

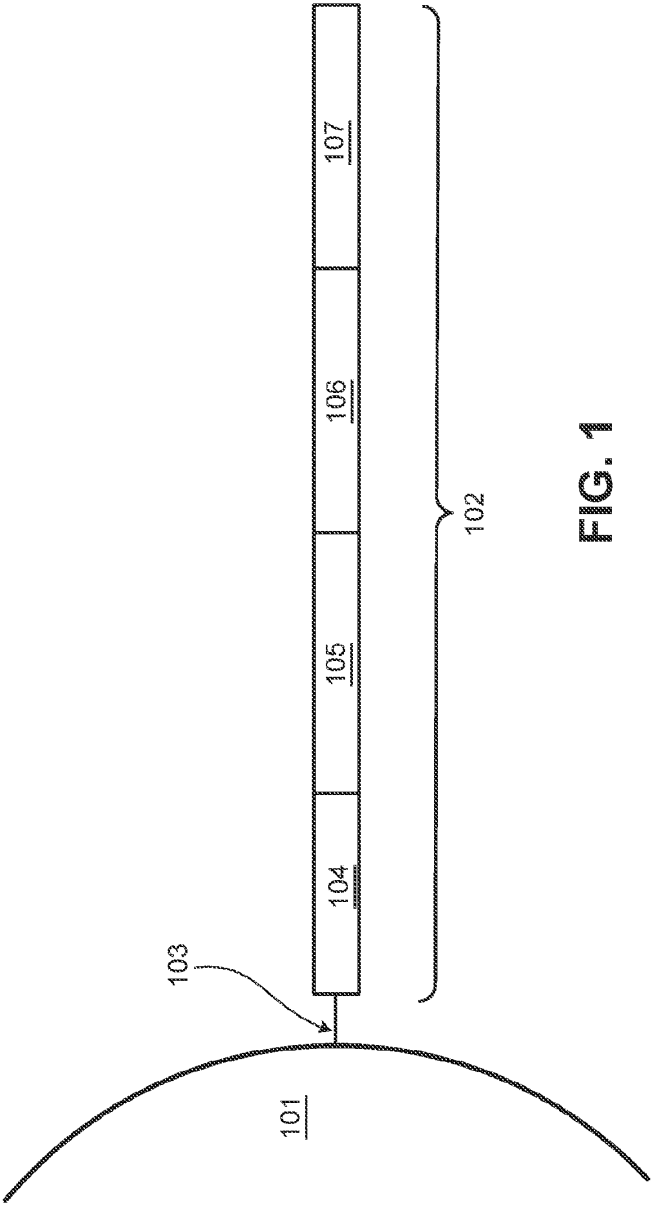


FIG. 1

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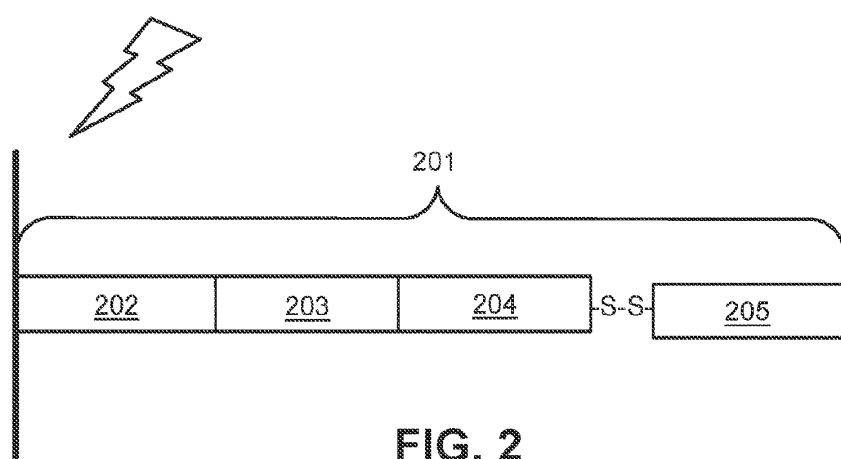


FIG. 2

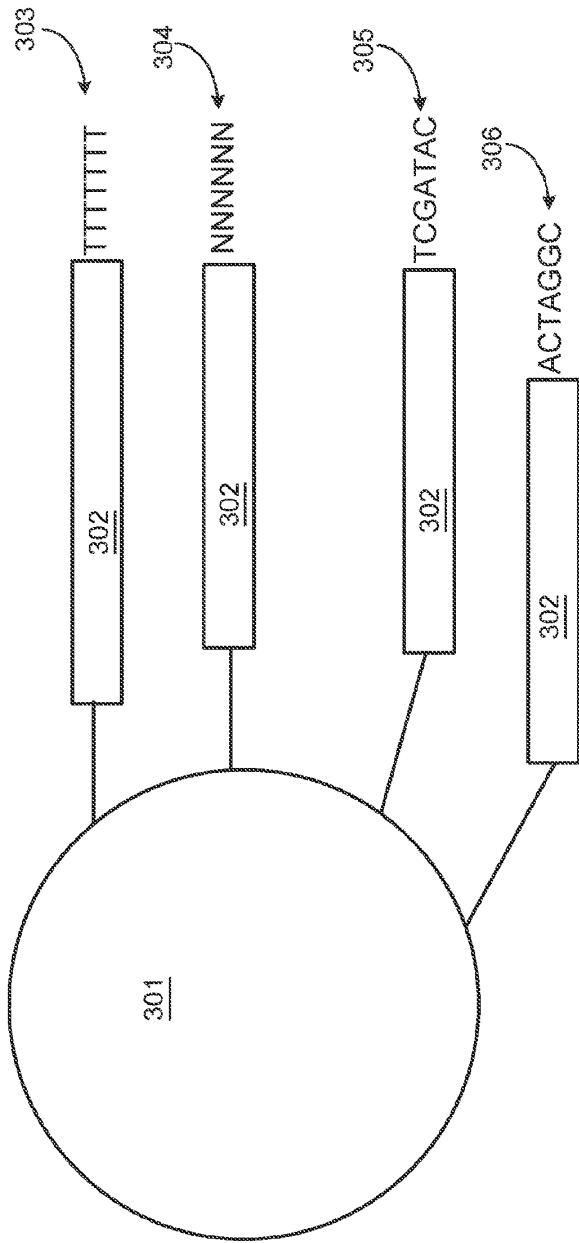
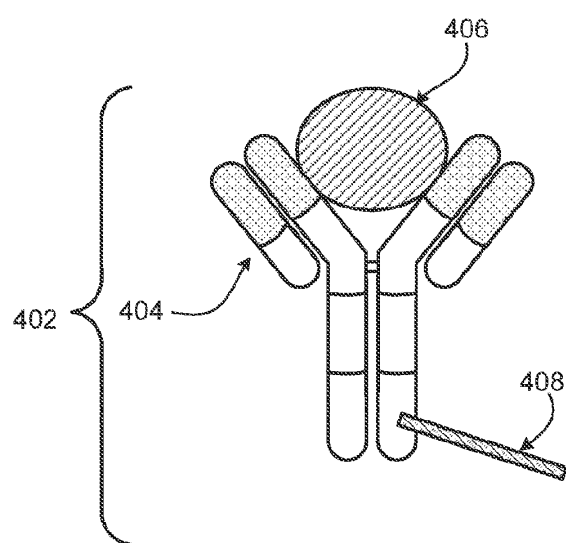


FIG. 3

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**FIG. 4**

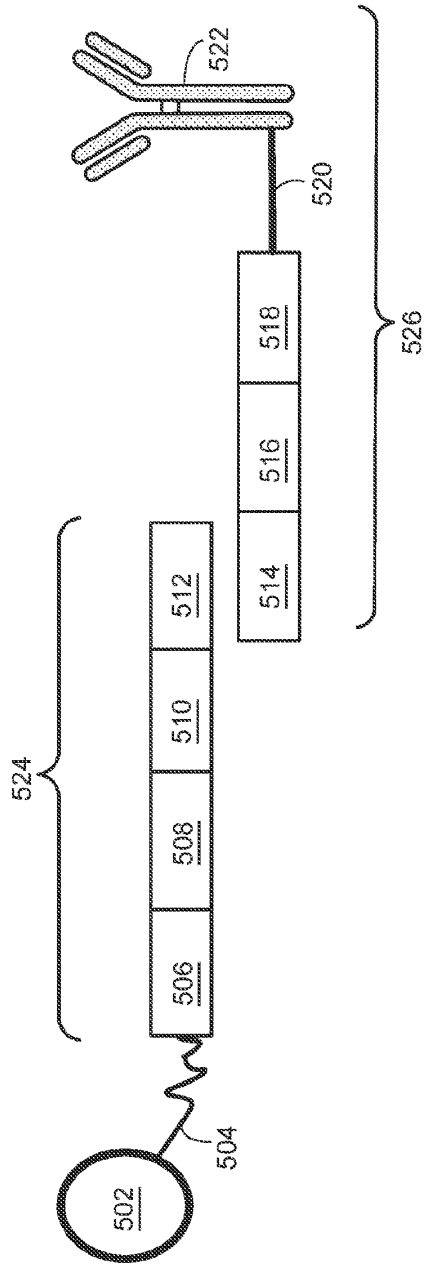


FIG. 5

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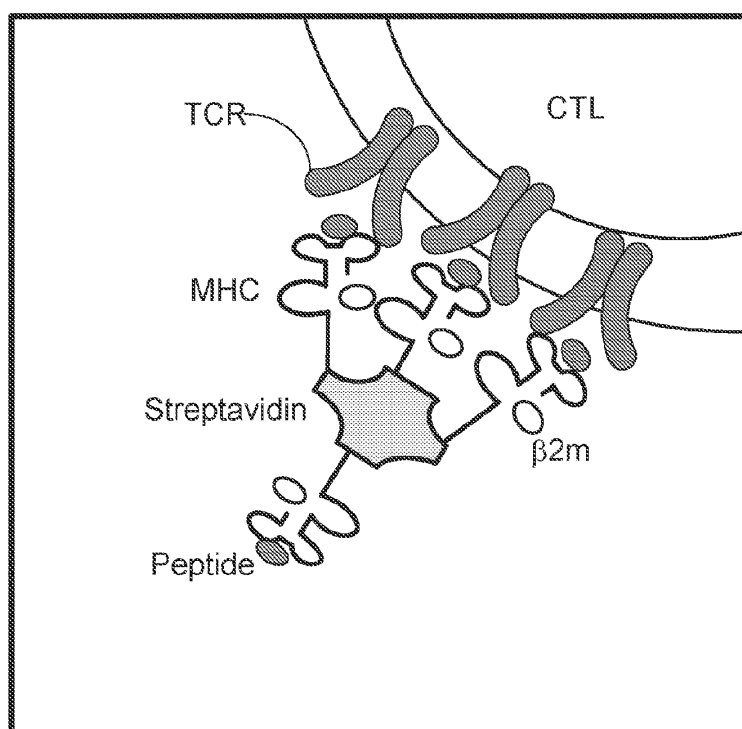


