

FIGURE 1

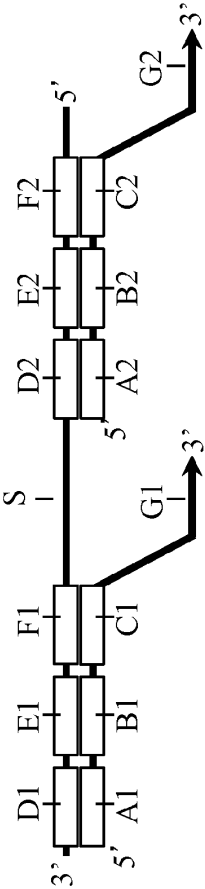


FIGURE 2

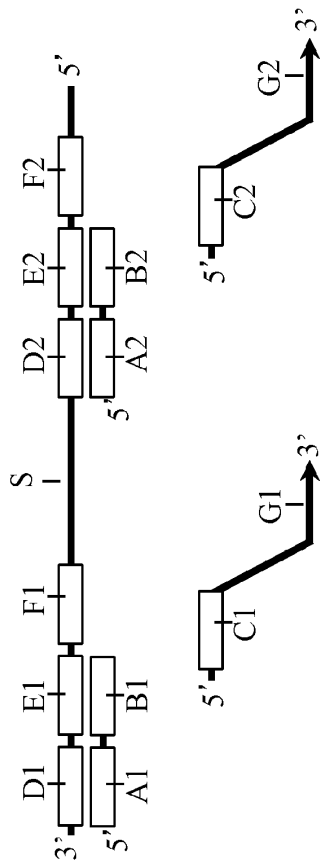
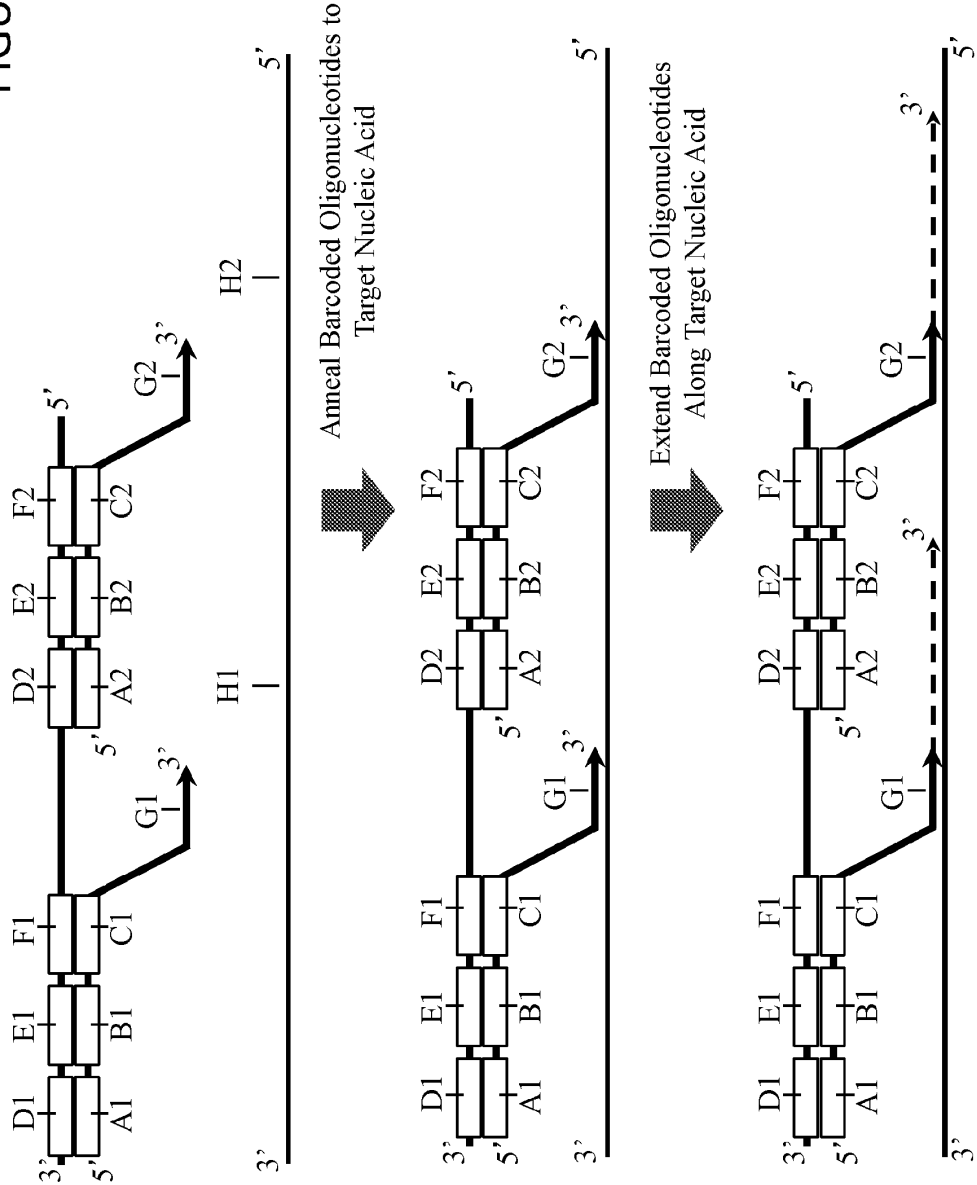


FIGURE 3



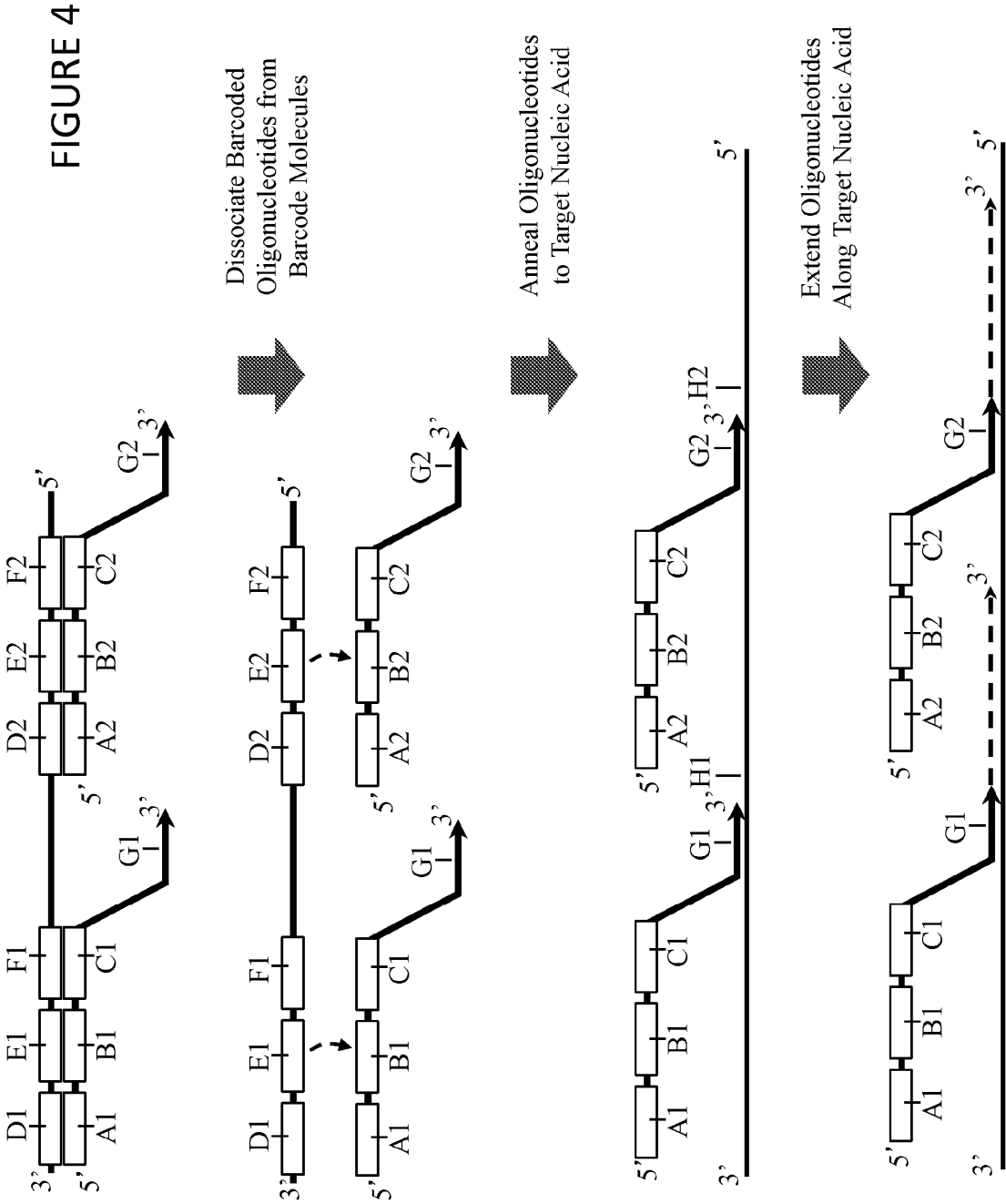


FIGURE 5

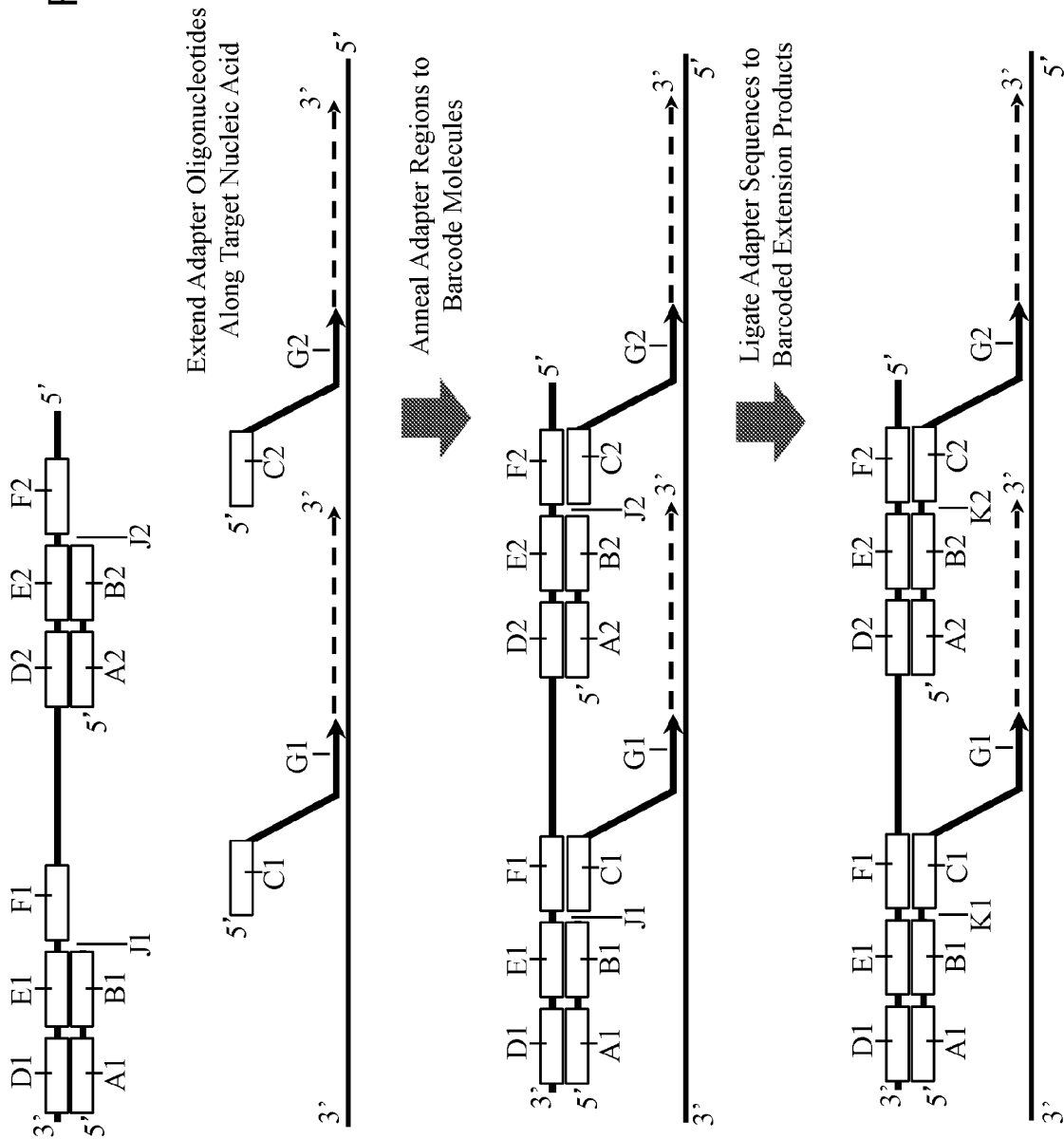
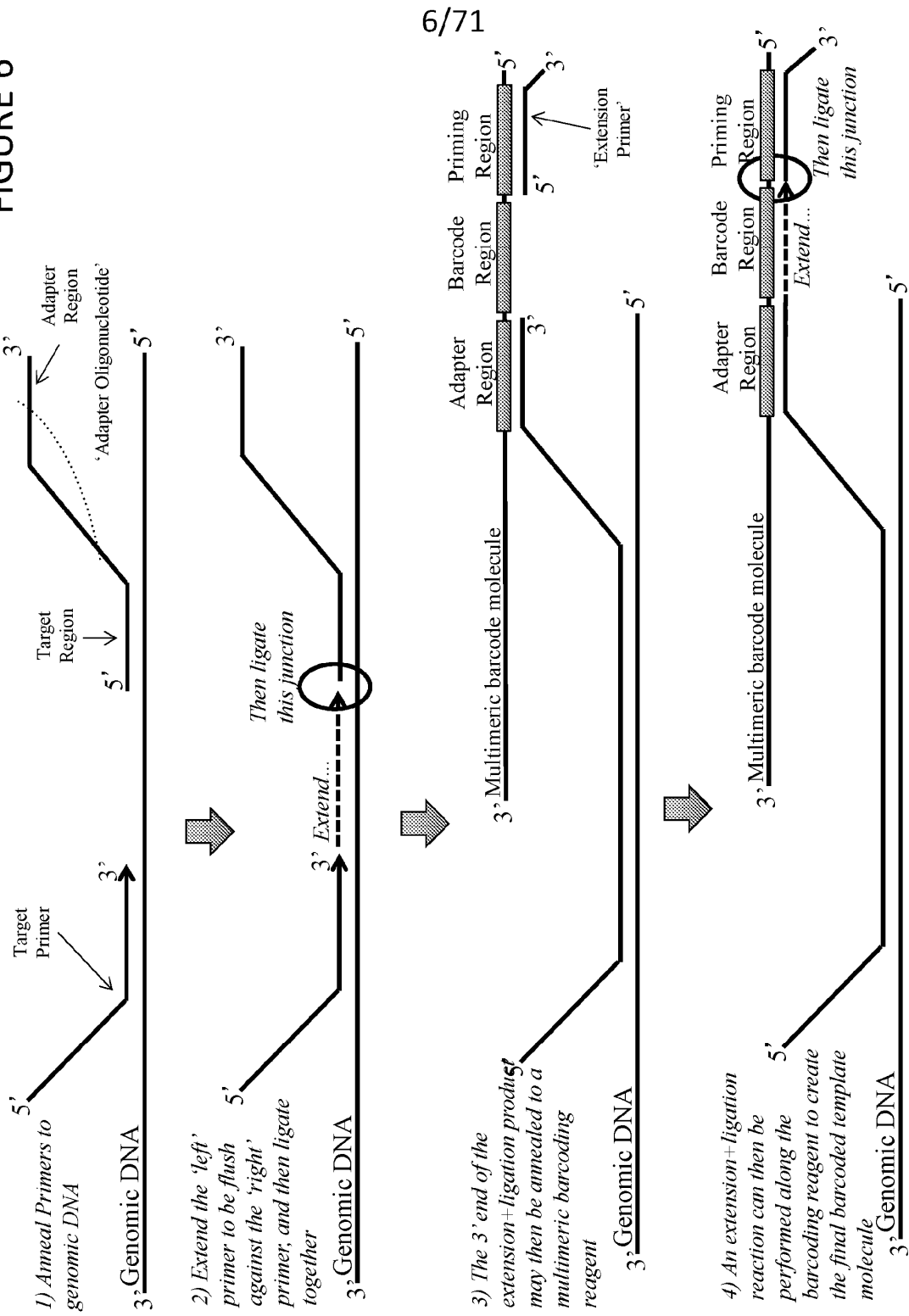


FIGURE 6



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FIGURE 7

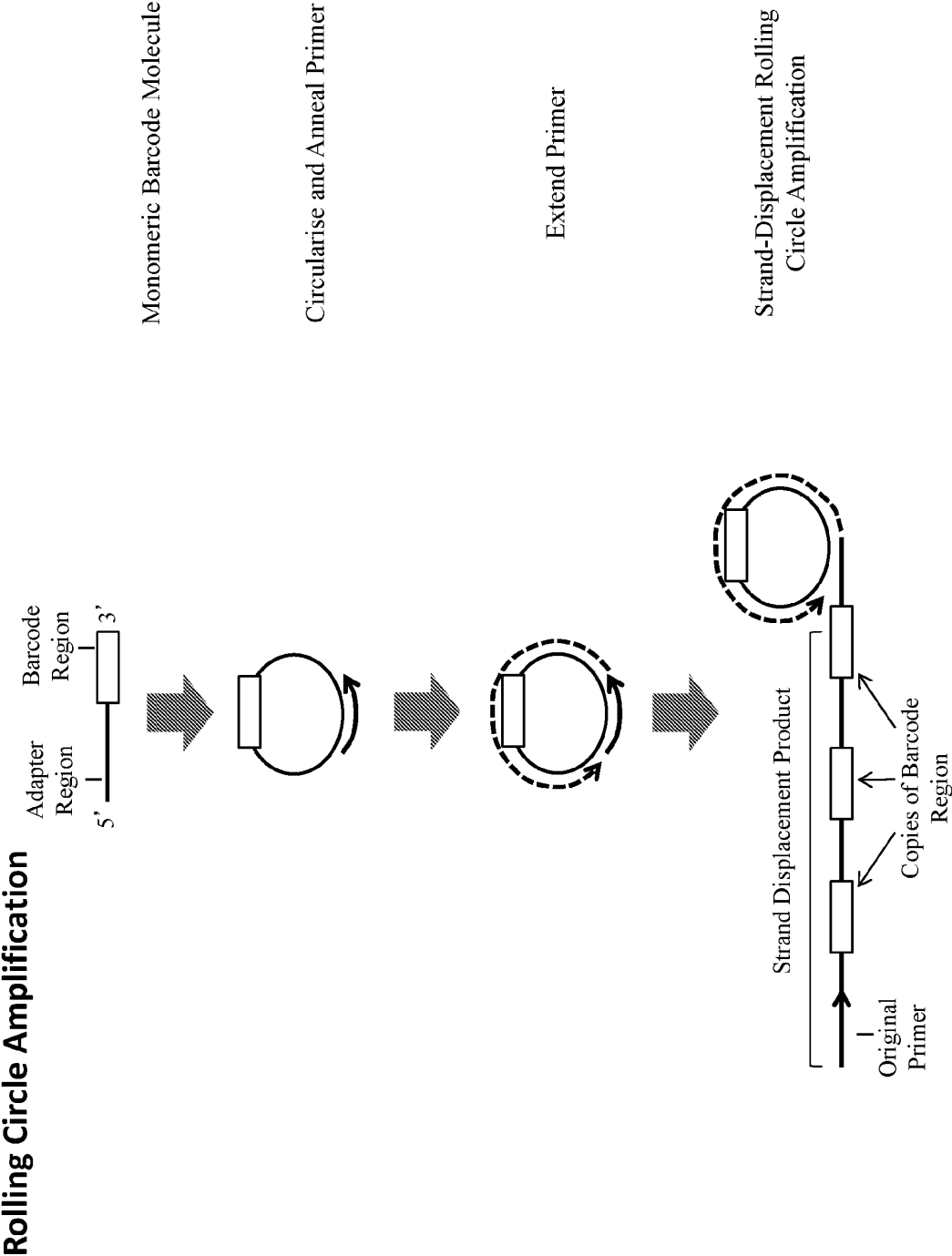


FIGURE 8

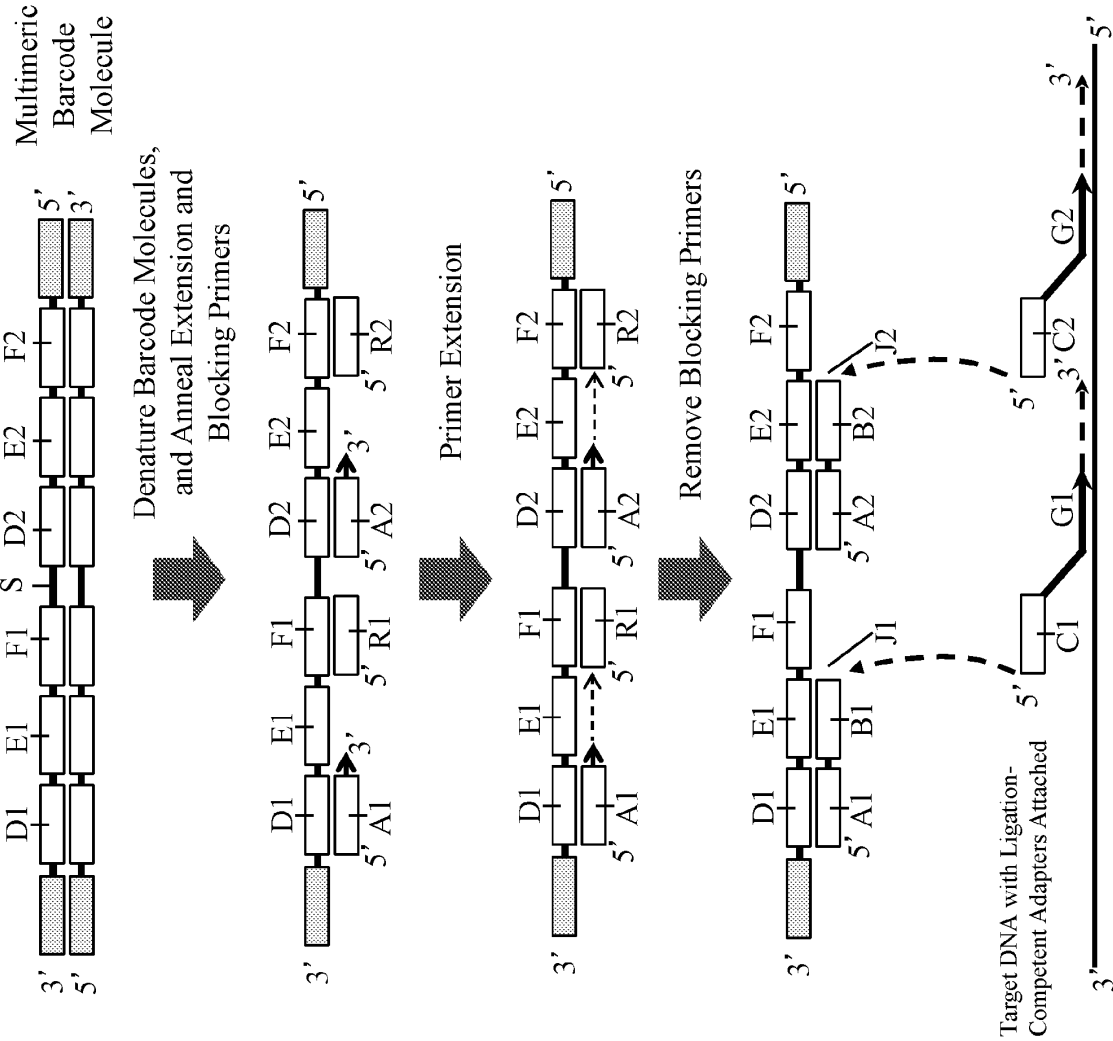


FIGURE 9

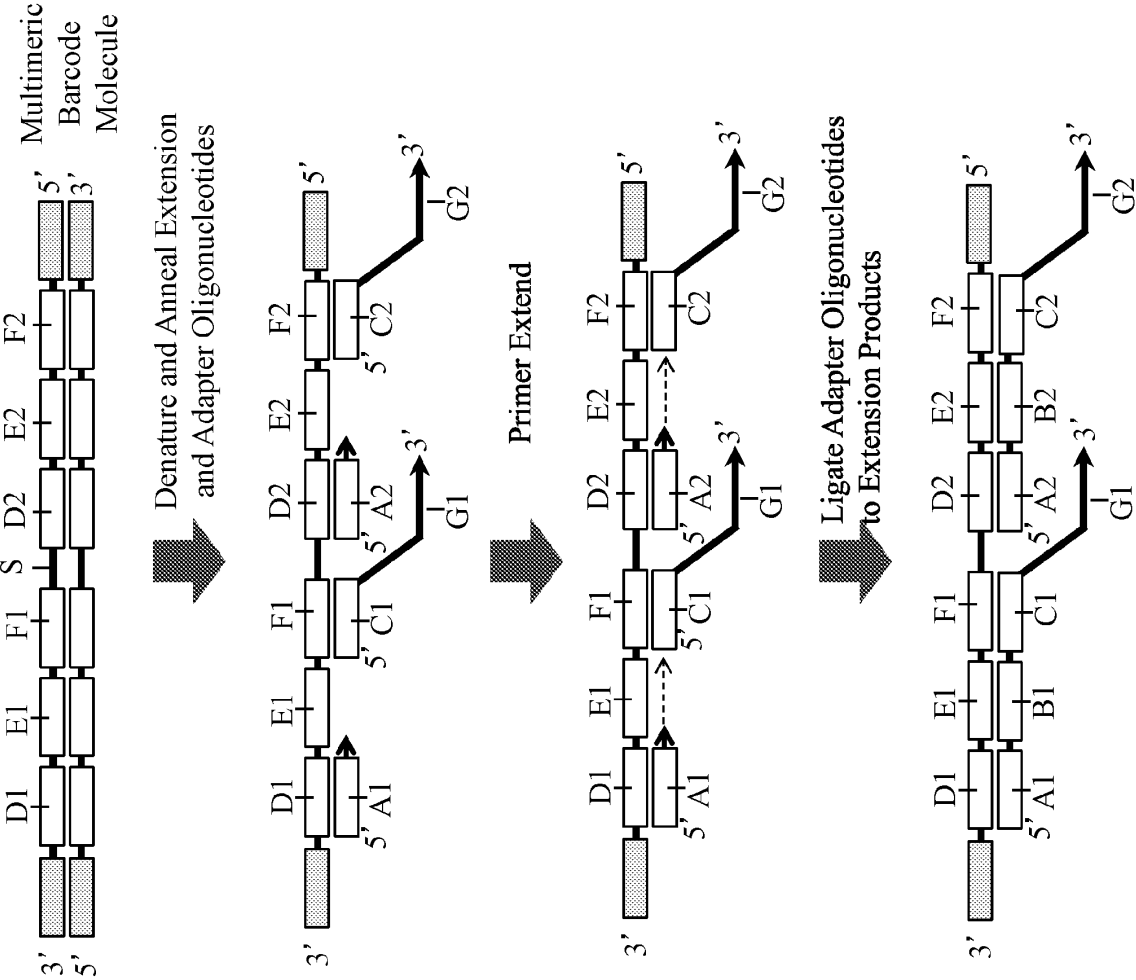
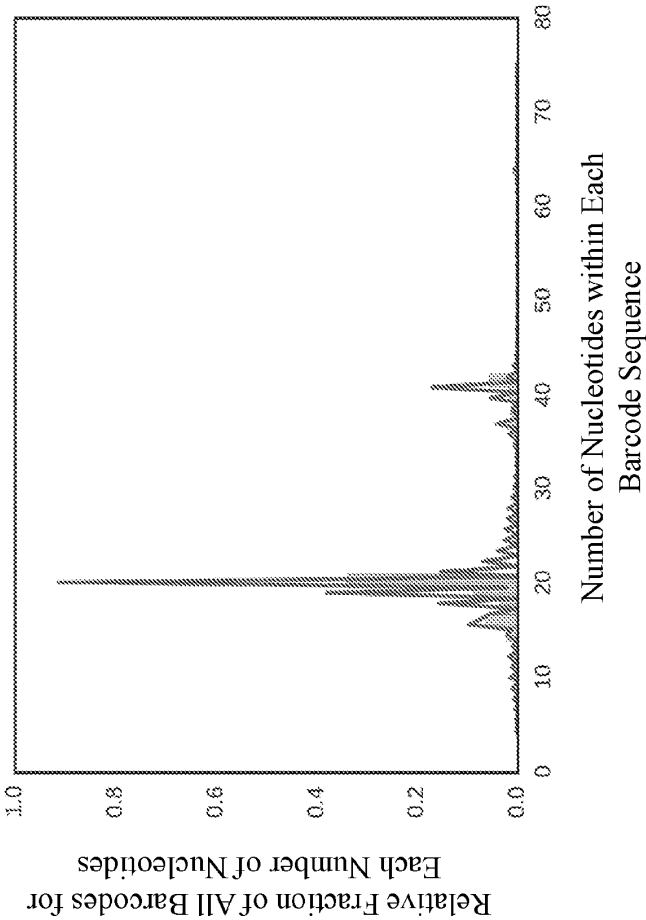


