

Linear Aptamer Library

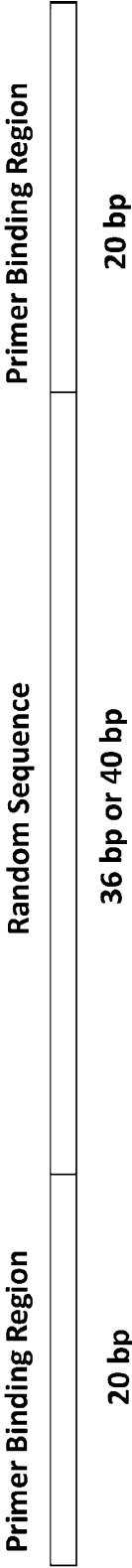


FIG. 1A

Circular Aptamer Library

Random
Sequence
36 bp or 40 bp

Primer
Binding
Region
20 bp

Primer
Binding
Region
20 bp

FIG. 1B

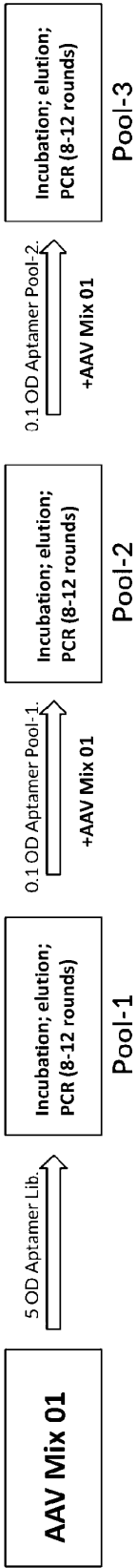


FIG. 2A

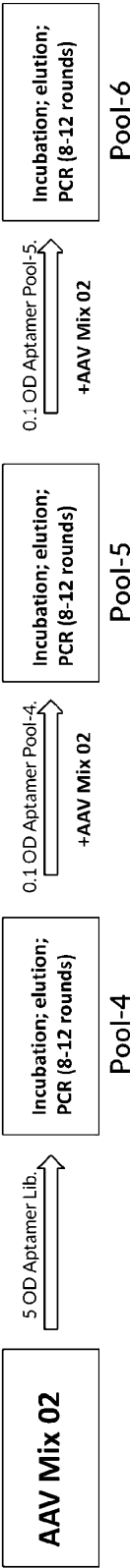


FIG. 2B

Example Raw data of Aptamer Library Enrichment

Random Sequence 36 bp		Number of Aptamers		AAV-01		AAV-02		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round		1st Round		2nd Round</	
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FIG. 2C