FIG. 6A

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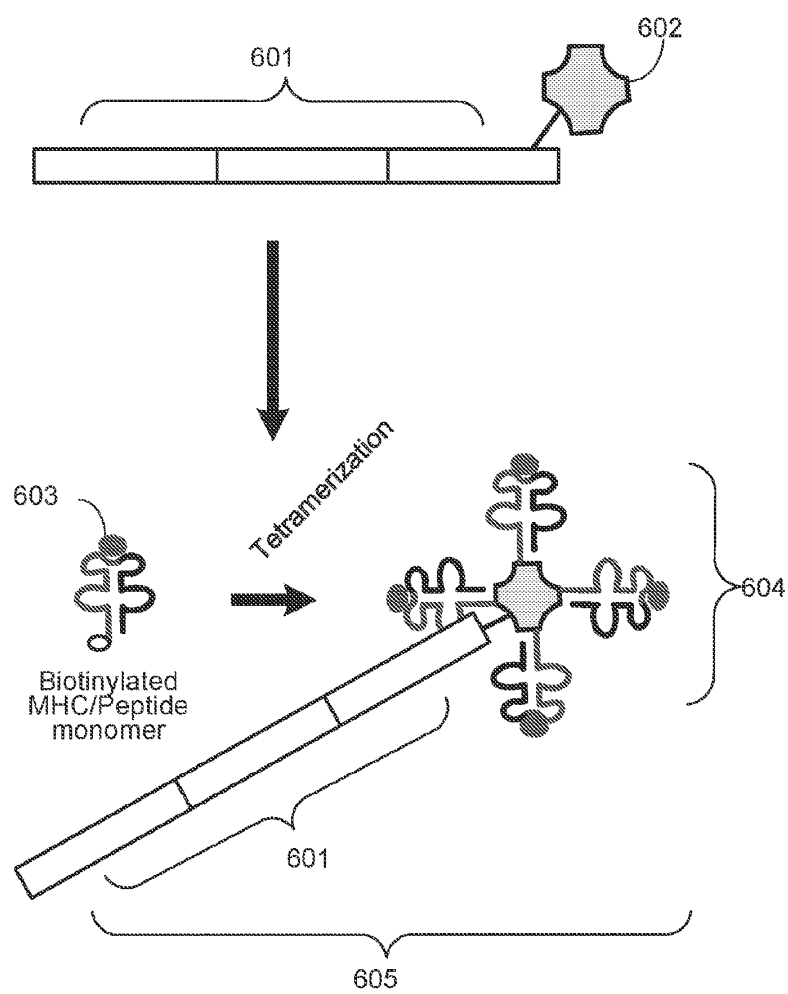


FIG. 6B

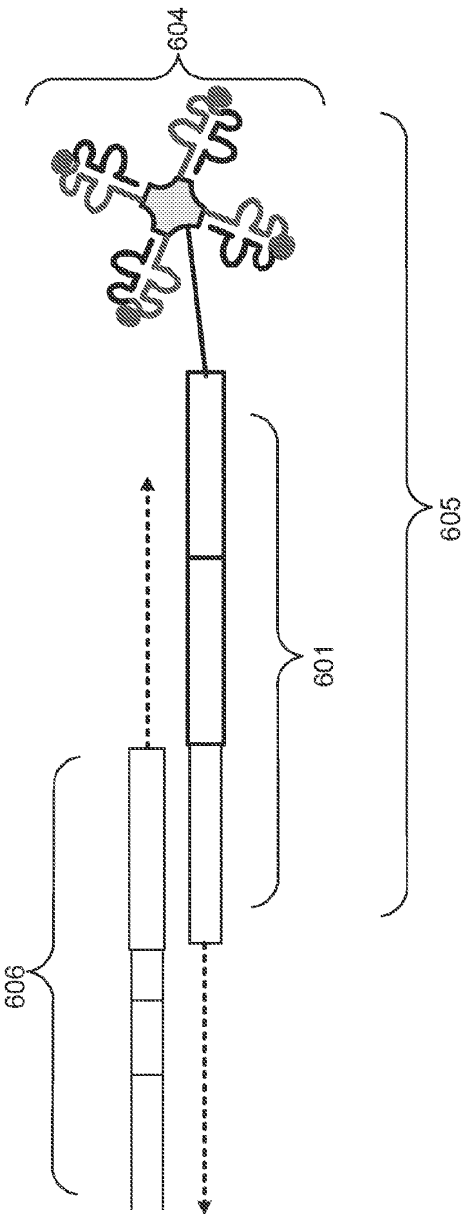


FIG. 6C

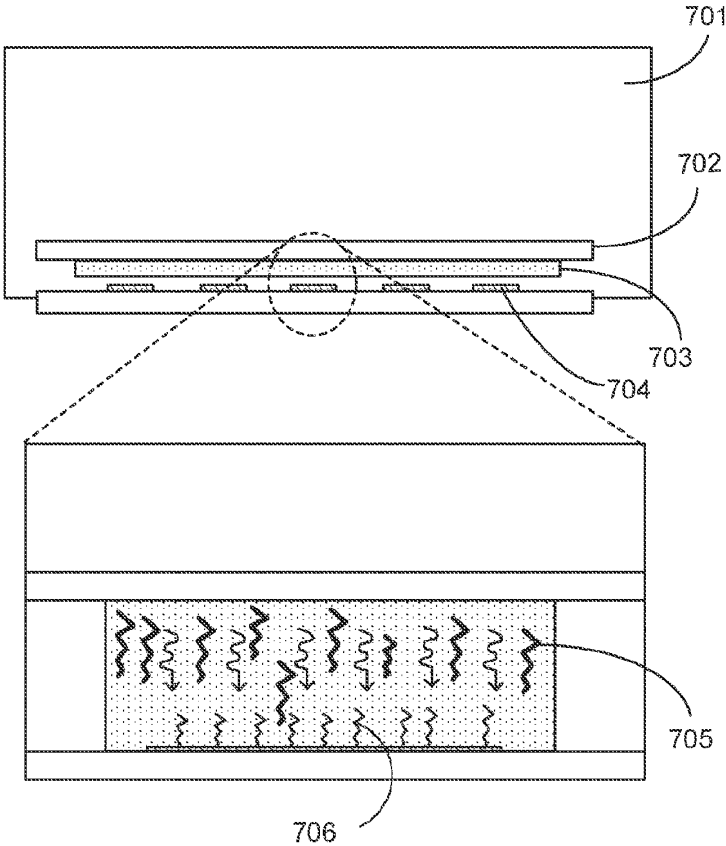


FIG. 7

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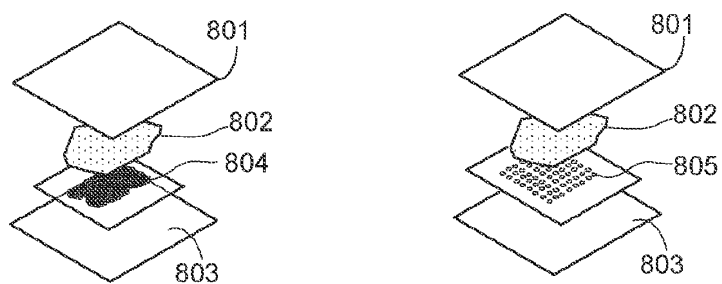


FIG. 8A

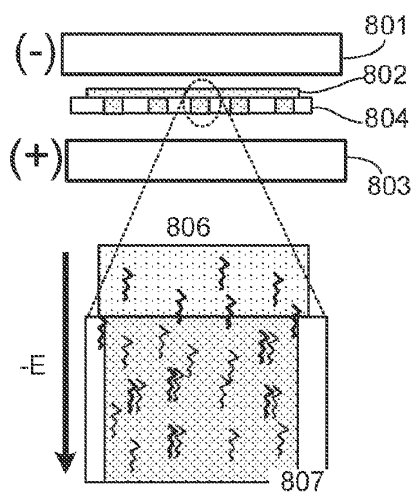


FIG. 8B

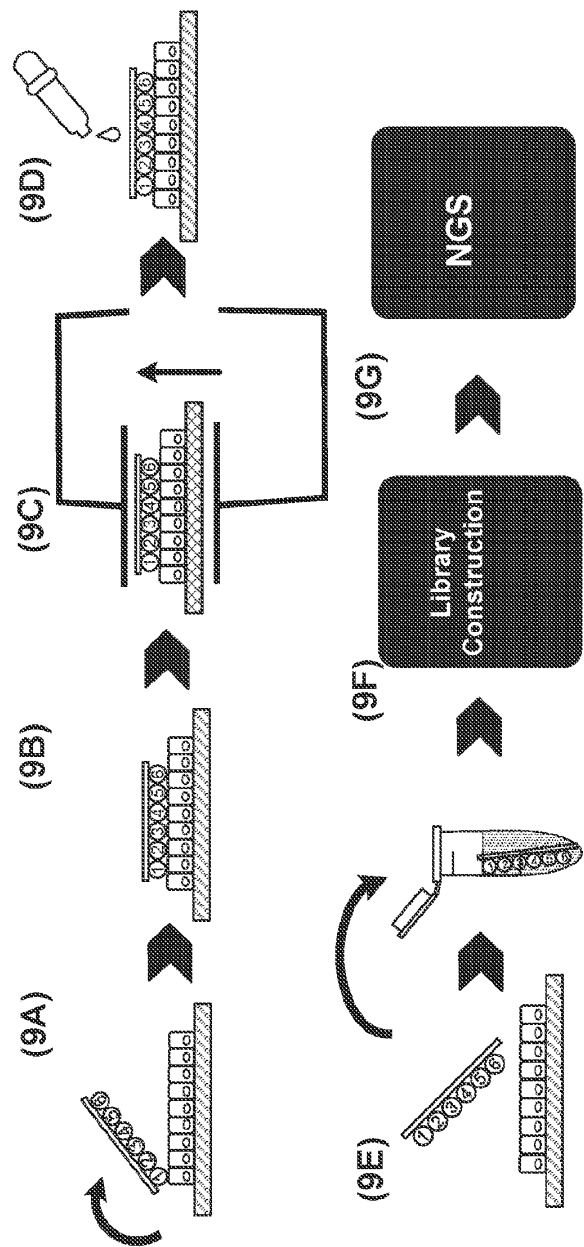


FIG. 9

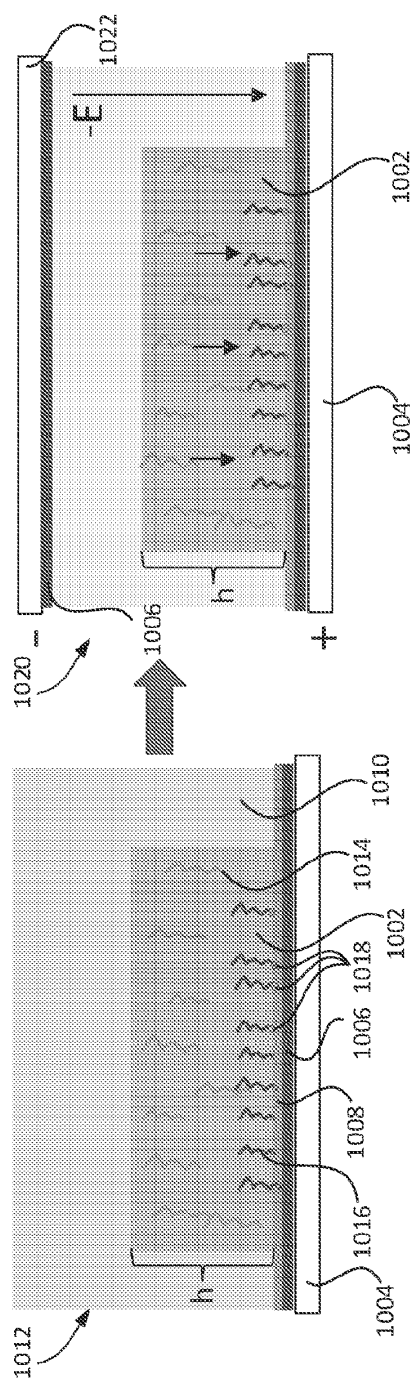
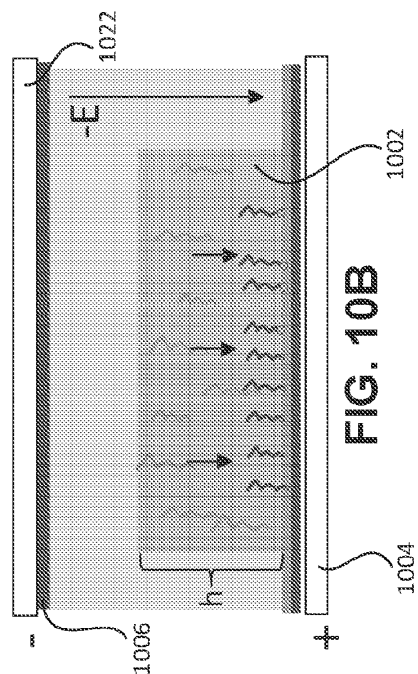