FIGURE 10

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FIGURE 11

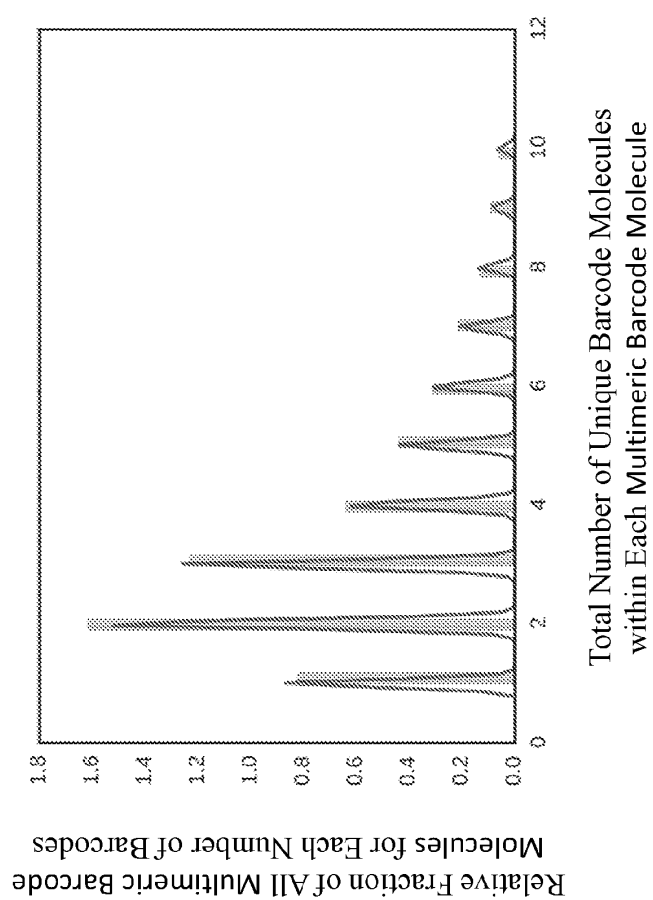


FIGURE 12

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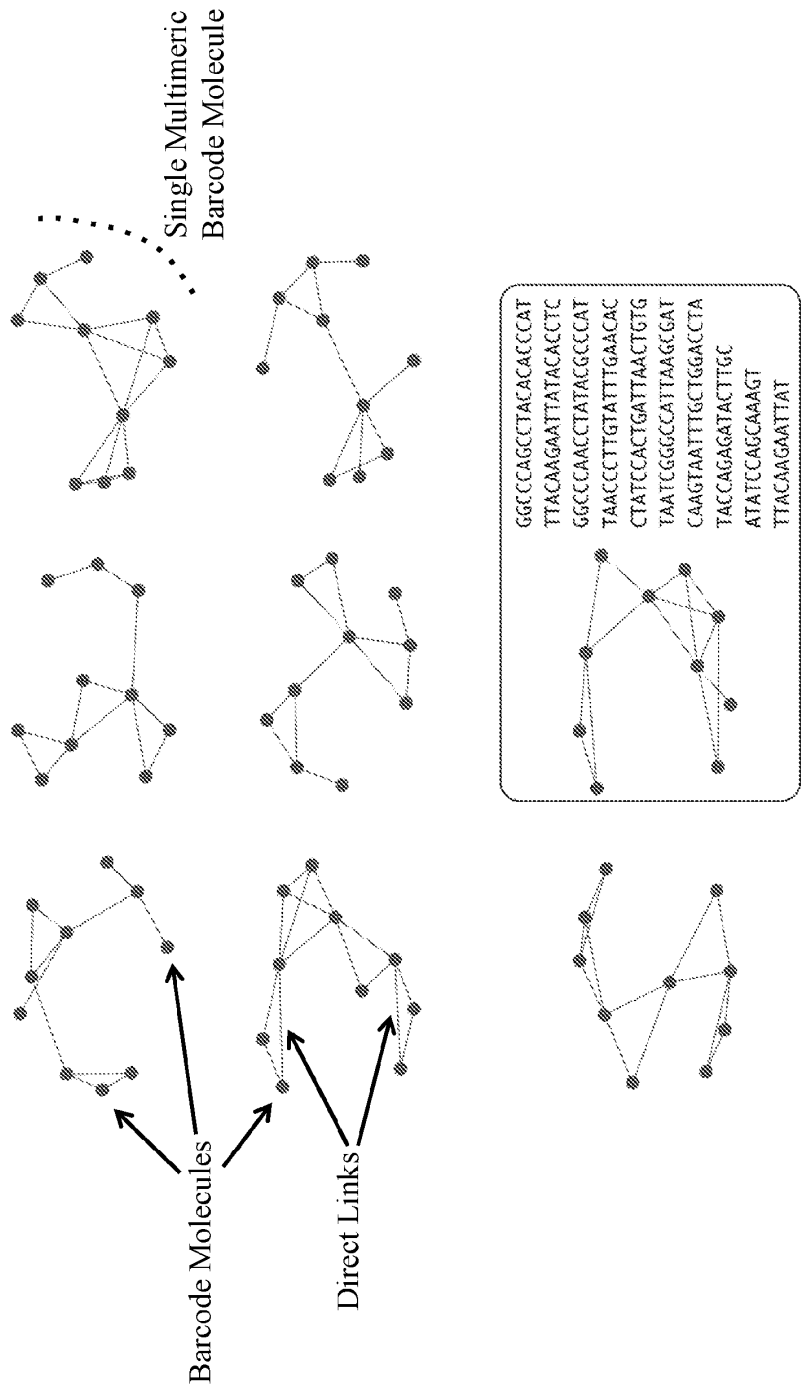


FIGURE 13

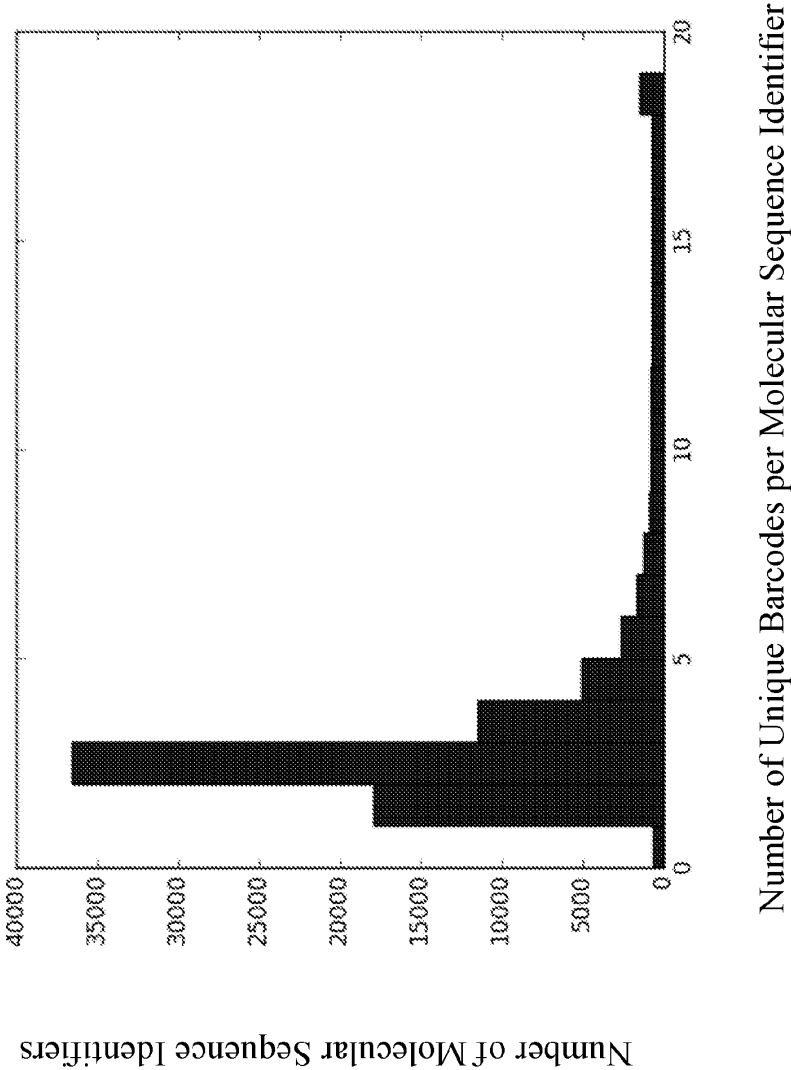


FIGURE 14

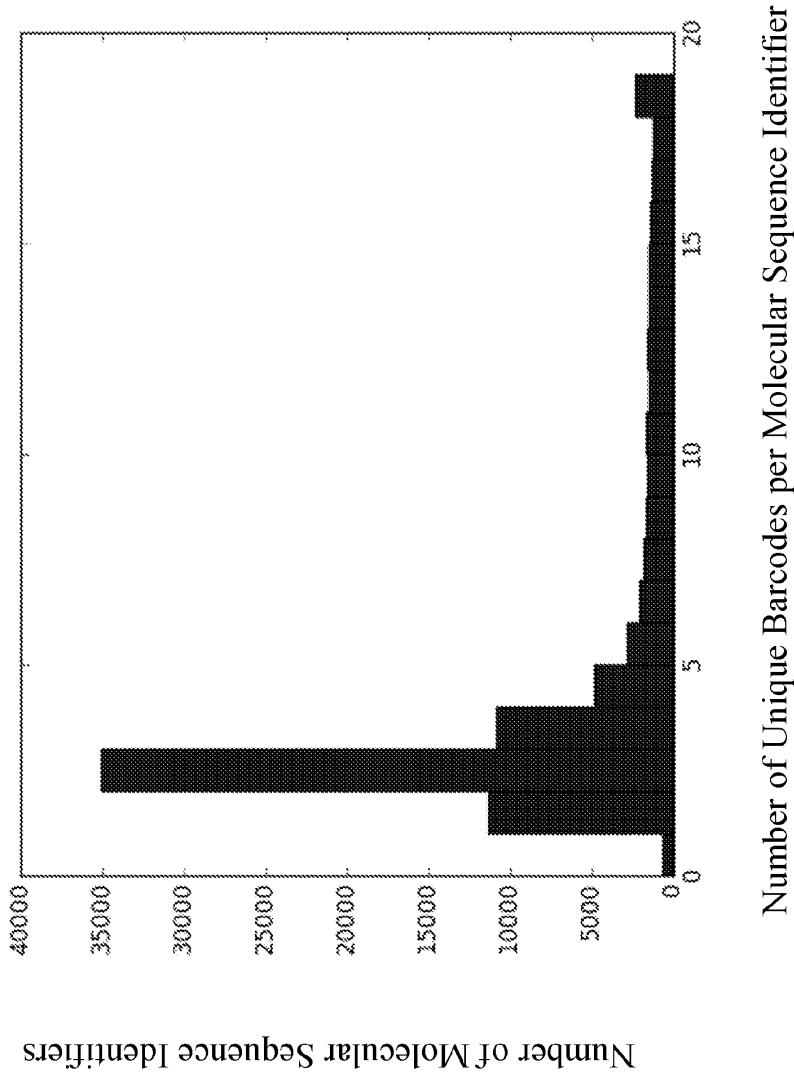


FIGURE 15

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	Annealed to Genomic DNA Overnight	Annealed to Genomic DNA Overnight; Barcoding Reagents Denatured First	Annealed to Genomic DNA for 3 Hours	Annealed to Genomic DNA for 3 Hours; Barcoding Reagents Denatured First
HLA-A_ Exon2	153	62	103	50
HLA-A_ Exon3	2548	341	818	106
HLA-A_ Exon4	489	235	400	108
DQB1_ Exon2	557	627	285	635
DQB1_ Exon3	2186	1614	1085	221
BRCA1_ US1	1771	941	1047	544
BRCA1_ SNP7	2524	1261	90	43
BRCA1_ SNP6	731	537	245	339
BRCA1_ SNP1	10033	5787	2905	1813
BRCA1_ DS1	4	103	5	0
BRCA_ AMP6	81	69	37	24
BRCA_ AMP7	731	391	40	472

On-Target Fraction: 81% 76% 82% 70%

FIGURE 16

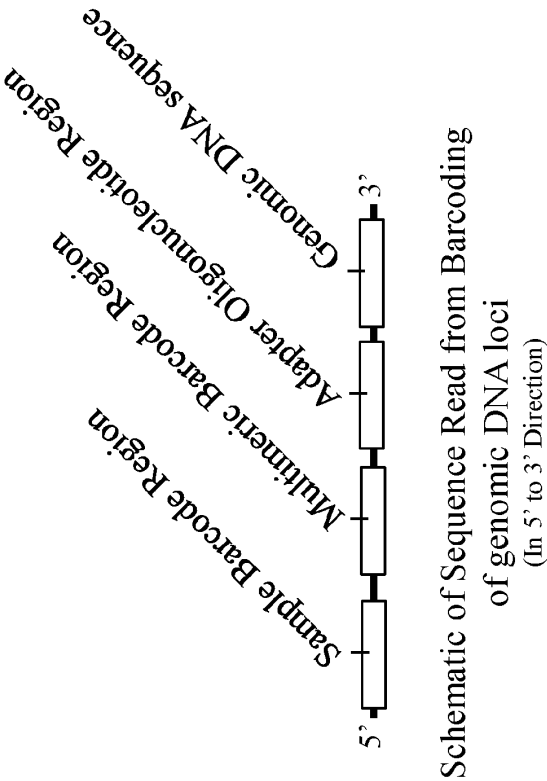


FIGURE 17

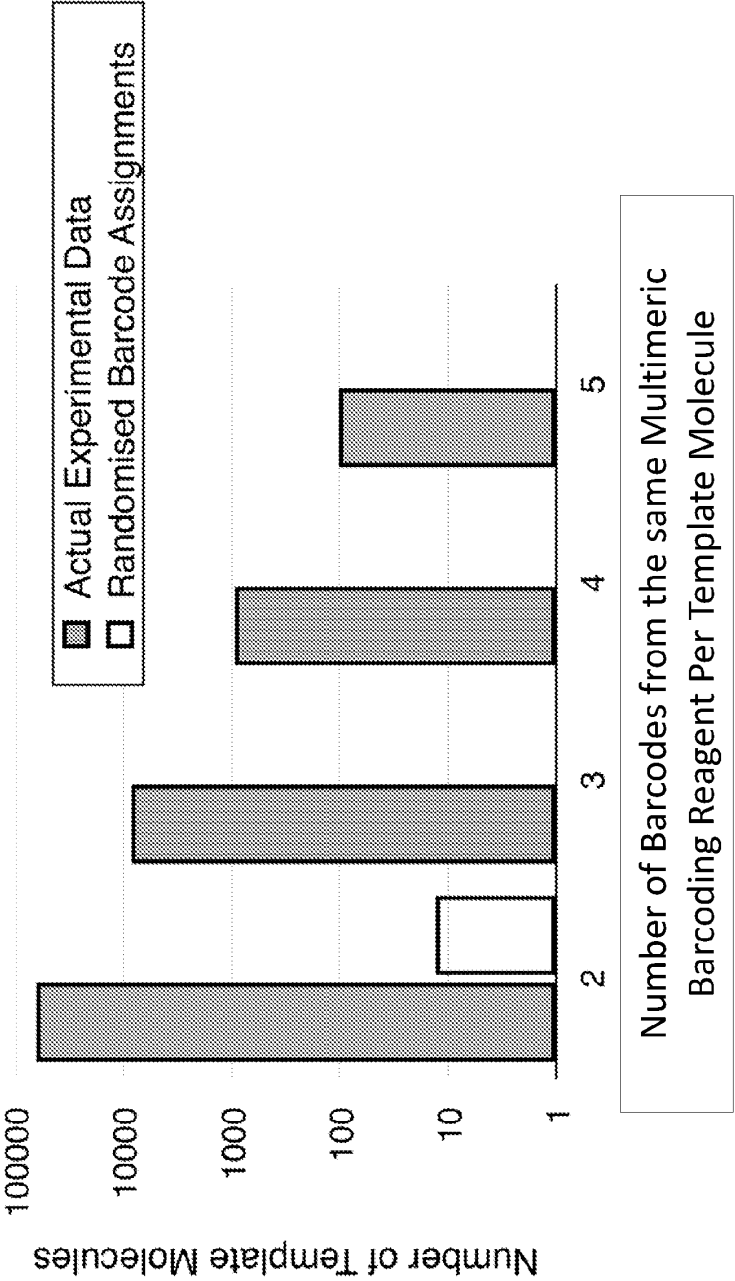
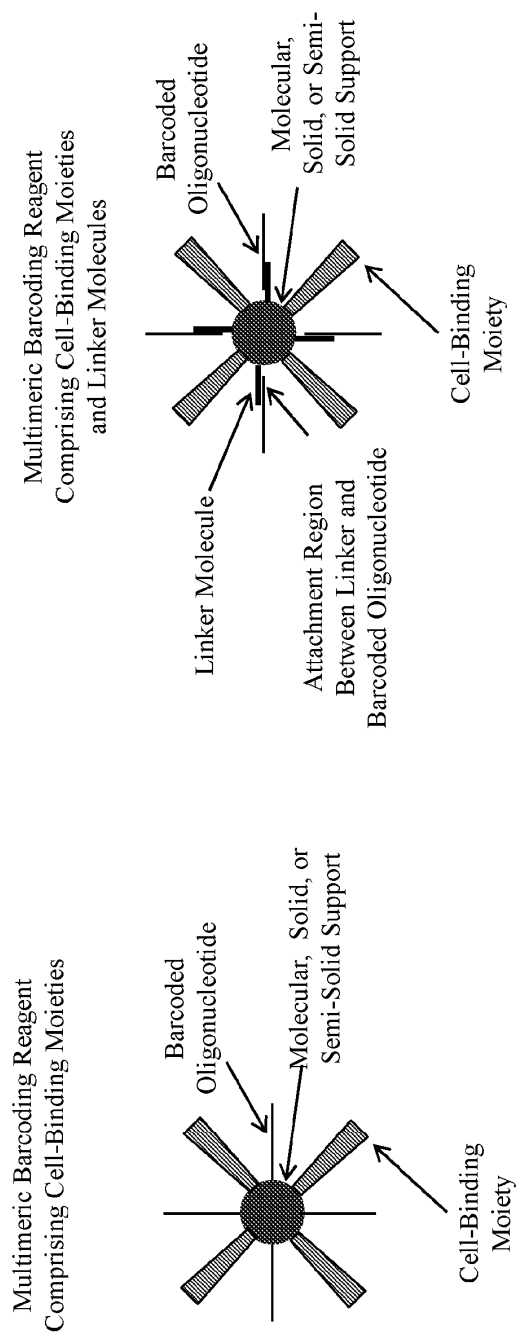
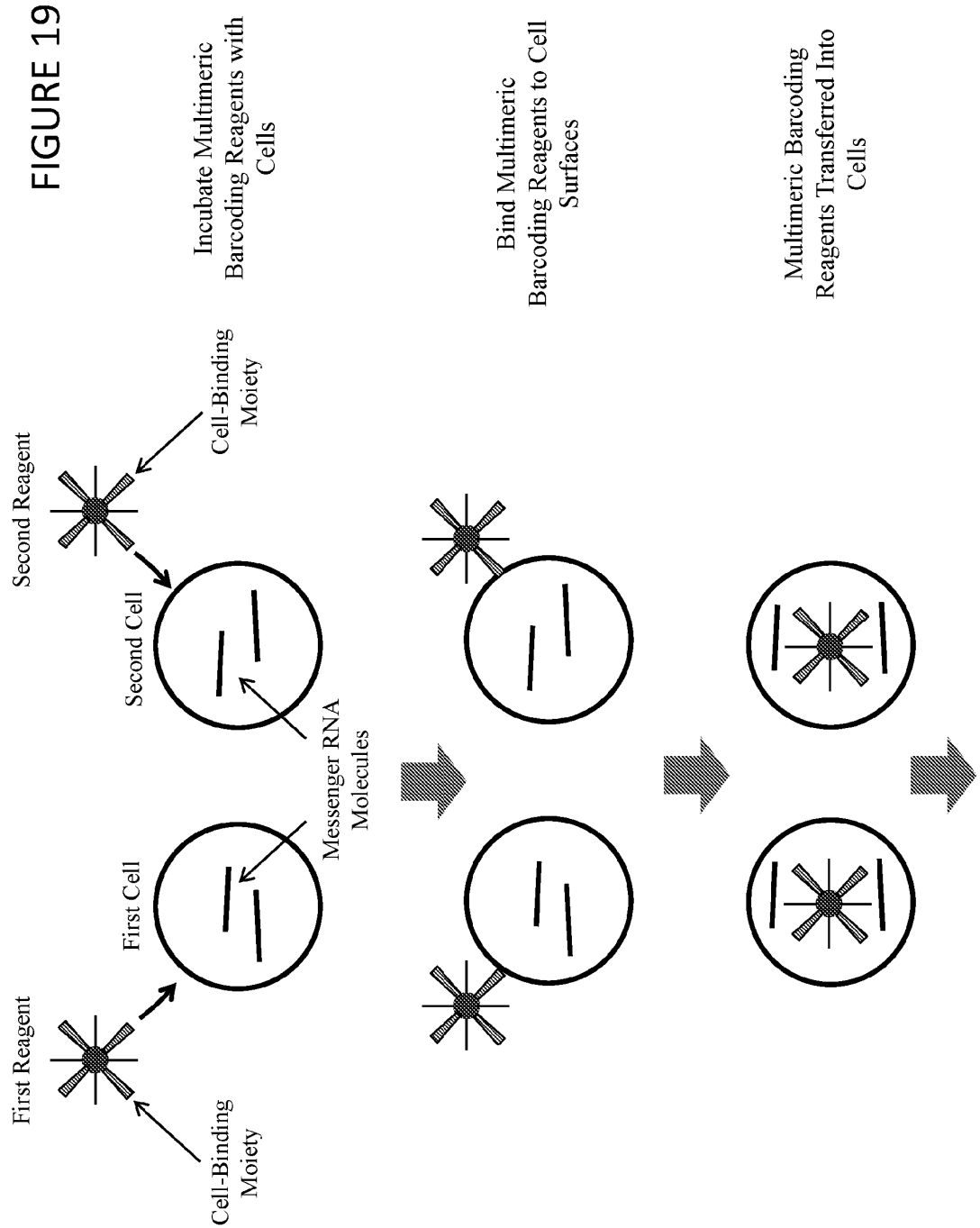


