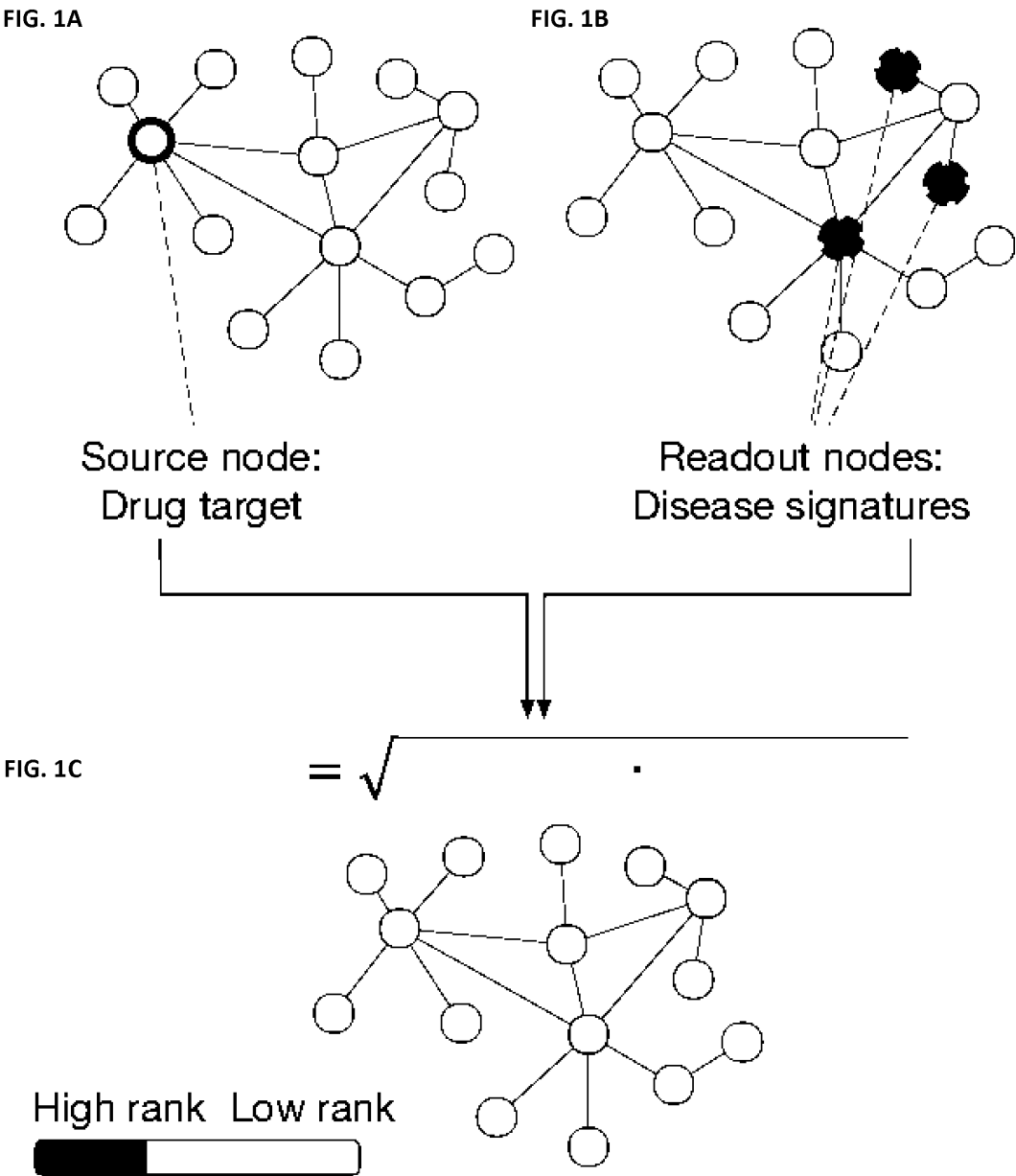


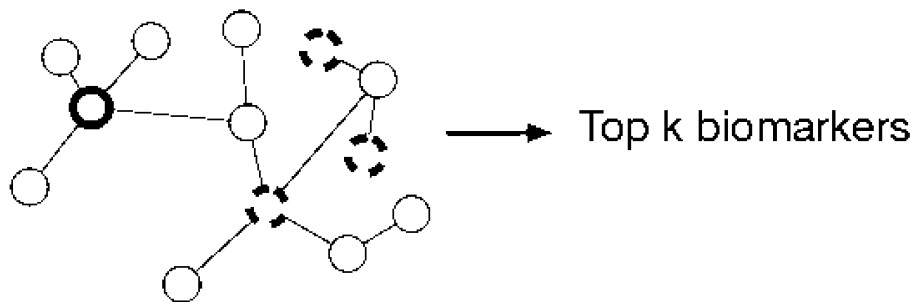
Biomarker Discovery Framework



Implementation

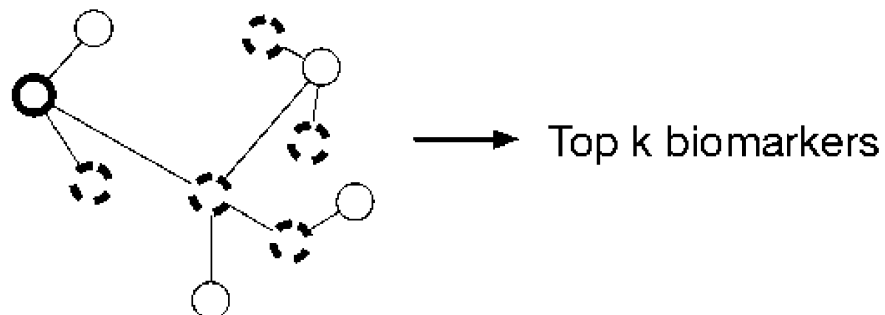
Rheumatoid Arthritis & TNF inhibitor

FIG. 1D



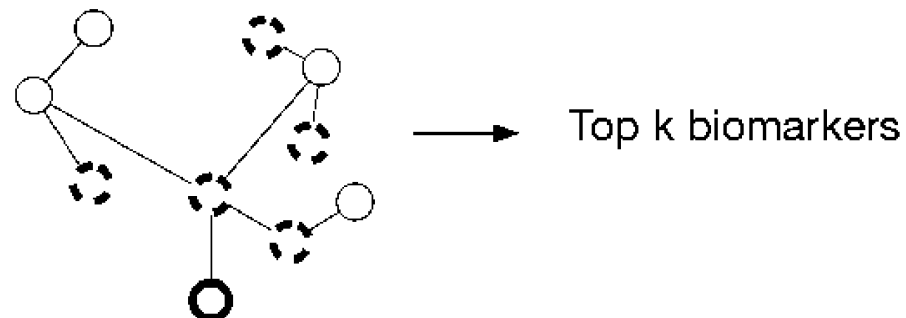