FIG. 10A



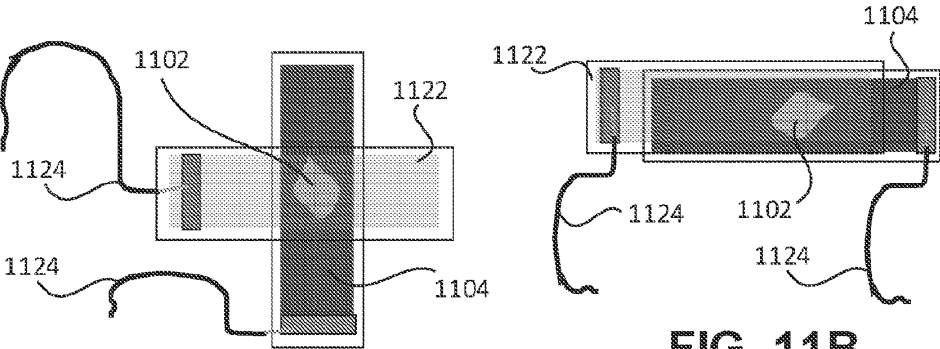


FIG. 11A

FIG. 11B

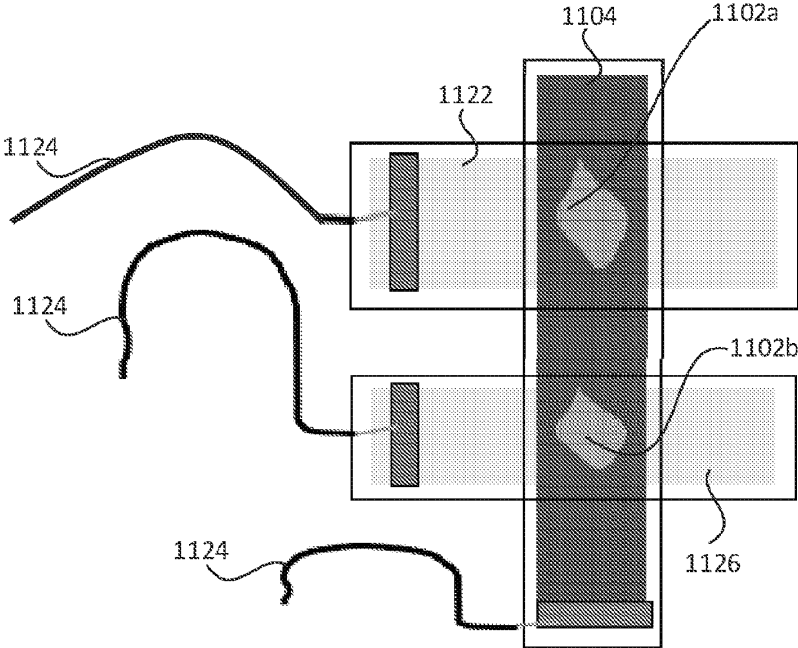
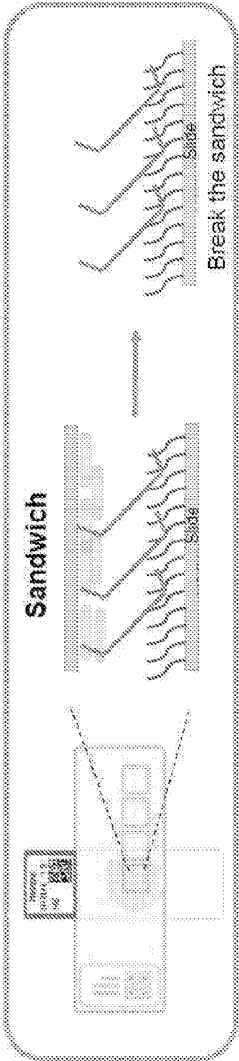
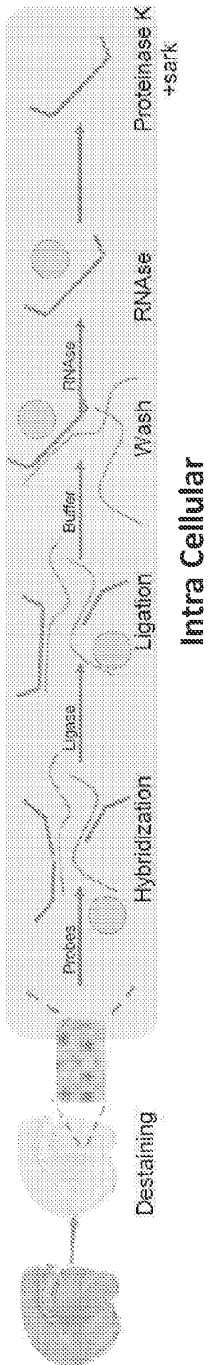
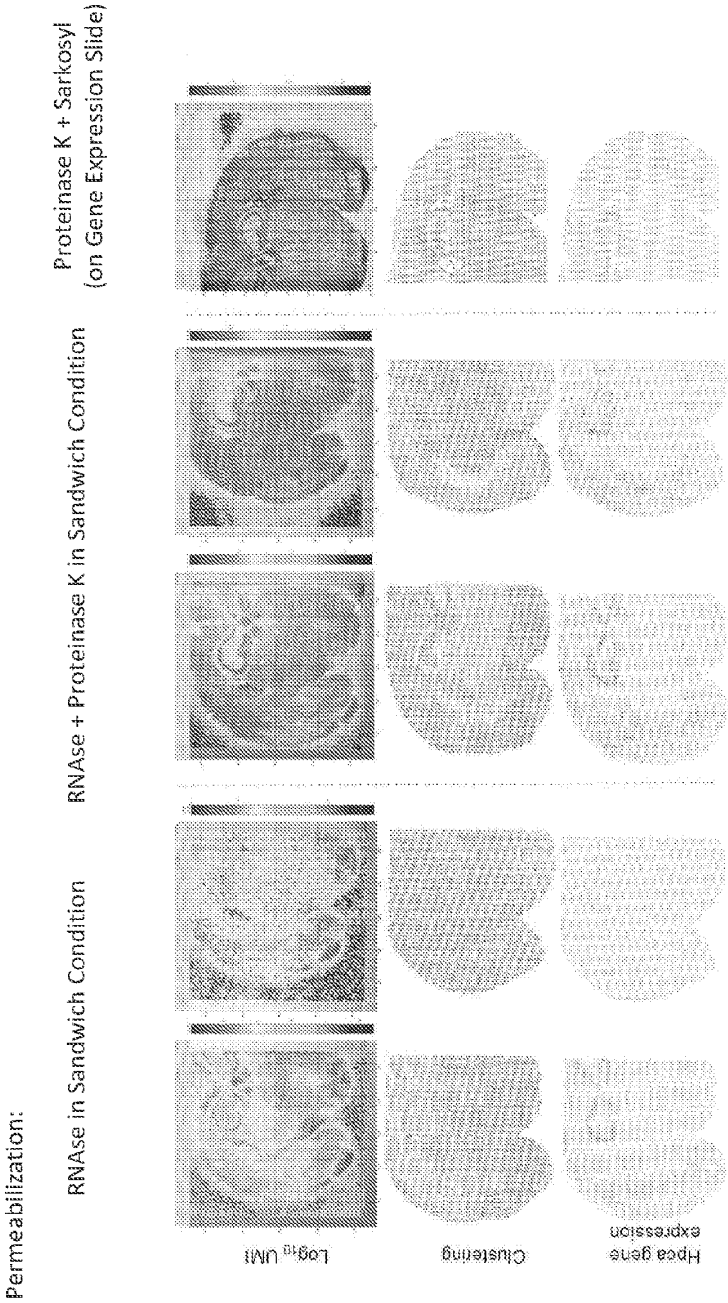


FIG. 11C





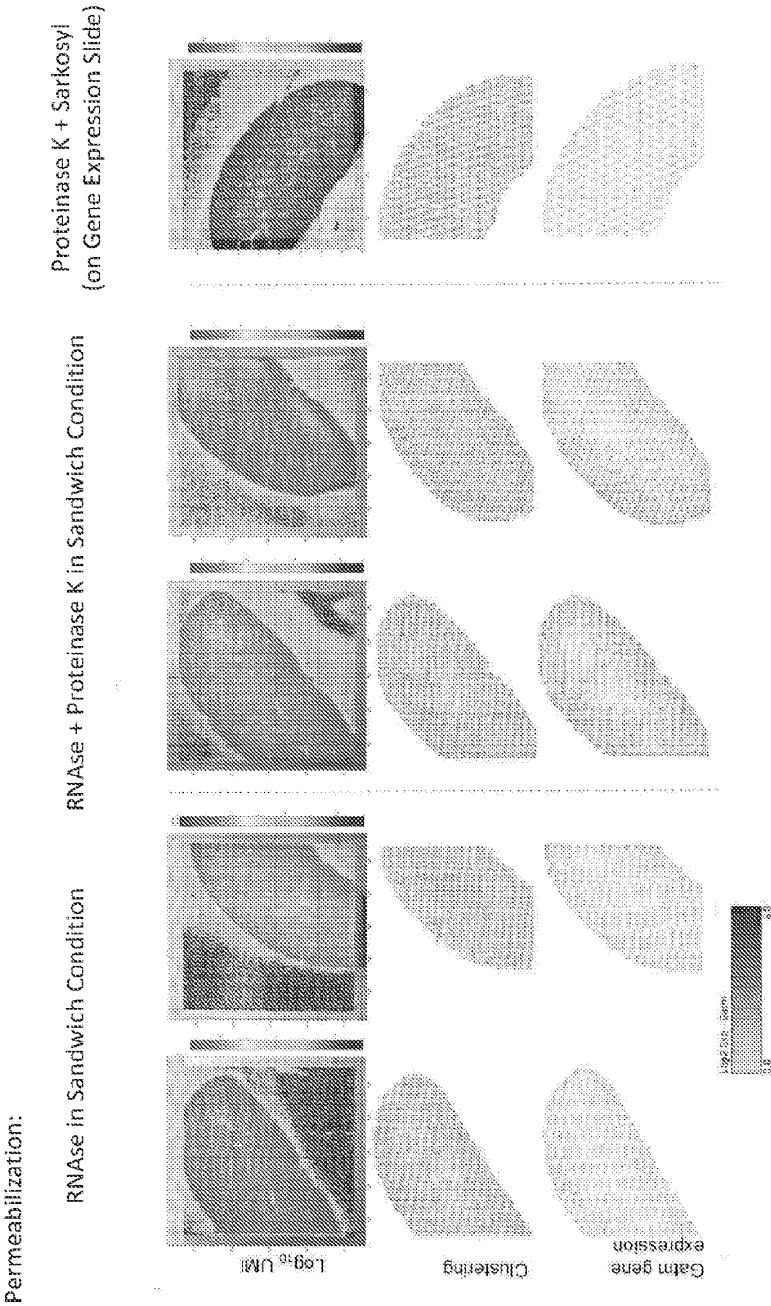
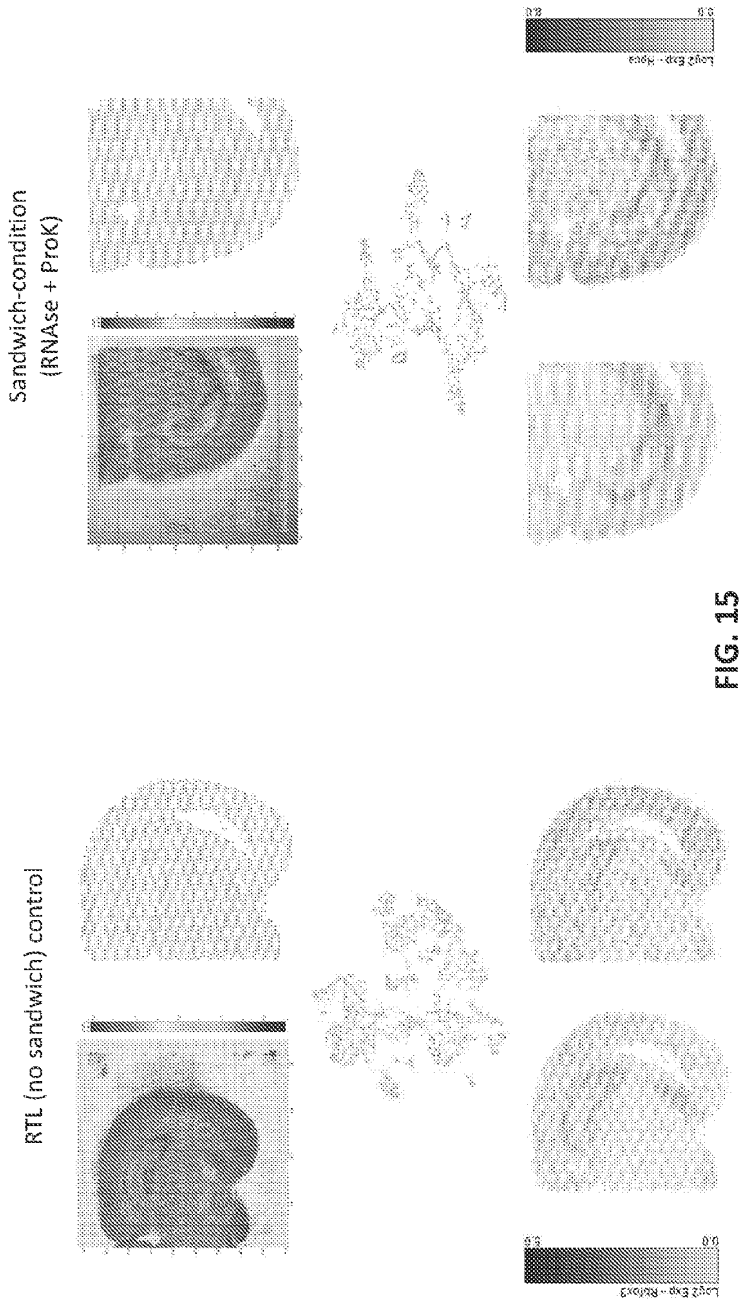