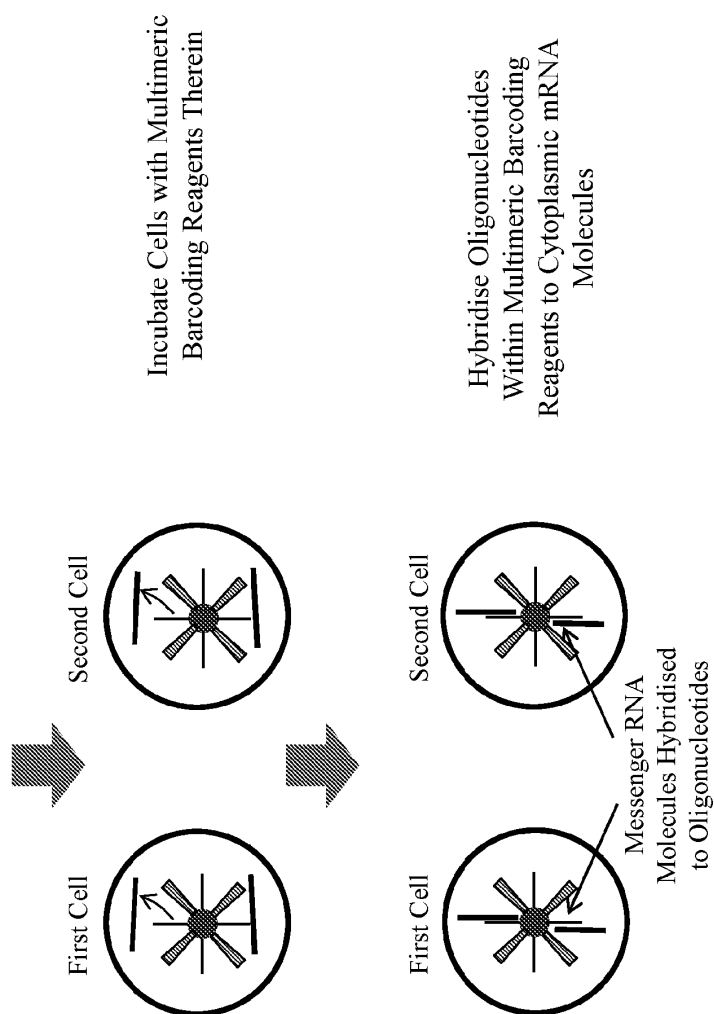
FIGURE 18
Multimeric Barcoding Reagents Comprising Cell-Binding Moieties



Transferring Multimeric Barcoding Reagents into Cells by Cell-Binding Moieties

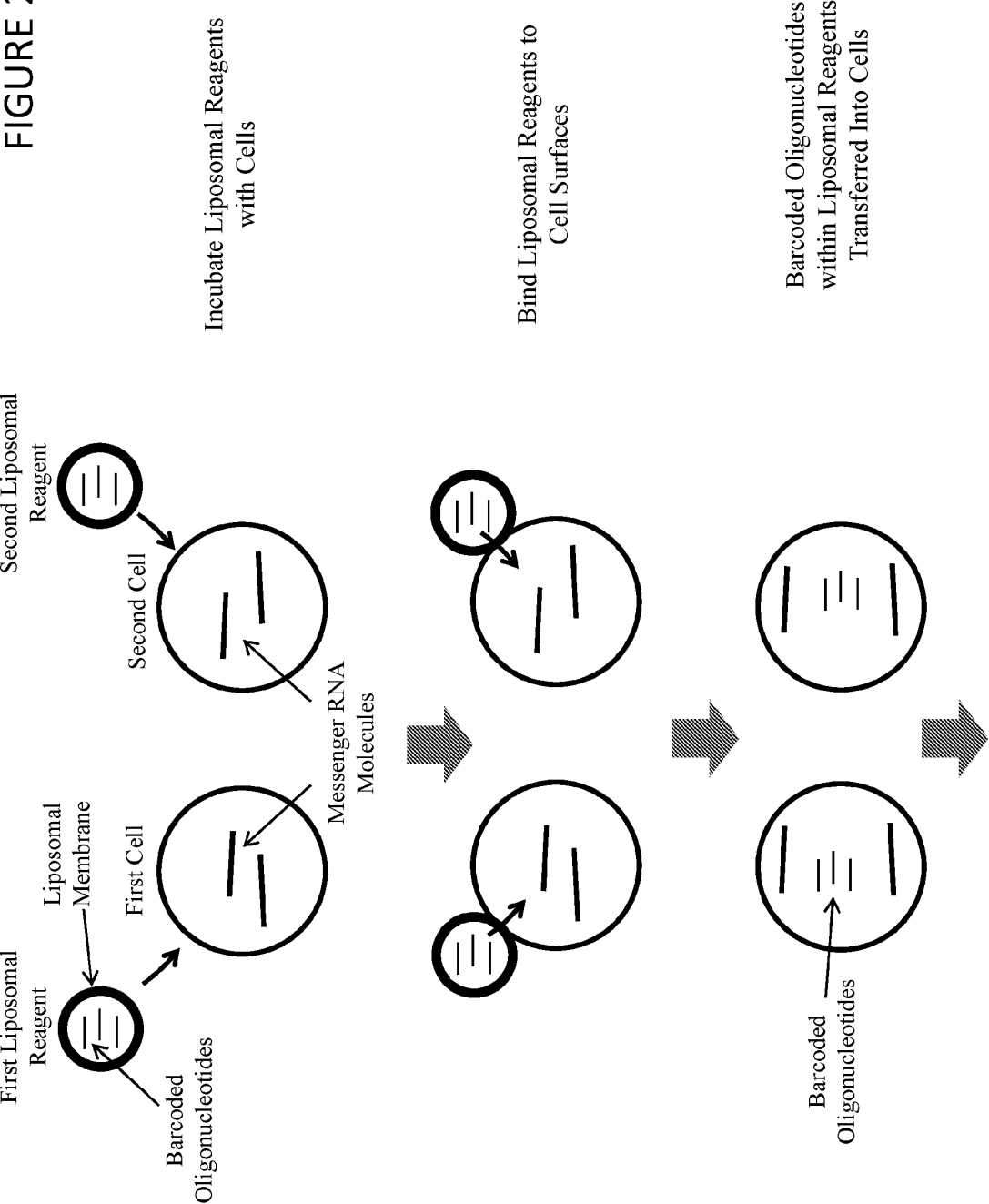


Transferring Multimeric Barcoding Reagents into Cells by Cell-Binding Moieties **FIGURE 19**



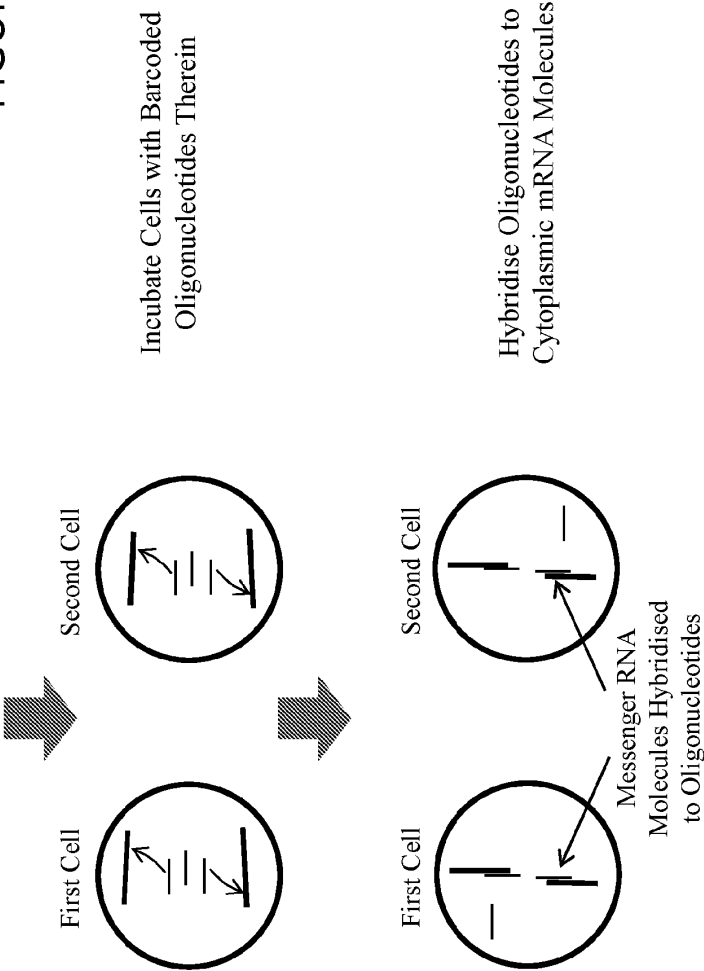
Transferring Multimeric Barcoding Reagents into Cells via Liposomal Delivery

FIGURE 20



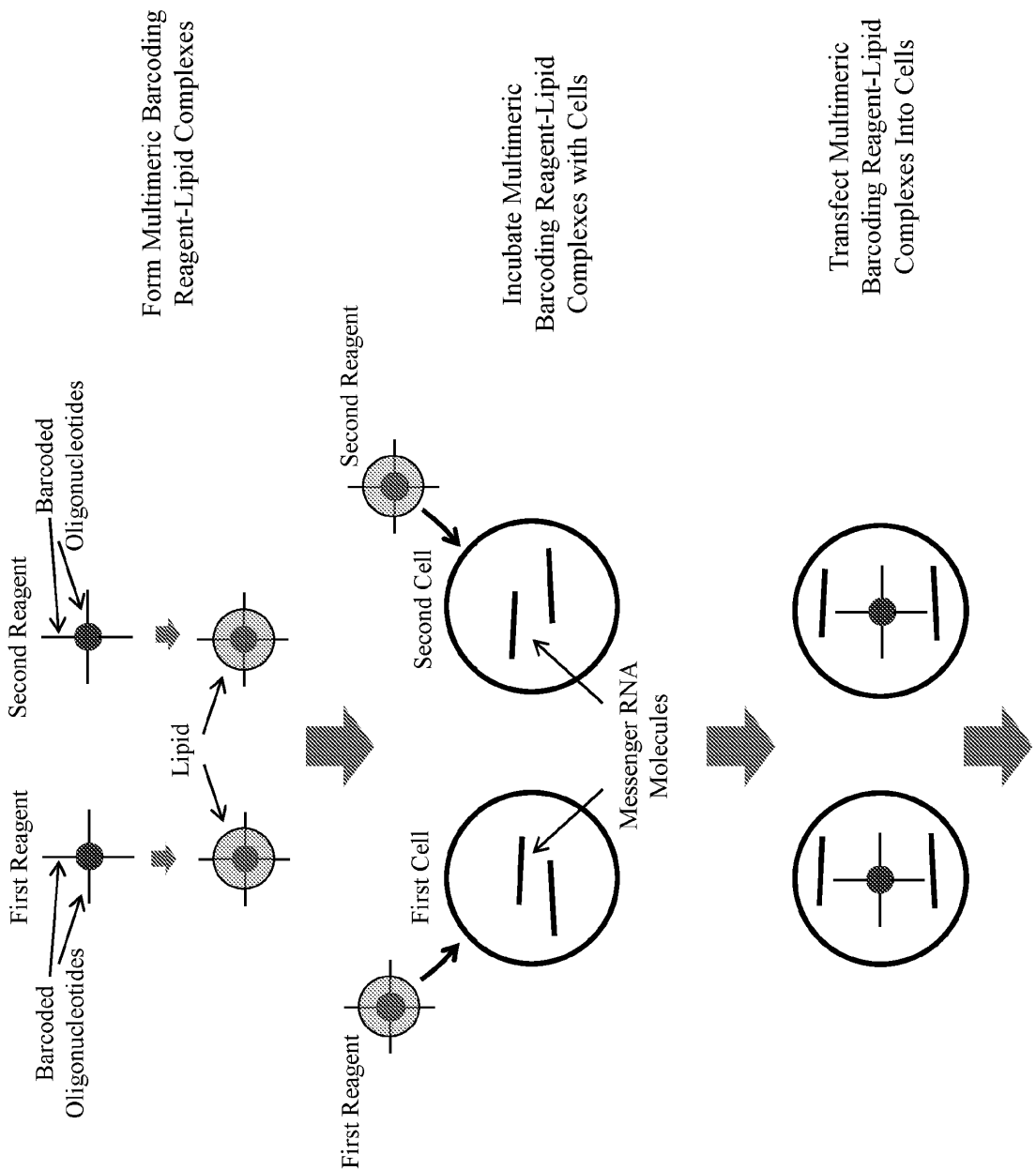
Transferring Multimeric Barcoding Reagents into Cells via Liposomal Delivery

FIGURE 20



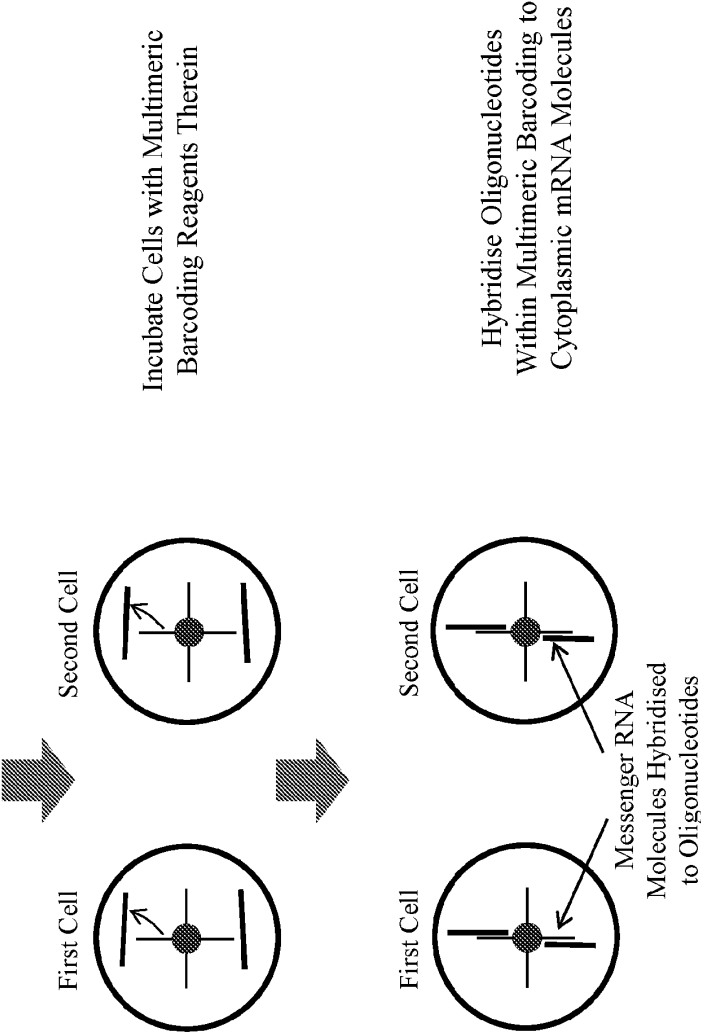
Transferring Multimeric Barcoding Reagents into Cells by Transfection

FIGURE 21



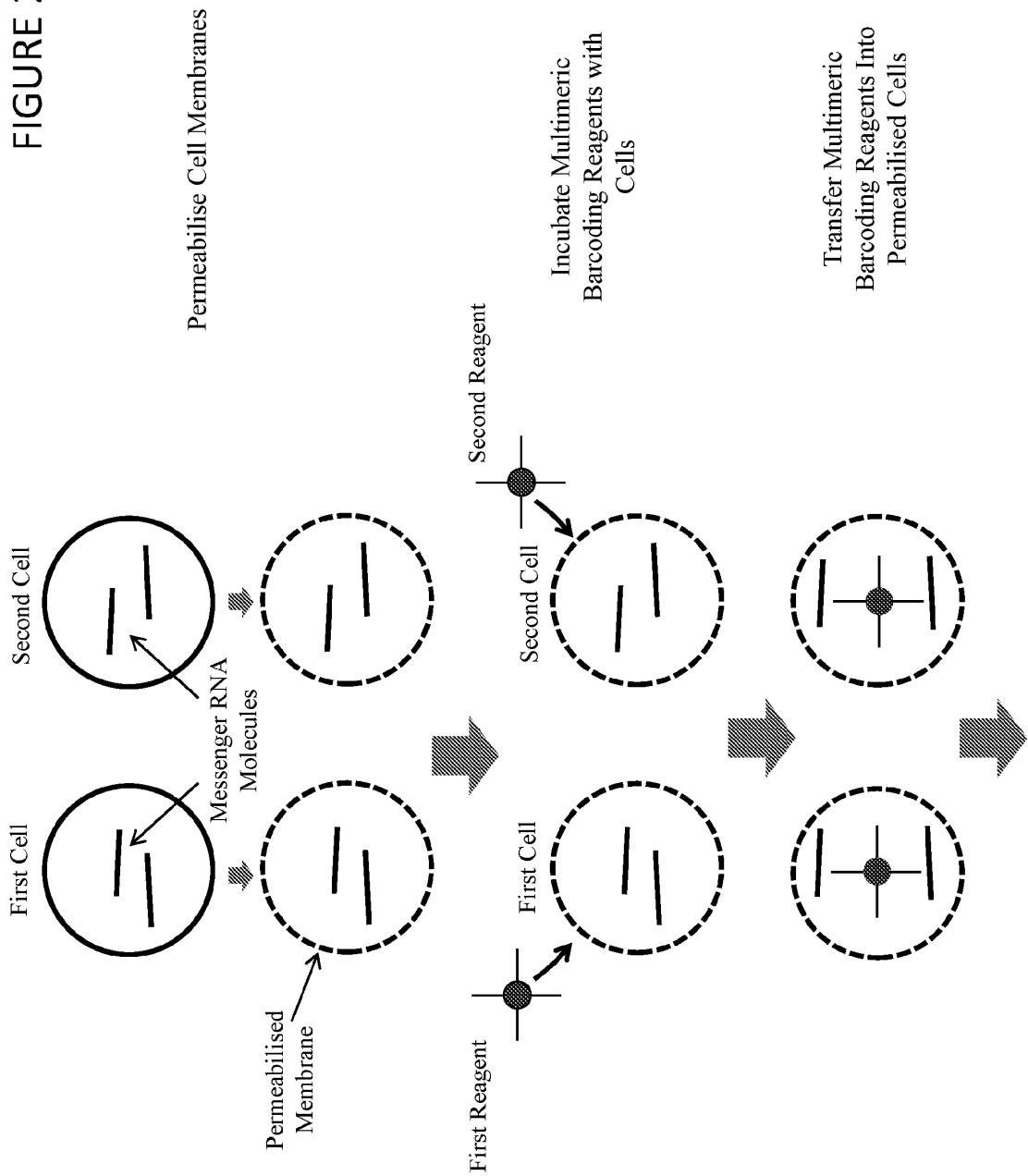
Transferring Multimeric Barcoding Reagents into Cells by Transfection

FIGURE 21



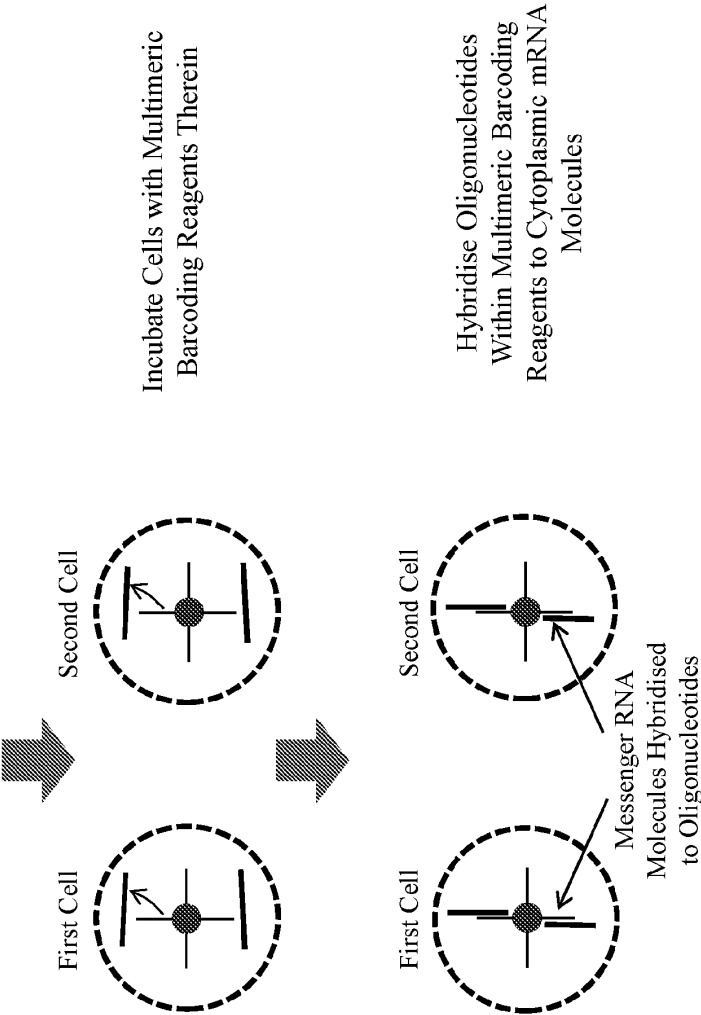
Transferring Multimeric Barcoding Reagents into Cells by Cell Permeabilisation

FIGURE 22



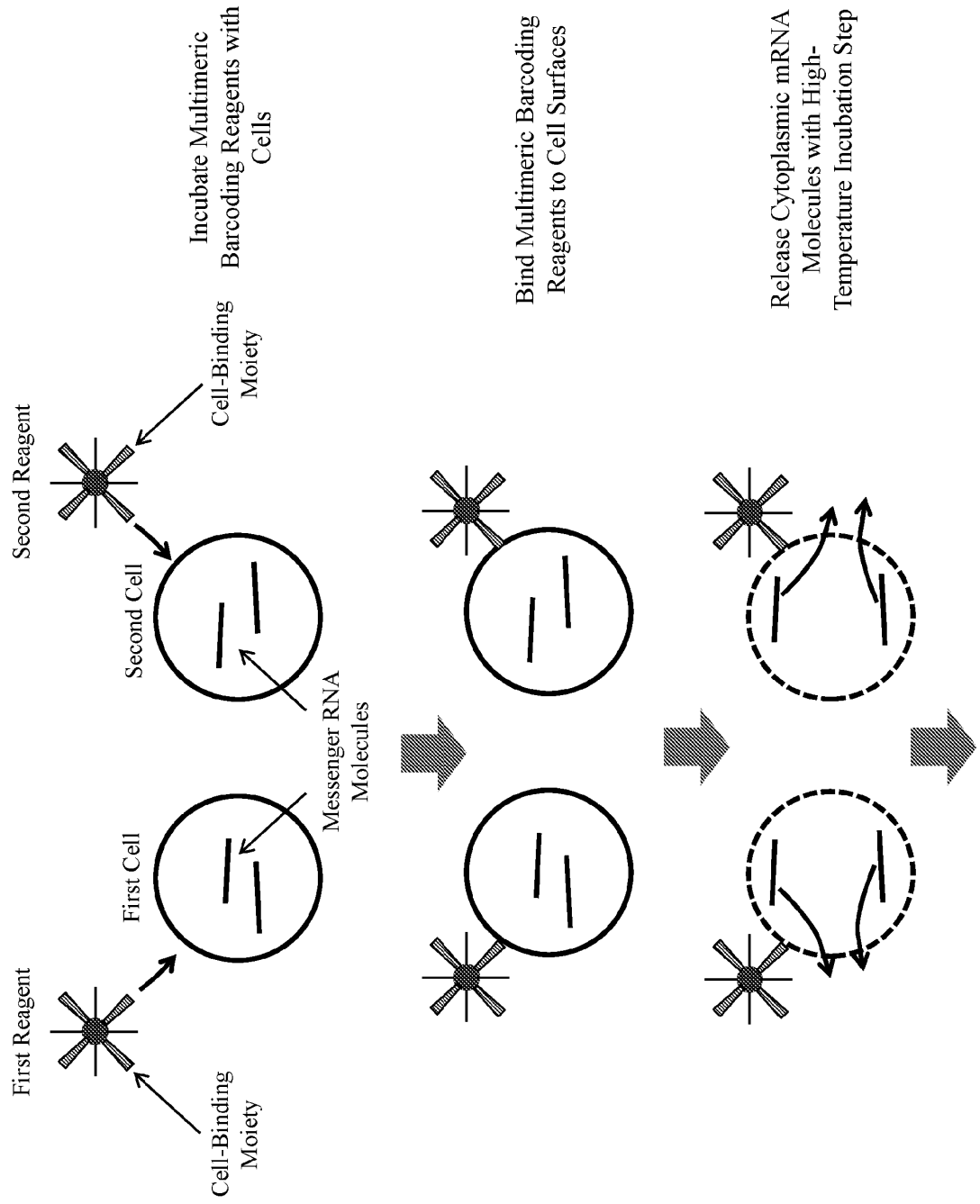
Transferring Multimeric Barcoding Reagents into Cells by Cell Permeabilisation