Data & plots: Top 100 aptamers

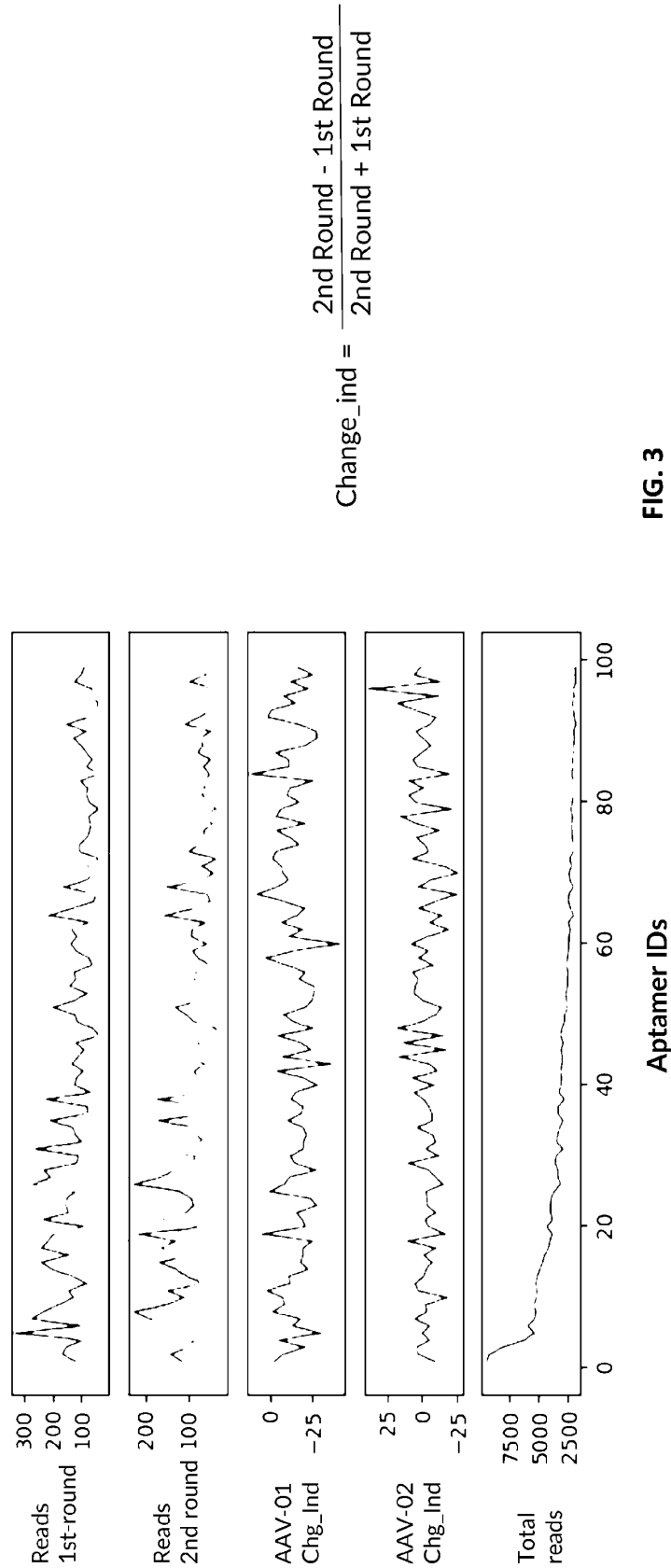
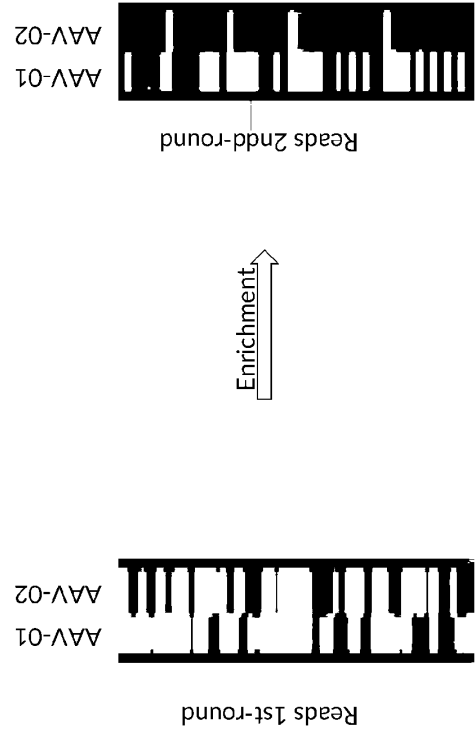


FIG. 3

Top 100's Aptamer Lib. signatures



* Total aptamers captured about 1500 (threshold >5 reads)