FIG. 14



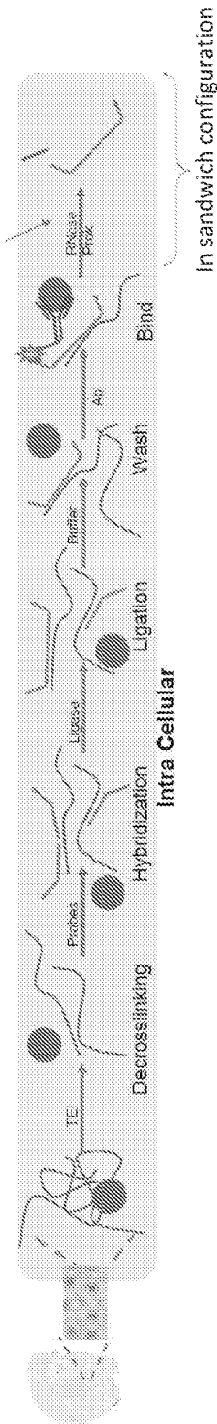


FIG. 16A

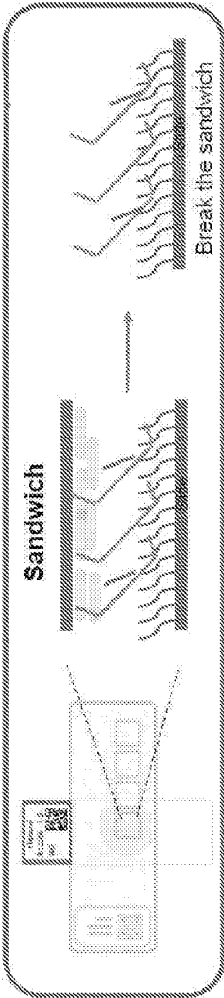


FIG. 16B

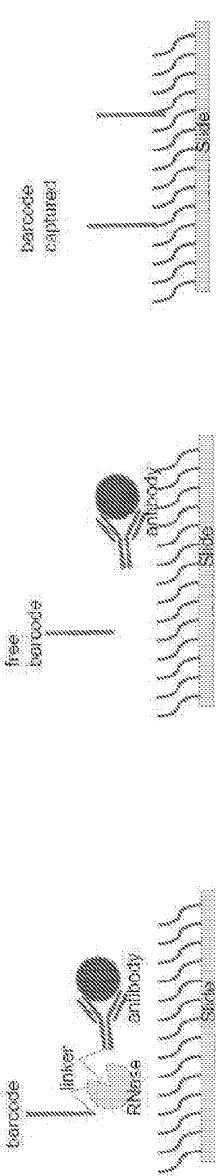


FIG. 17A

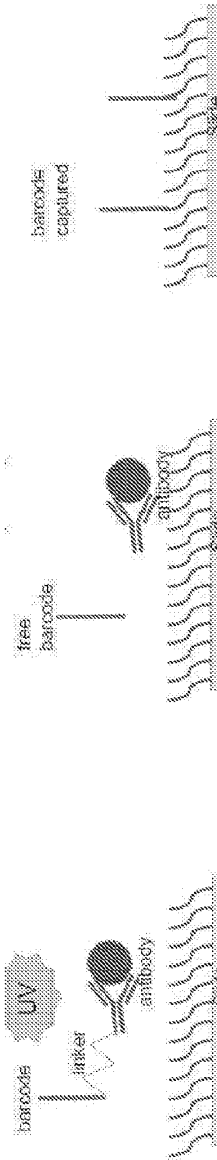


FIG. 17B

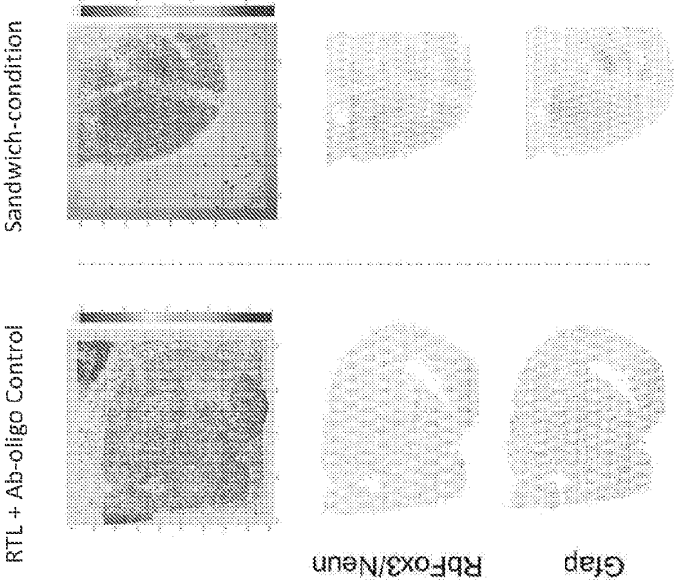
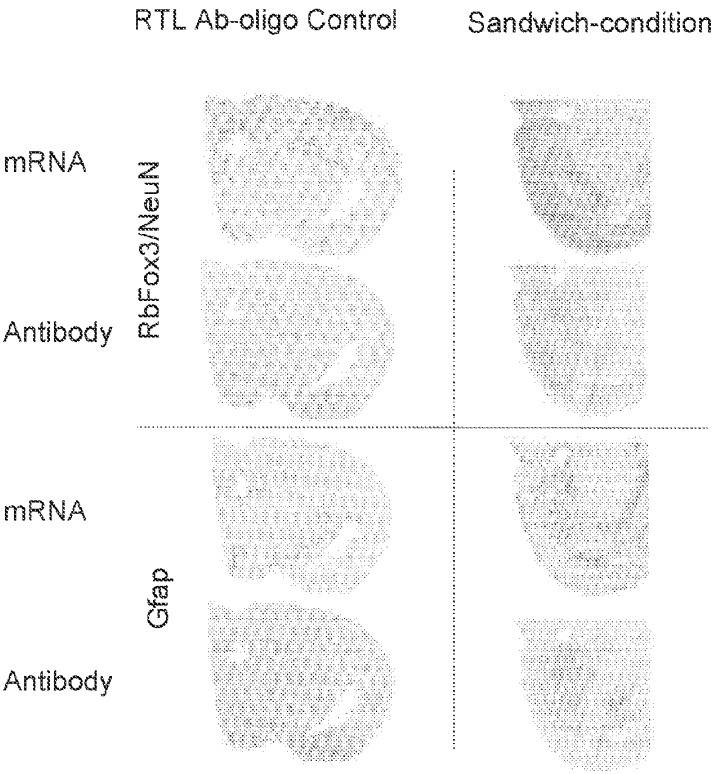


