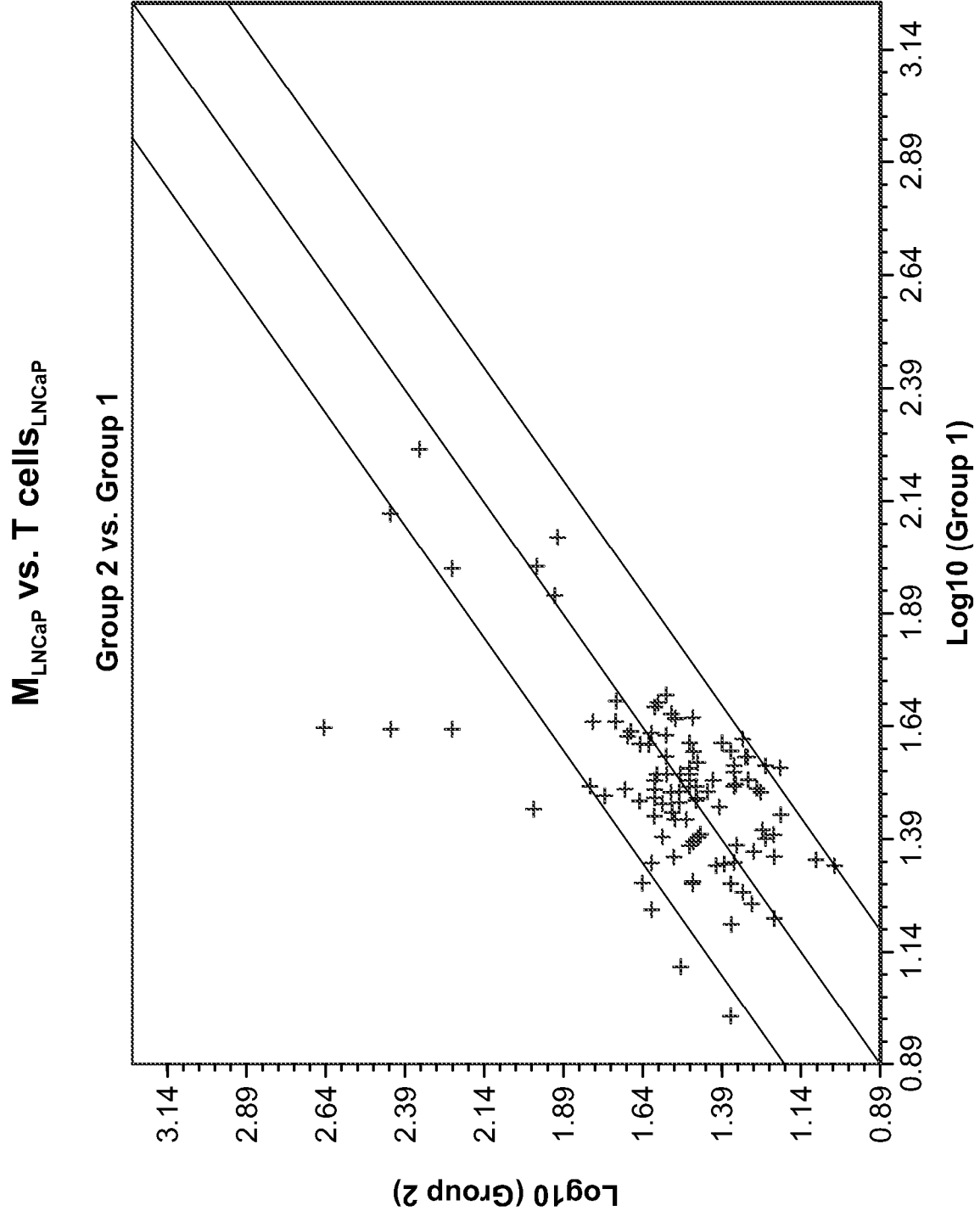


FIG. 24A

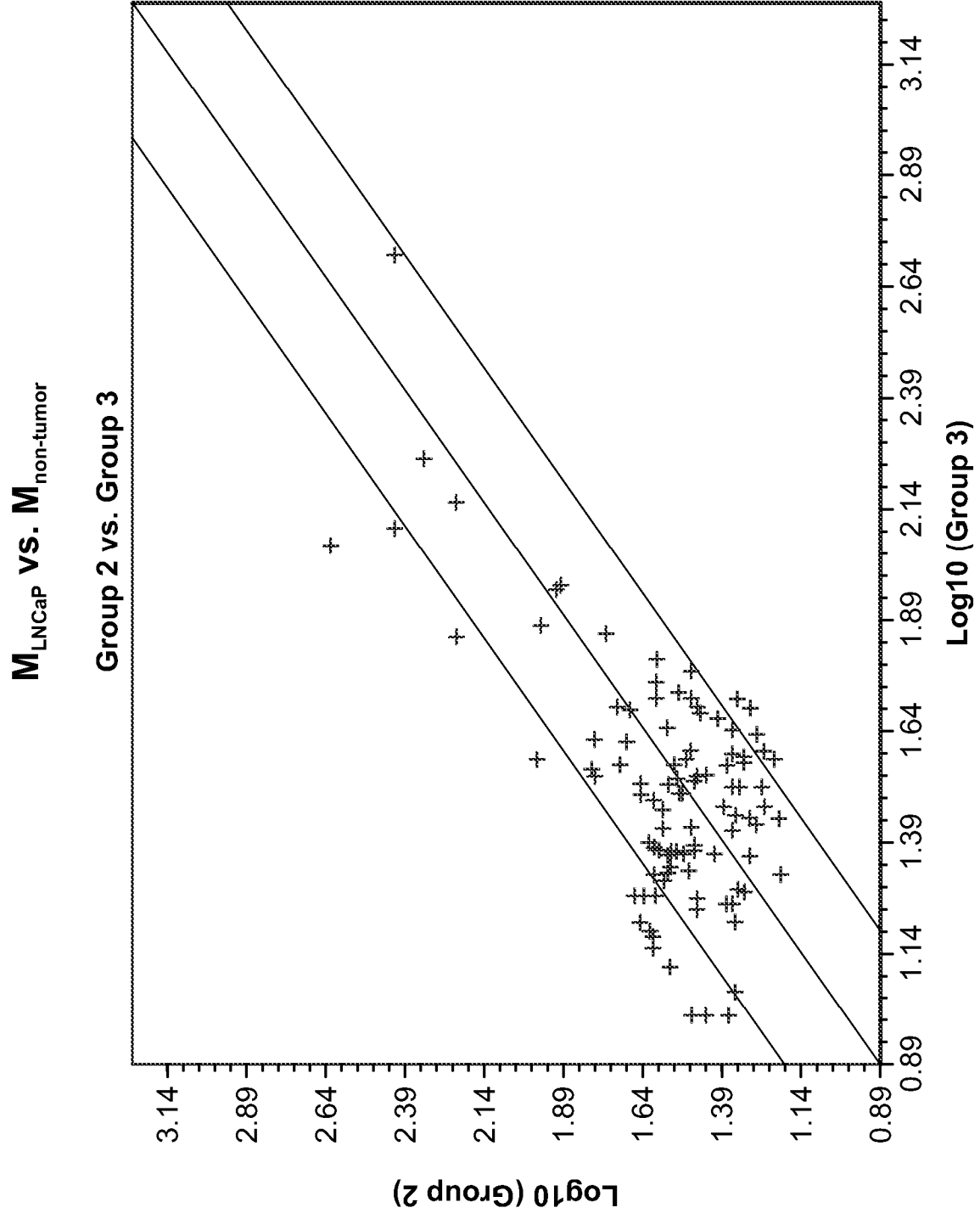


FIG. 24B

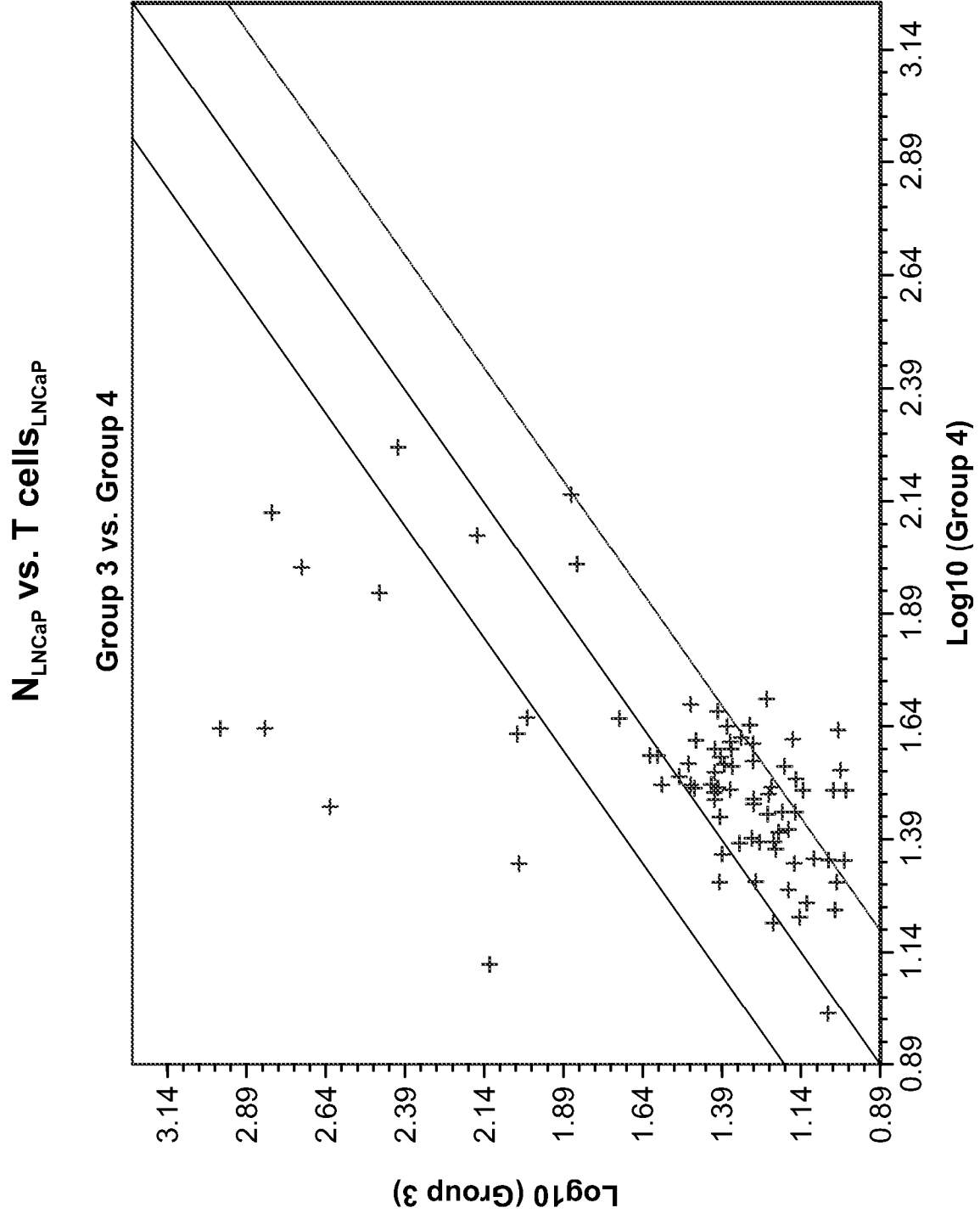


FIG. 24C

N_{LNCaP} vs. $M_{\text{non-tumor}}$

Group 3 vs. Group 1

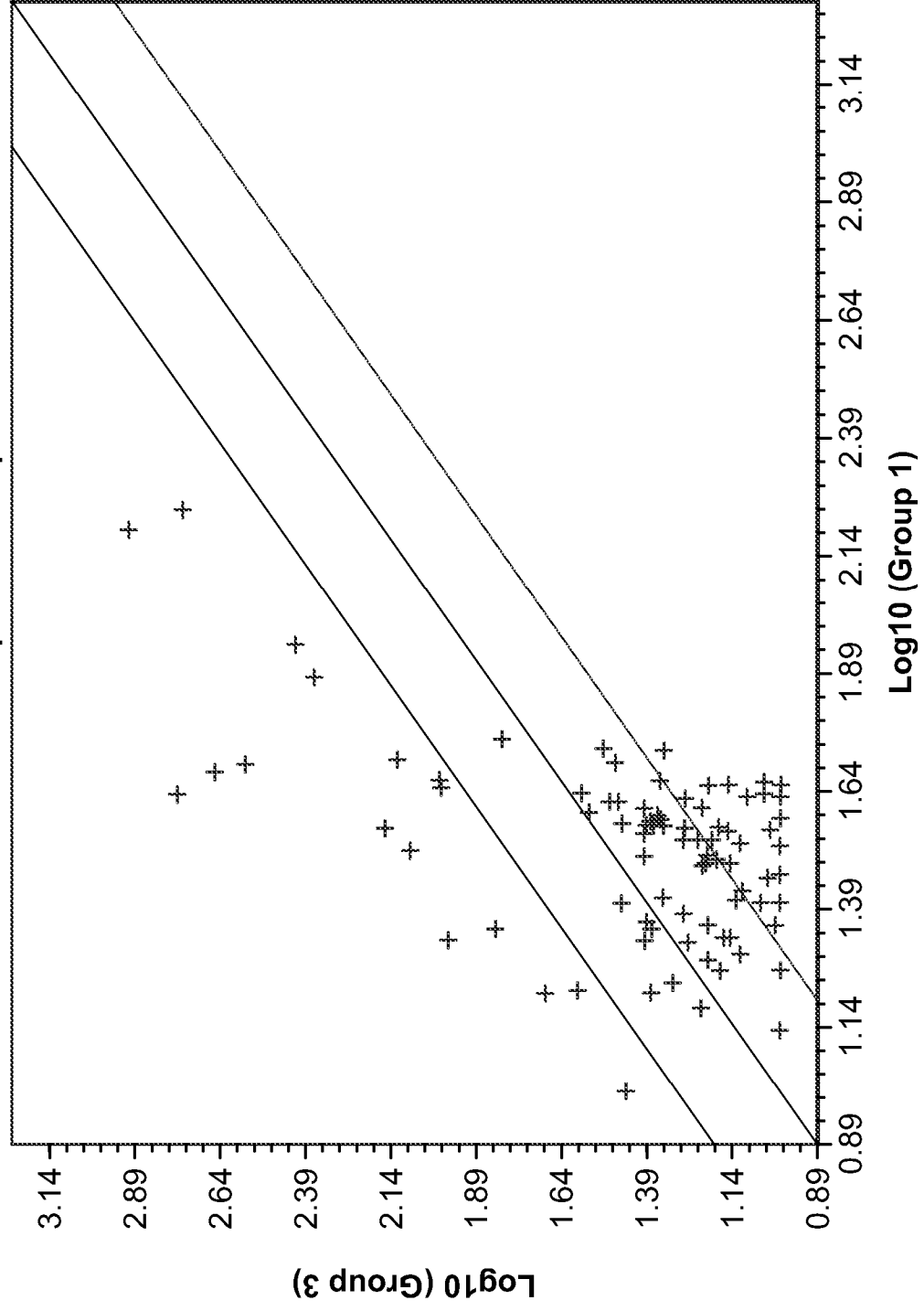


FIG. 24D

Table 5. Expression of cancer-related genes within phagocytic neutrophils (N) and macrophages (M)									