FIG. 4

Data & plots: Top 500 aptamers

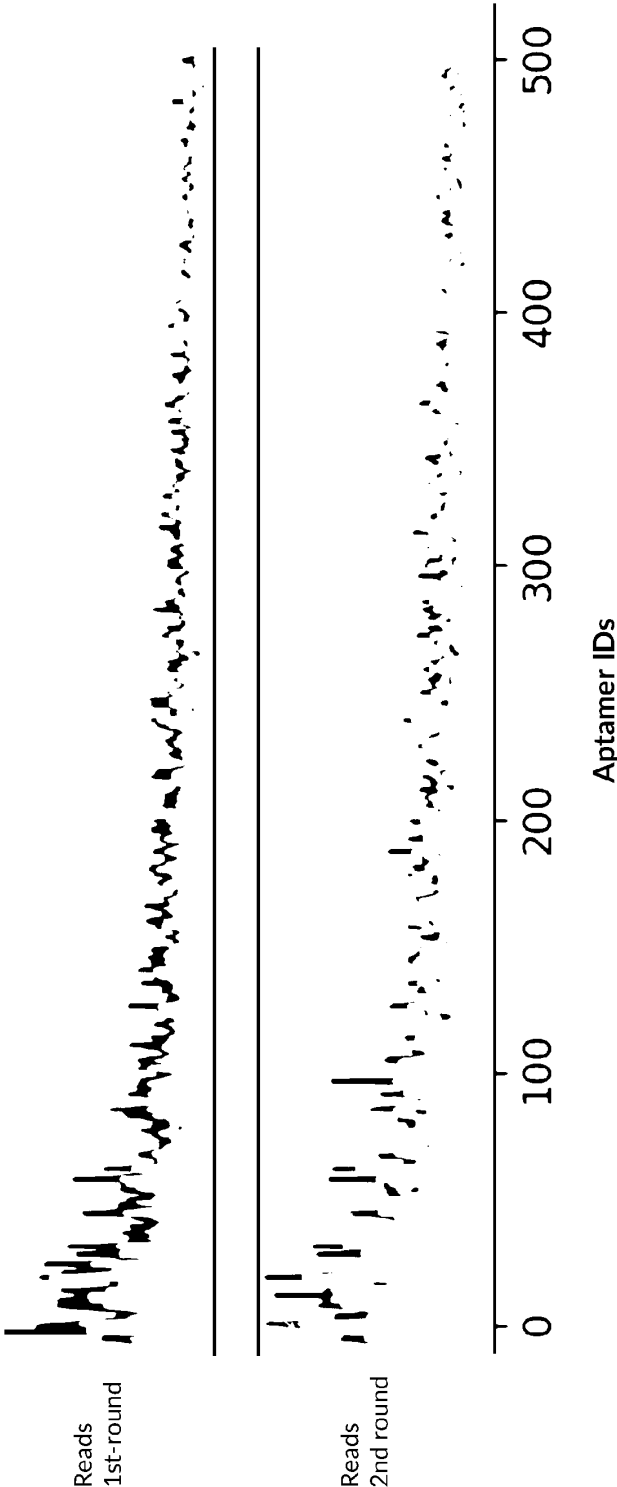


FIG. 5

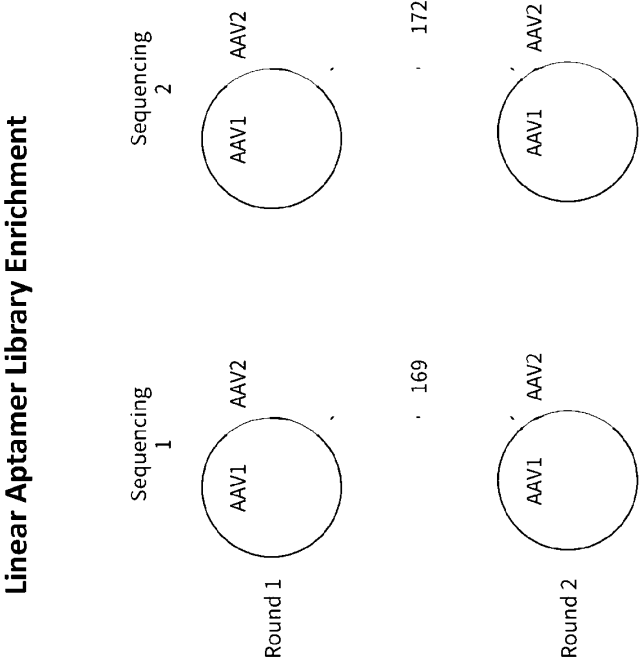


FIG. 6

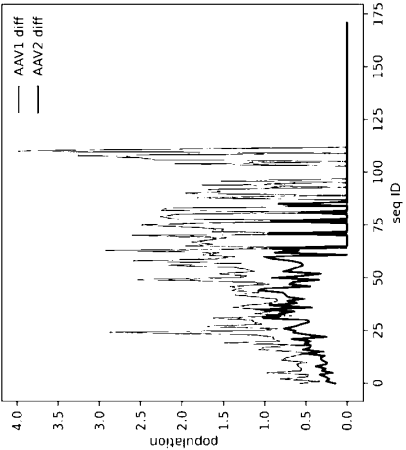


FIG. 7B

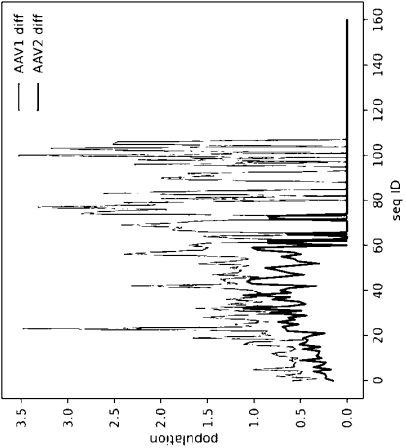