FIG. 18A

FIG. 18B



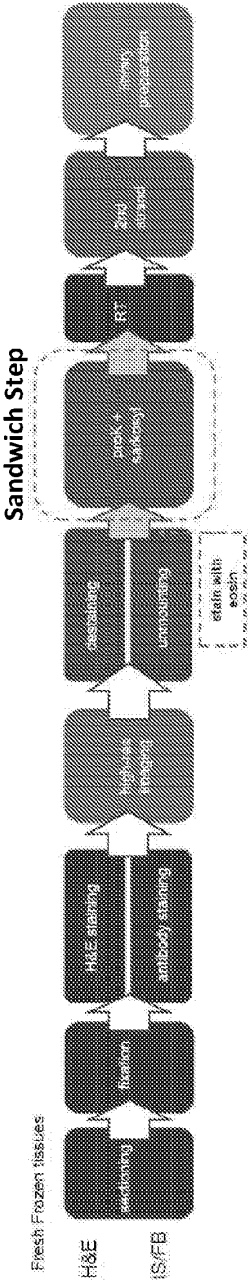


FIG. 19A

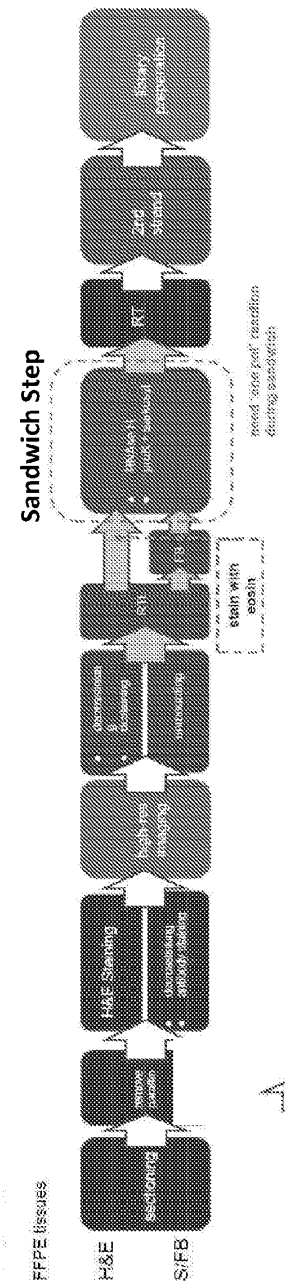


FIG. 19B

FIG. 20

	Valid barcodes	Valid UMIs	Fraction Reads in Spots Under Tissue	Sequencing saturation	Reads mapped consistently to transcriptome	Fraction reads unmapped	Fraction targeted reads usable	Total number of targeted genes detected	Median panel UMIs counts at 1000 reads per spot
Vibrium control	98.0%	100.0%	77.7%	31.9%	97.3%	1.2%	74.1%	3198	213
	98.0%	100.0%	84.8%	15.1%	98.3%	1.1%	81.7%	3248	385
									921
Sandwich control	97.5%	100.0%	87.3%	78.5%	95.1%	2.2%	81.3%	2651	315
	97.6%	100.0%	95.3%	16.0%	98.0%	1.5%	91.5%	3257	352
	95.7%	100.0%	75.4%	19.7%	96.5%	2.5%	71.7%	3340	559
Transfer to same slide	91.5%	100.0%	97.3%	79.6%	88.7%	7.1%	80.2%	2658	182
	91.5%	100.0%	90.8%	91.8%	29.3%	50.0%	26.1%	2595	-
									893
Transfer to same slide	97.9%	100.0%	98.6%	19.8%	85.3%	10.1%	86.8%	3225	305
	97.9%	100.0%	96.2%	19.5%	8.1%	91.5%	7.7%	2575	128
	97.9%	100.0%	76.1%	32.7%	96.0%	9.4%	71.8%	3340	266
Transfer to same slide	97.9%	100.0%	98.8%	32.7%	2.0%	97.9%	2.0%	2545	-
									574
									-

FIG. 21A

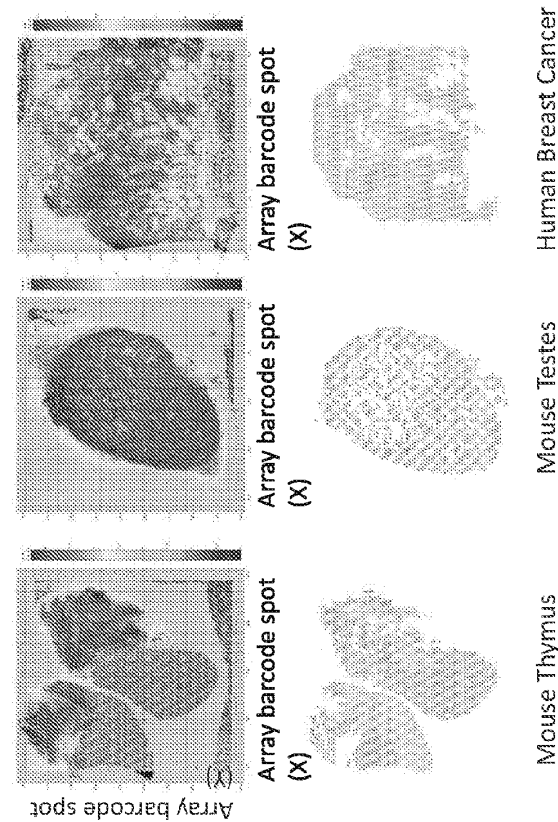
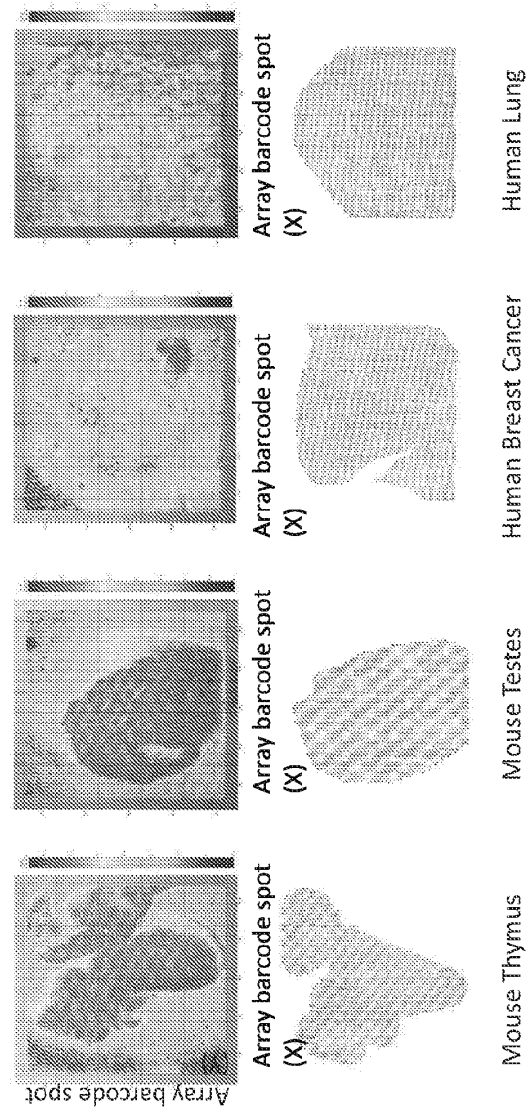


FIG. 21B



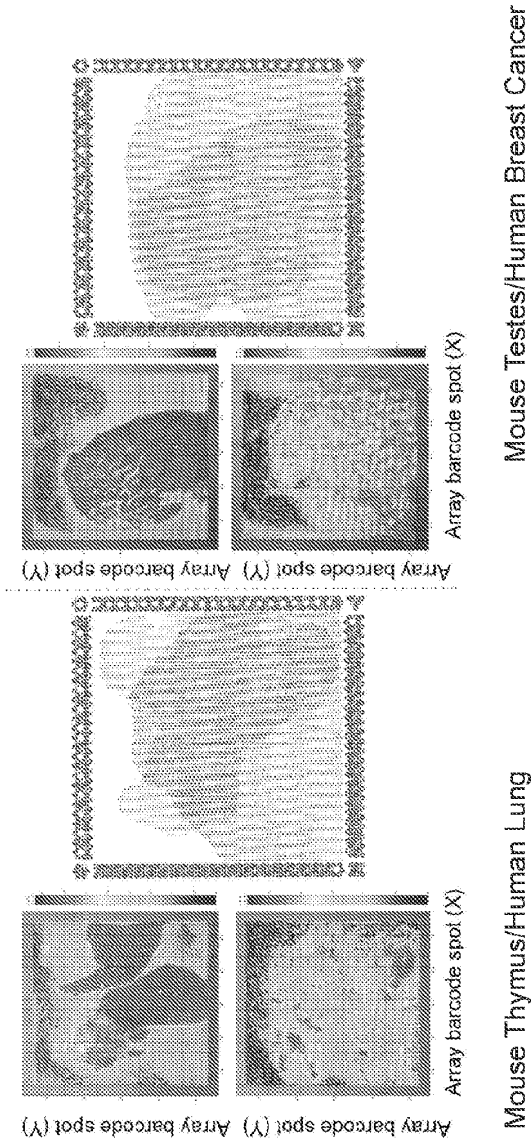


FIG. 22A

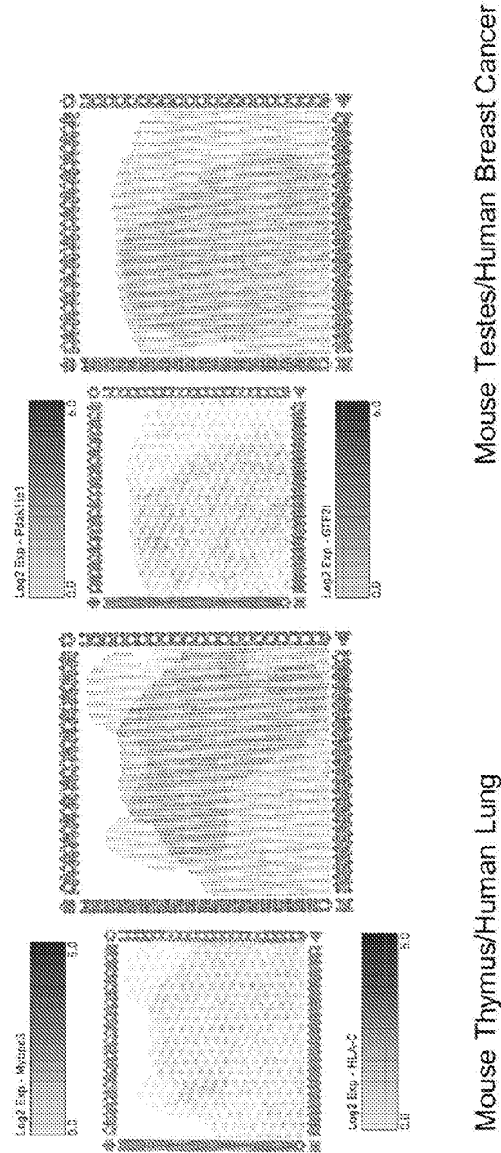
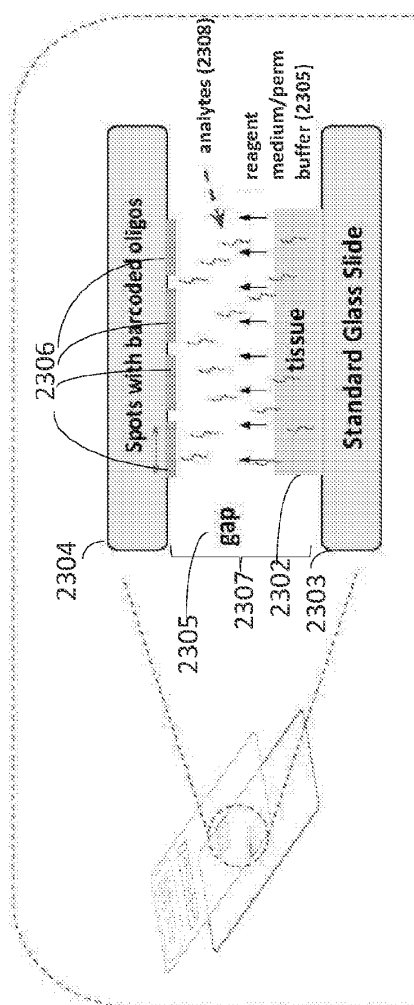


FIG. 22B



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Analysis ID	Sample	Description	Permeabilization time	mm10 Median genes per spot (30k raw reads per spot)	mm10 Median uni counts per spot (30k raw reads per spot)
1046321	Mouse Brains (FF)	Non-sandwich control	5 minutes	5194	17660
1046322				4592	13083
1046514		Permeabilization in sandwich assembly	1 minute	4072	14017
1046515				3758	13731