	Over-expressed Genes	LNCaP (human prostate Ca.) (nude mice)		LS174T (human colon Ca.) (nude mice)		B16F10 (mouse melanoma) (black mice)		LLC1 (mouse lung Ca.) (black mice)	
		M	N	M	N	M	N	M	N
	BAK1	-	-	-	-	+	+	-	-
	EGFR	-	-	+	+	-	-	-	-
	ERBB2	-	+	+	+	-	-	-	-
	FOS	-	-	-	+	-	-	-	-
	JUN	+	+	-	+	-	-	-	+
	MAP2K1	-	+	-	-	-	-	-	-
	Mdm2								+
	MMP2	-	+	-	-	-	-	-	-
	PDGFB	-	+	-	-	-	-	-	+
	Plaur								+
	RB1	-	+	-	-	-	-	+	-
	SNCG	+	+	-	-	-	-	-	-
	SERPINB2	+	-	+	-	-	-	-	-
	SPP1	-	-	-	-	-	+	+	+
Total	12	3	7	3	4	1	2	2	5
Gene overexpressed in phagocytes (M+N):		8		5		2		6	
Red = oncogenes; blue = tumor-specific genes; and black = tumor-related genes. □ = gene acquired/expressed simultaneously by M and N									

FIG. 25

Table 3. Upregulated (>2-fold) cancer-related genes in macrophages of ovarian cancer patient

Gene Symbol	Macrophages/T cells
AKT1*	4.62
APAF1	4.95
ATM	5.26
CDC25A	2.01
CDKN1A	4.57
ETS2	3.47
FOS	6.49
IL8	3.62
ITGA4	6.58
ITGA6	3.53
ITGAV	2.50
JUN	3.01
MAP2K1	3.09
NFKBIA	2.77
PLAU	2.13
PLAUR	38.79
RAF1	8.13
SERPINB2	5.37
SYK	20.81
TIMP1	2.04
TNF	3.75
TNFRSF10B	3.67
TNFRSF1A	6.96