FIG. 7A

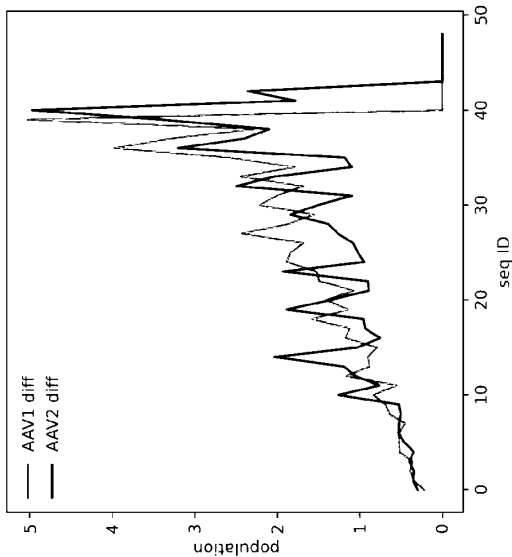


FIG. 7D

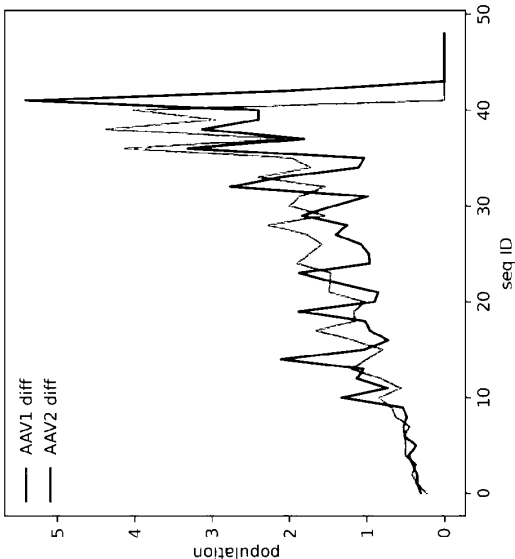


FIG. 7C

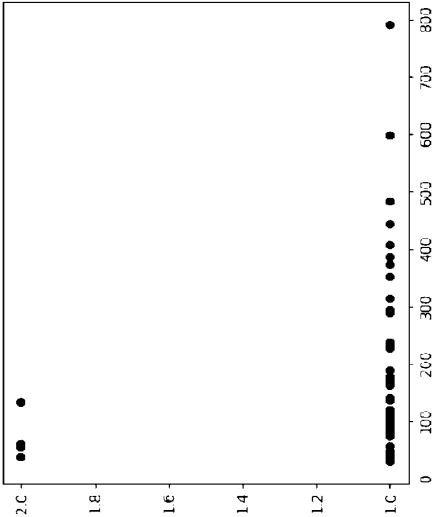


FIG. 8B

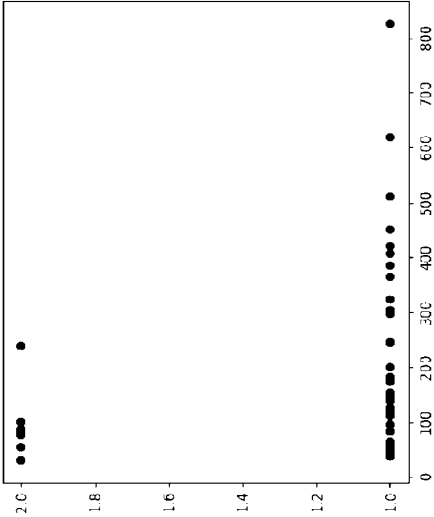


FIG. 8A