FIGURE 22



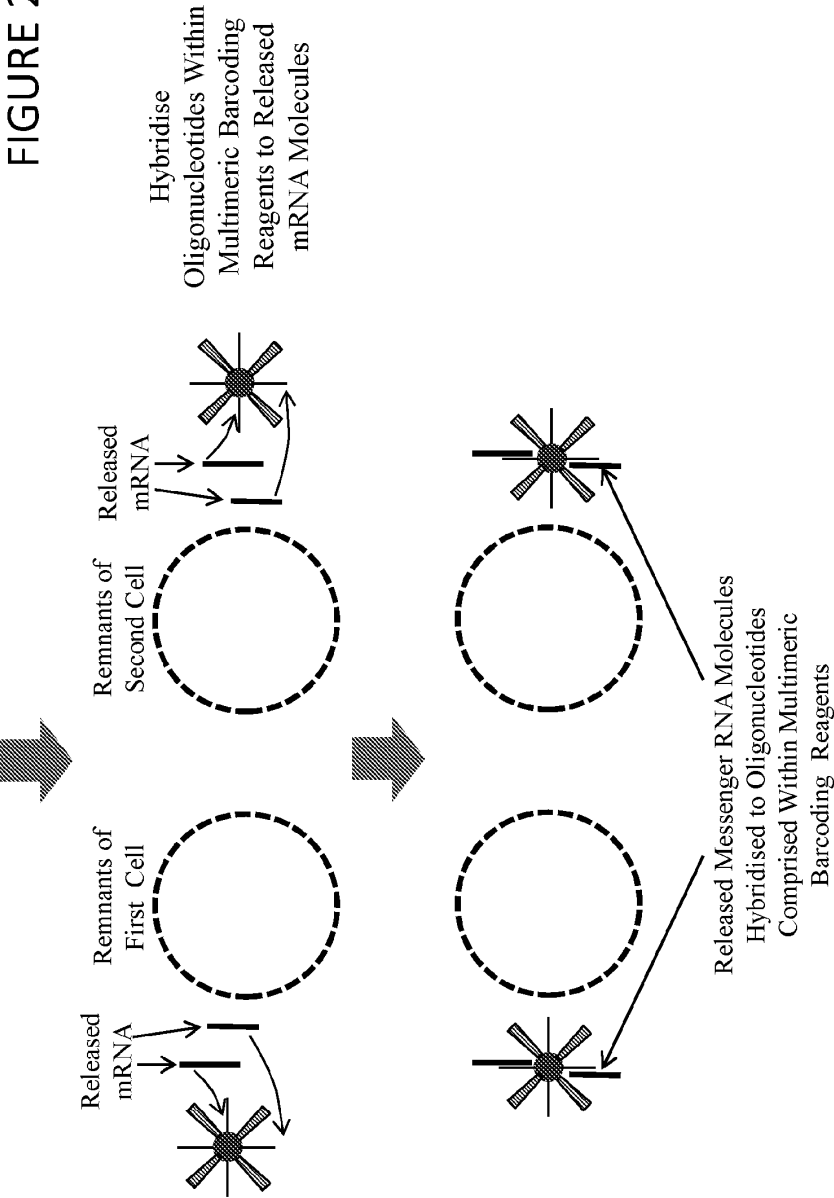
Barcoding Cellular Nucleic Acids with a Membrane-Permeabilisation Step

FIGURE 23



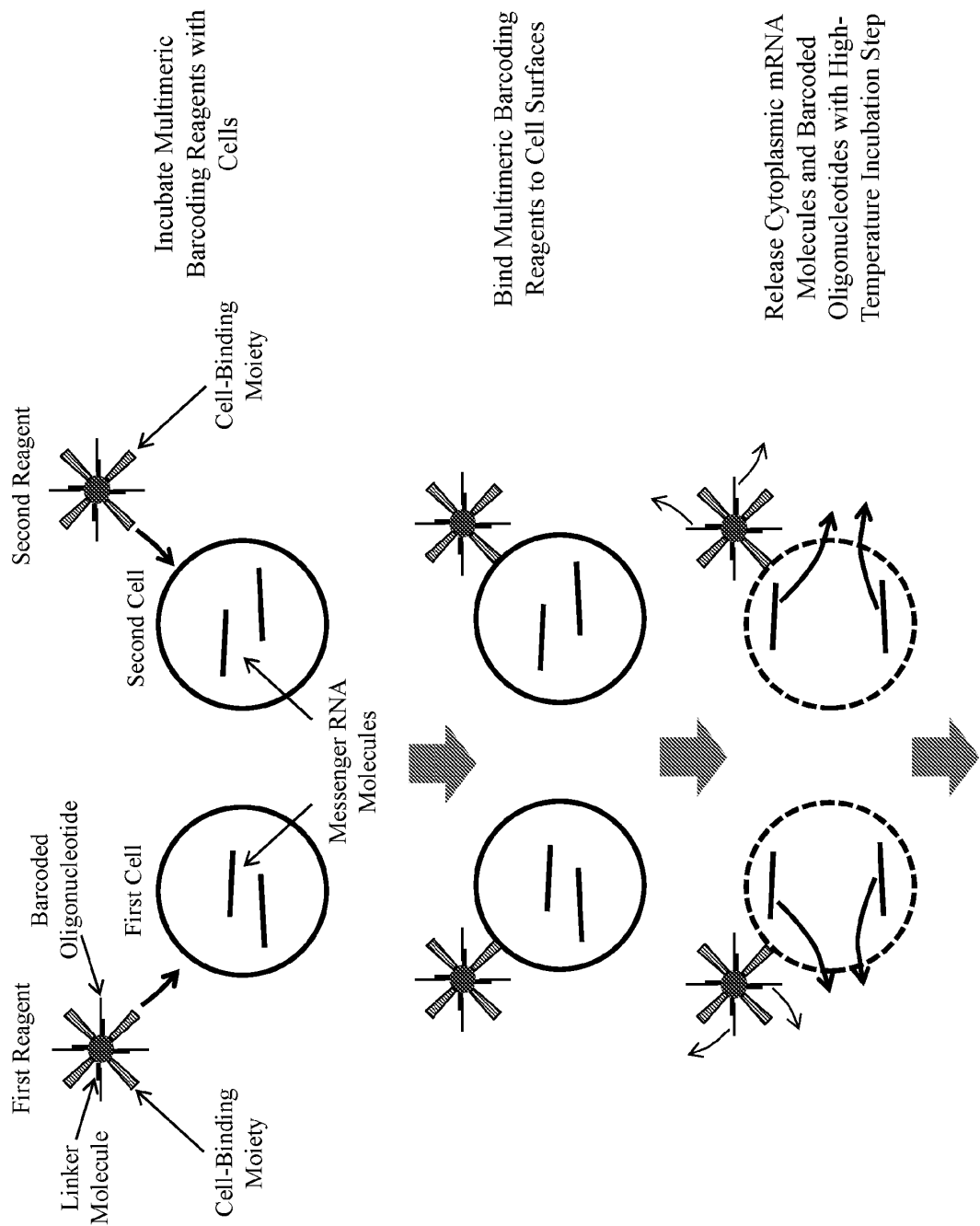
Barcoding Cellular Nucleic Acids with a Membrane-Permeabilisation Step

FIGURE 23



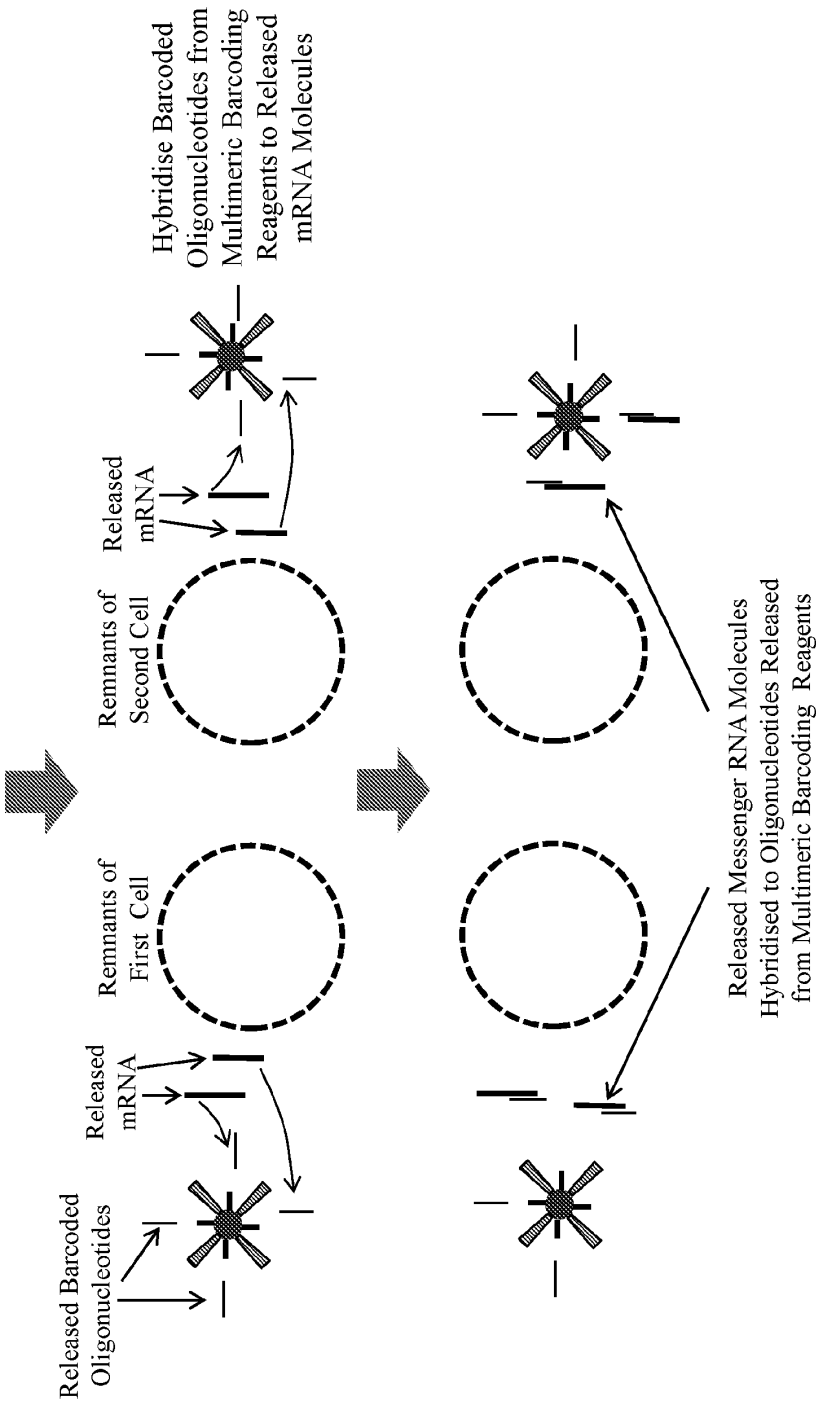
Barcoding Cellular Nucleic Acids with a Membrane-Permeabilisation and Barcoded Oligonucleotide-Release Step

FIGURE 24



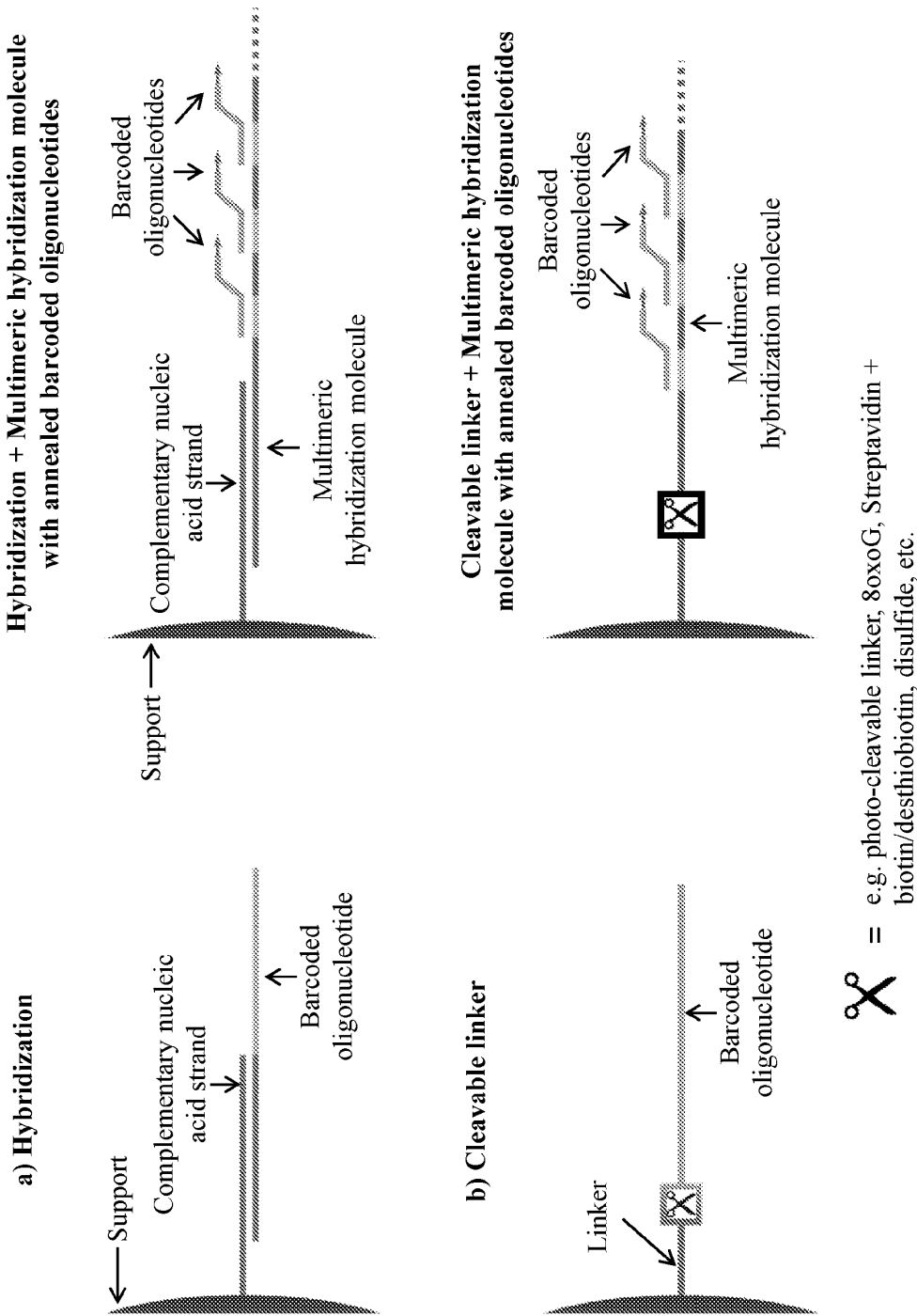
Barcoding Cellular Nucleic Acids with a Membrane-Permeabilisation and Barcoded Oligonucleotide-Release Step

FIGURE 24



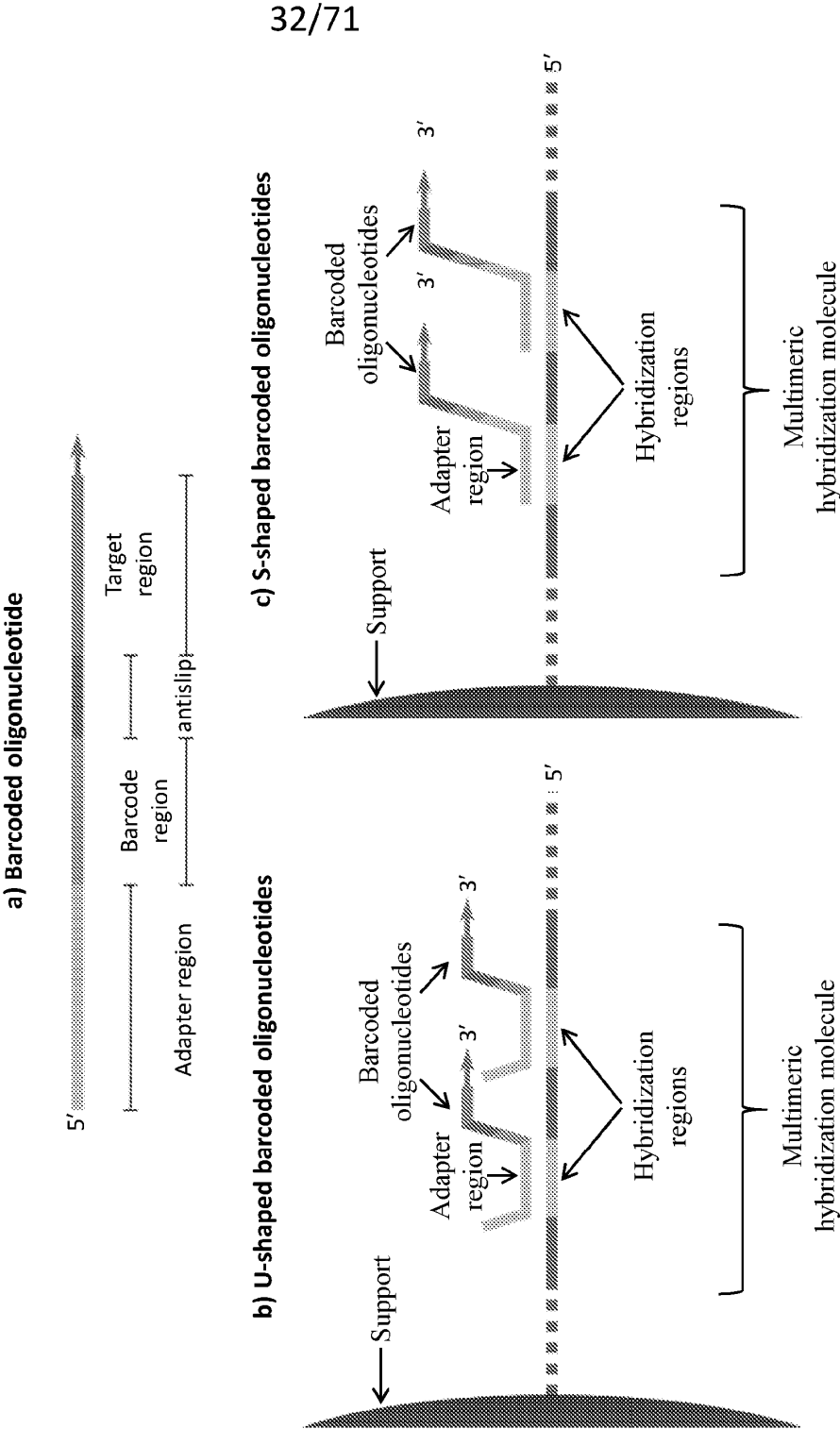
Options for the attachment of barcoded oligonucleotides to a support

FIGURE 25



Options for annealing barcoded oligonucleotides to a multimeric hybridization molecule

FIGURE 26



Options for linking a cell-binding moiety to a multimeric hybridization molecule

FIGURE 27

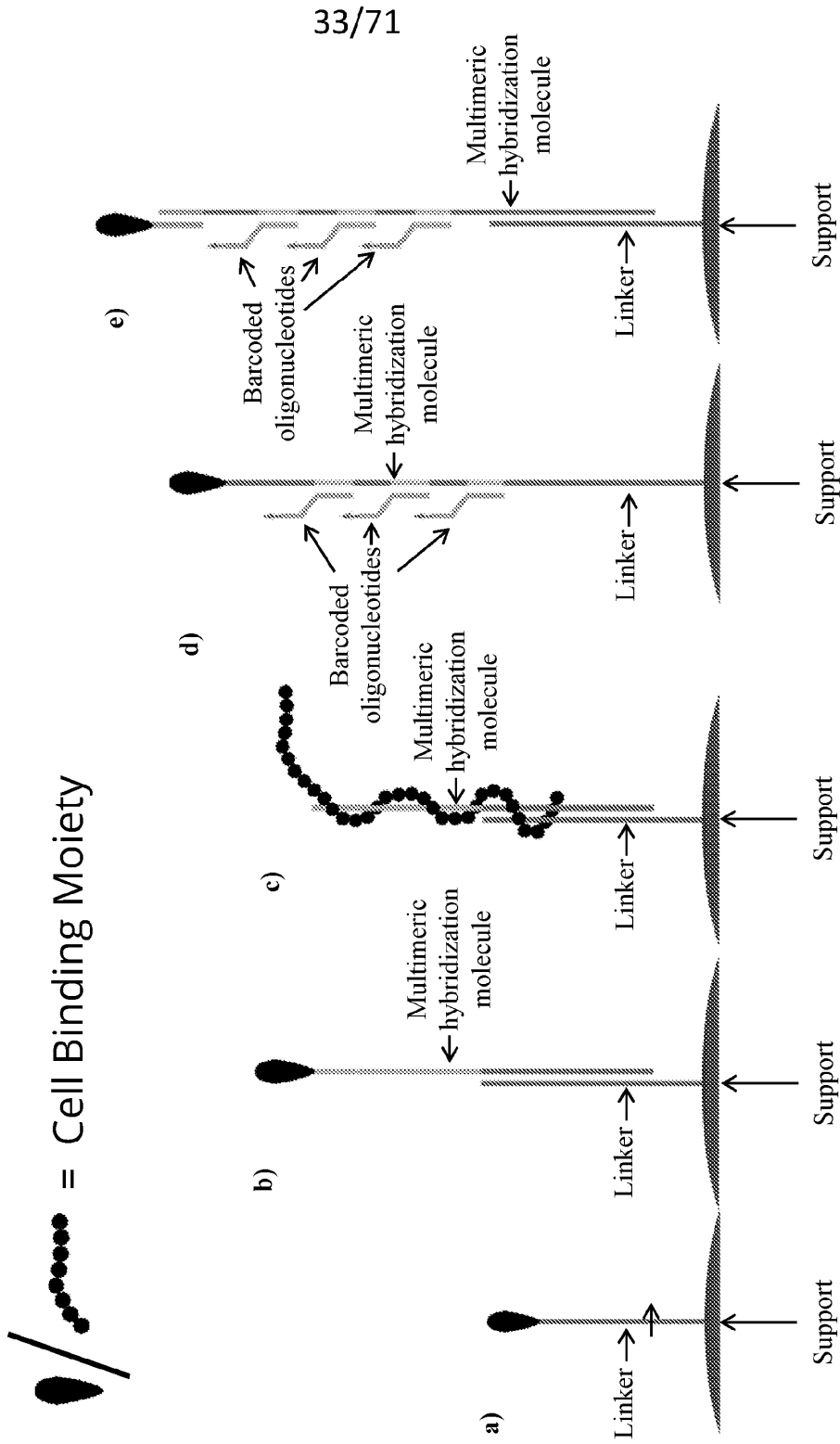


FIGURE 28

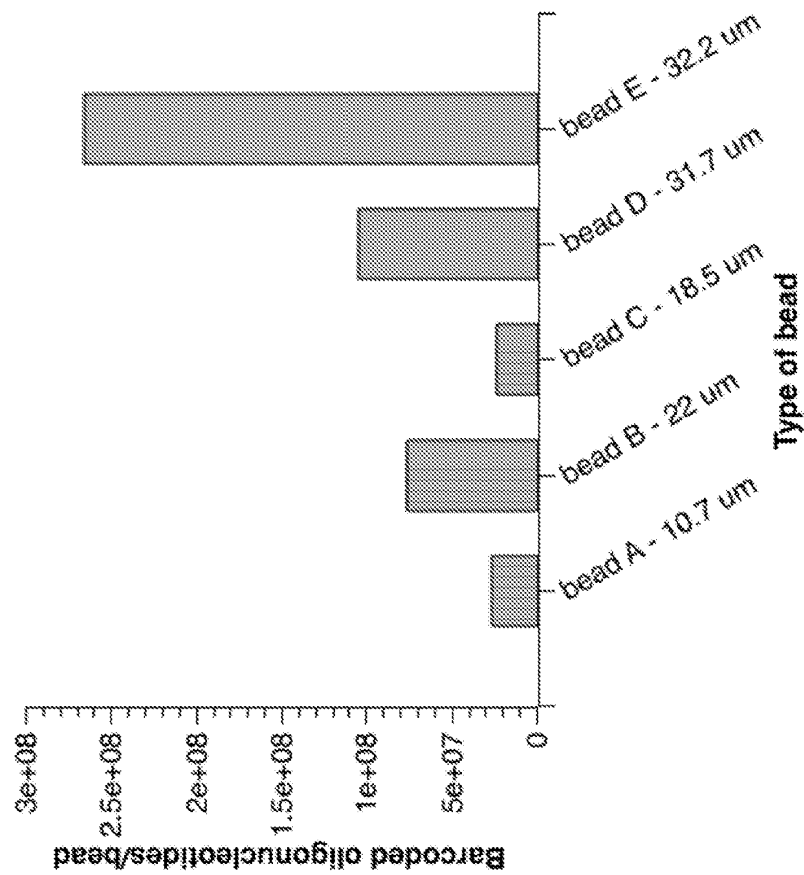
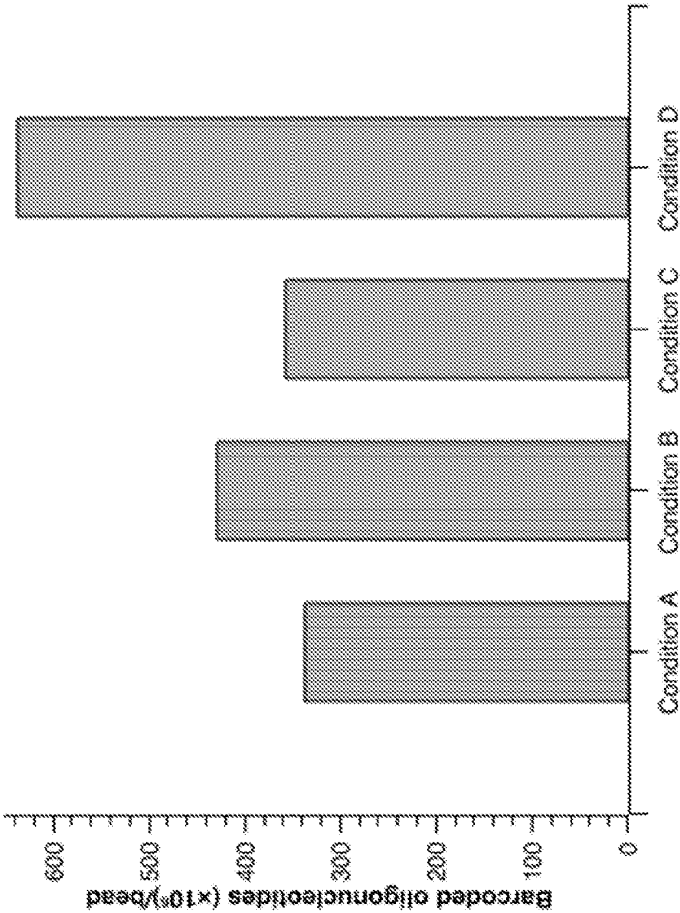