FIG. 24

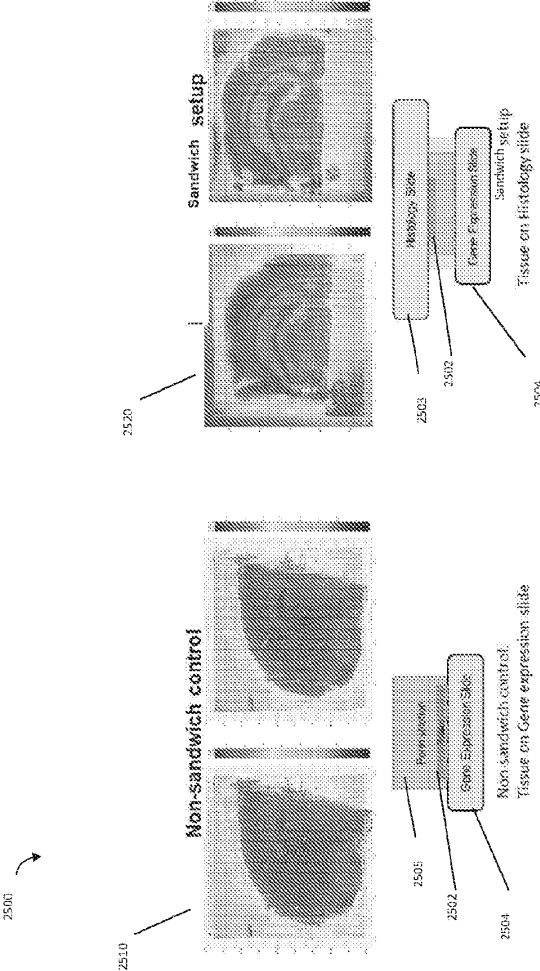


FIG. 25

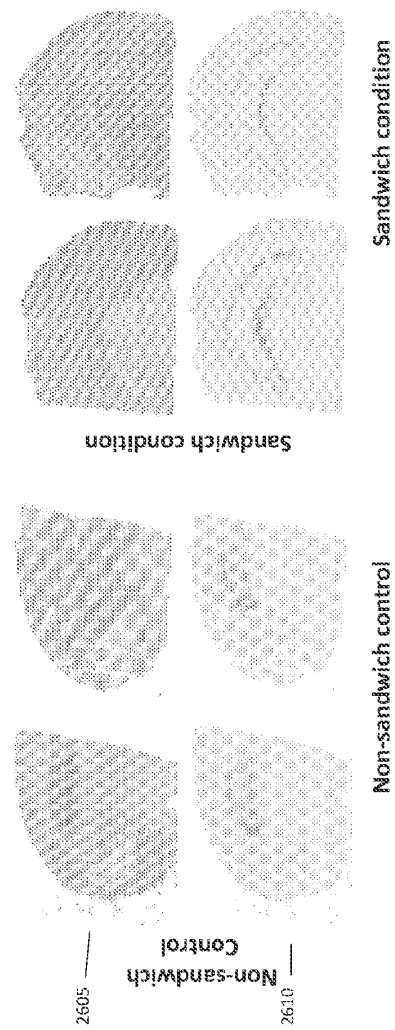


FIG. 26

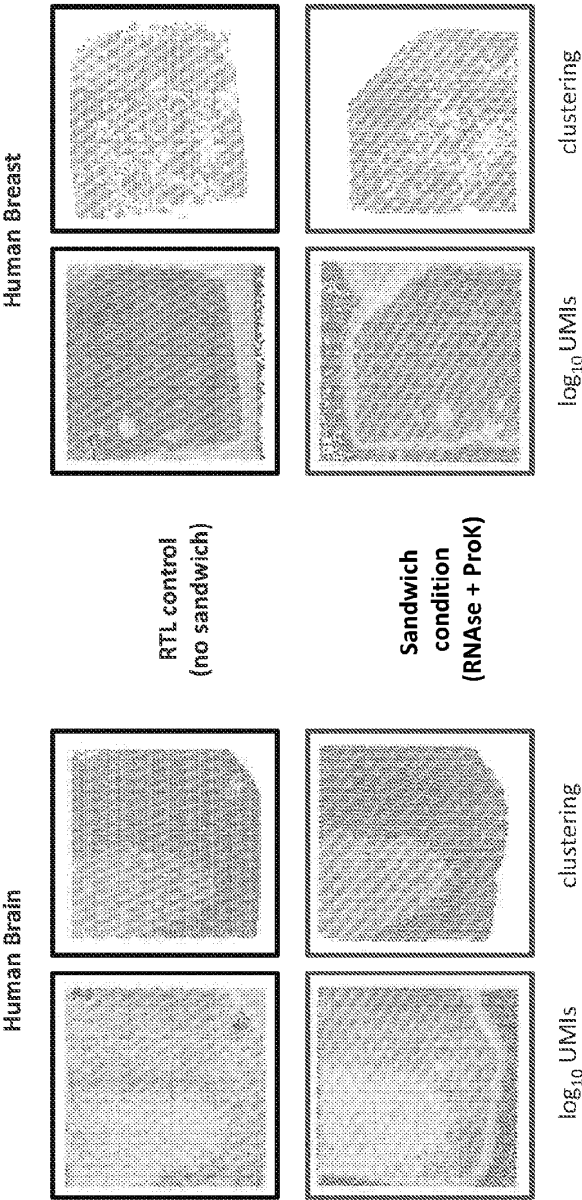


FIG. 27B

FIG. 27A

FIG. 28B

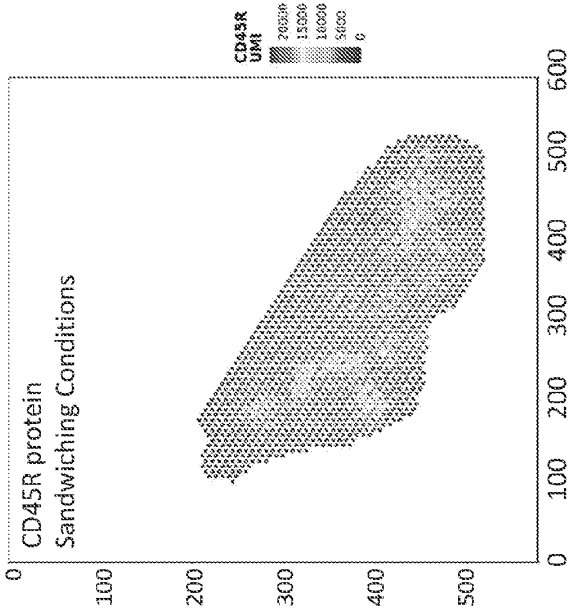


FIG. 28A

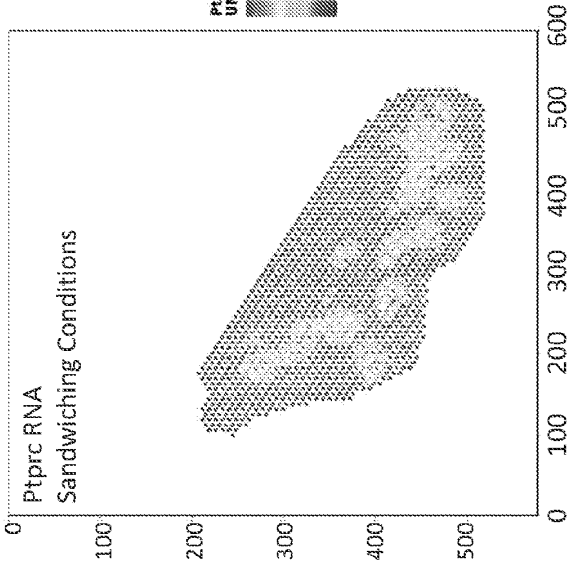


FIG. 28D

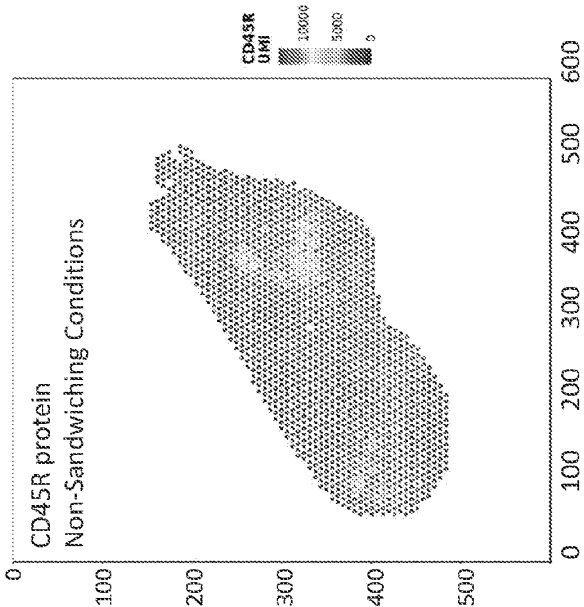


FIG. 28C

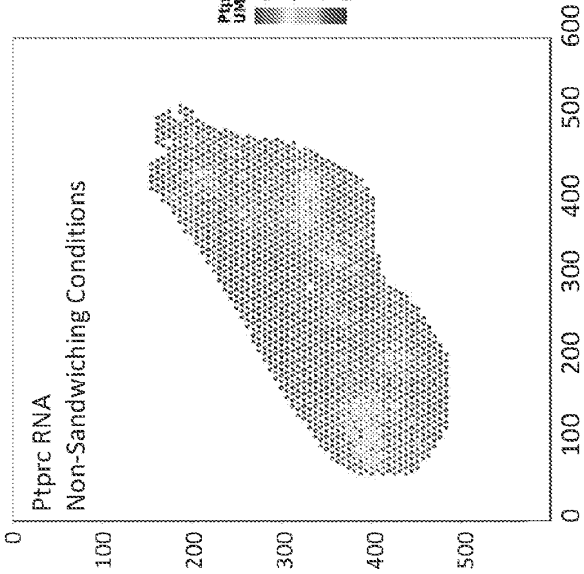


FIG. 29B