Ulcerative colitis & TNF inhibitor

FIG. 1E



Ulcerative colitis & ERK1/2 inhibitor

FIG. 1F



Validation

Supervised classification

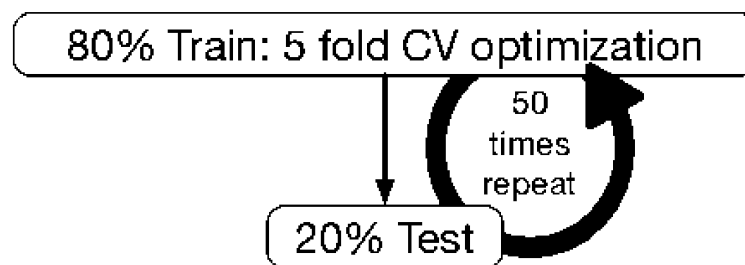


FIG. 1G

Unsupervised clustering

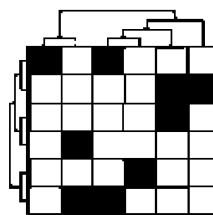


FIG. 1H

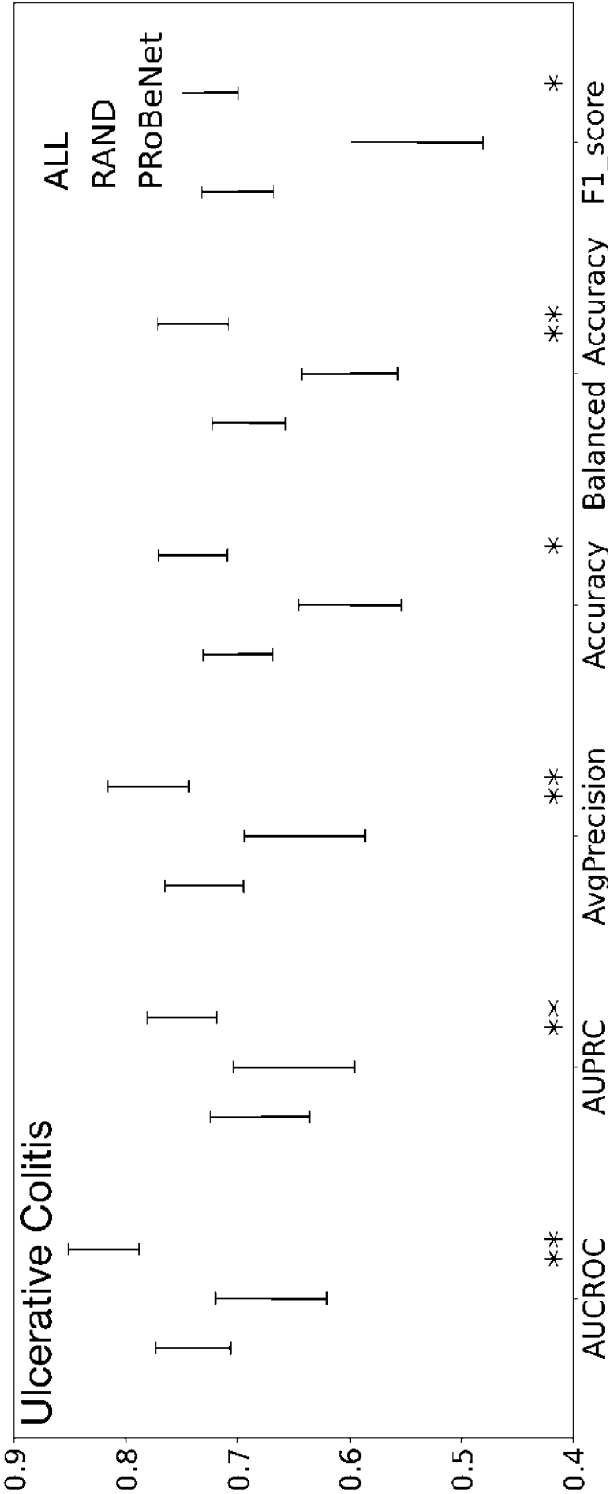


FIG. 2A

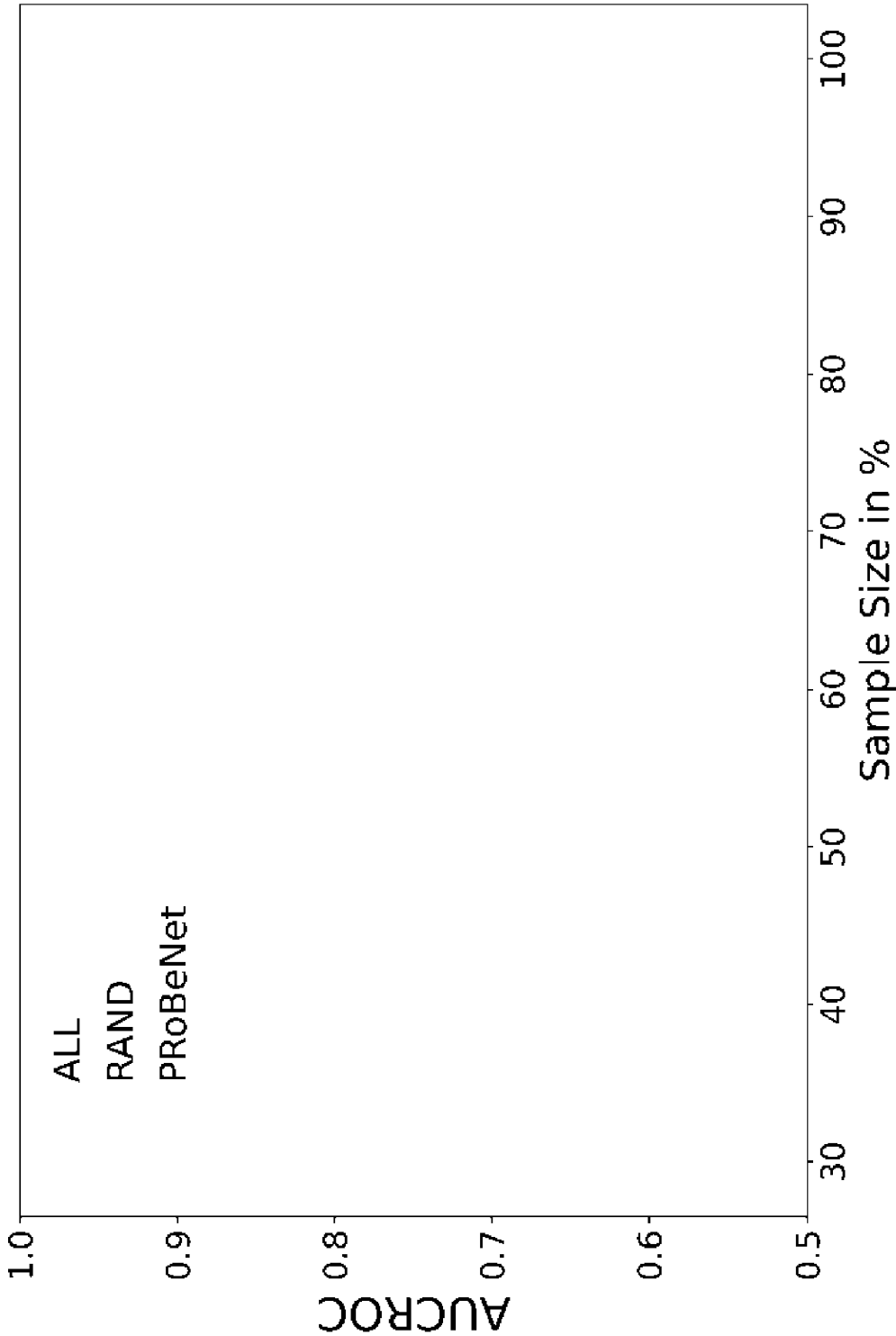


FIG. 2B

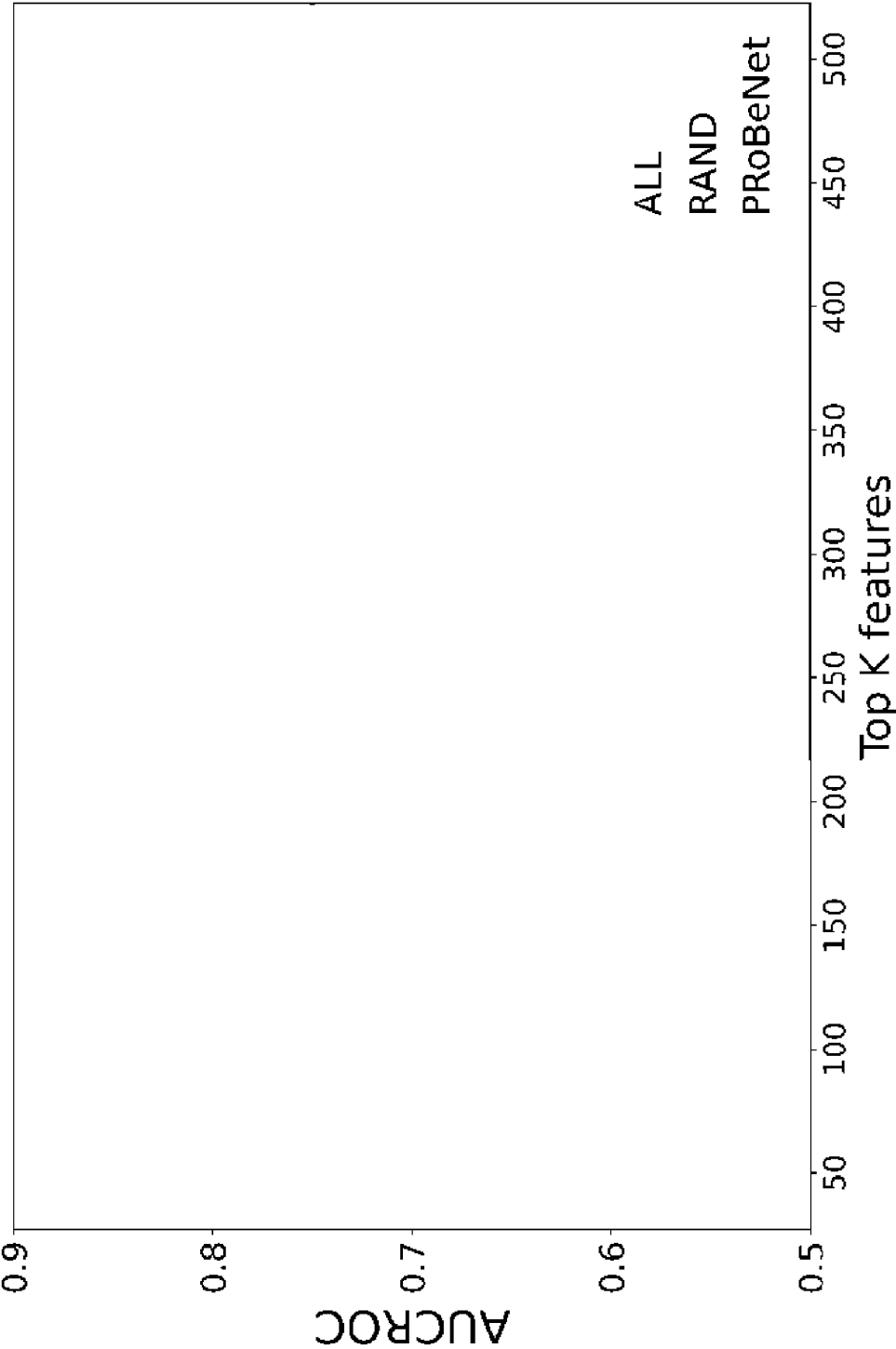


FIG. 2C

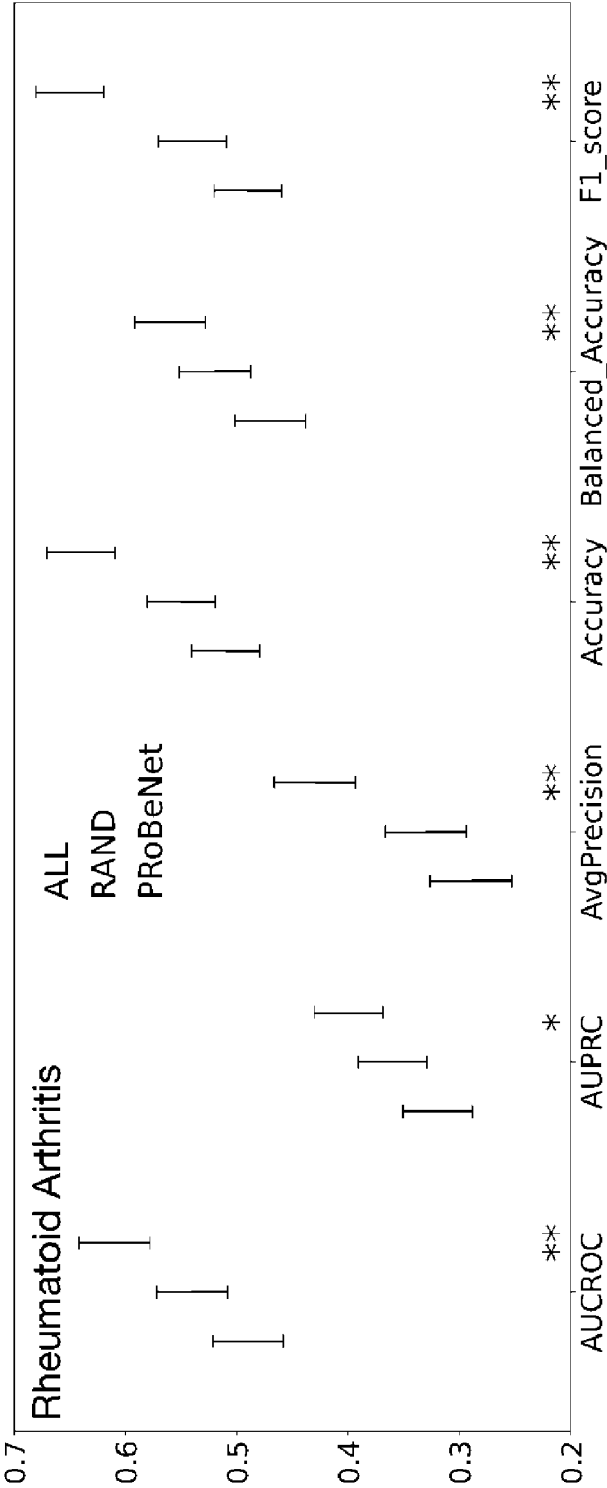


FIG. 3A