FIGURE 29



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FIGURE 30

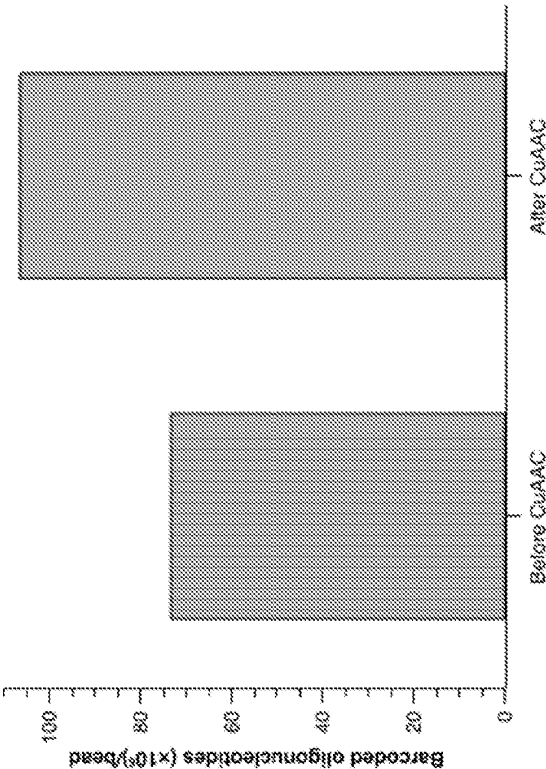


FIGURE 31

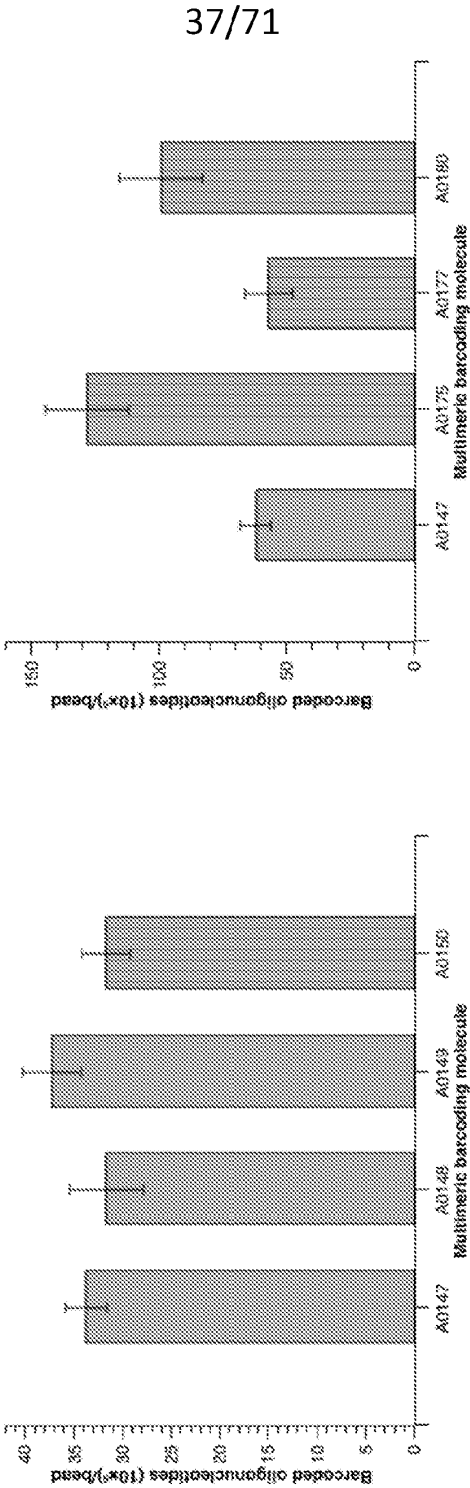


FIGURE 32

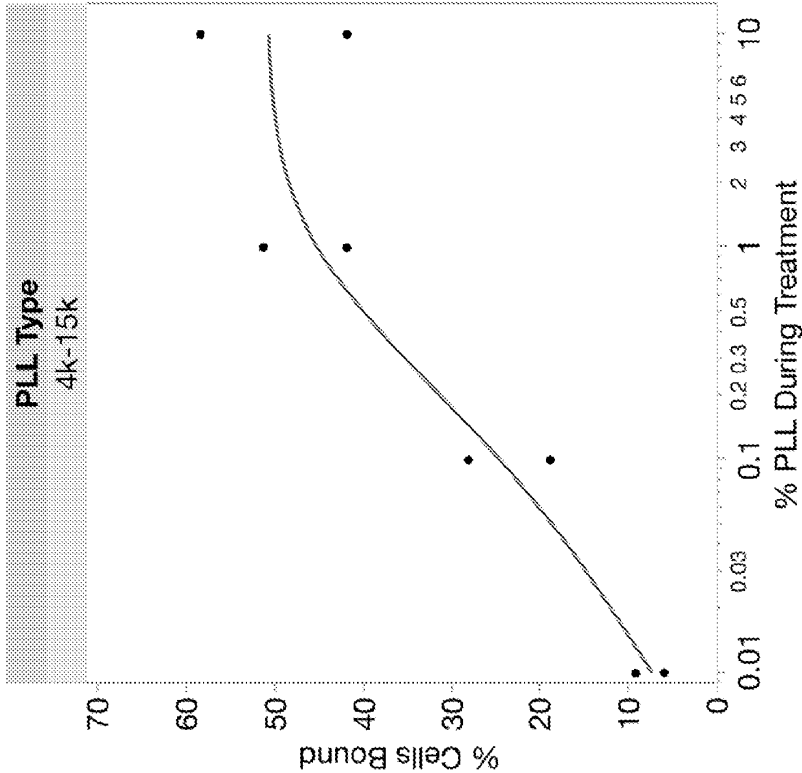


FIGURE 33

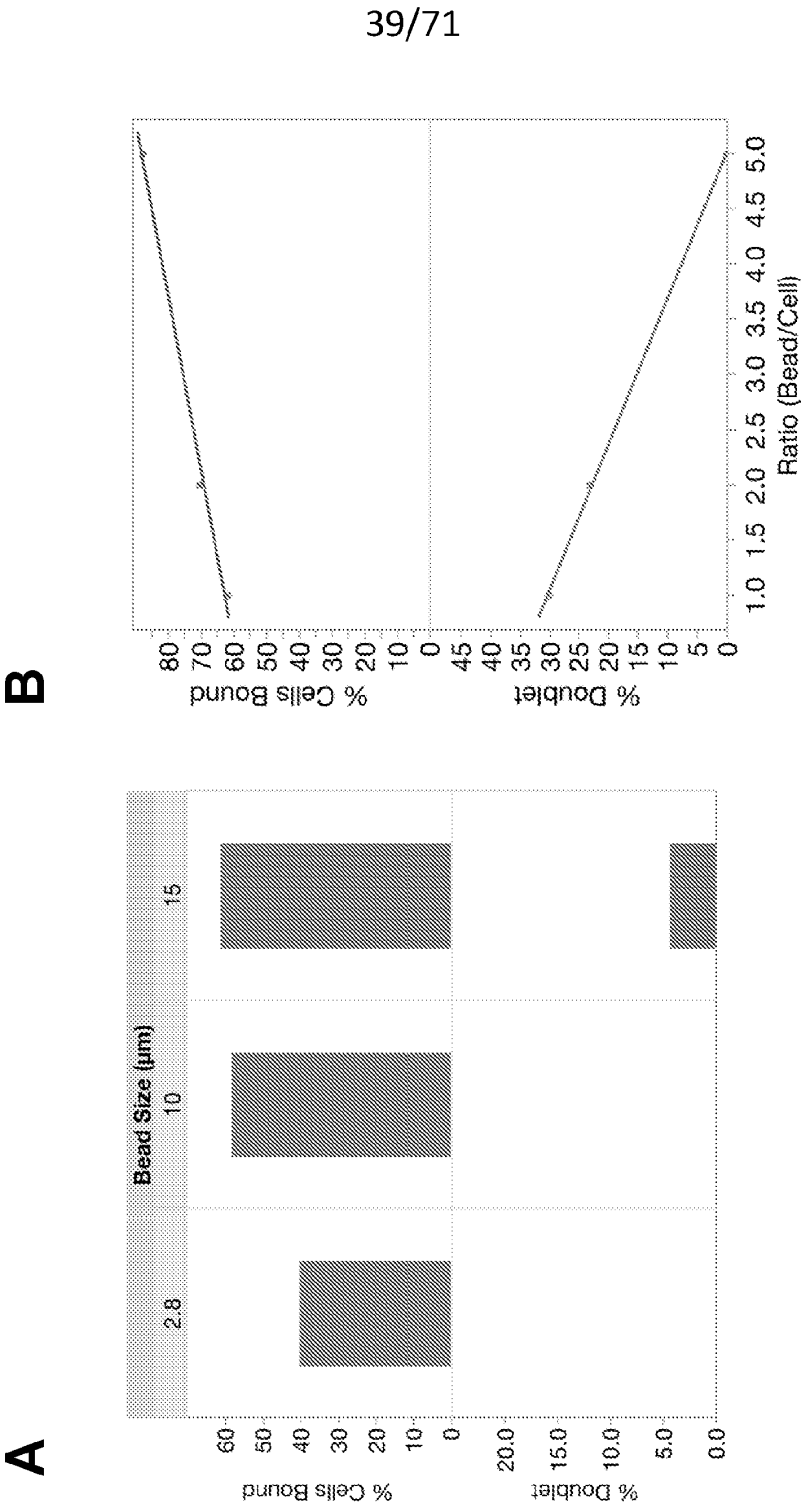
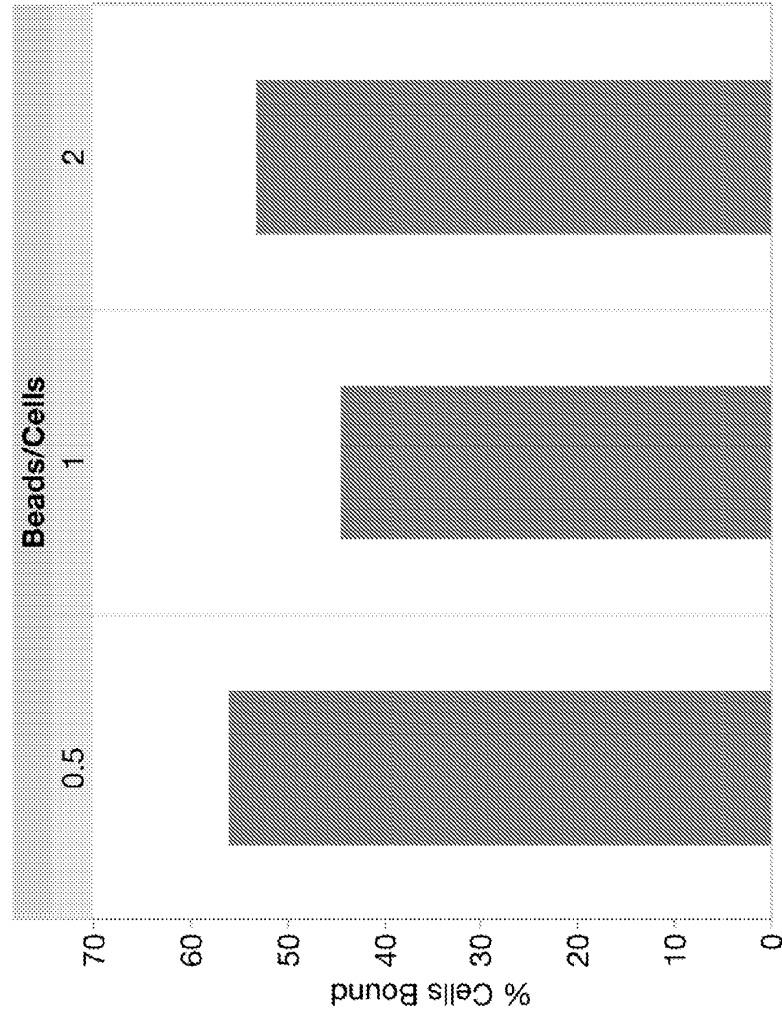