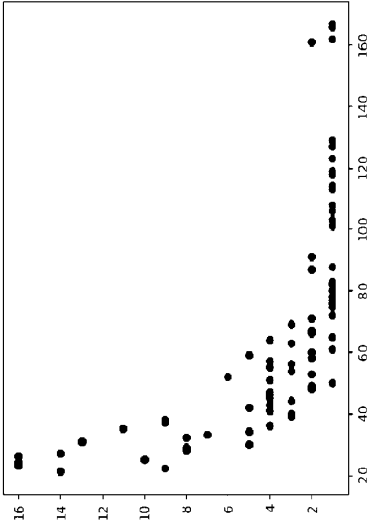


FIG. 9B

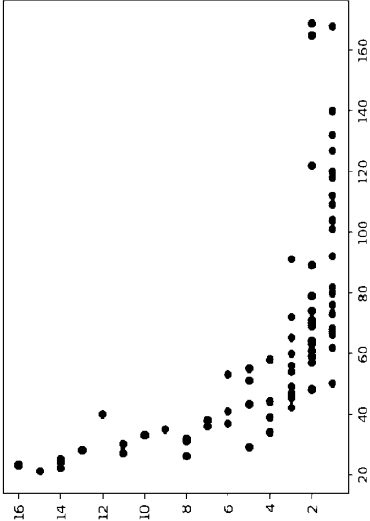


FIG. 9A

DNA Encoded Chemical Libraries (DECLs)

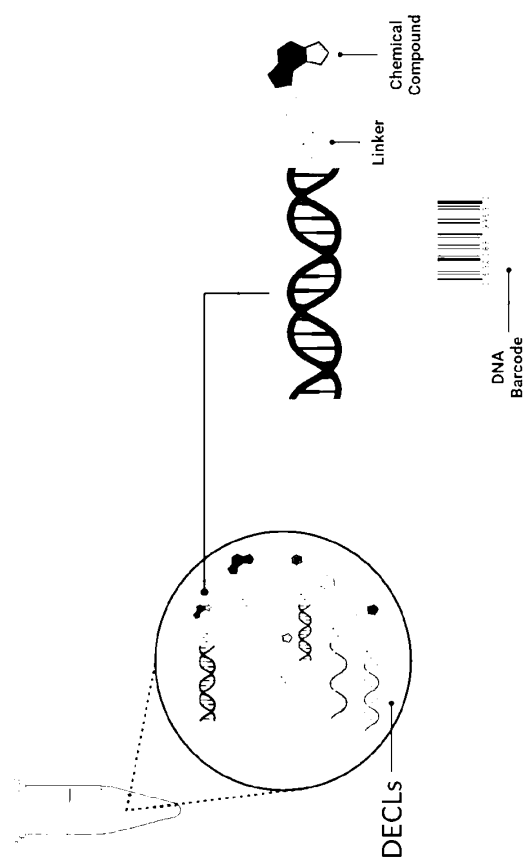


FIG. 10

DNA Encoded Chemical Libraries (DECLs)