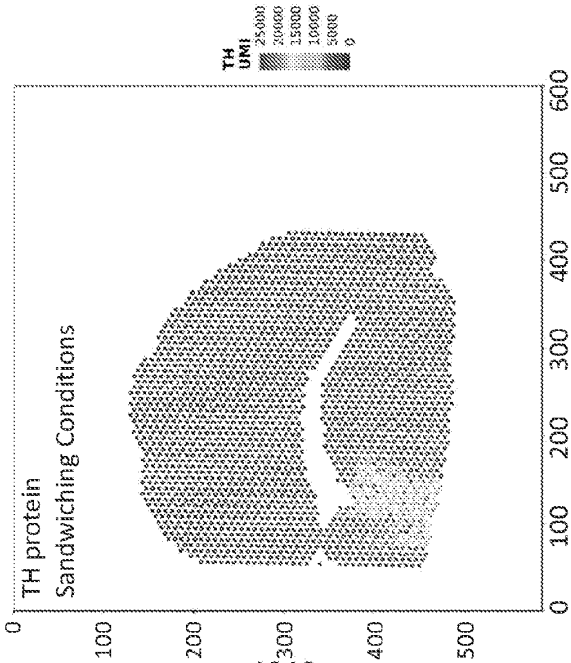


FIG. 29A

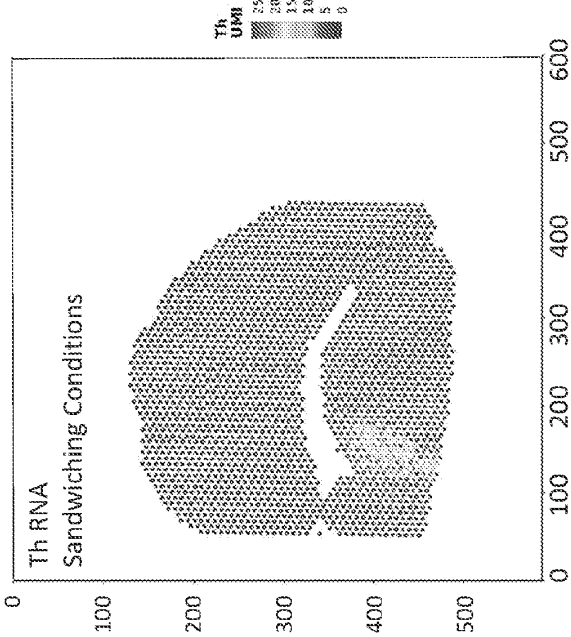


FIG. 29D

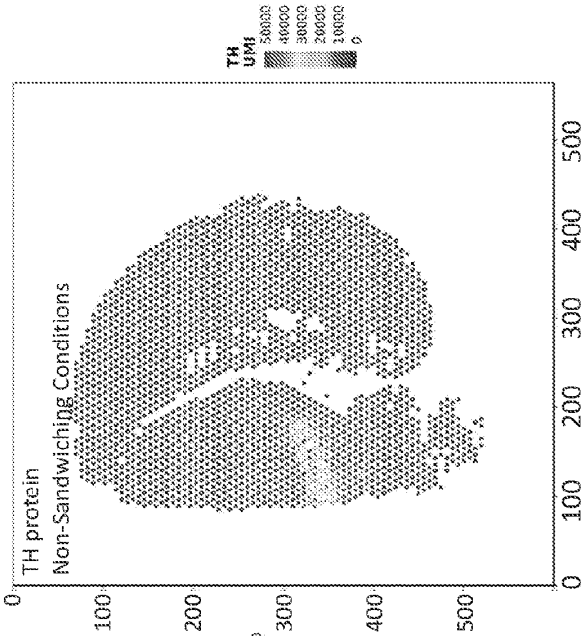


FIG. 29C

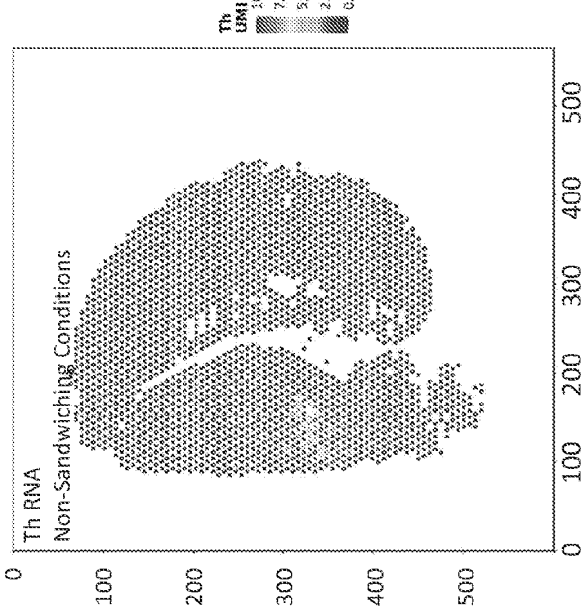


FIG. 30B

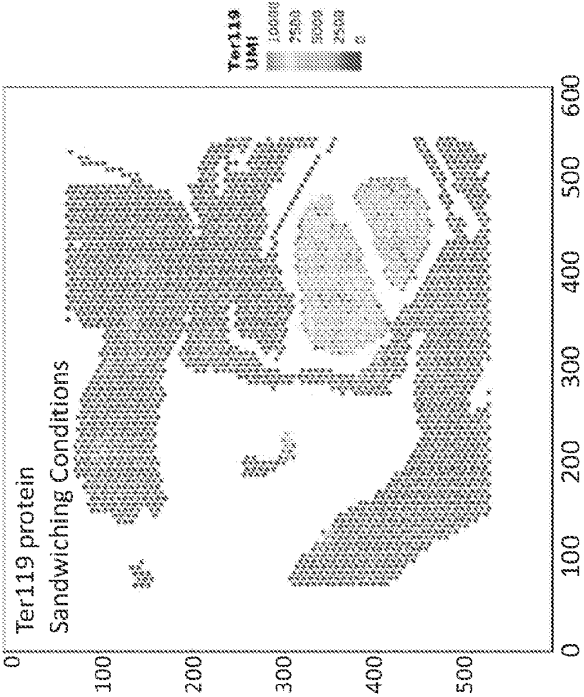


FIG. 30A

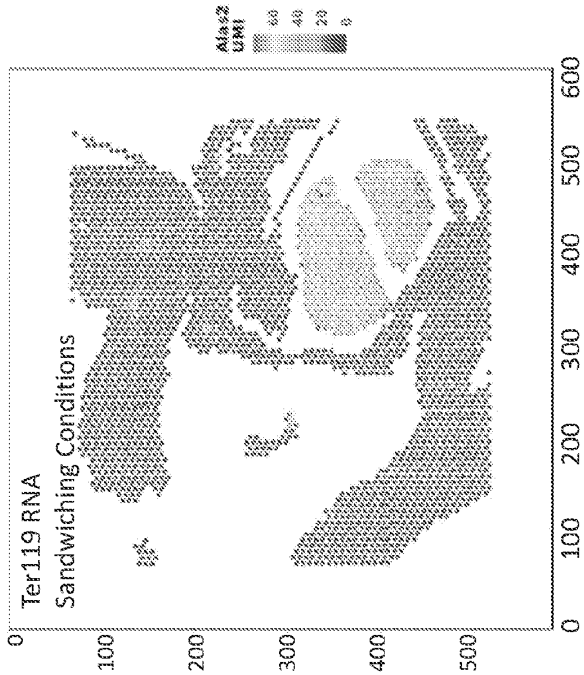


FIG. 30D

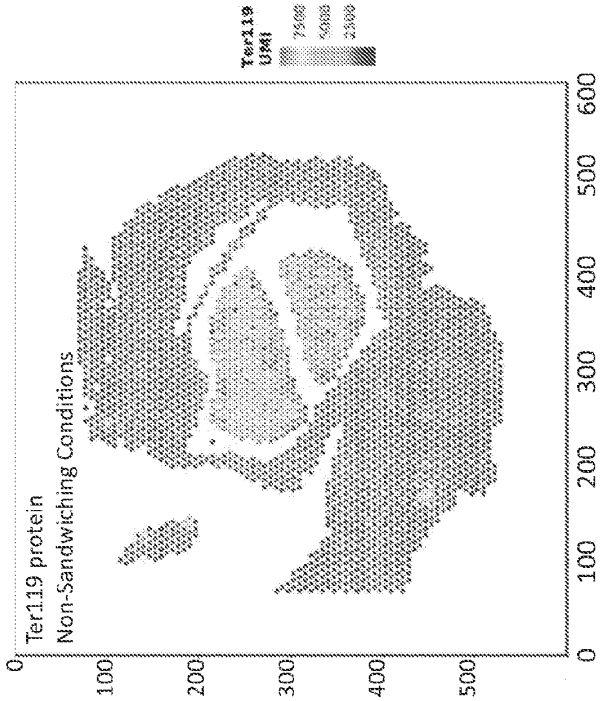


FIG. 30C

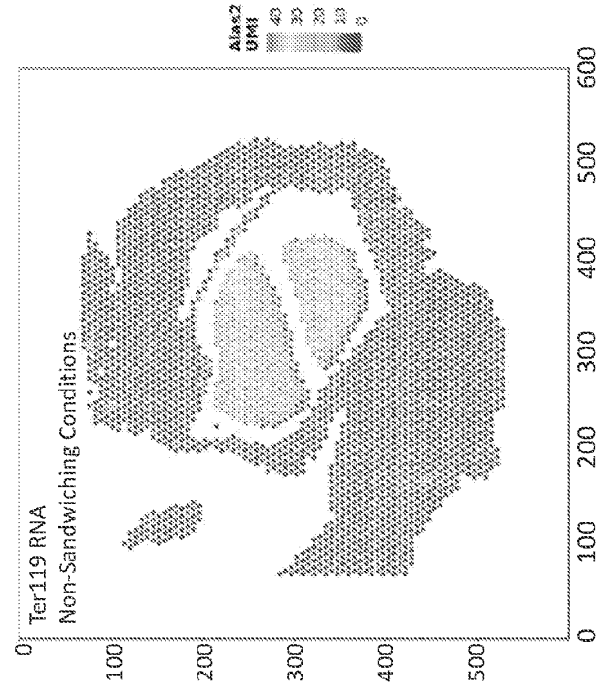


FIG. 31B