FIGURE 34



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FIGURE 35

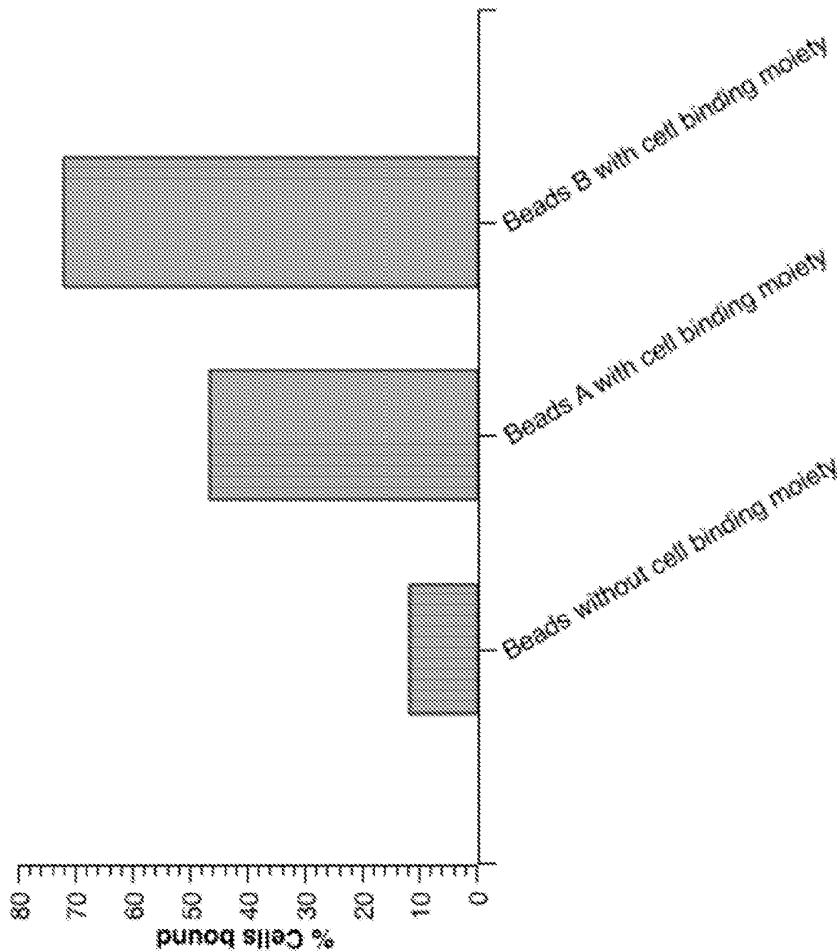


FIGURE 36

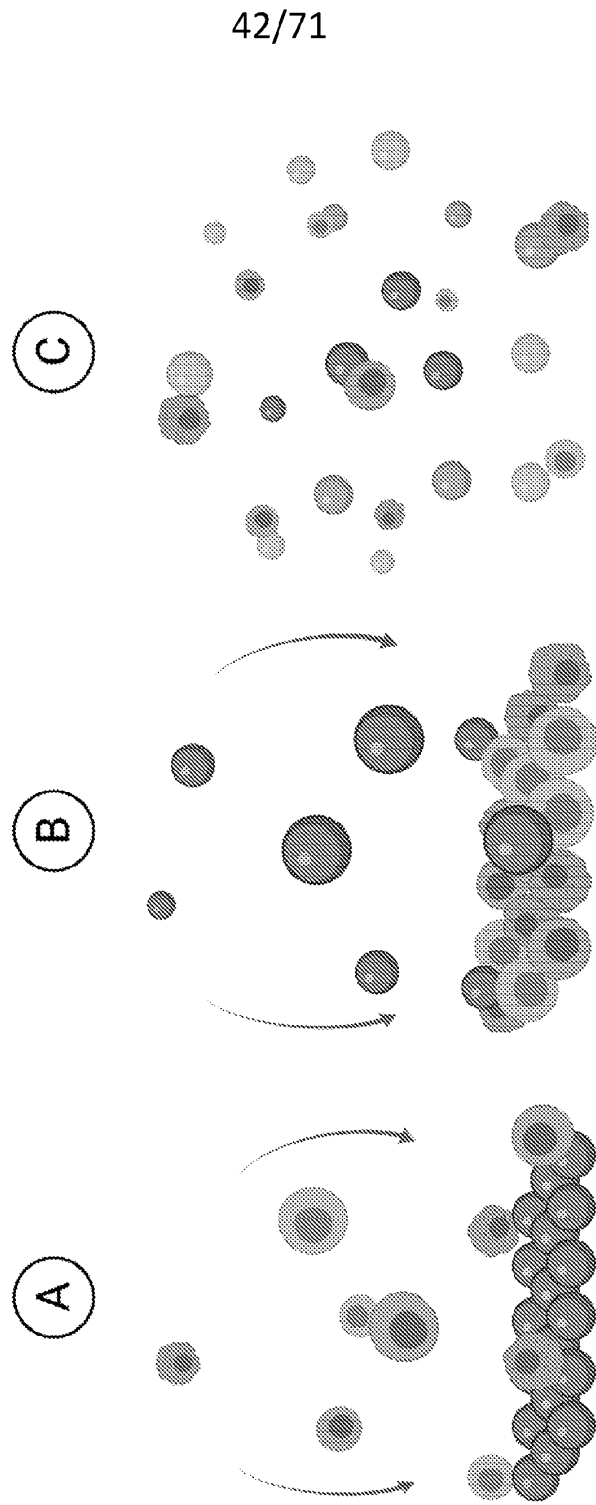


FIGURE 37

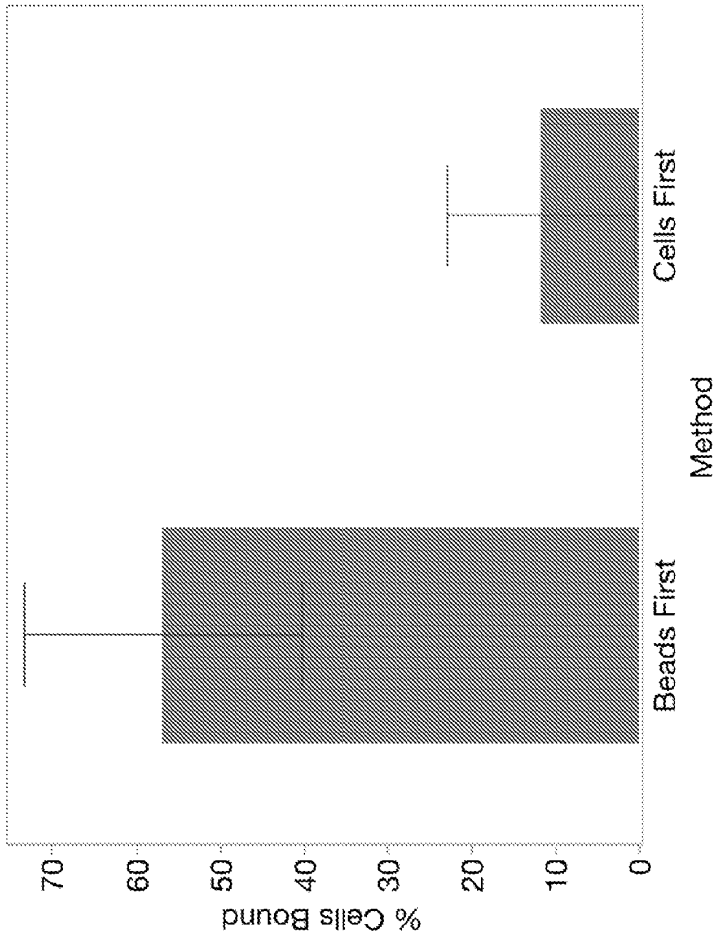


FIGURE 38

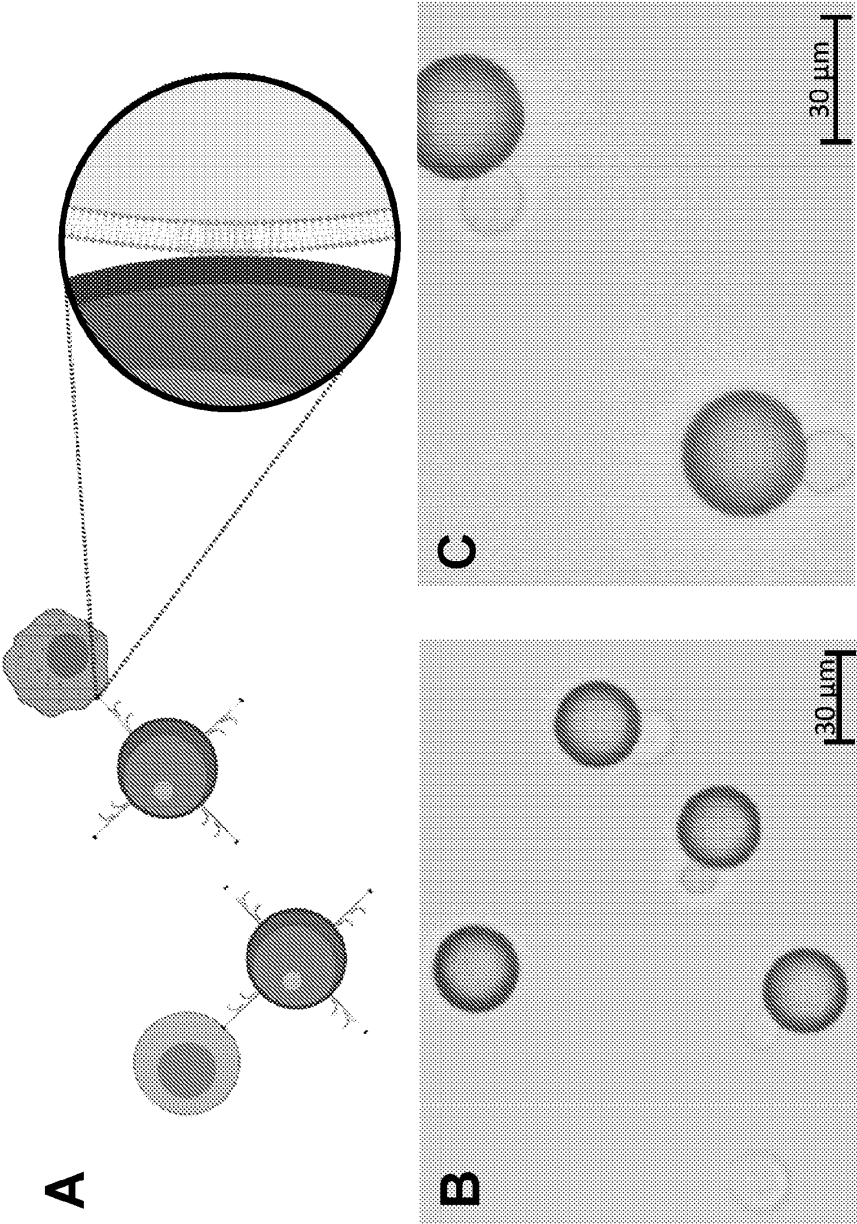


FIGURE 39

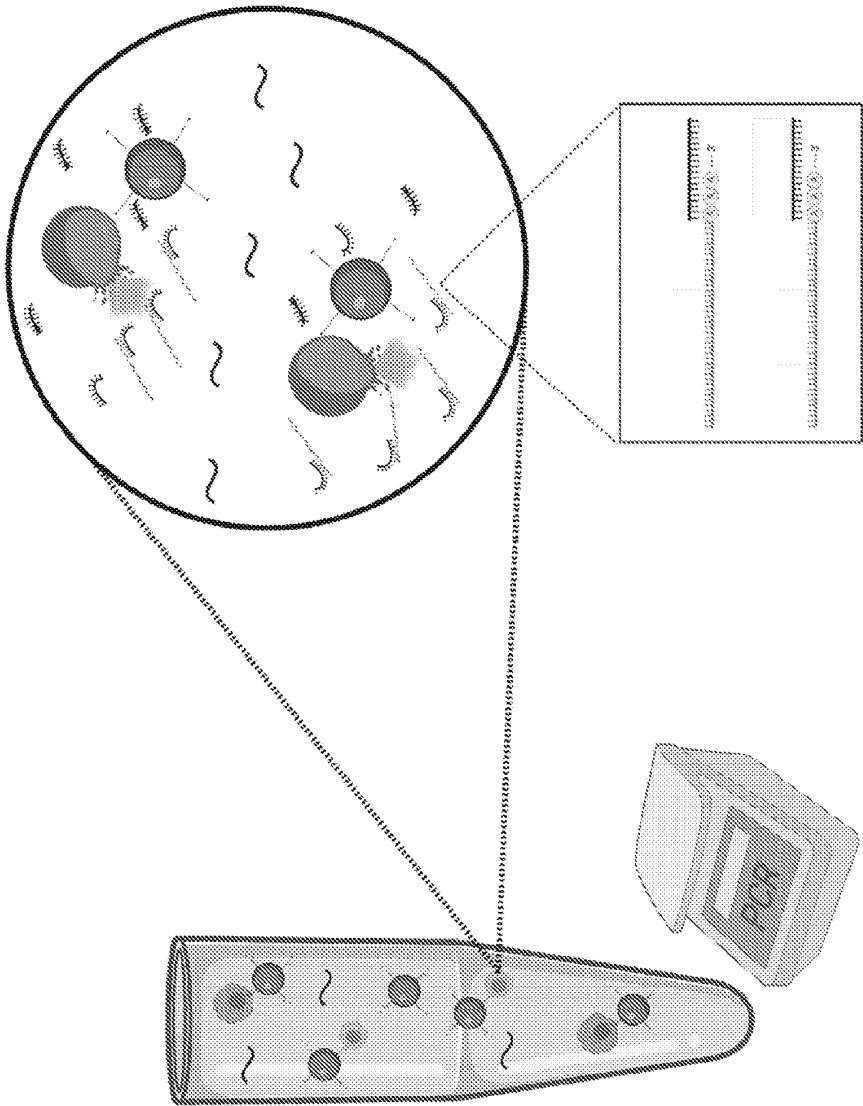


FIGURE 40

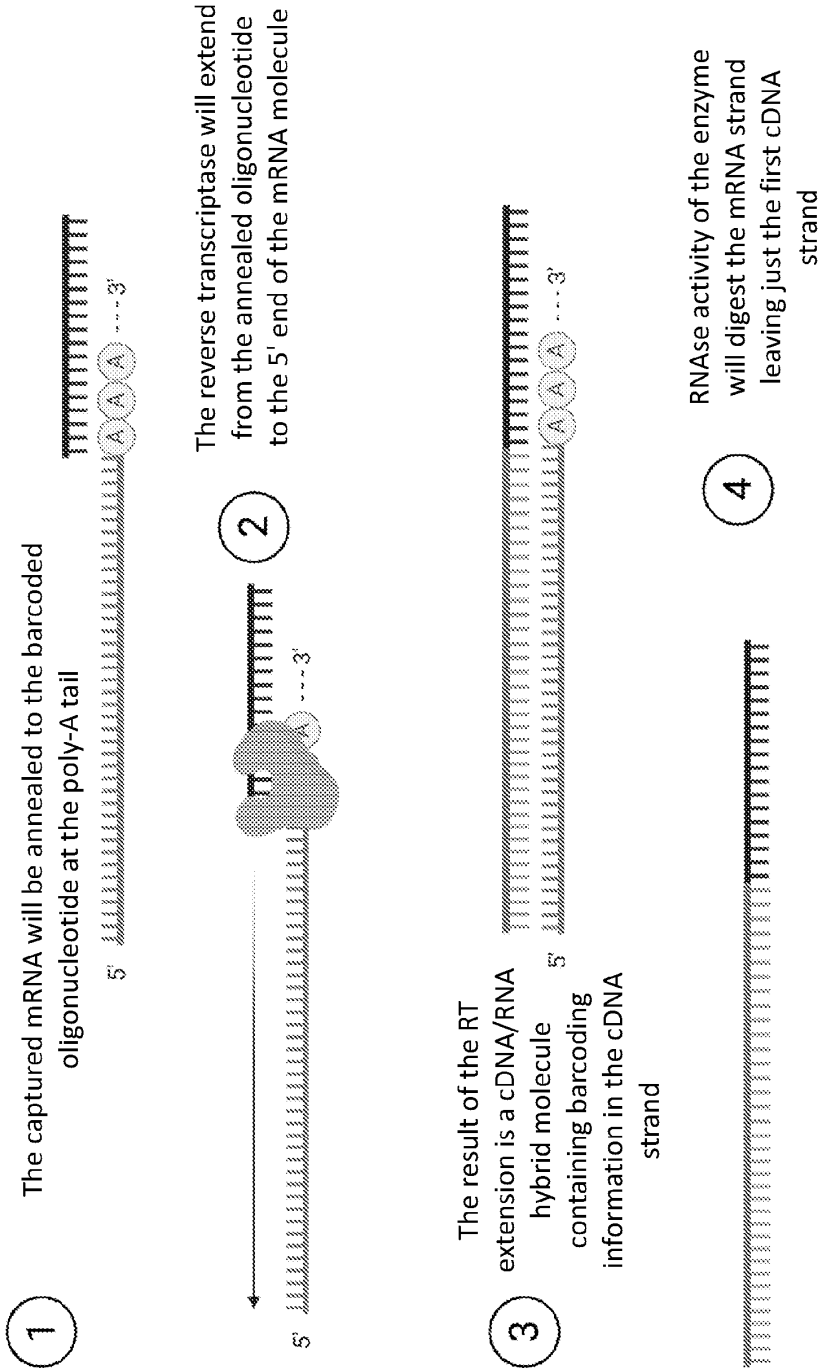
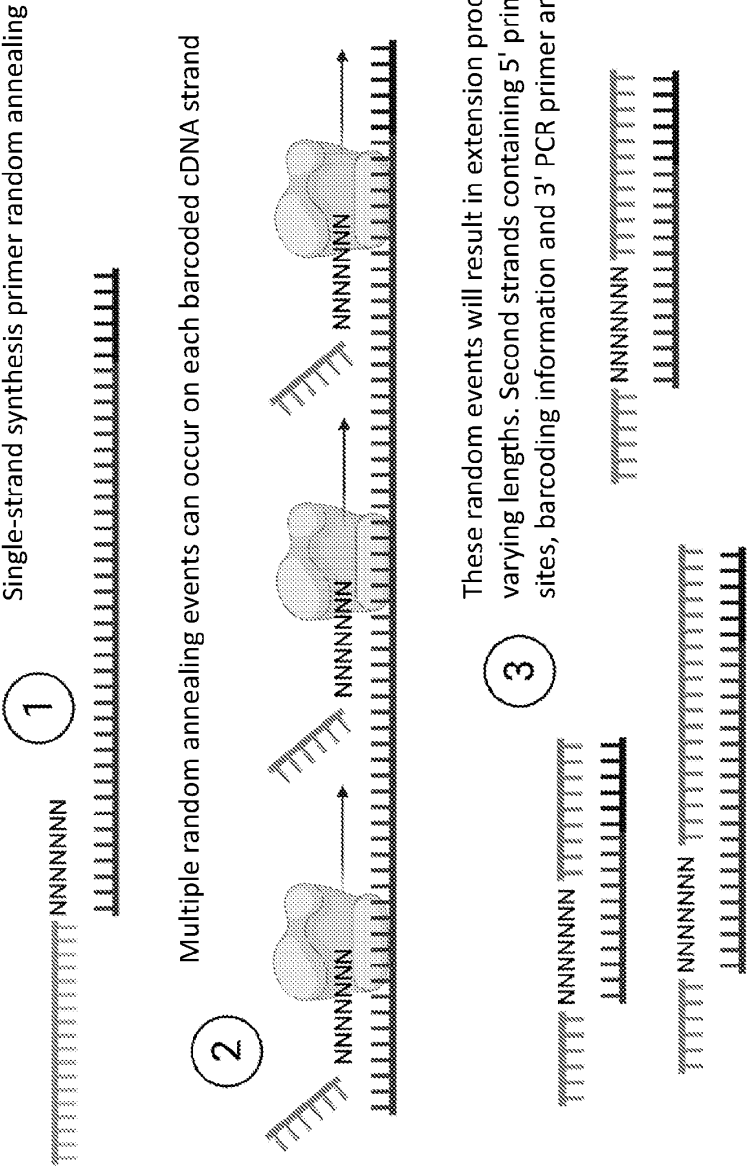


FIGURE 41



These random events will result in extension products of varying lengths. Second strands containing 5' primer annealing sites, barcoding information and 3' PCR primer annealing site.

FIGURE 42

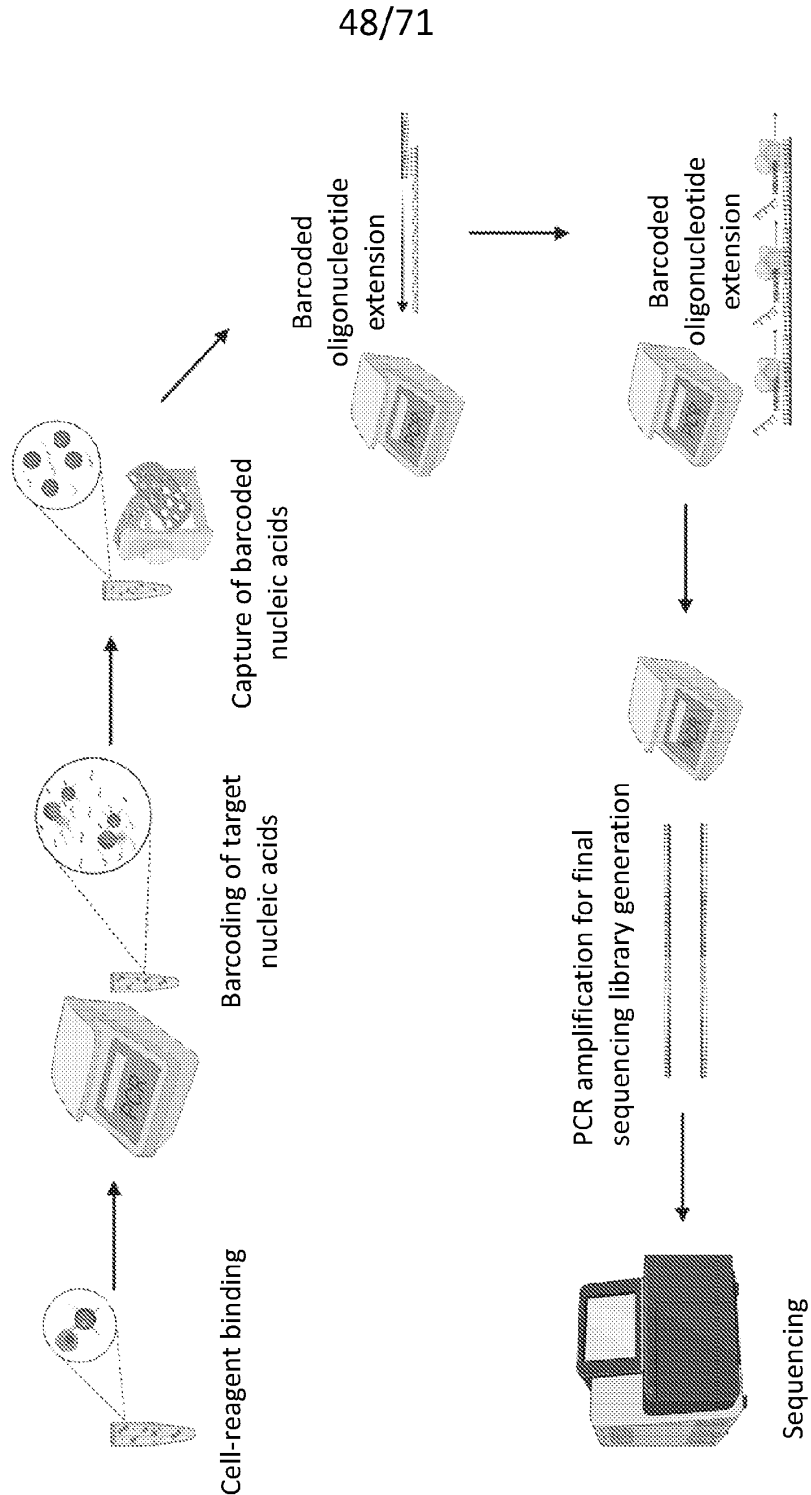
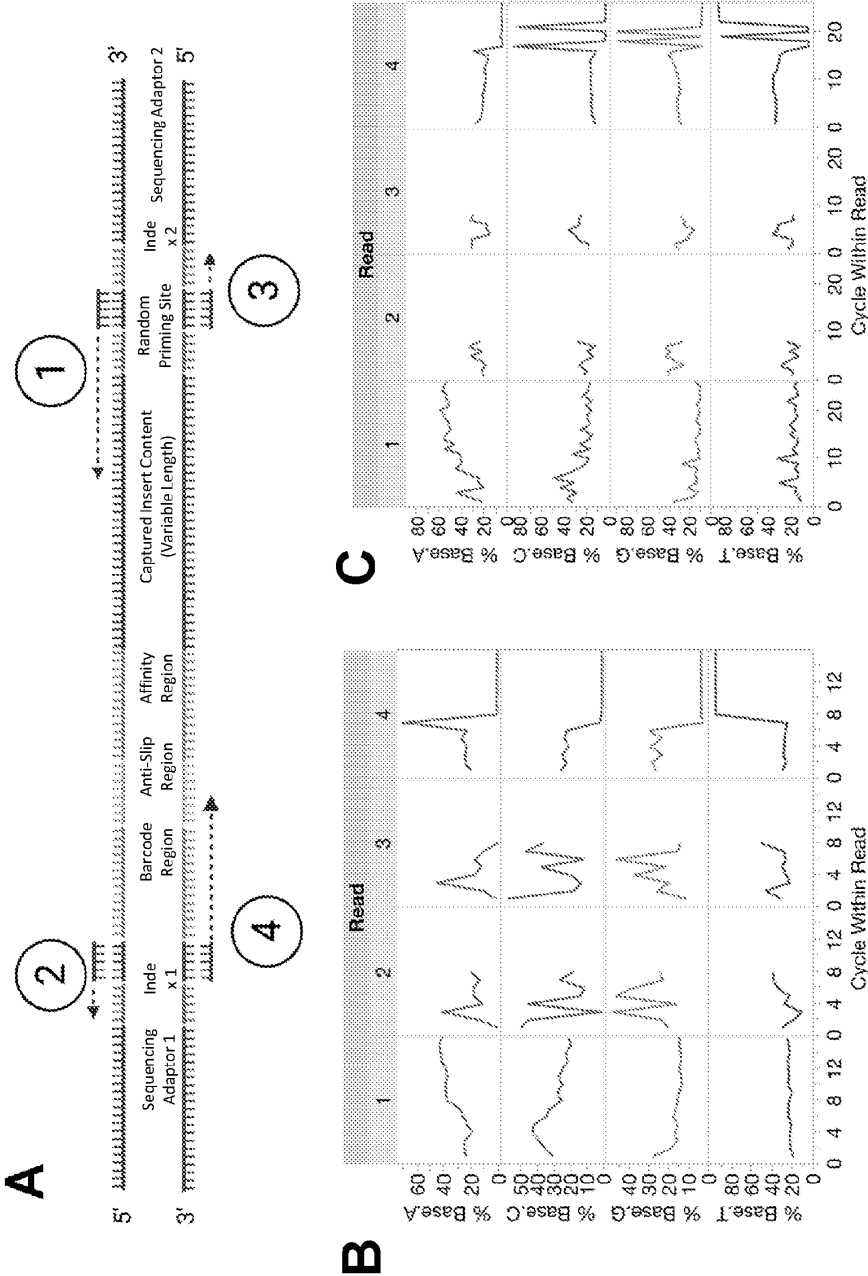


FIGURE 43



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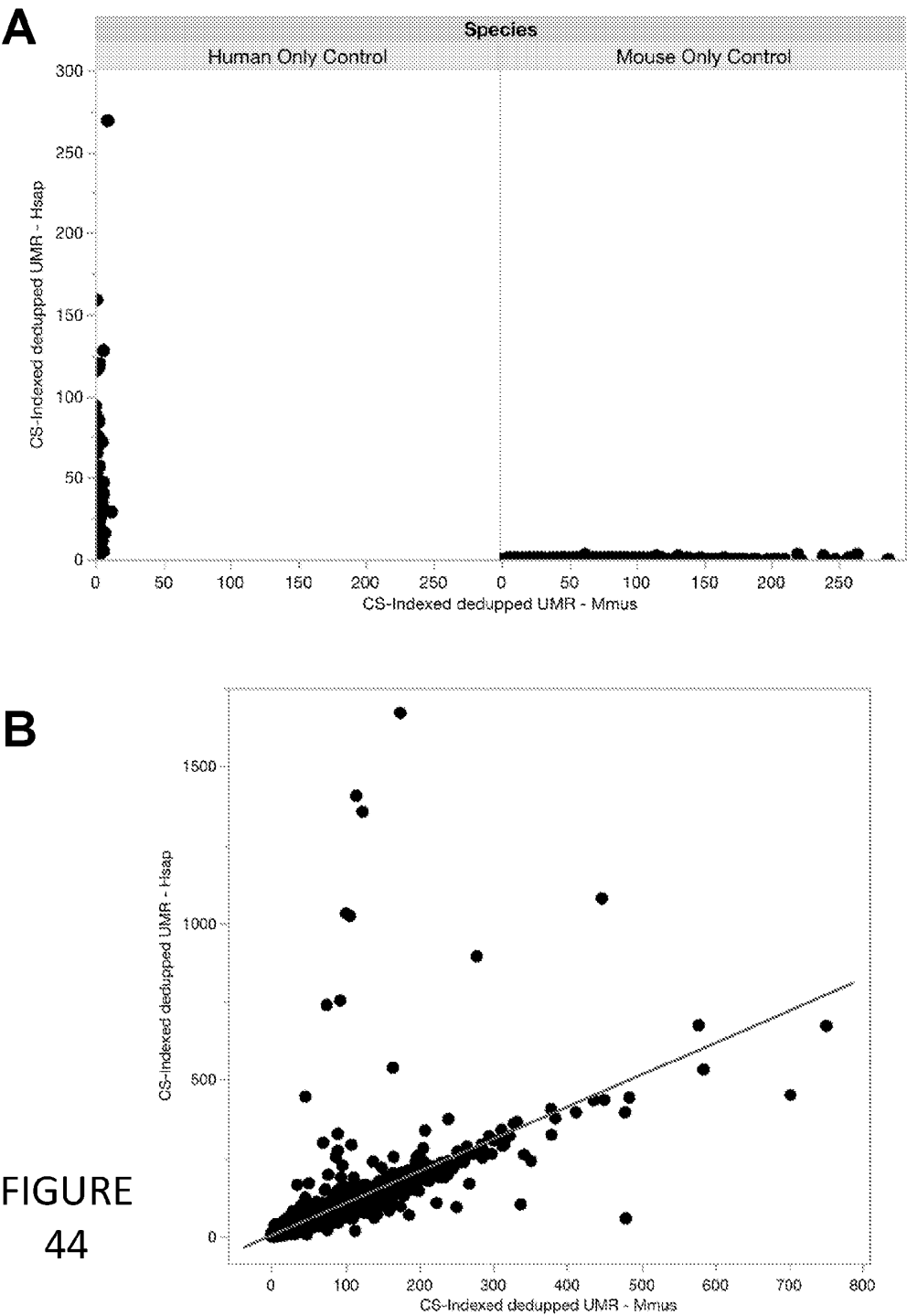


FIGURE
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FIGURE 45

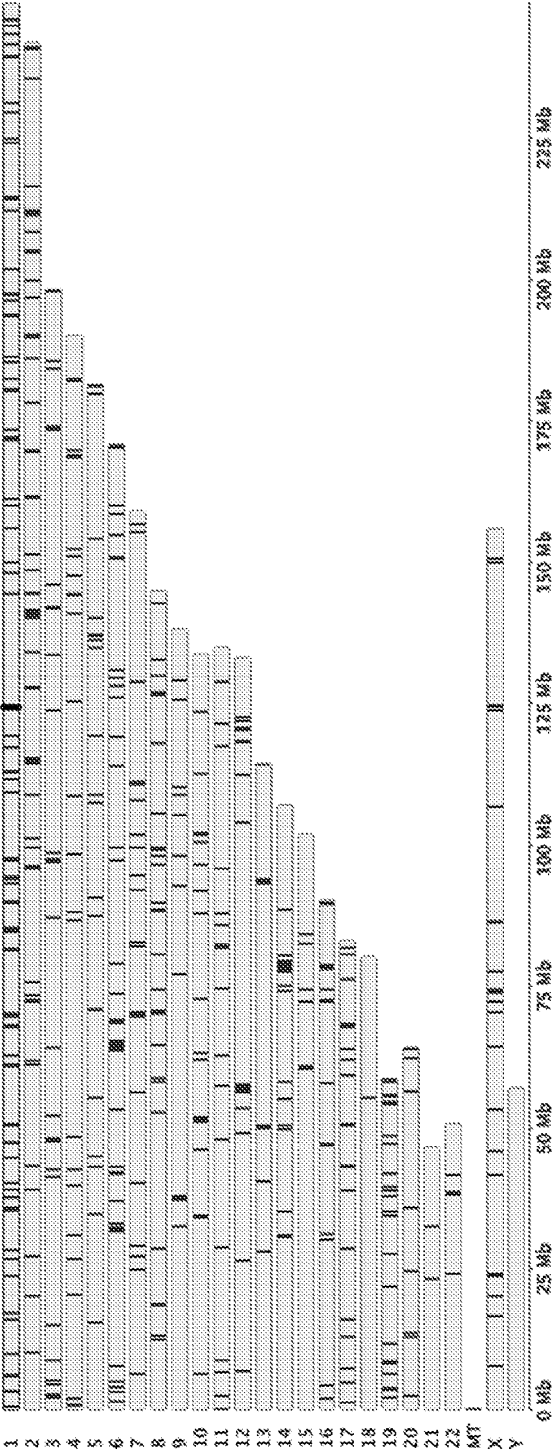
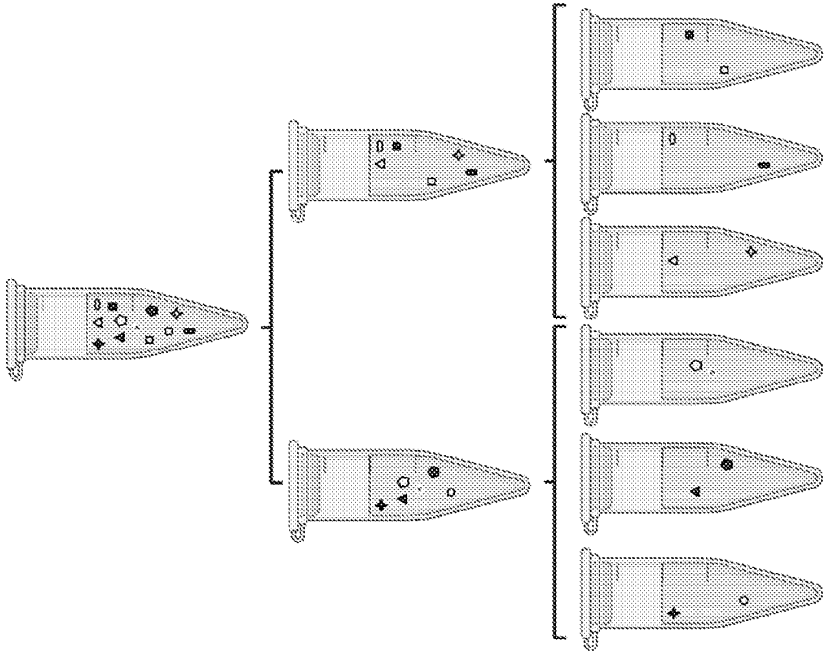
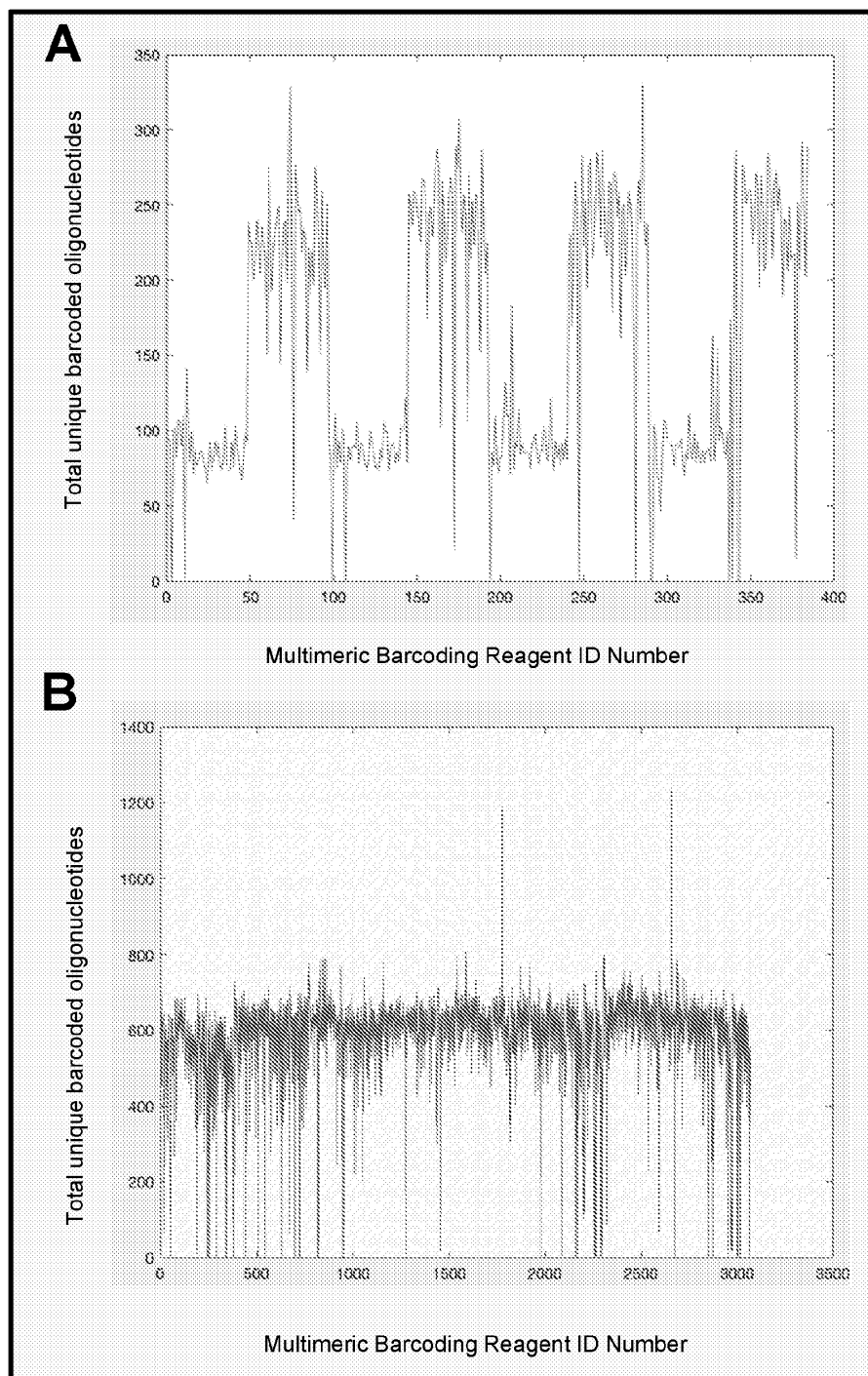