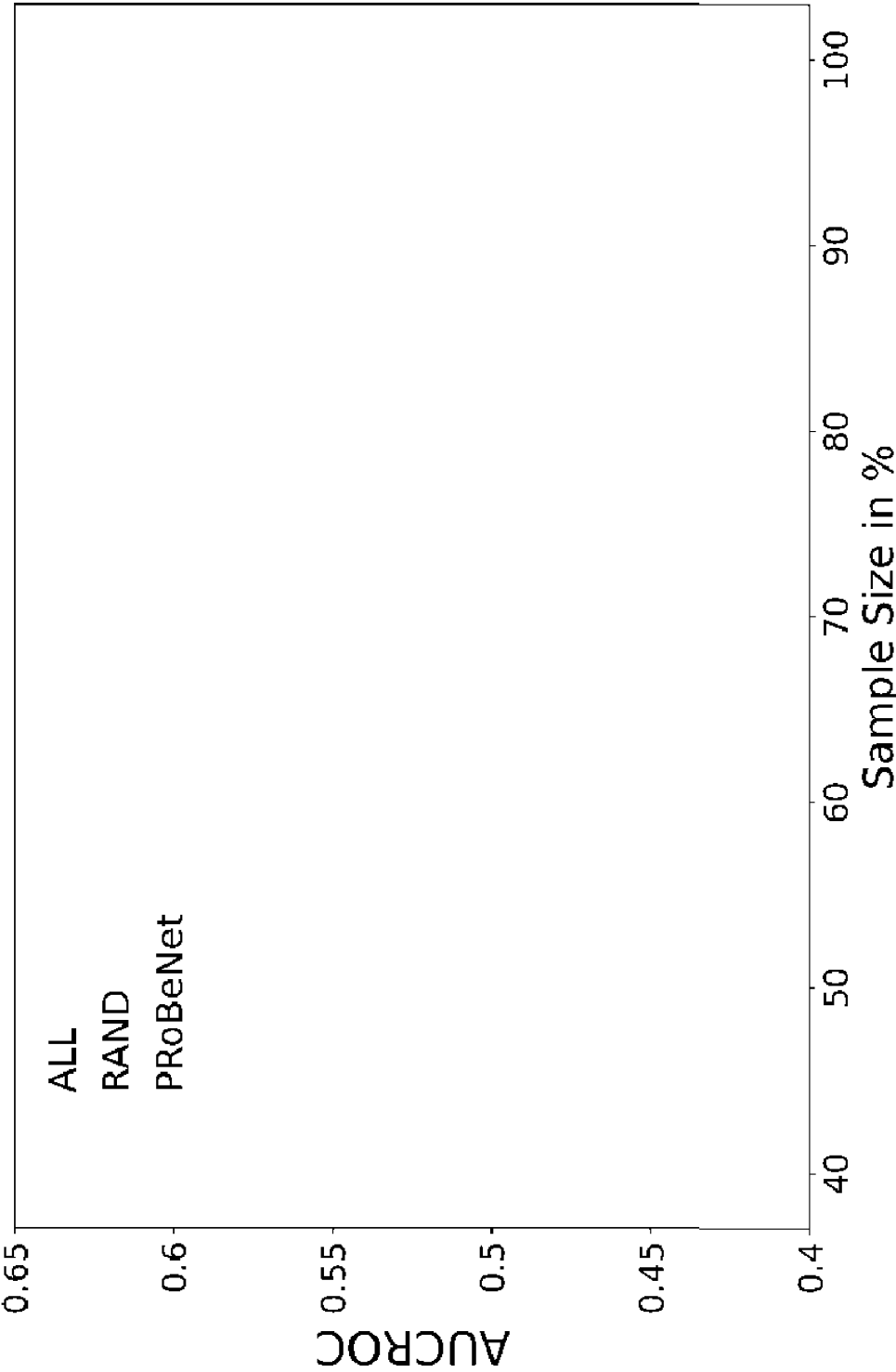


FIG. 3B

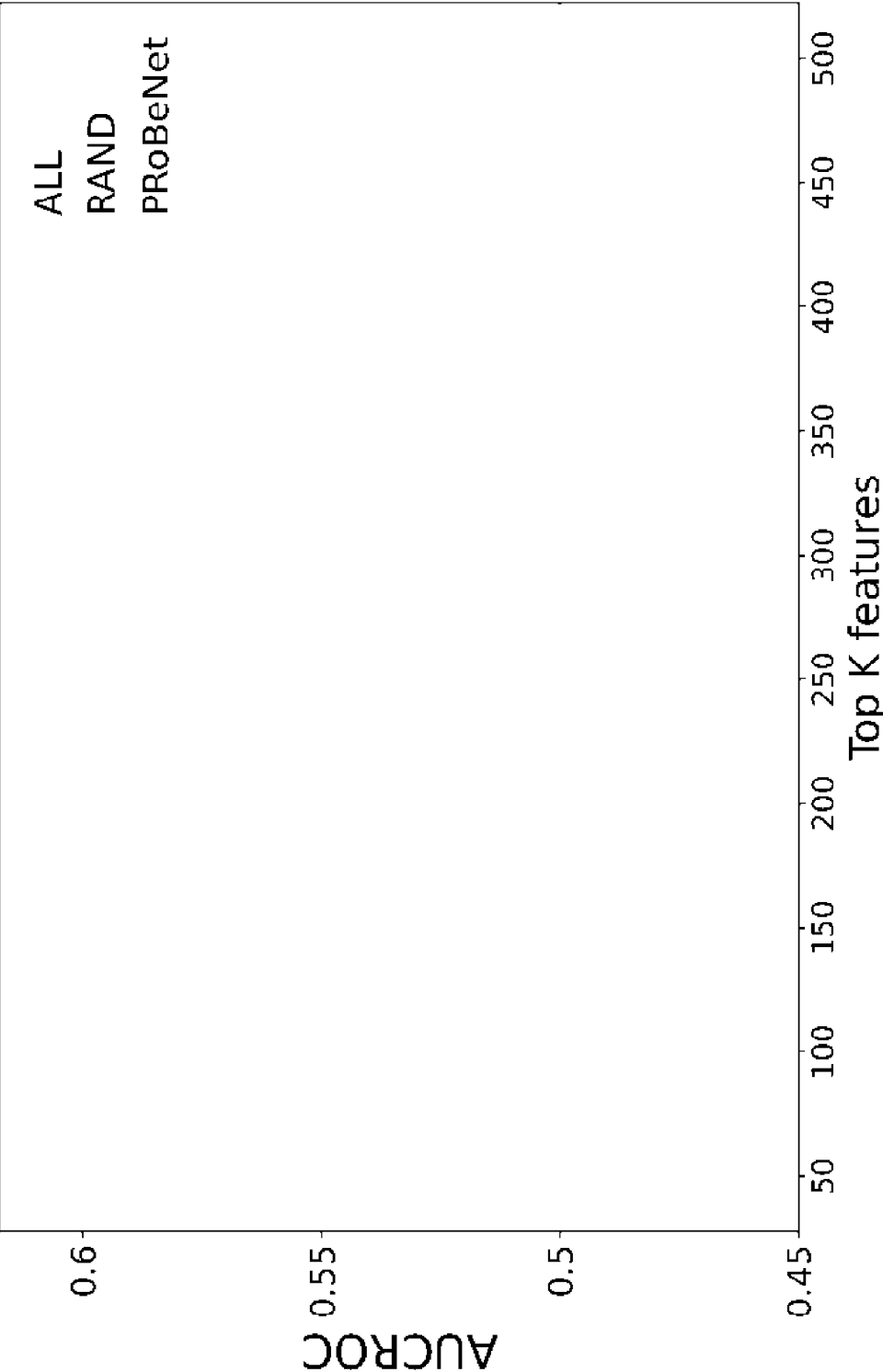


FIG. 3C

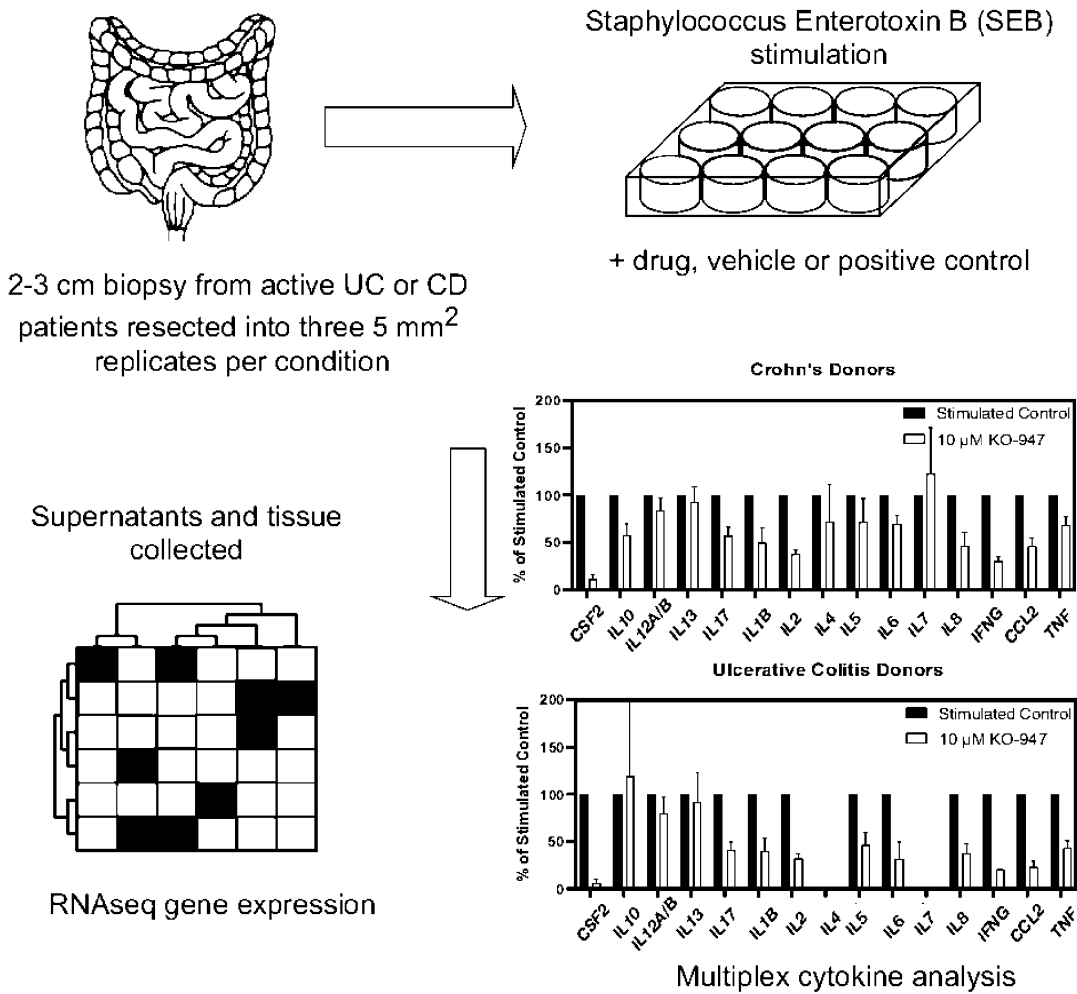


FIG. 4A

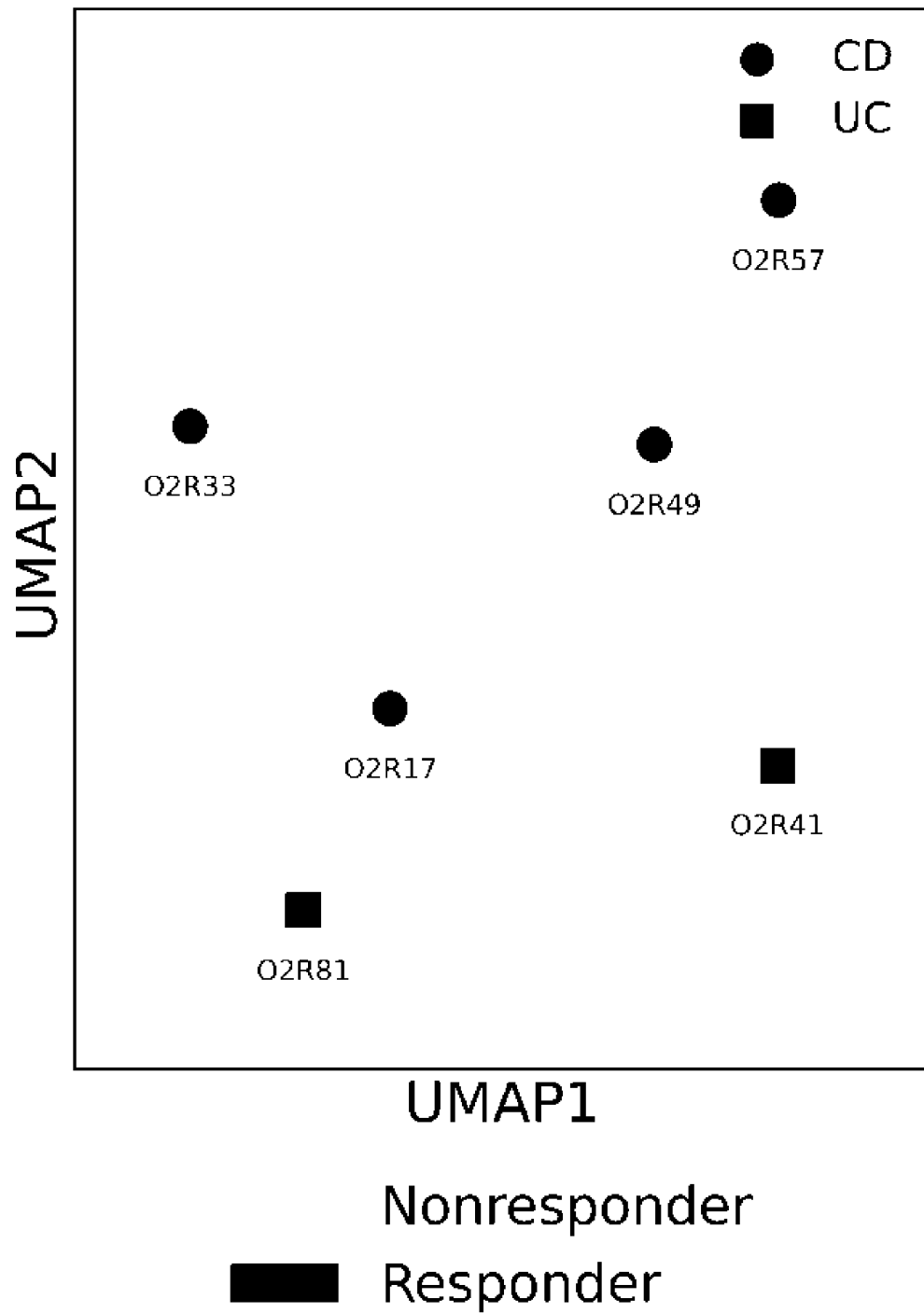


FIG. 4B

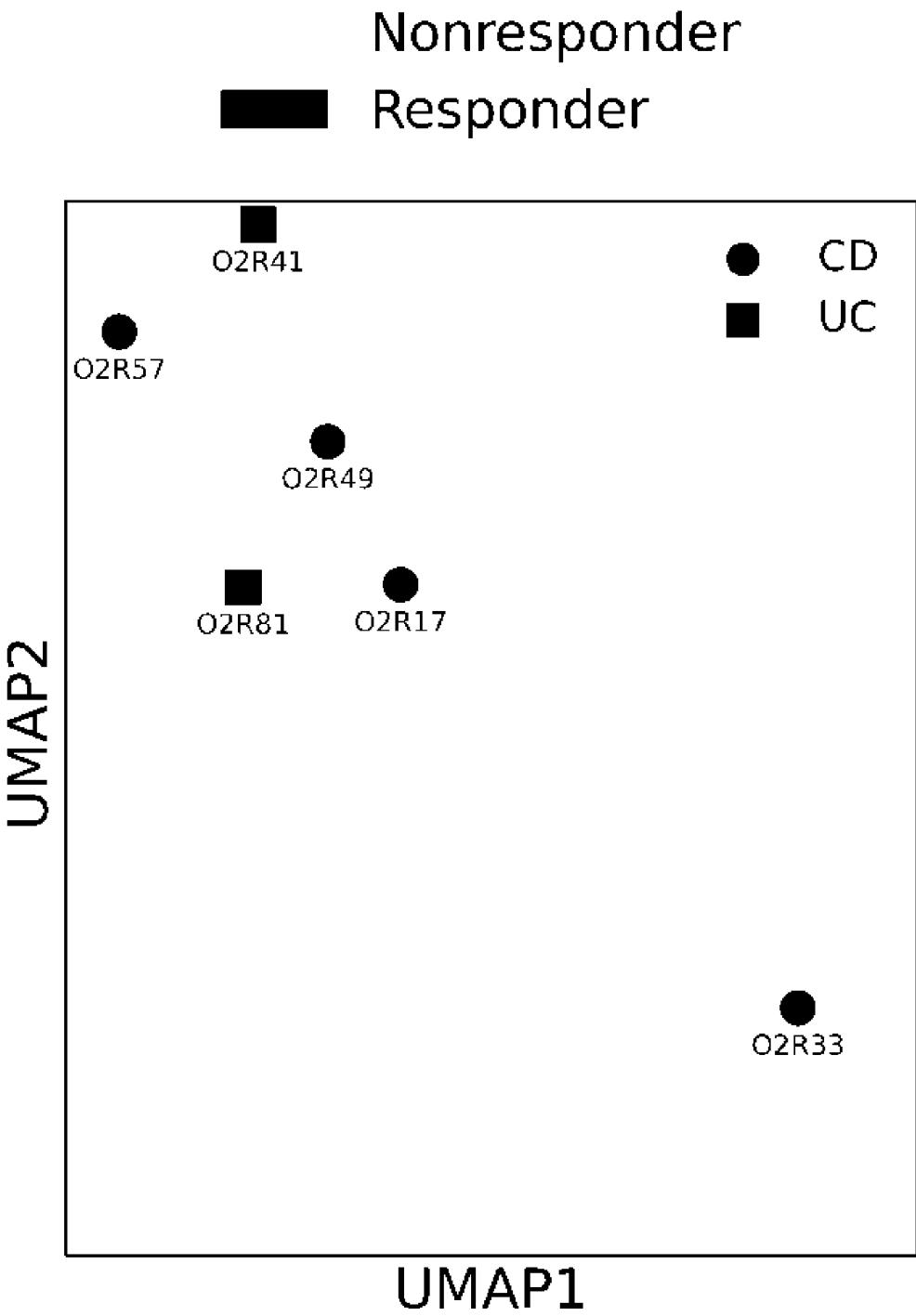


FIG. 4C