* = oncogene

FIG. 26

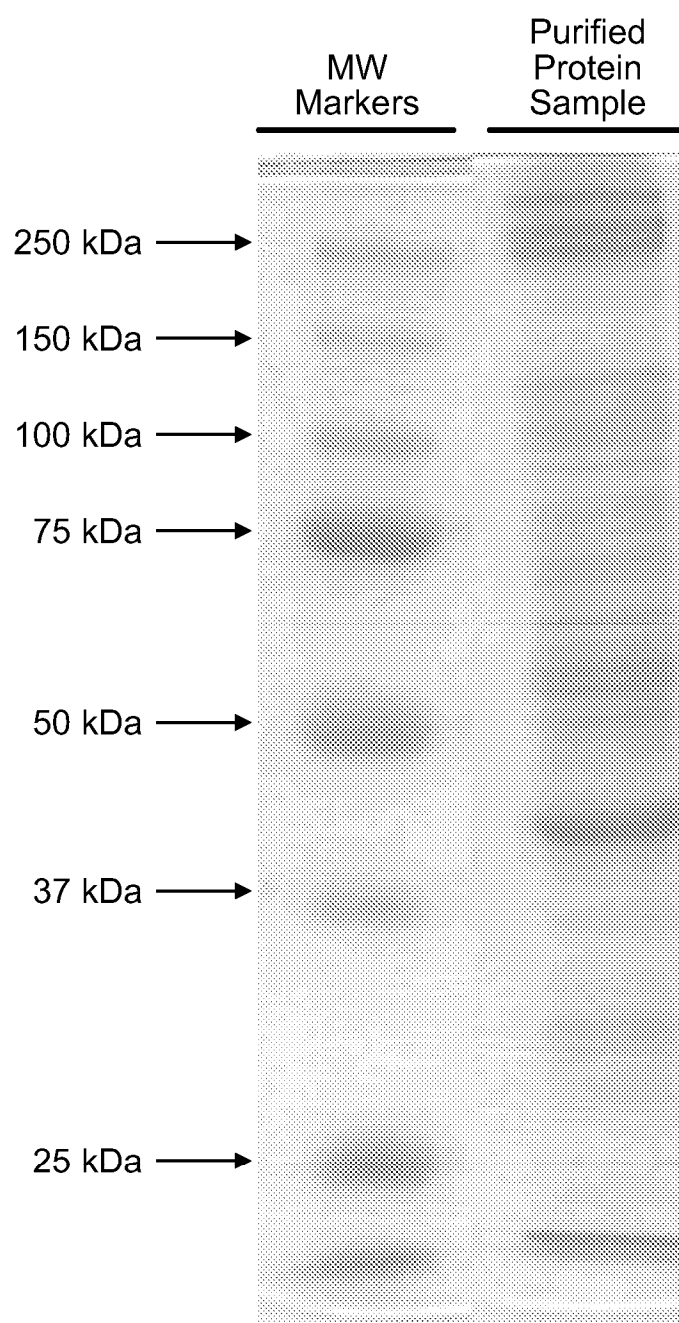