FIGURE 46



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FIGURE
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SUBSTITUTE SHEET (RULE 26)

FIGURE 48

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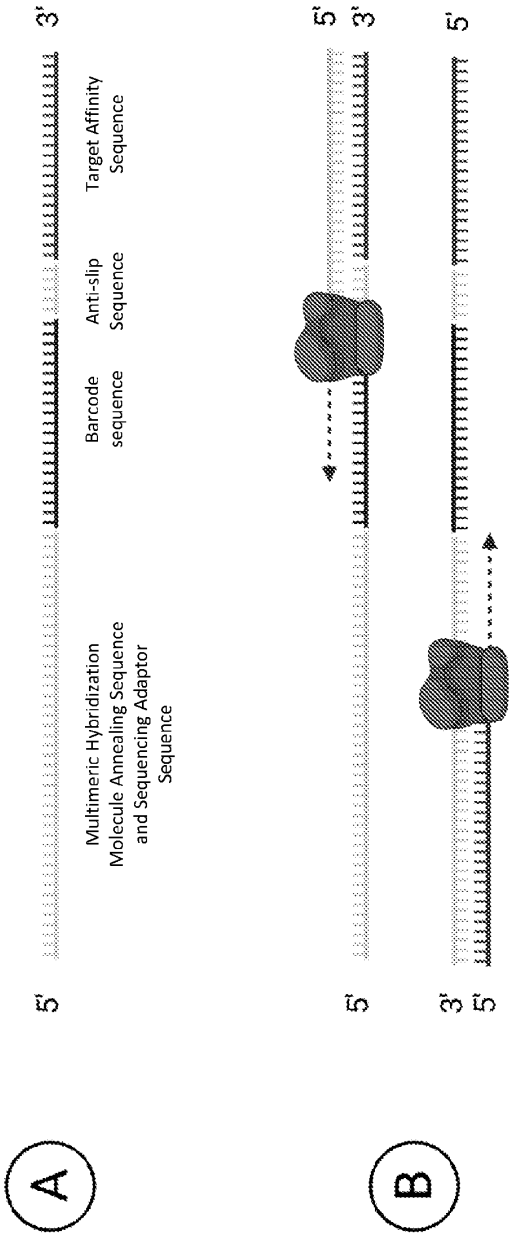


FIGURE 49

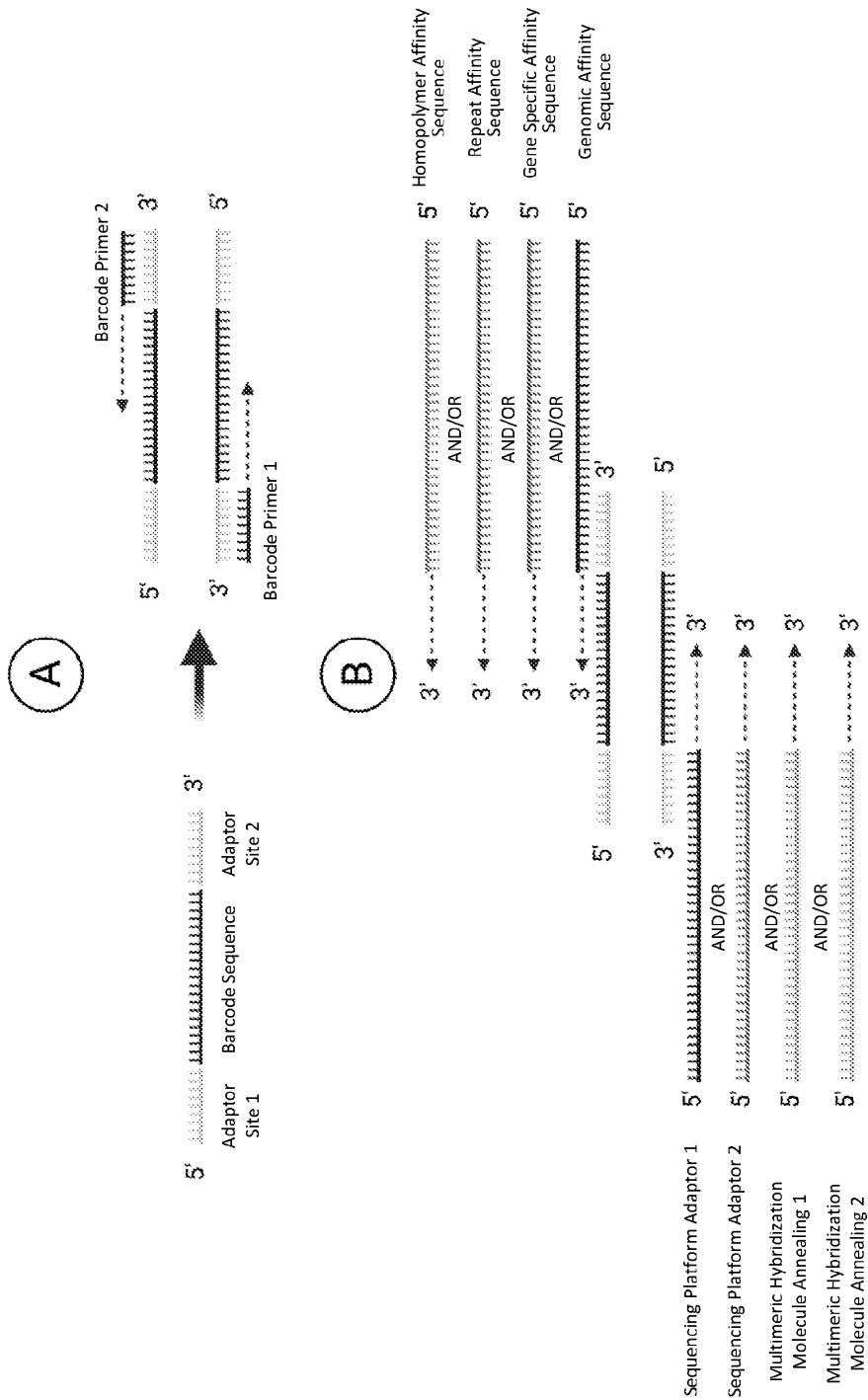


FIGURE 50

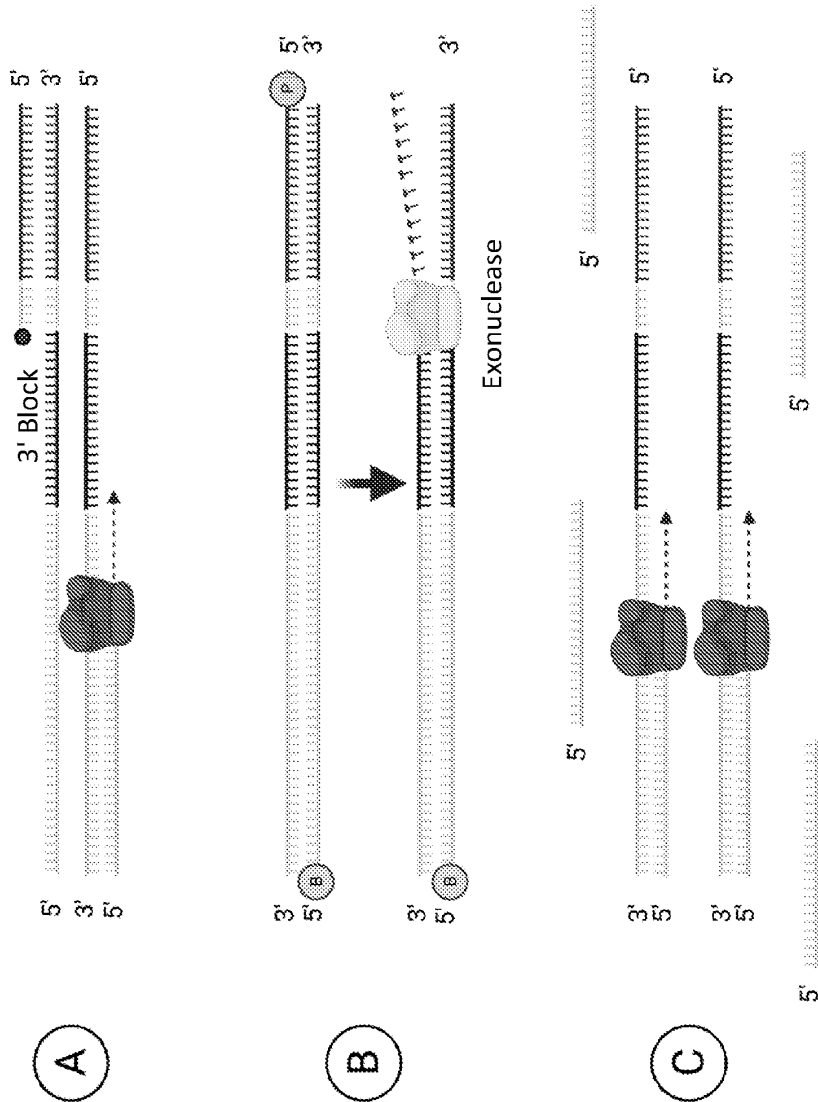
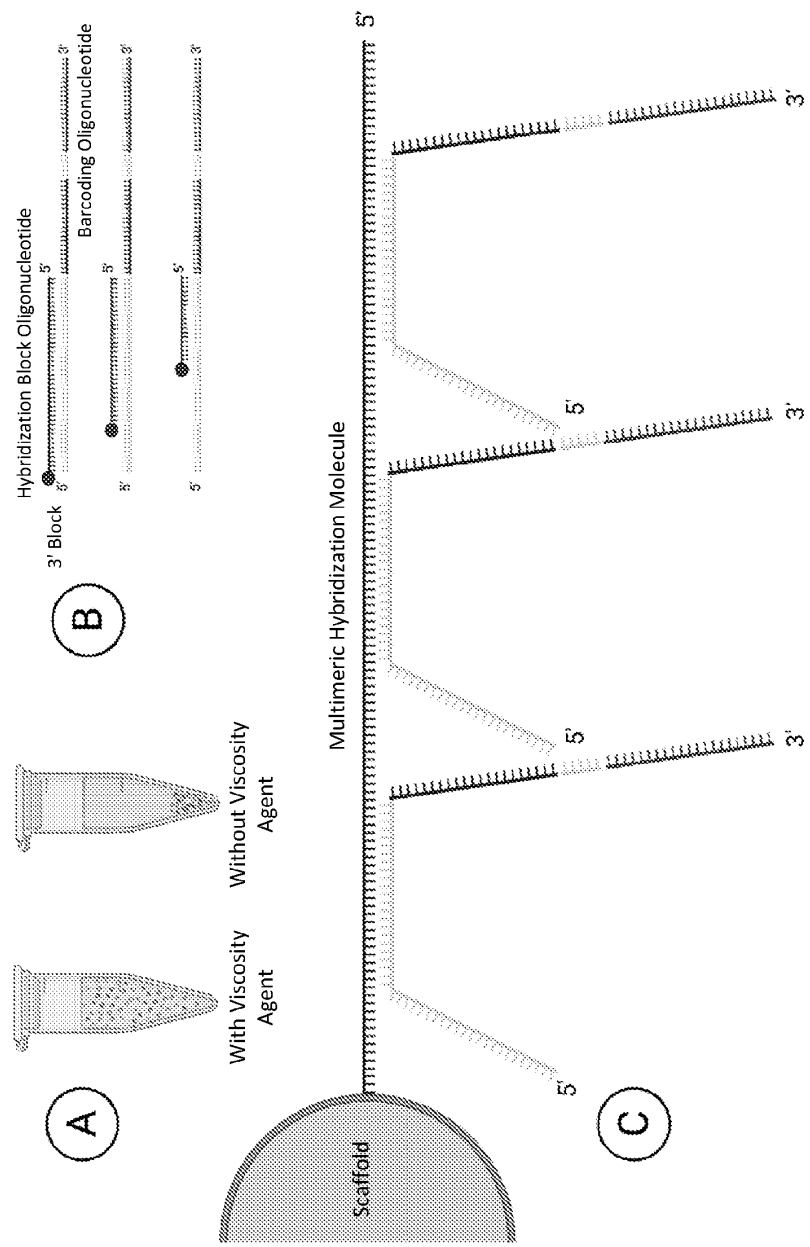
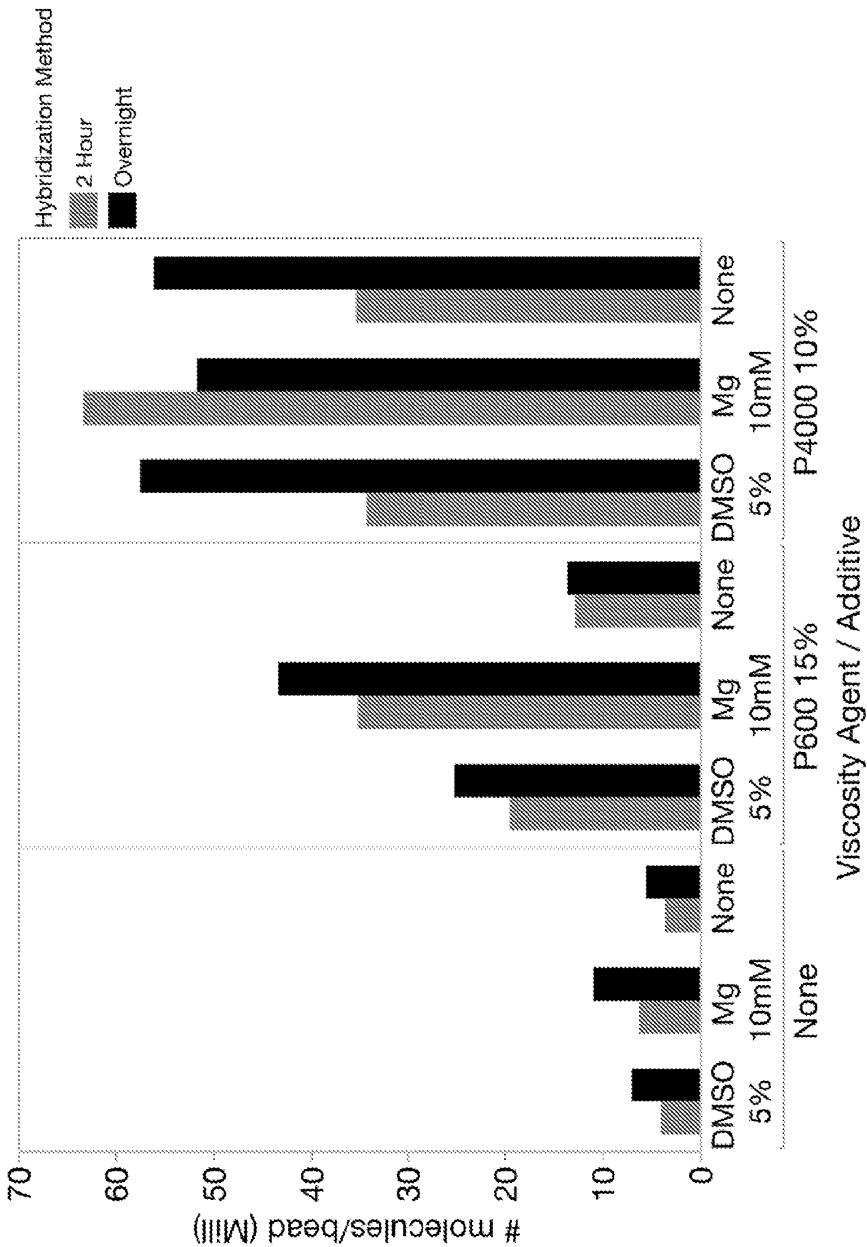


FIGURE 51



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FIGURE 52



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FIGURE
53

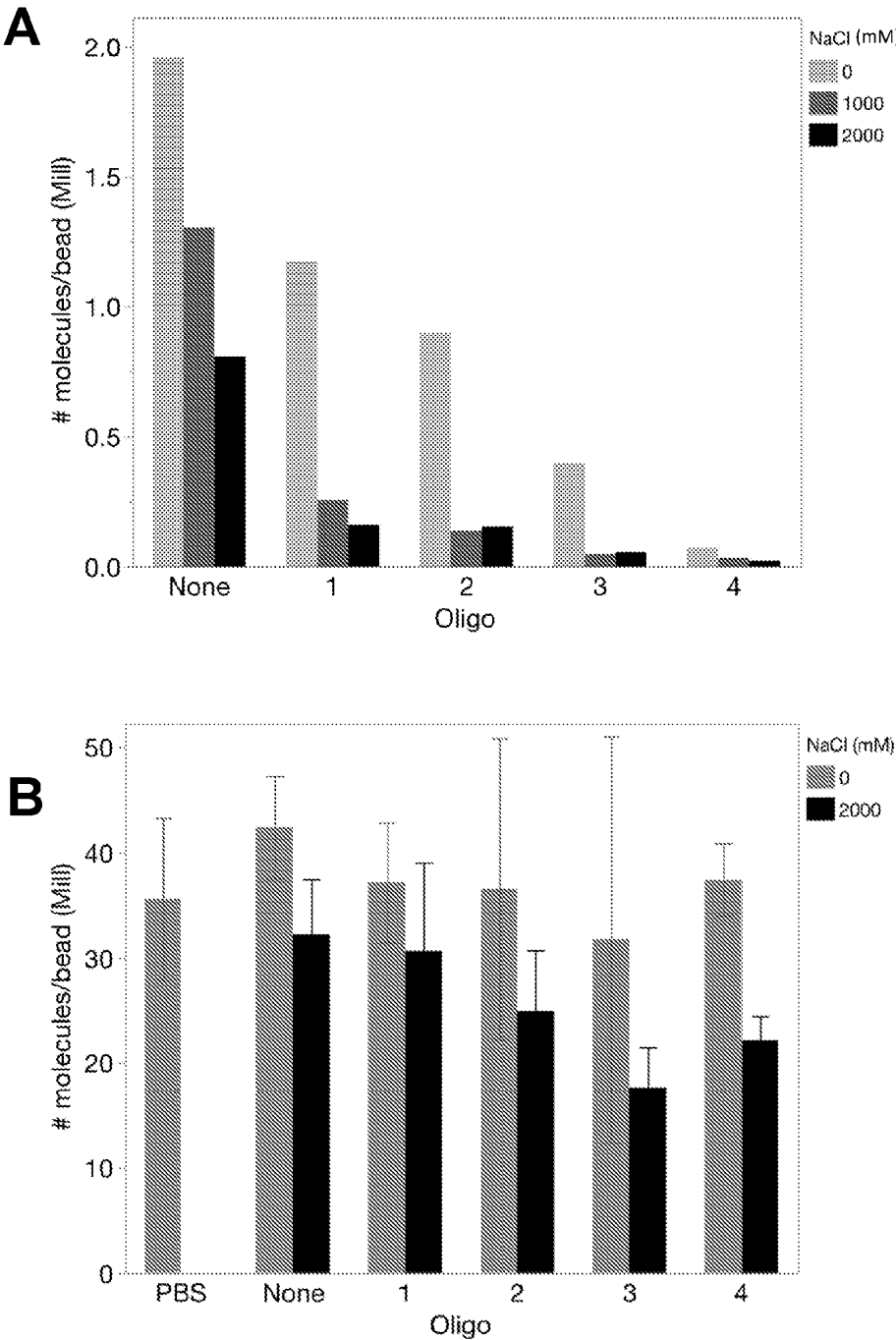


FIGURE 54

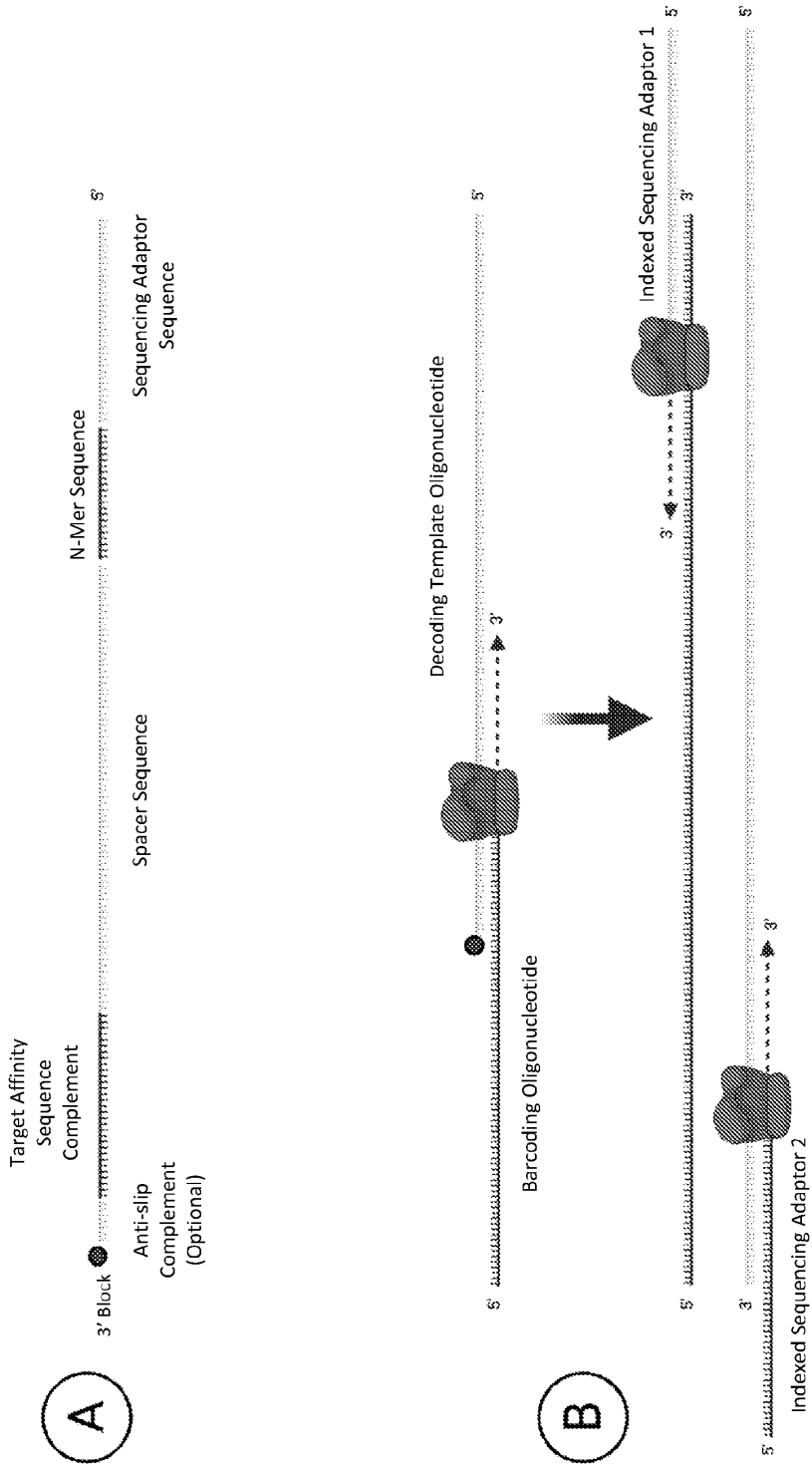
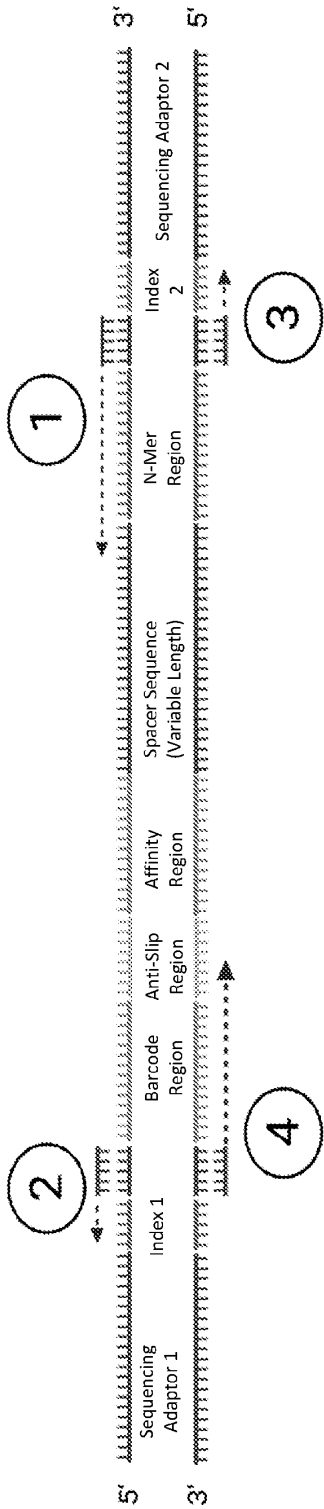
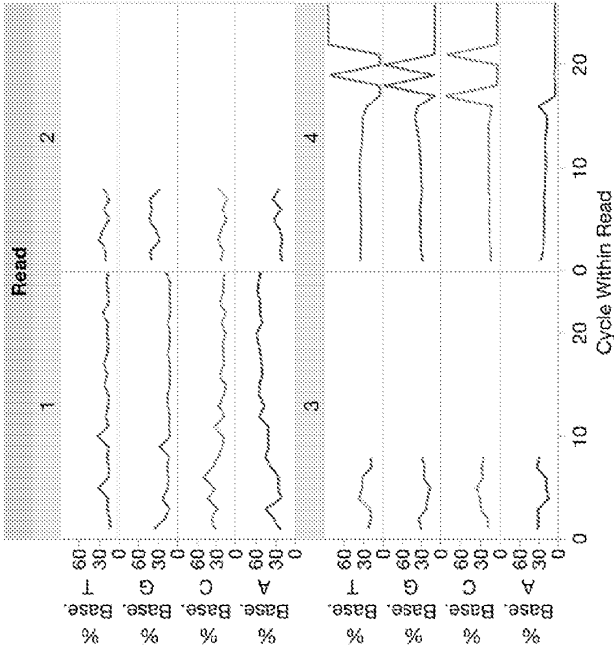