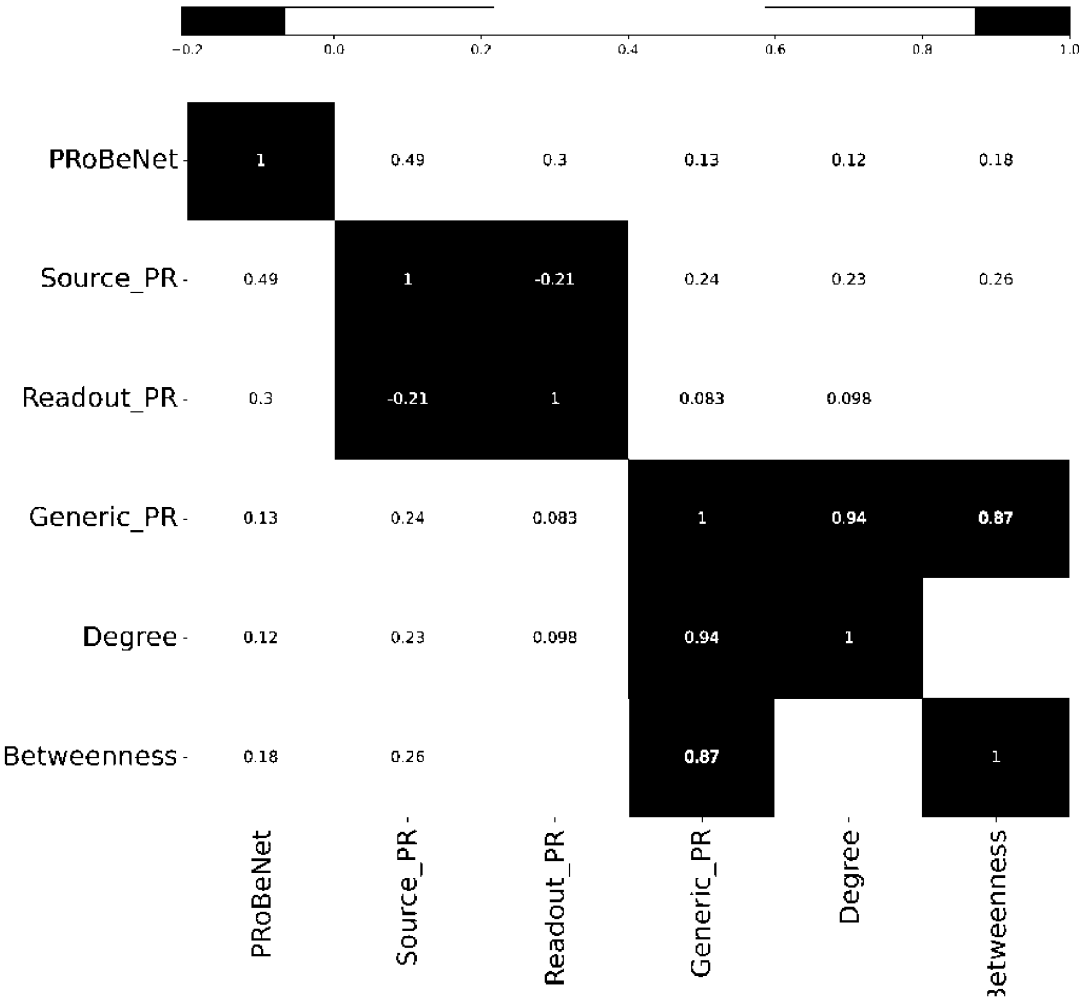


FIG. 5A

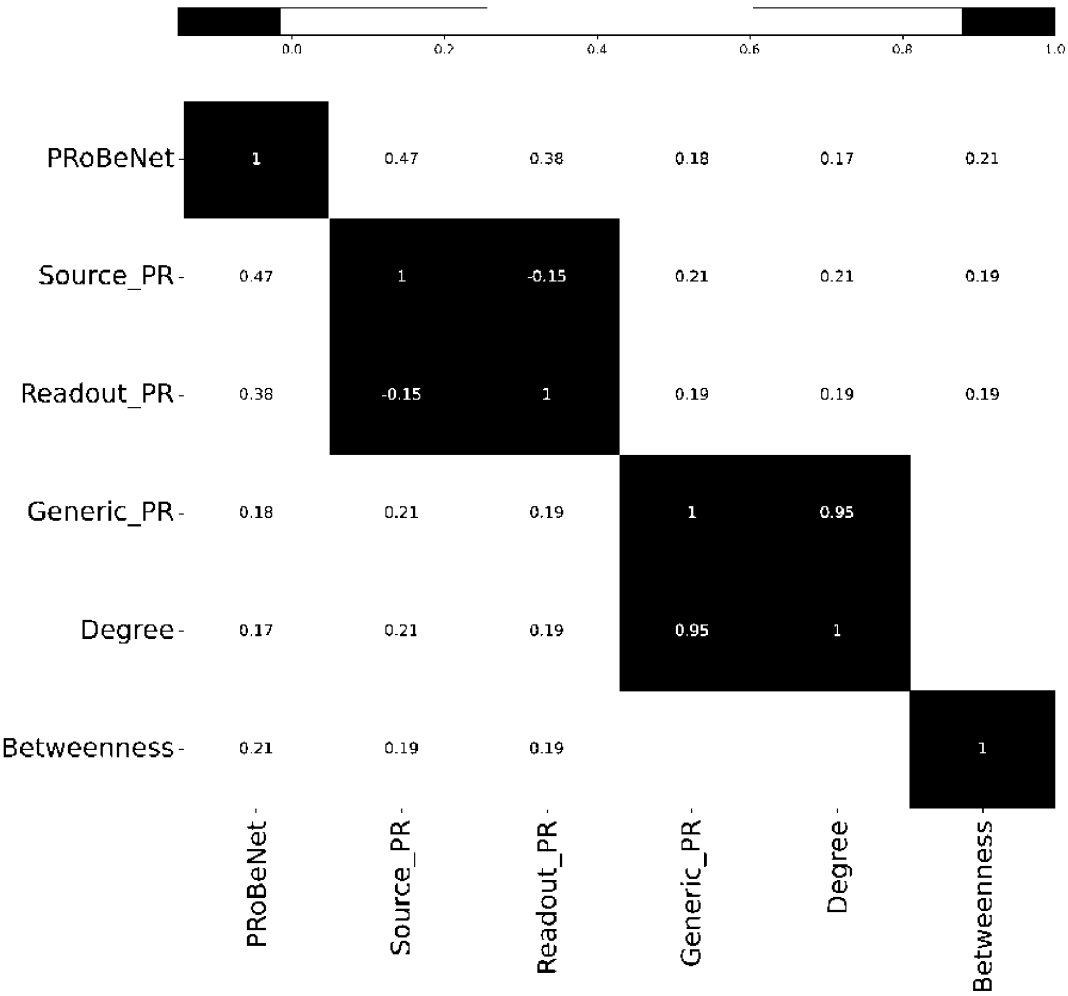


FIG. 5B

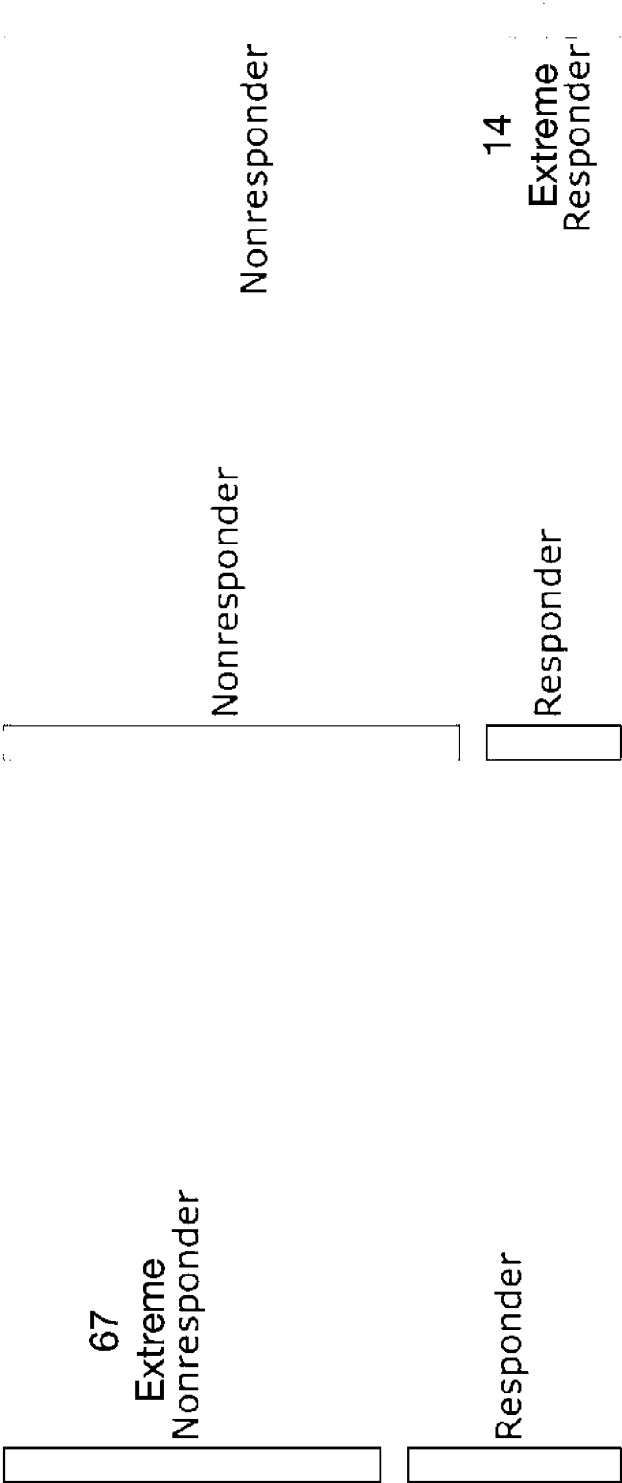


FIG. 6A

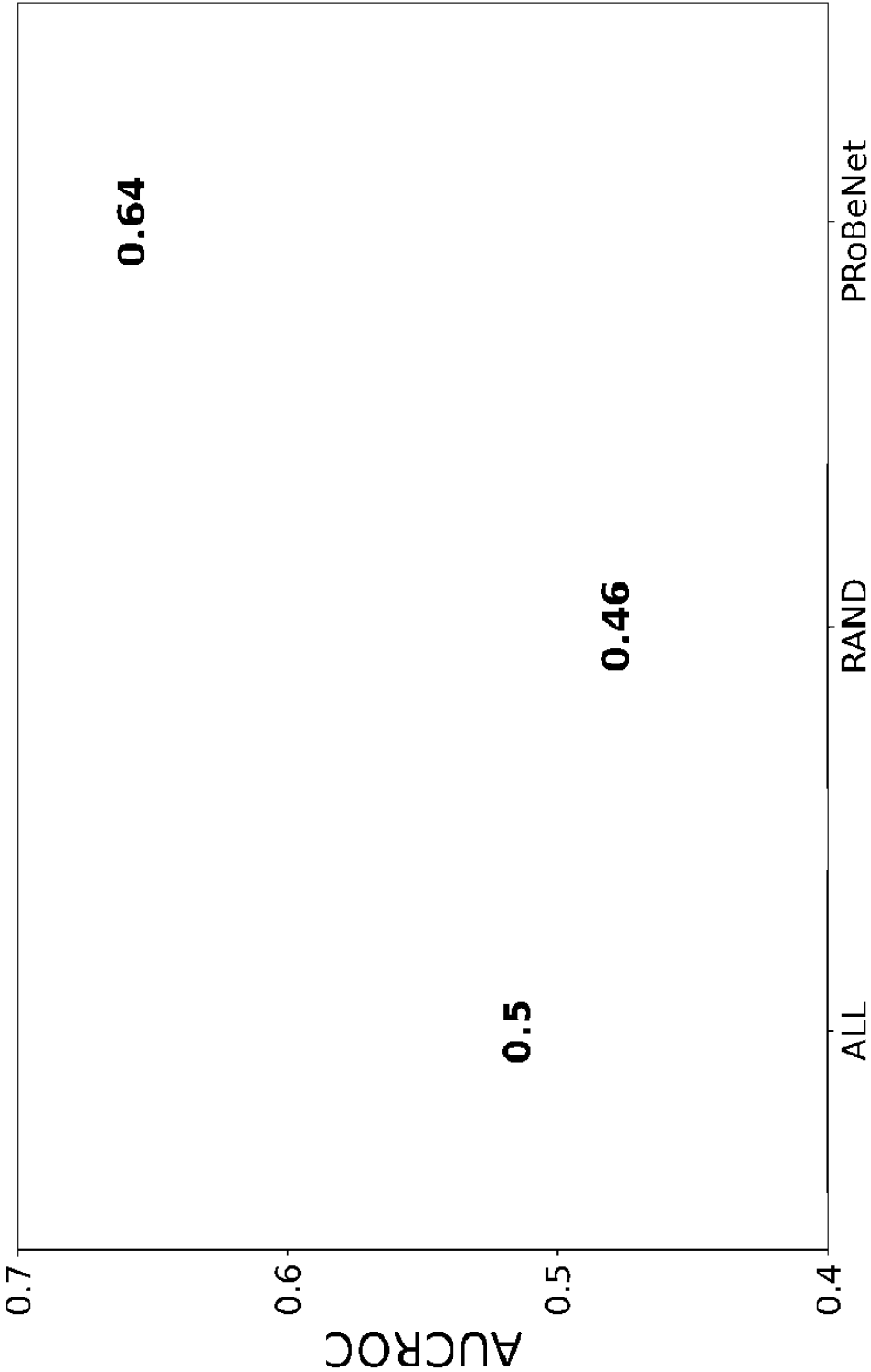


FIG. 6B

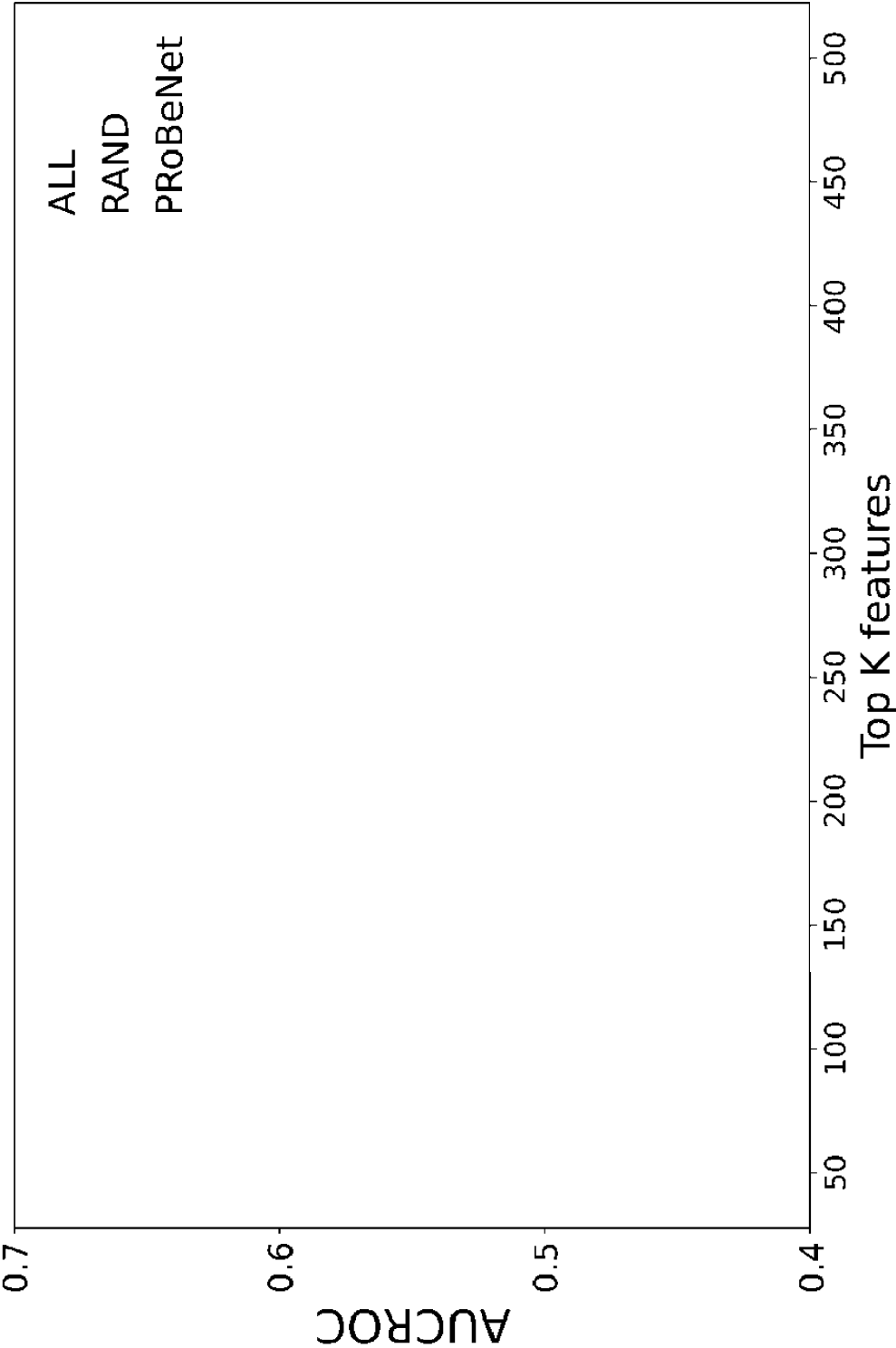


FIG. 6C