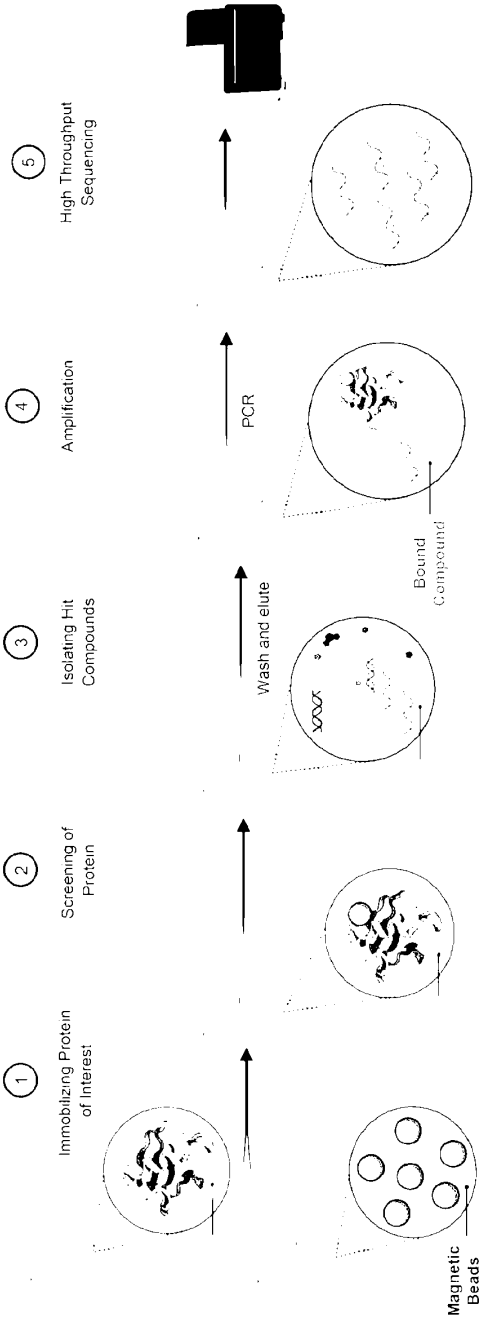


FIG. 11

Transforming 3D surface features into DECL spaces

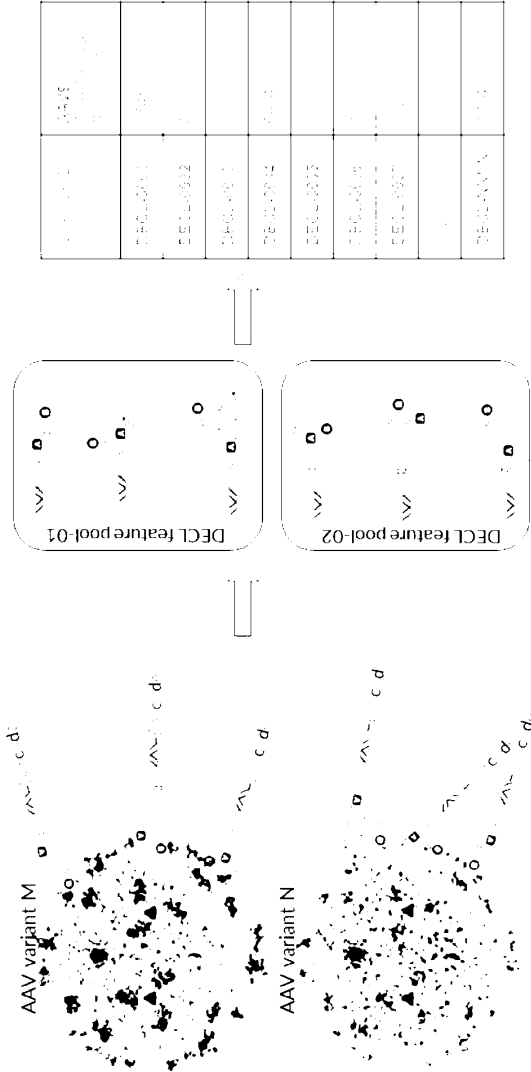


FIG. 12

Droplet & Single-cell sequencing combined with DELs

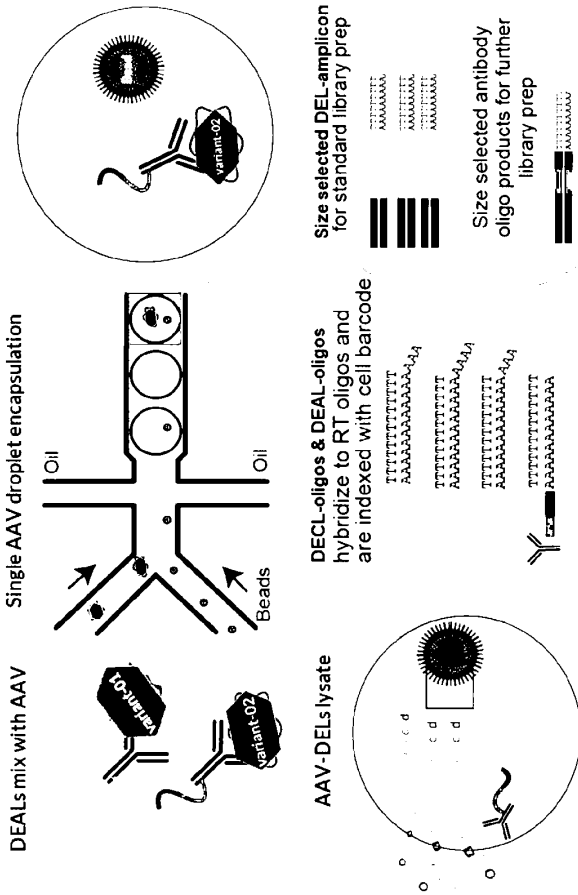


FIG. 13

Packing list

Tube Label	Number (tube)	Amount	Description	Storage Condition
OpenDEL3-00031-0010	10	3.23 nmol/tube by qPCR	1. OpenDEL for 10 experimental conditions 2. 30 libraries, 1922.9 M of compounds	-20°C
PCR forward primers(Primer F)	3	4 nmol/tube	Forward primer for qPCR and PCR	-20°C