FIG. 27

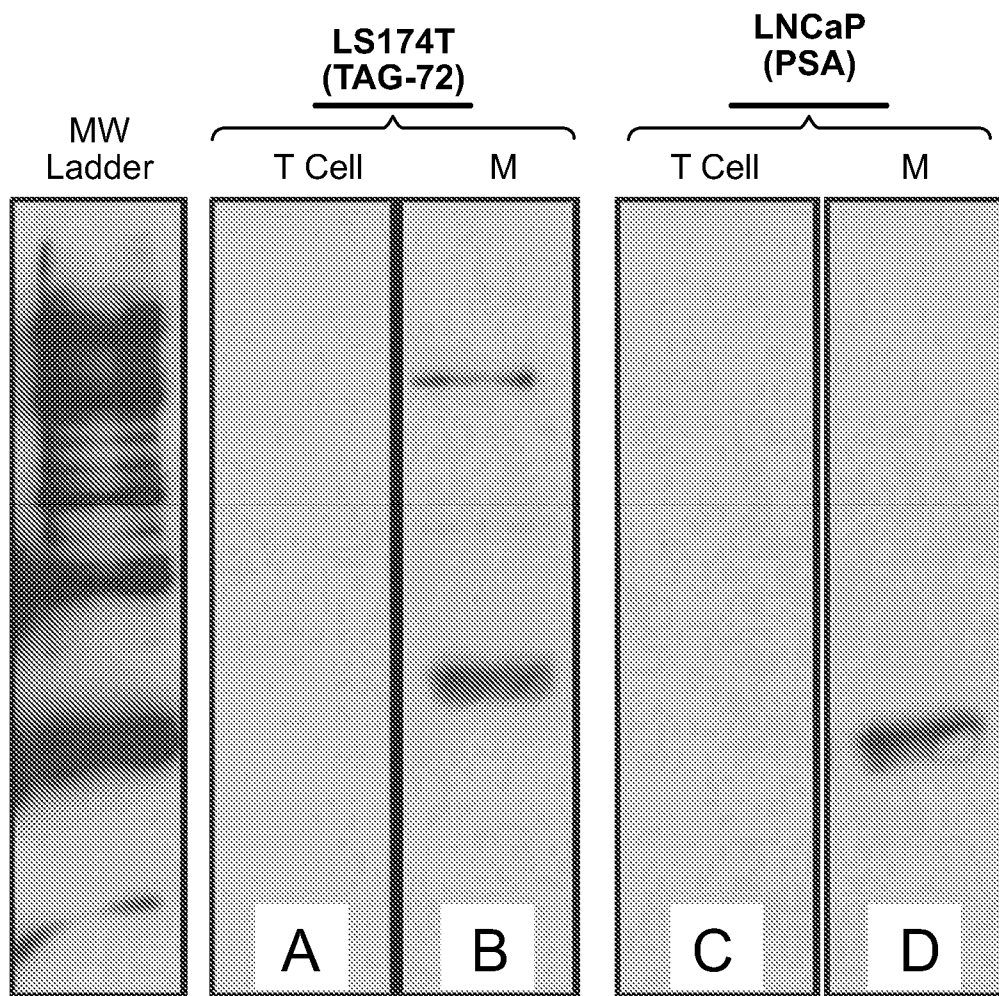


FIG. 28