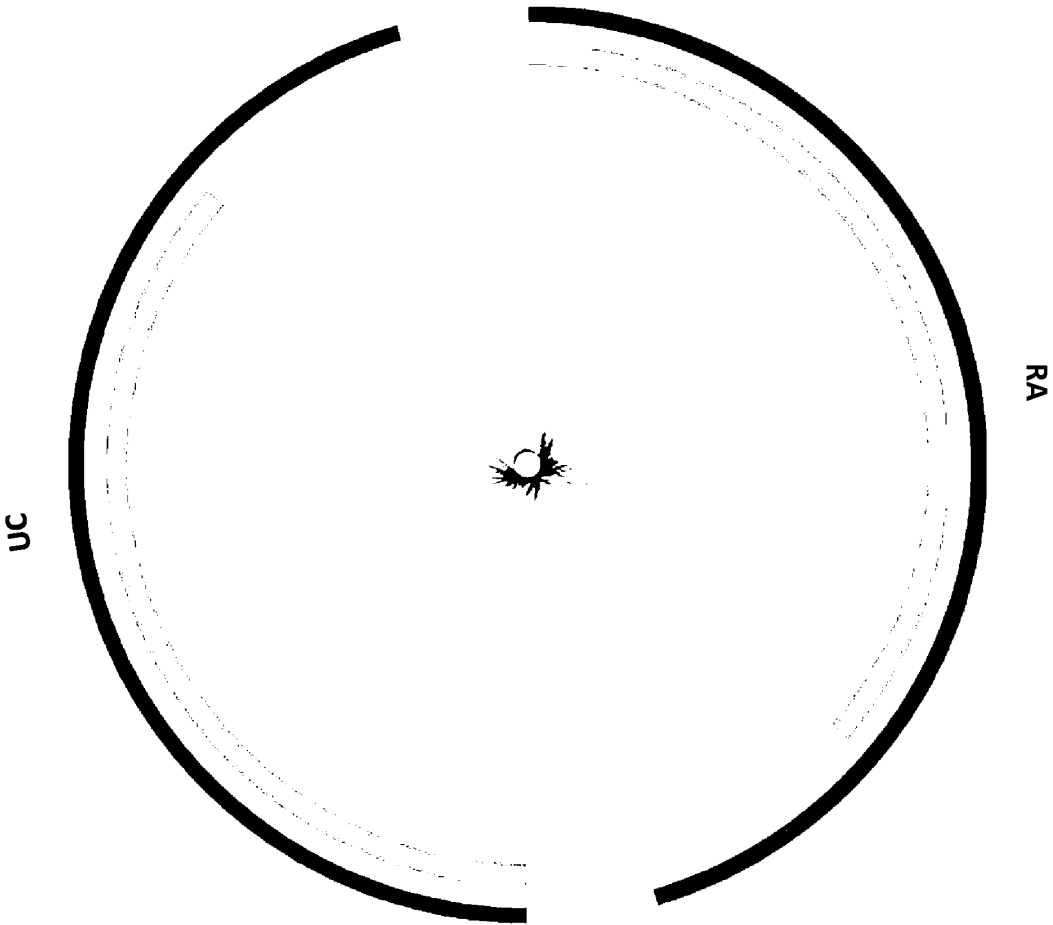


FIG. 7A

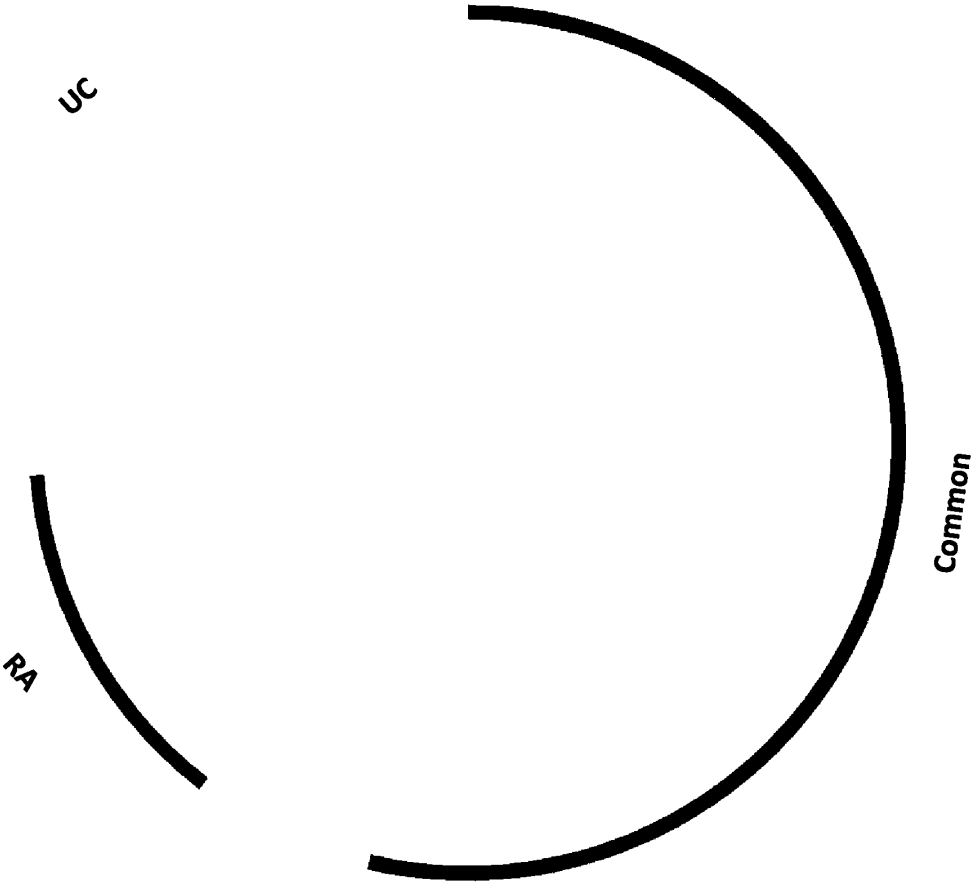


FIG. 7B

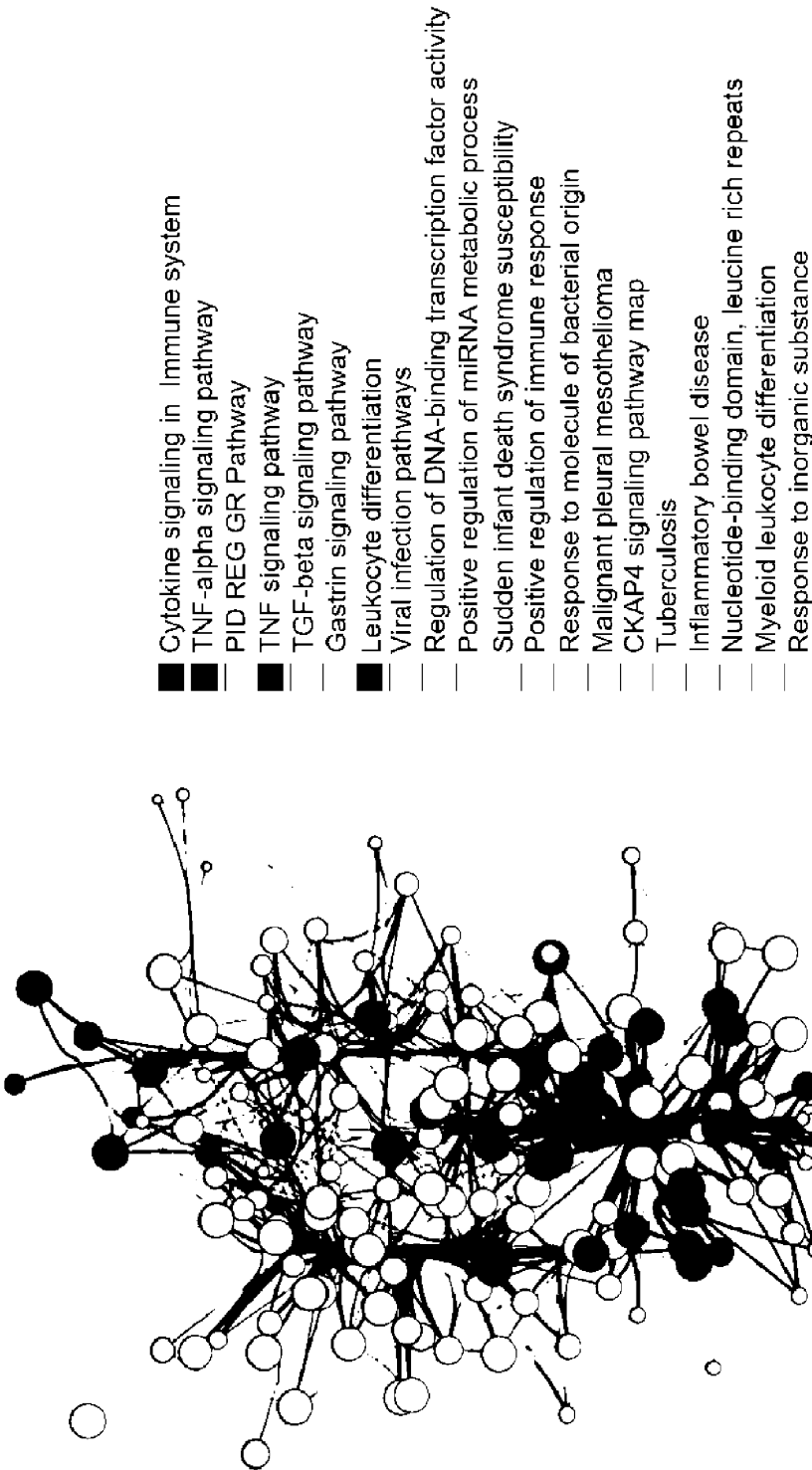


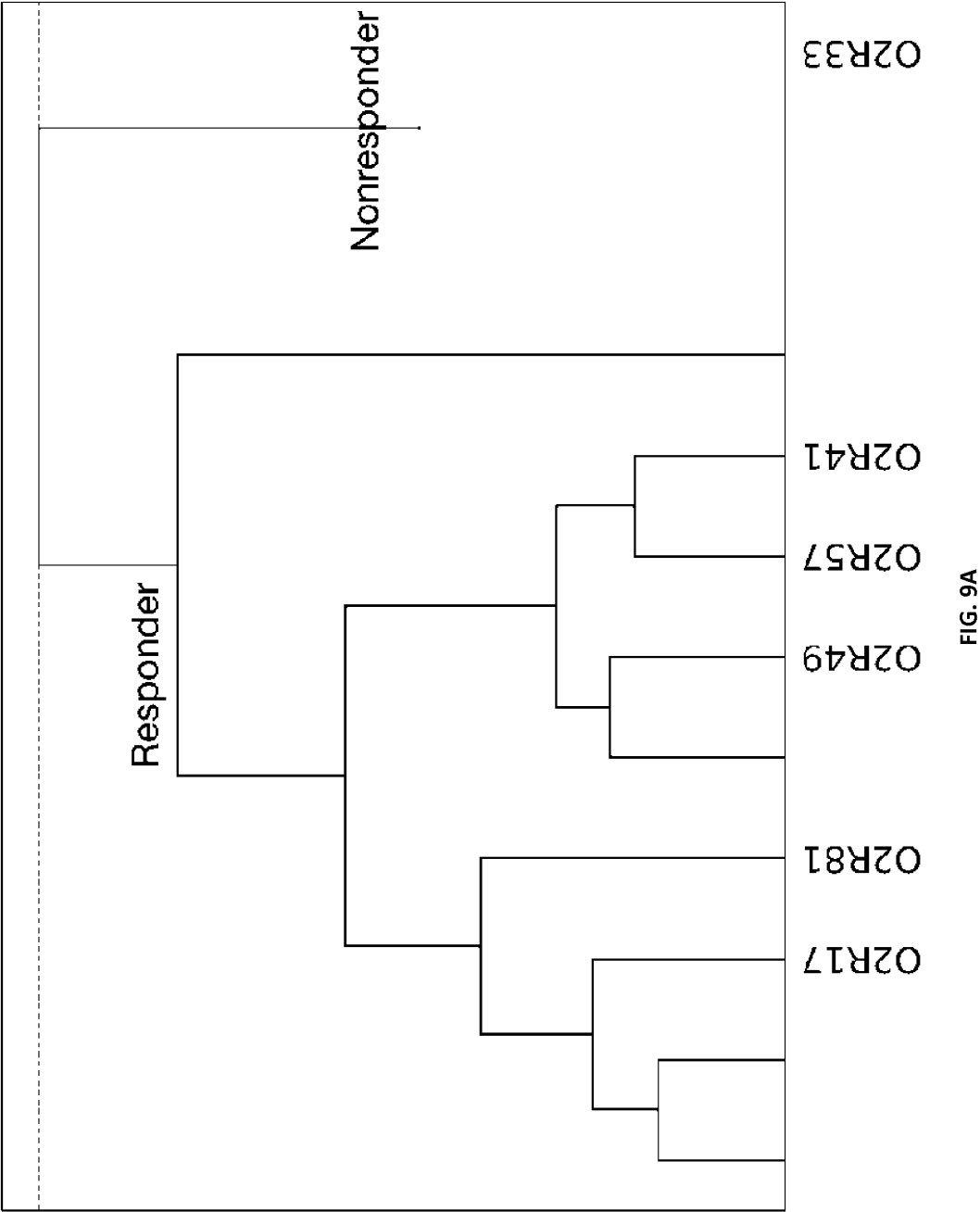
FIG. 7C

List of cytokines related to UC and RA disease signatures.