PCR reverse primer(Primer R)	3	4 nmol/tube	Reverse primer for qPCR and PCR	-20°C
qPCR standard curve sample	3	16.57 nM 15 ul /tube	Prepare for the qPCR standard curve	-20°C
Screening Additive	3	80 mg/tube	Salmon sperm DNA. Adding in selection buffer to reduce non-specific binders	-20°C
Plastic Empty Tube	10		Container for post selection sample	

FIG. 14

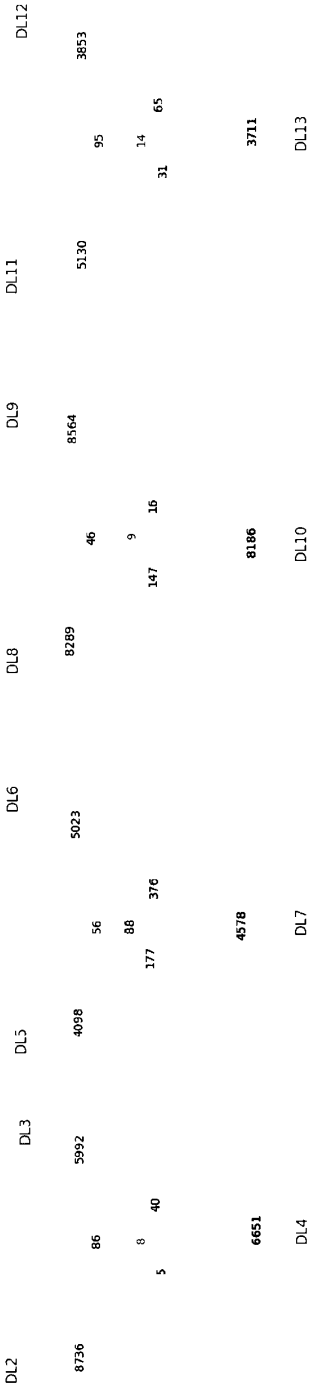


FIG. 15

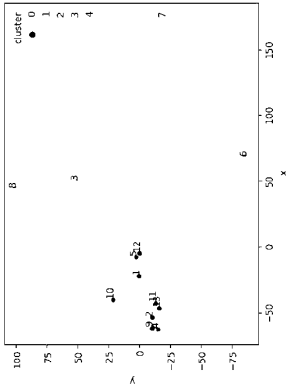


FIG. 16A

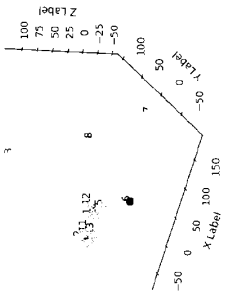


FIG. 16B

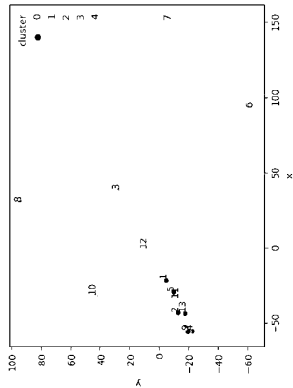


FIG. 16C

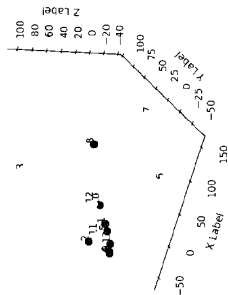


FIG. 16D