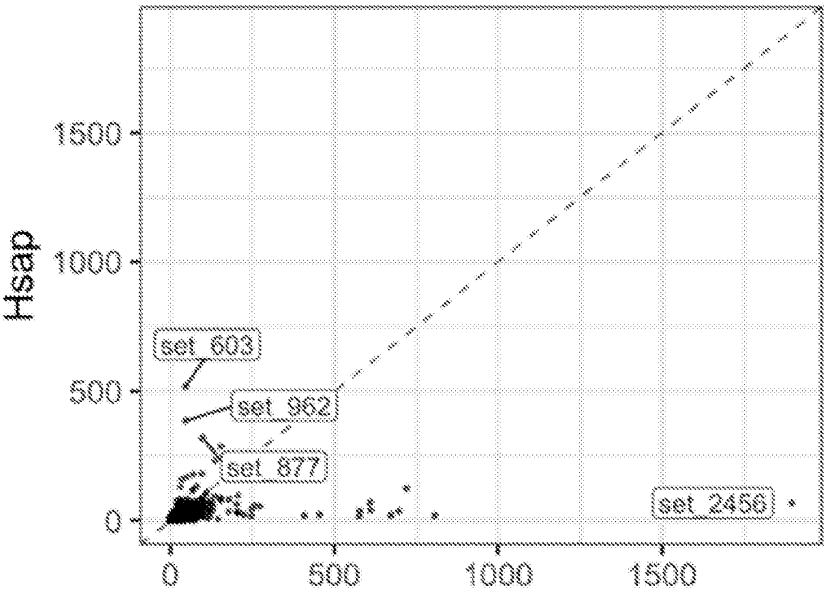
FIGURE 55



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Non-Deduplicated Read Counts



Deduplicated Read Counts

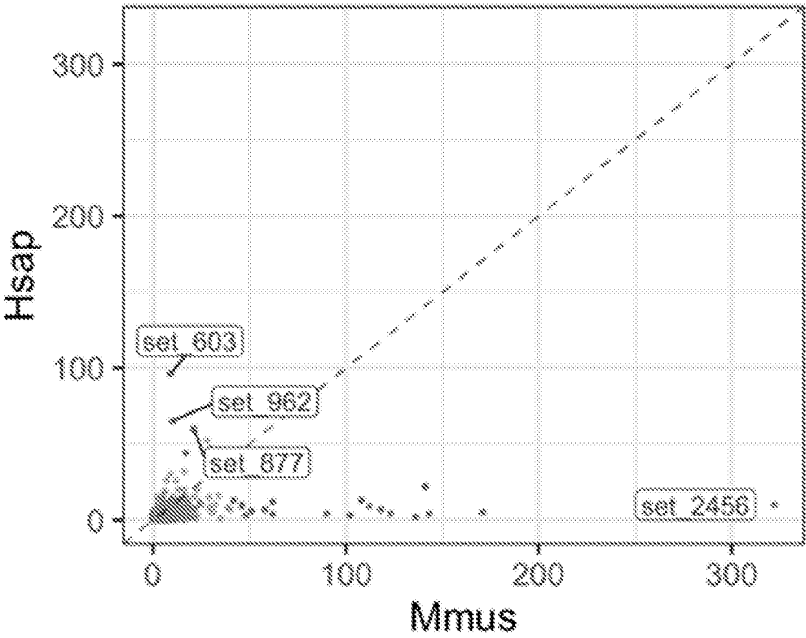


FIGURE 58

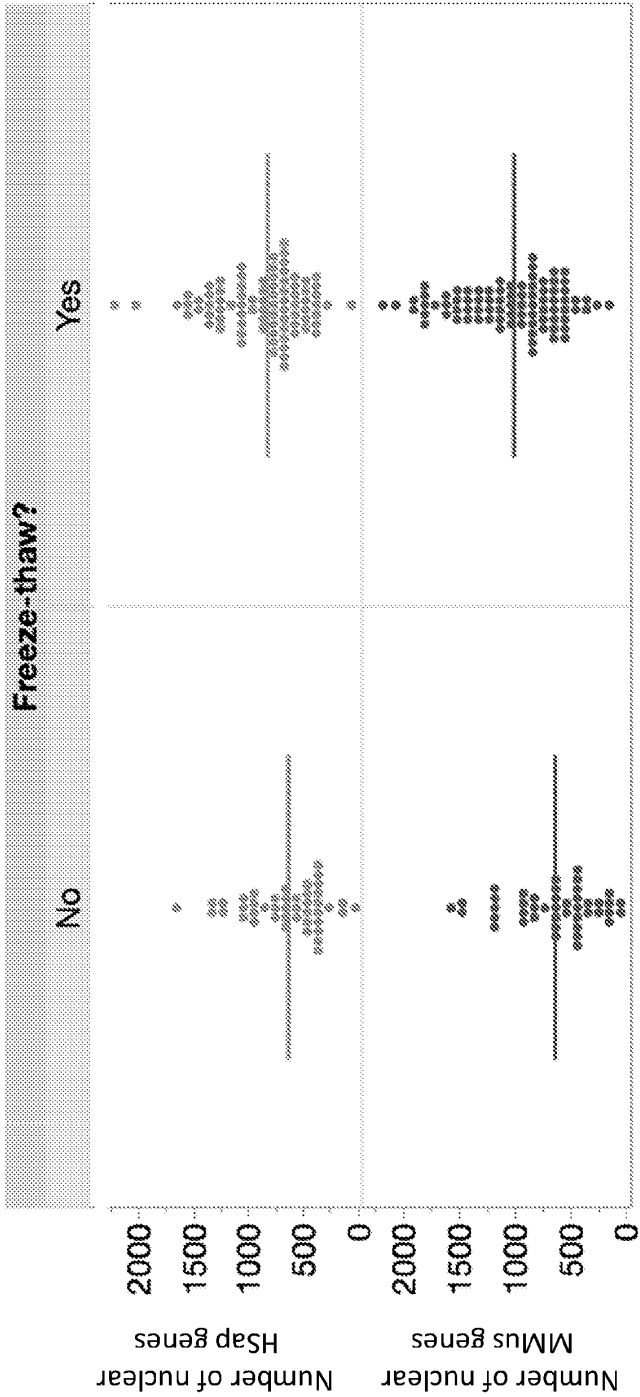


FIGURE 59

With Freeze-thaw

Without Freeze-thaw

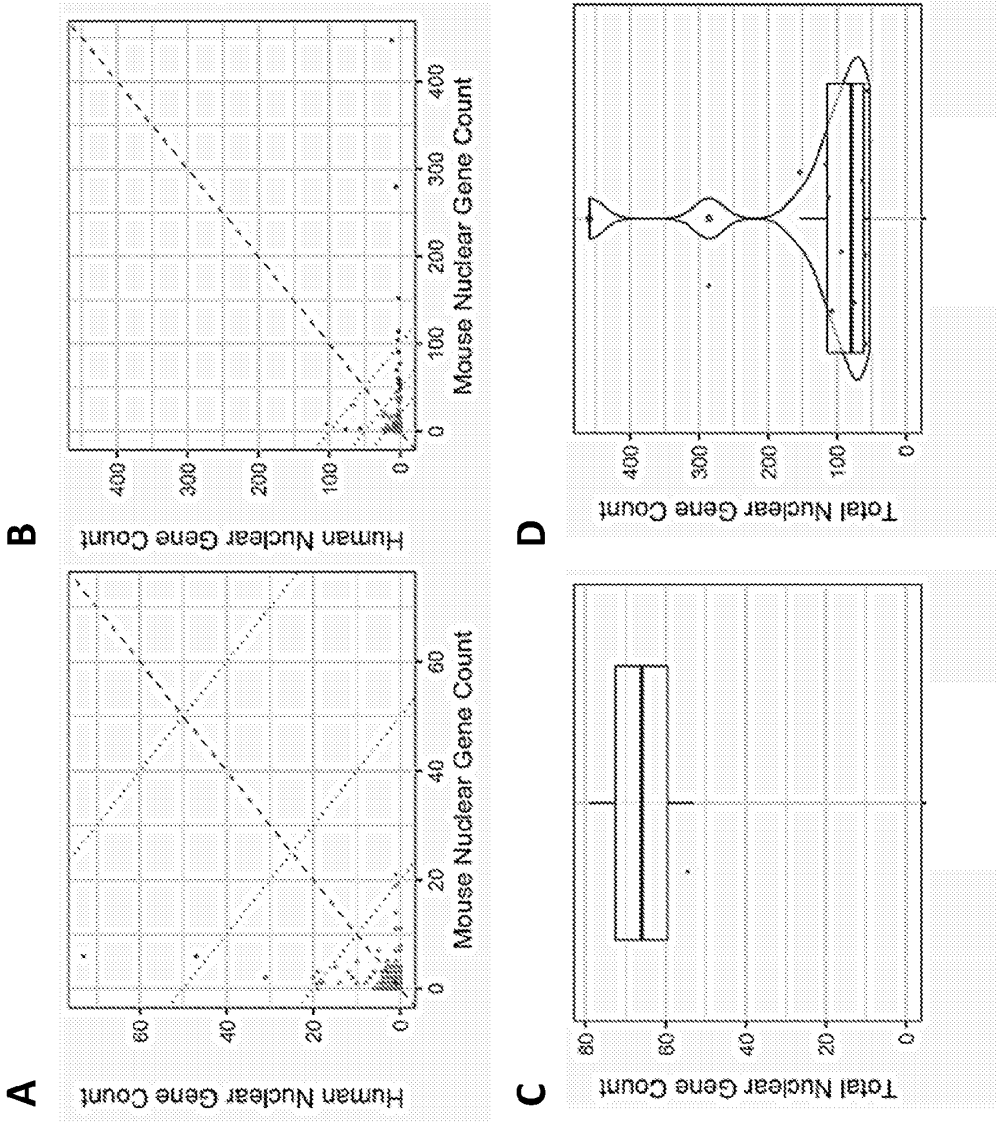


FIGURE 60

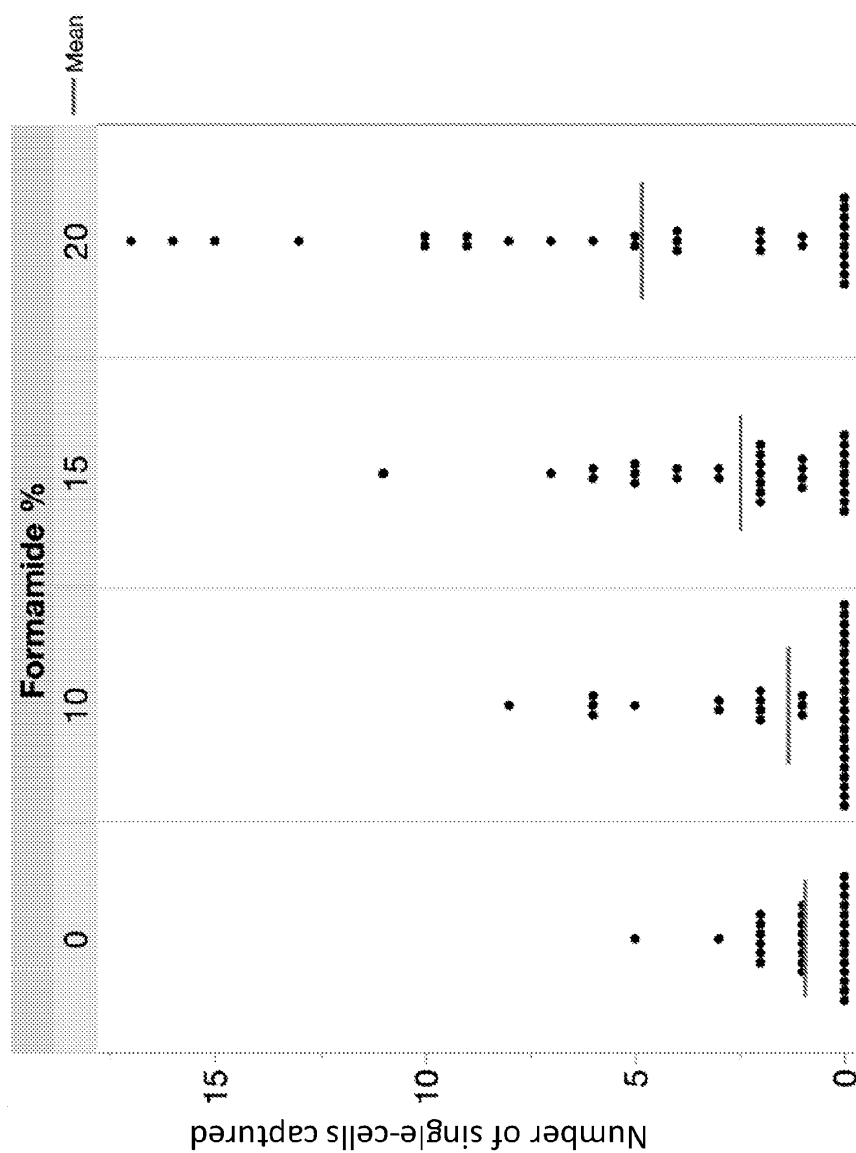


FIGURE 61

Without Additive

With 20% Formamide

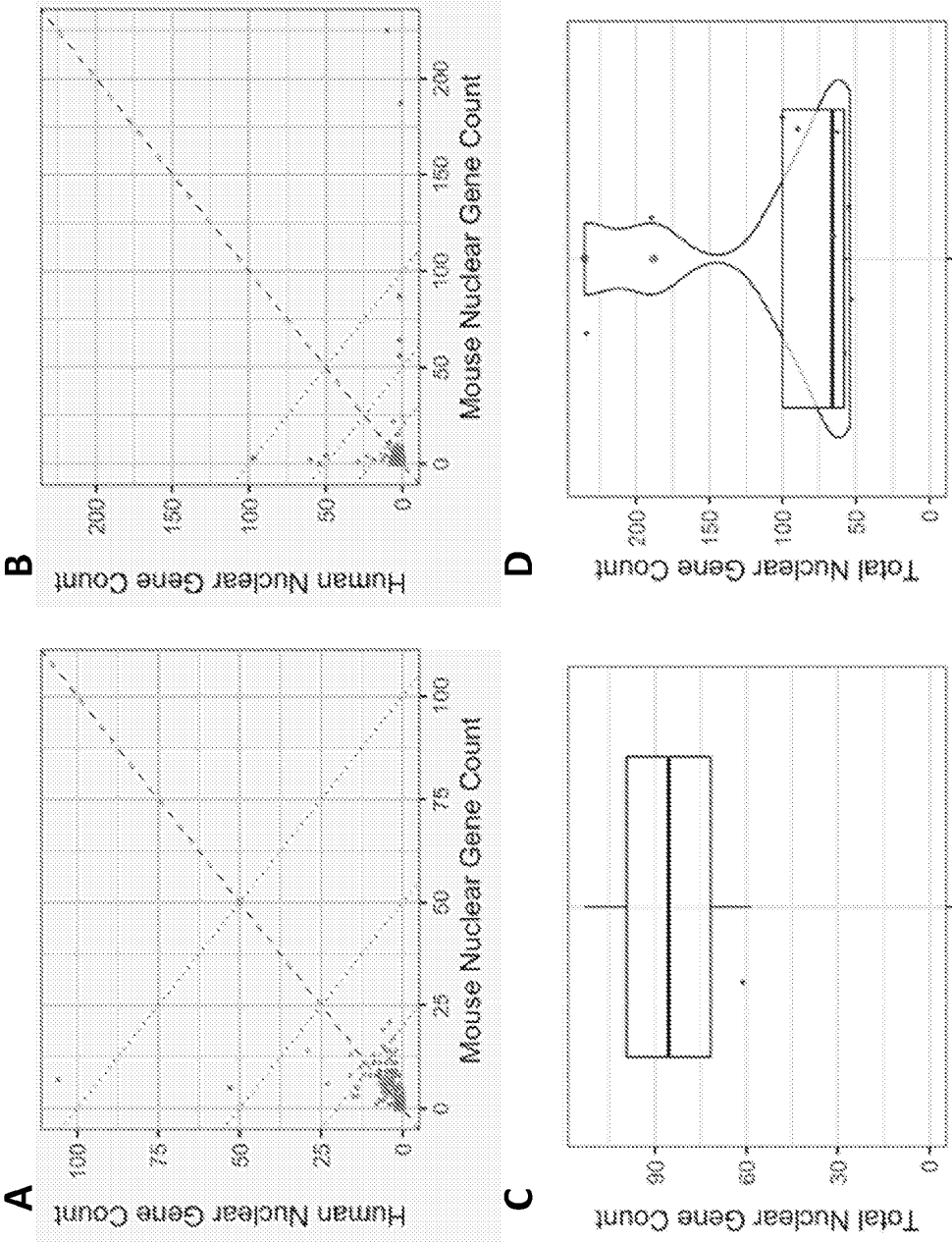
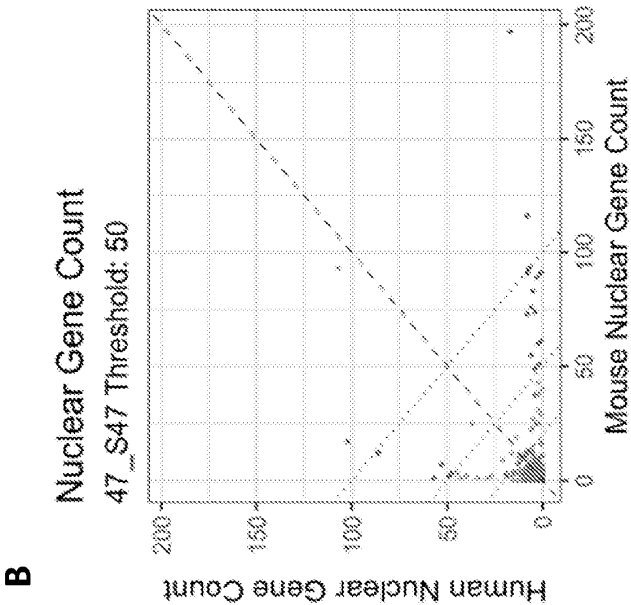
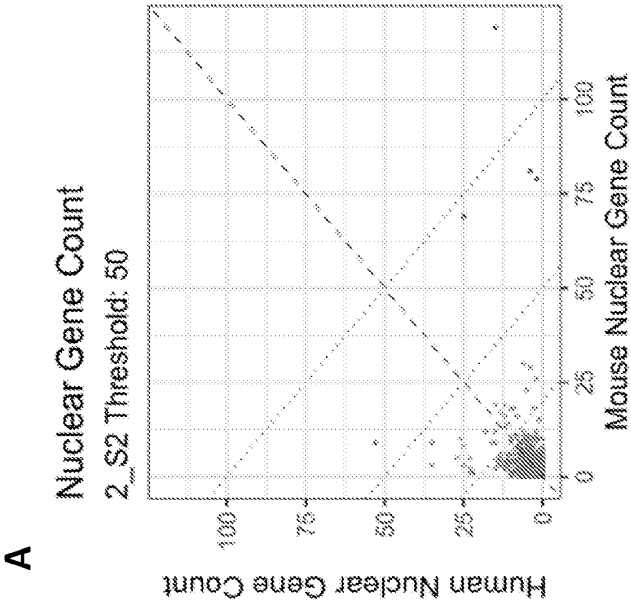


FIGURE 62

With 20% γ -butyrolactone



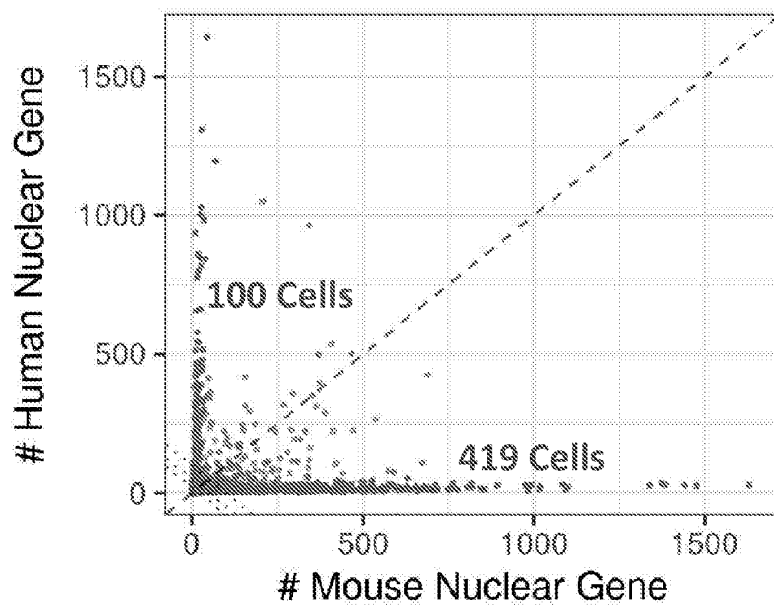
Without additive



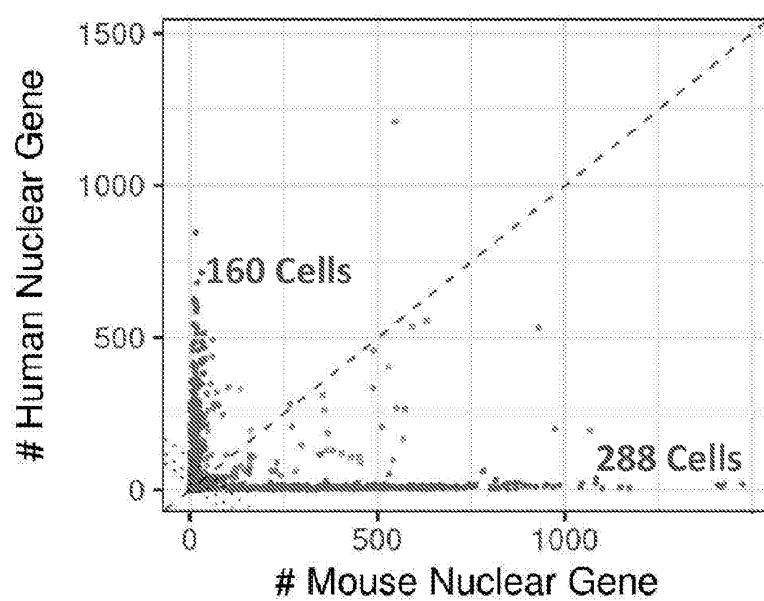
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FIGURE
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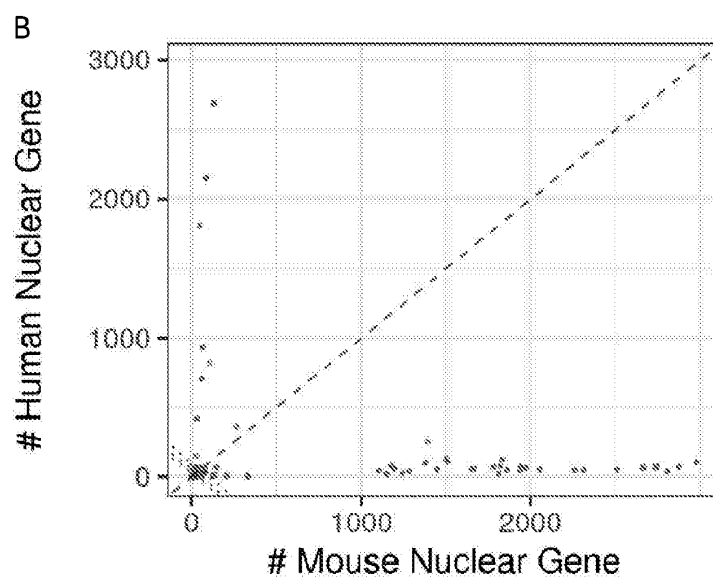
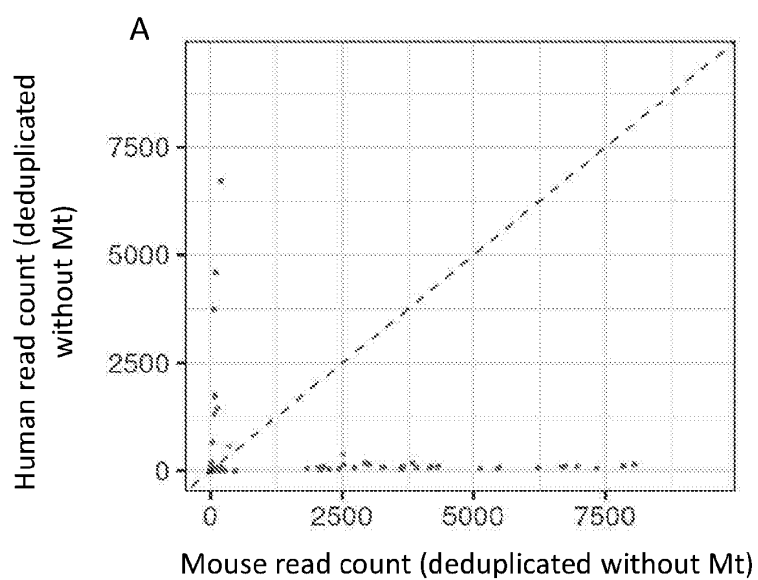
A



B



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FIGURE
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FIGURE
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