UC cytokines	RA cytokines	UC and CD cytokines (tissue-derived samples)
CCL2	CSF2	GM-CSF
CSF2	CXCL8	IL10
CXCL8	IFNG	IFNG
IFNG	IL10	IL13
IL10	IL12A	IL17A
IL12A	IL12B	IL1B
IL13	IL15	IL2
IL17A	IL16	IL4
IL1B	IL17A	IL5
IL21	IL18	IL6
IL22	IL1B	IL7
IL23A	IL4	IL8
IL27	IL6	CCL2
IL4	MIF	TNF
IL5	TGFB1	IL-12A/B
IL6	TGFB2	
IL7	TGFB3	
TGFB1	TNF	
TNF		

Abbreviations: ulcerative colitis, UC; rheumatoid arthritis, RA; Crohn’s disease, CD.

FIG. 8



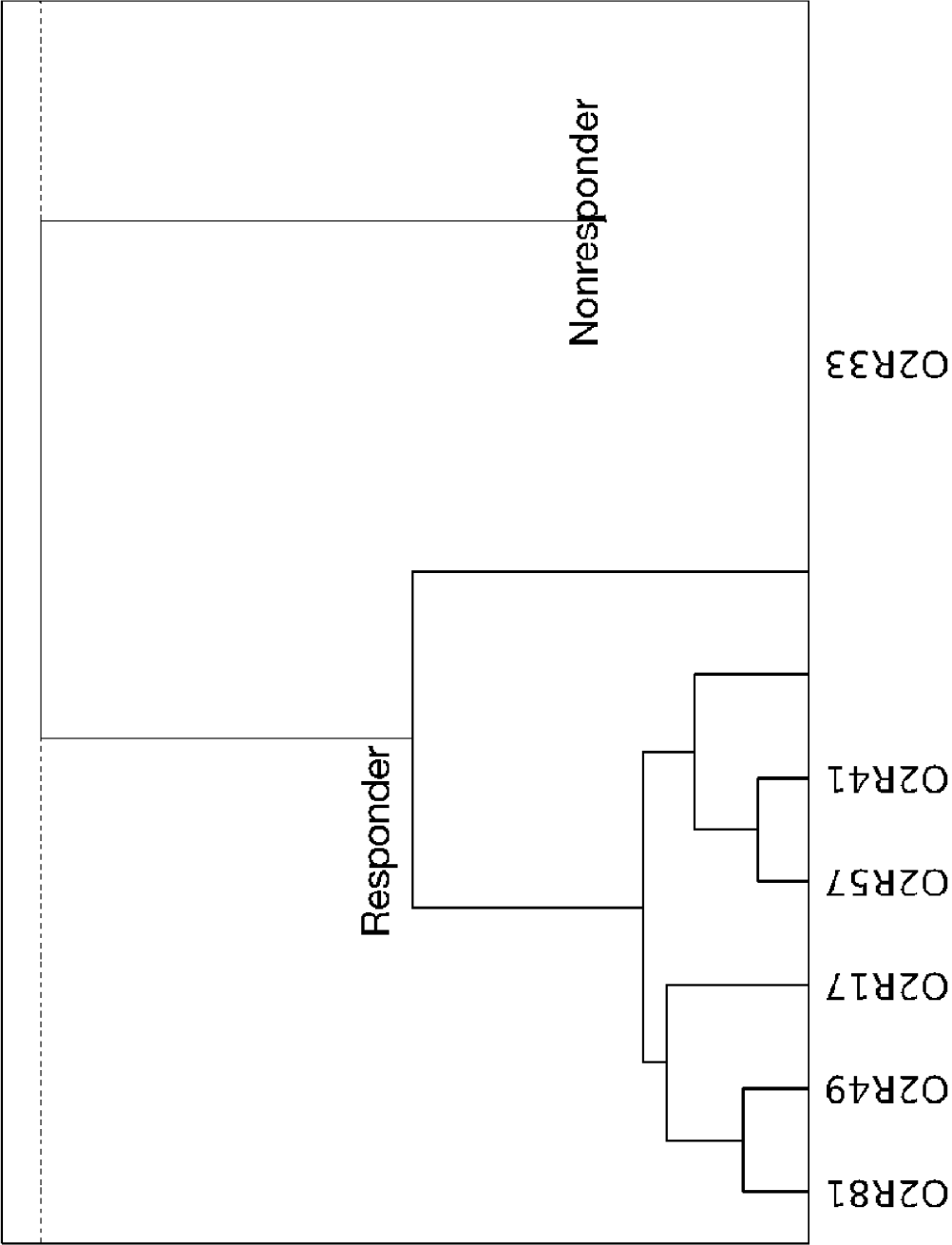


FIG. 9B

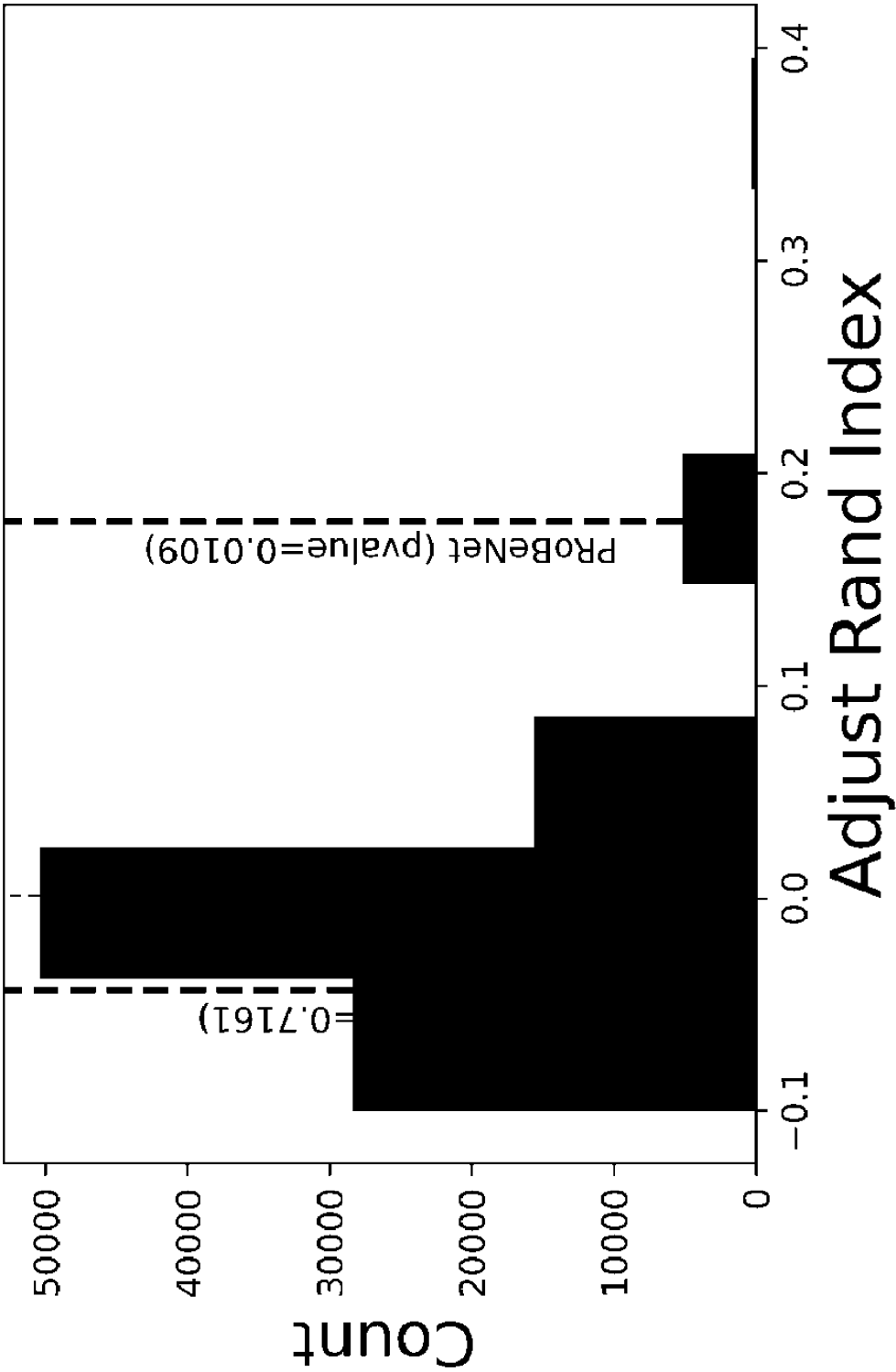


FIG. 10

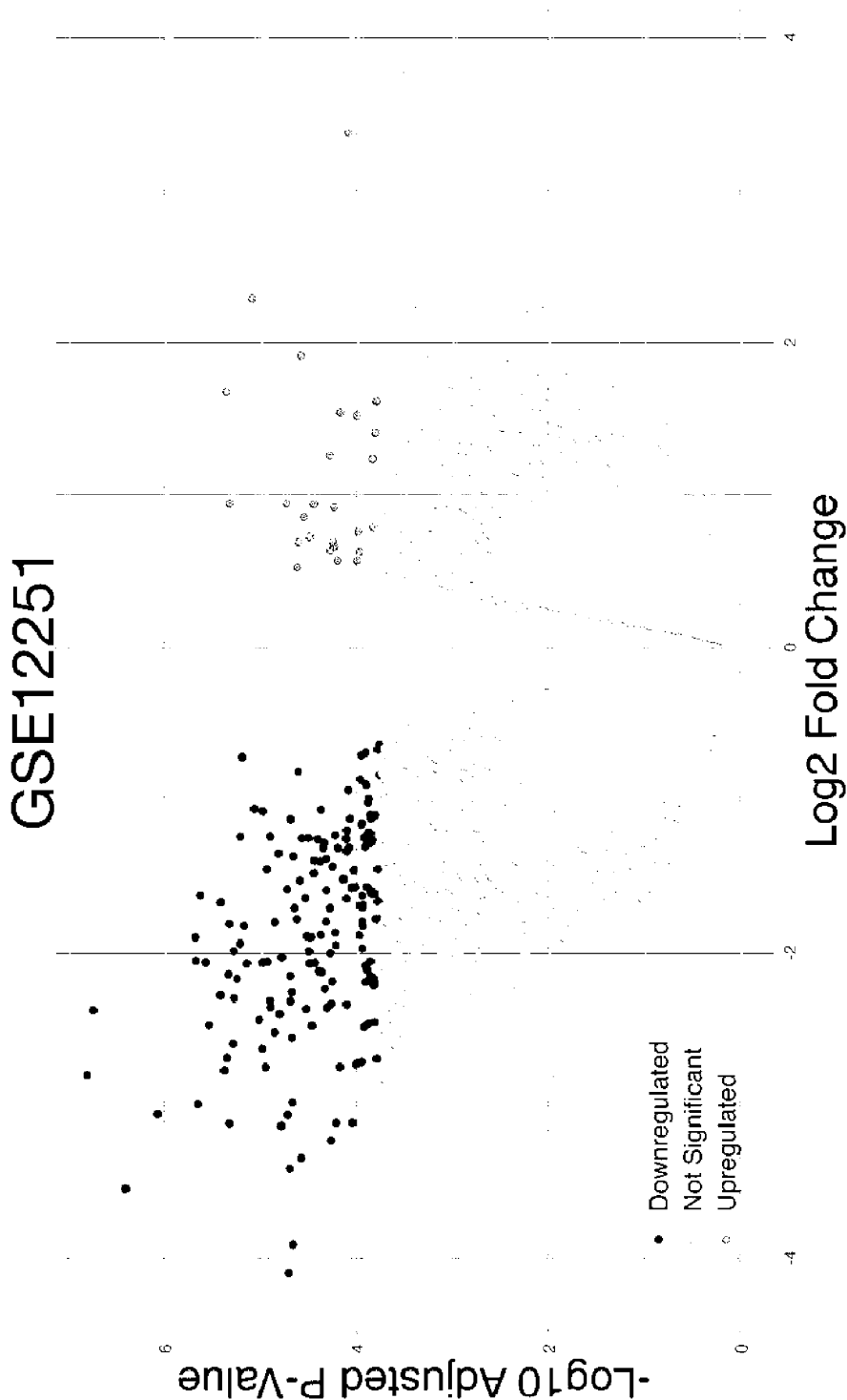
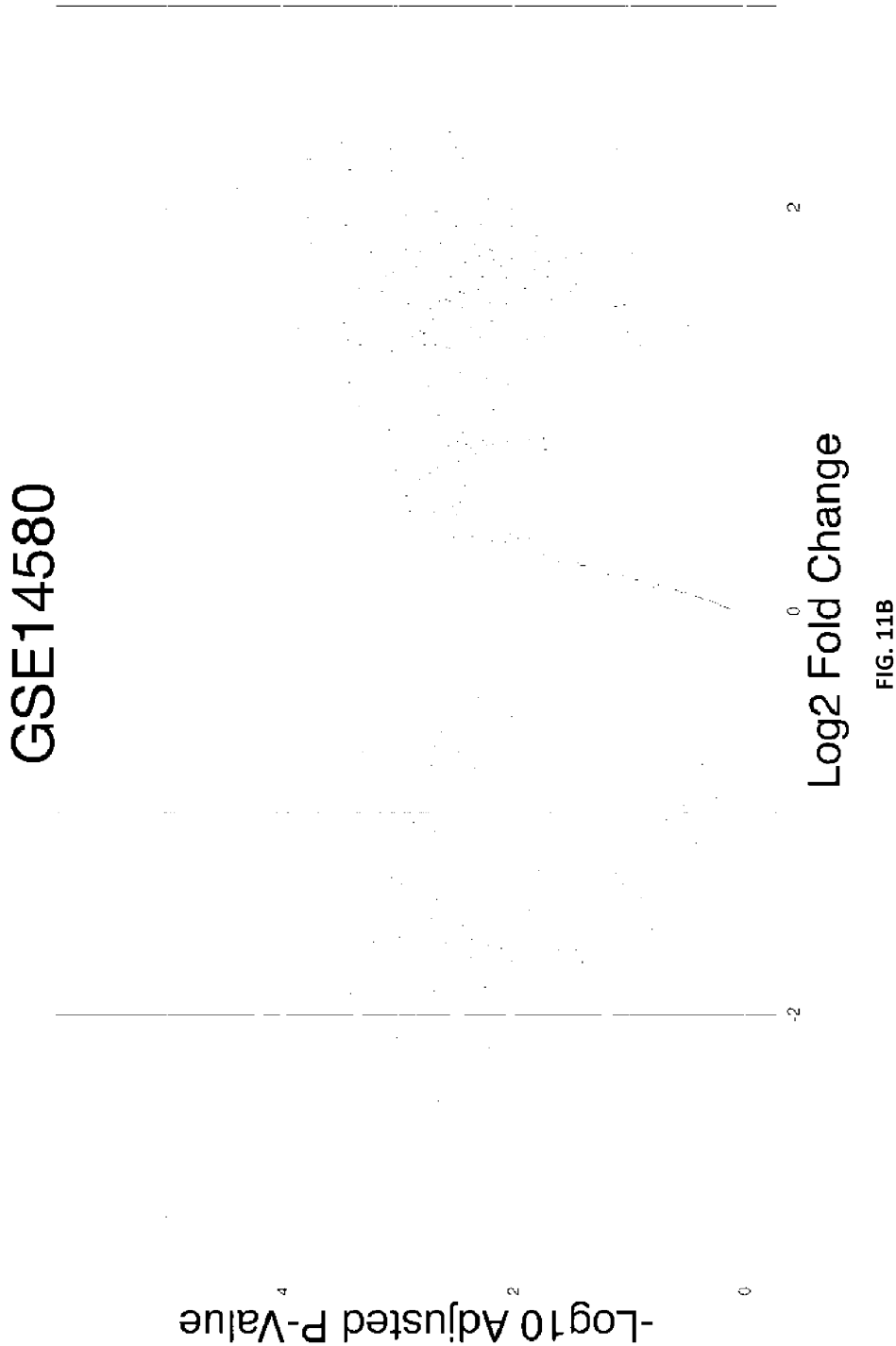
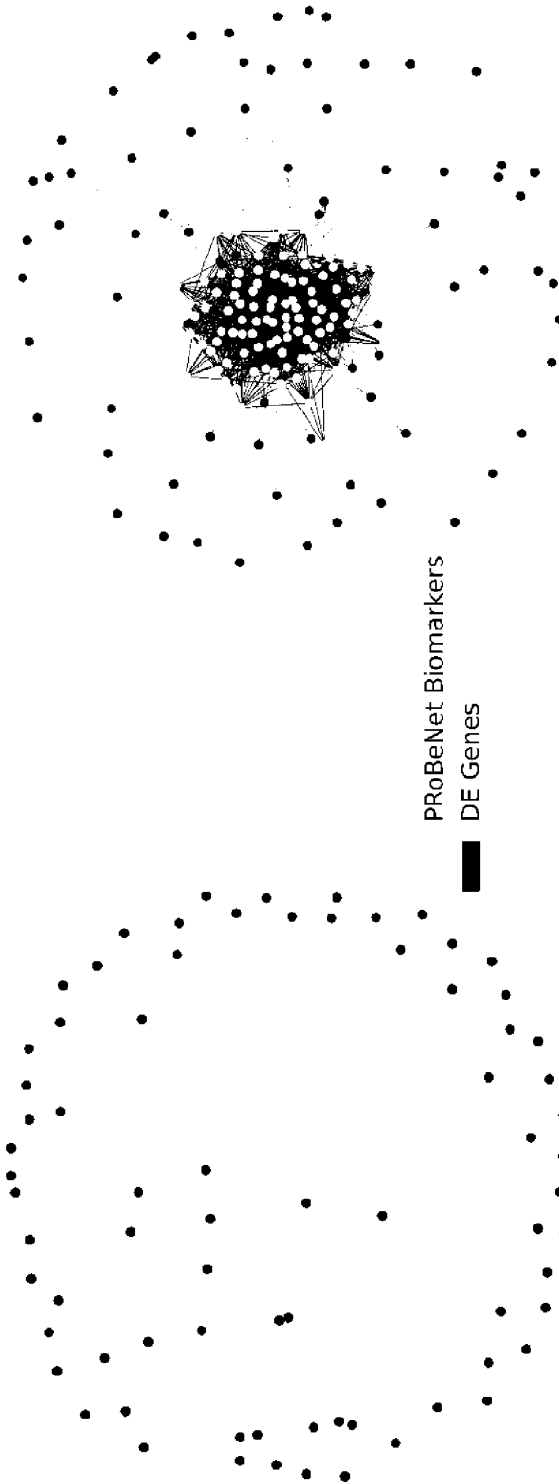


FIG. 11A





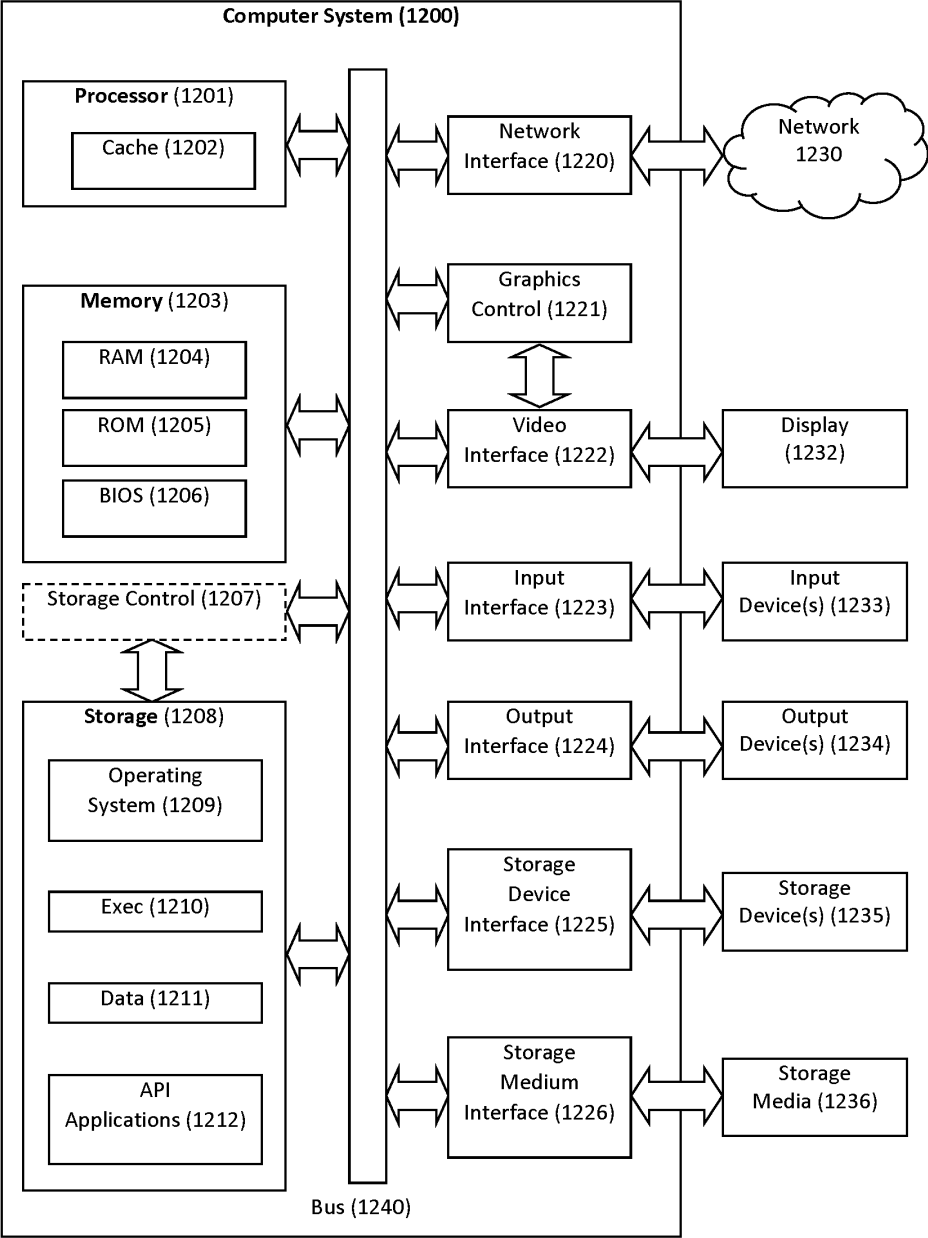


FIG. 12