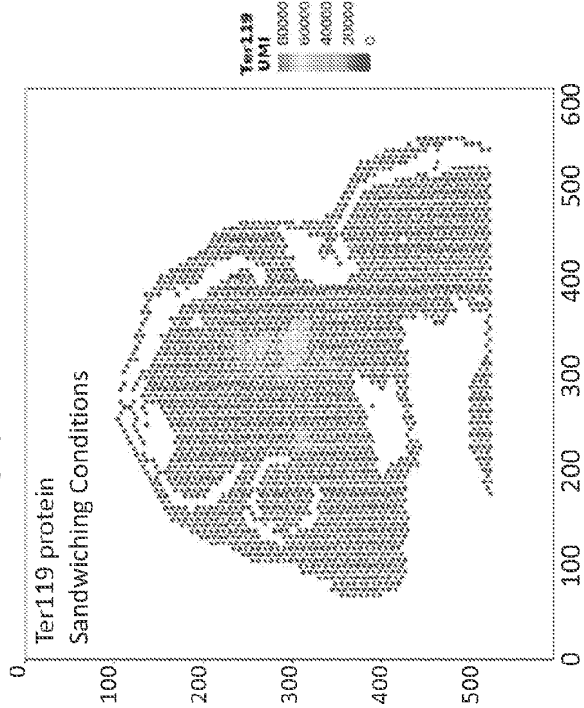


FIG. 31A

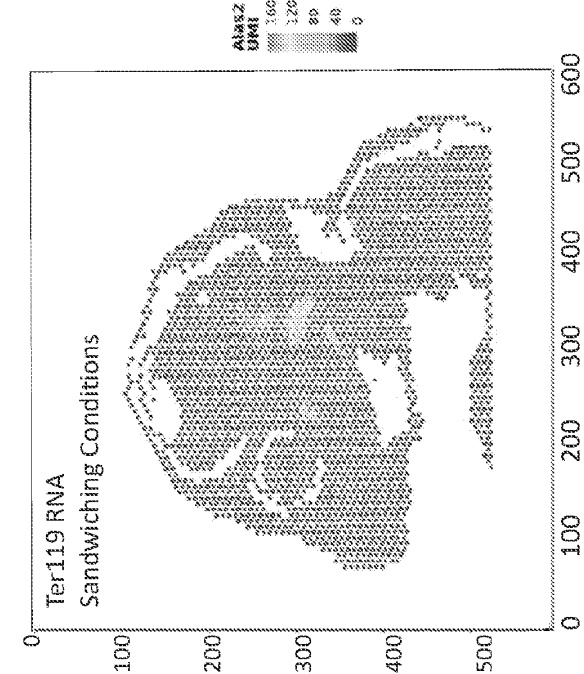


FIG. 31D

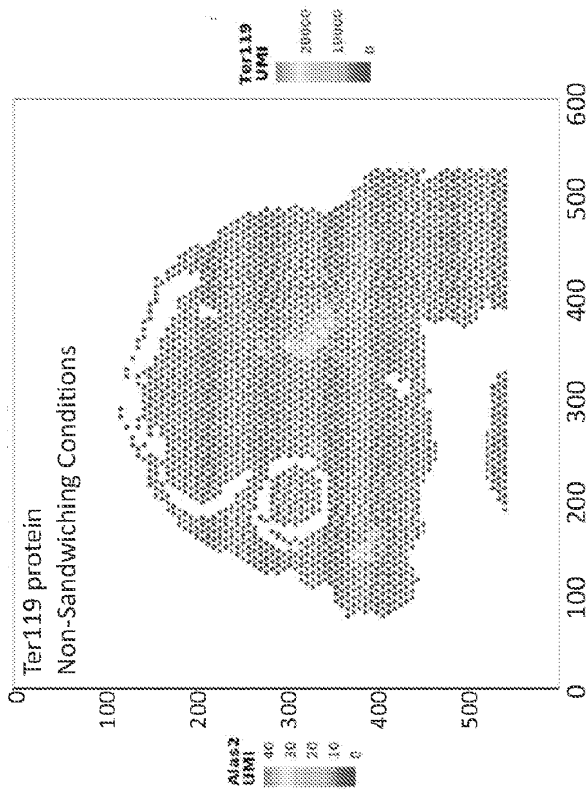
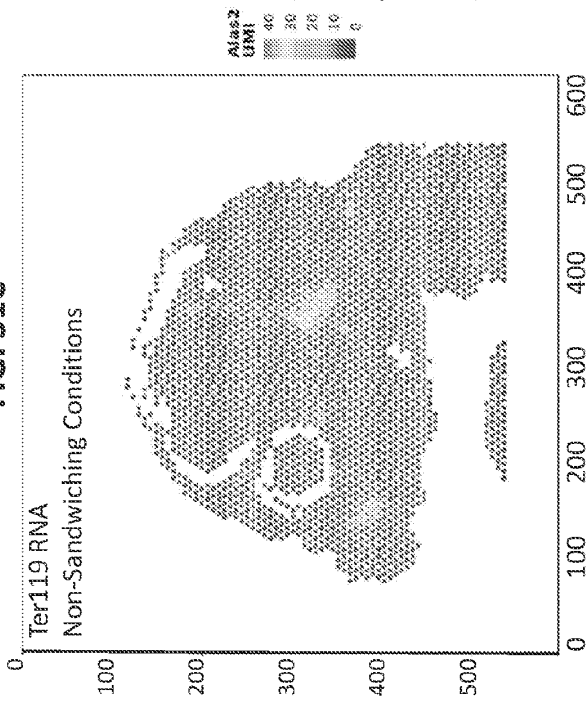
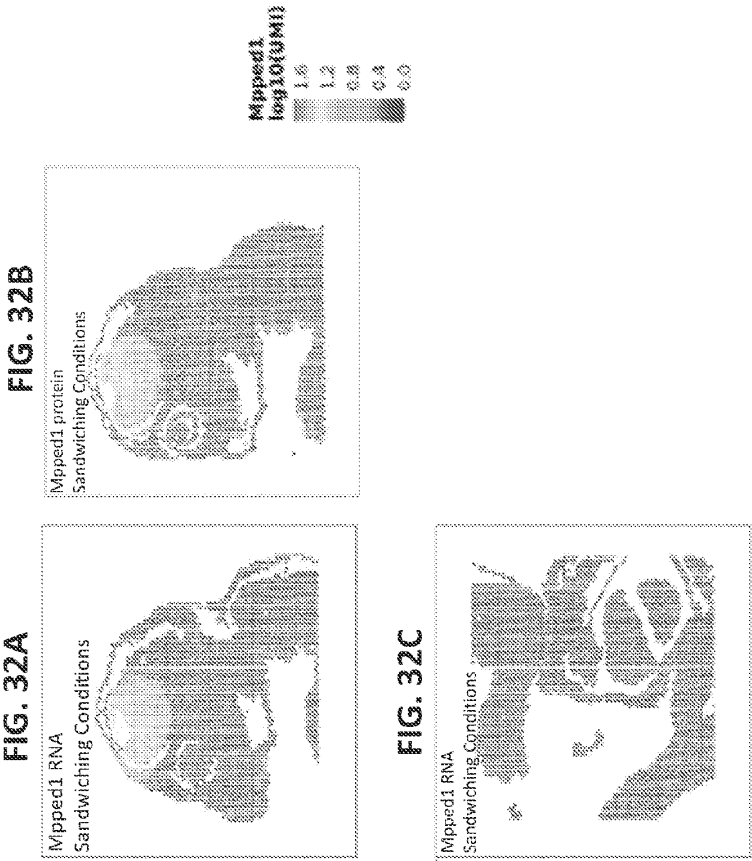
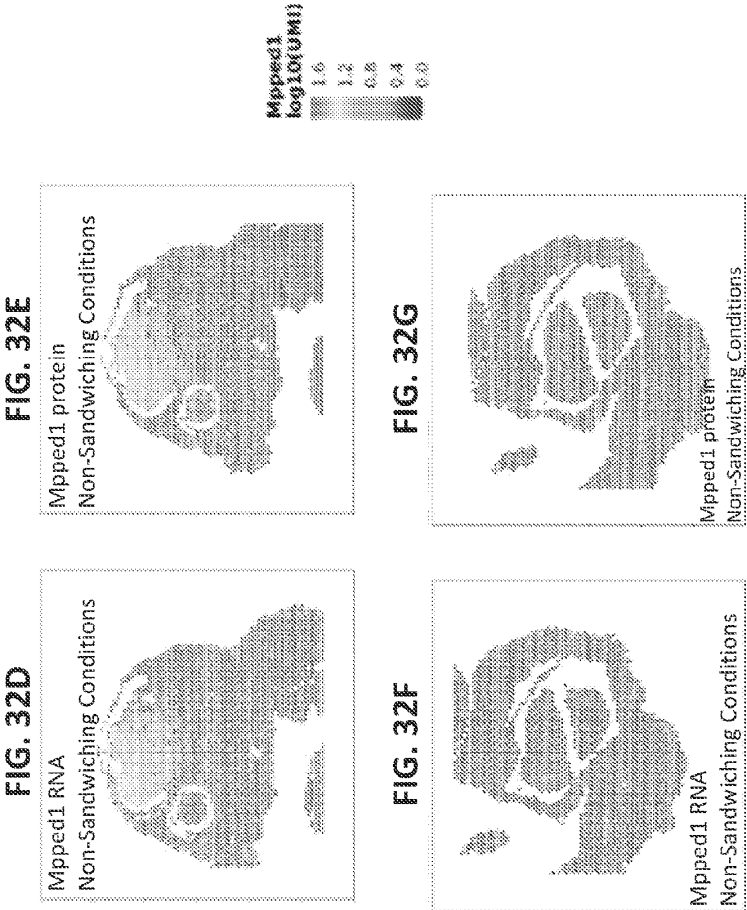
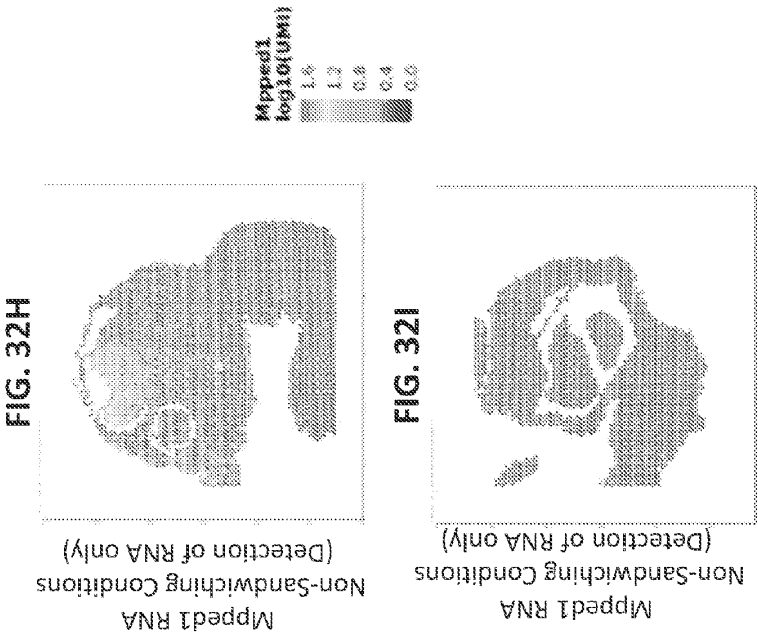


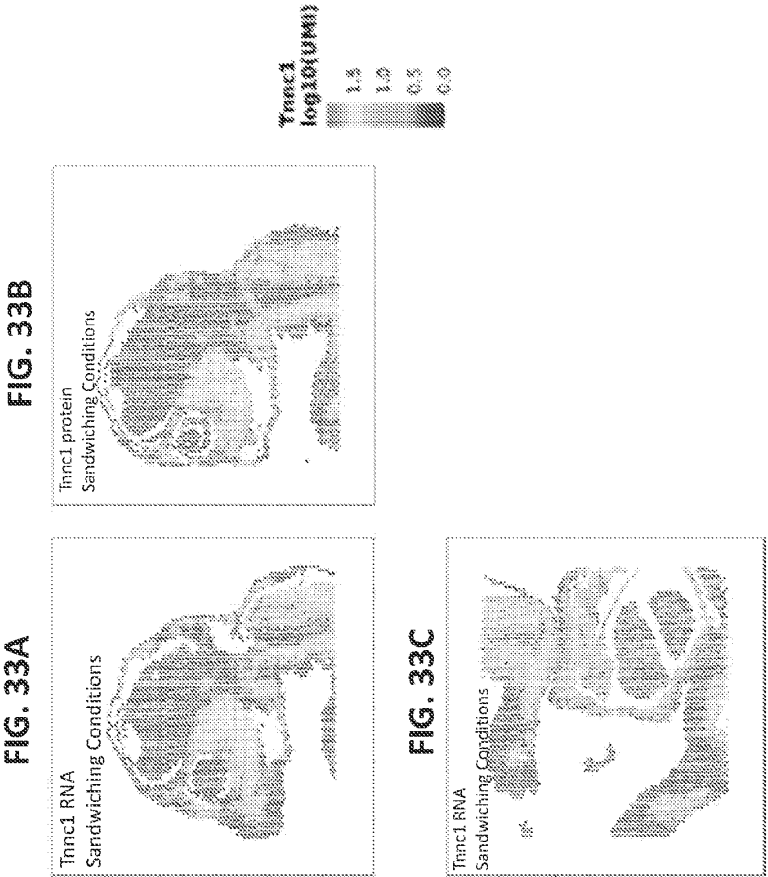
FIG. 31C

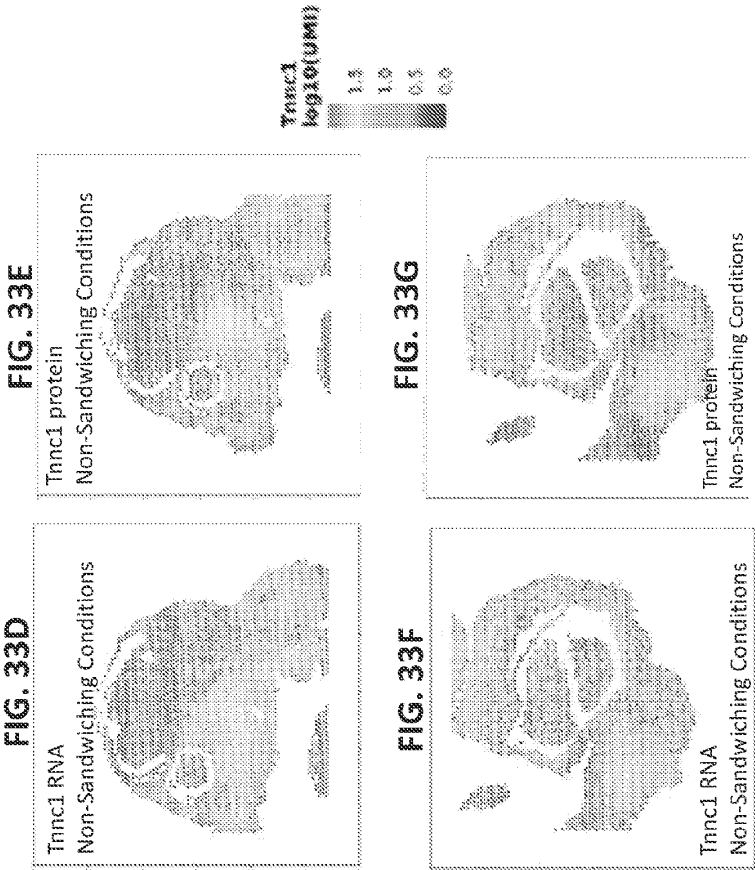


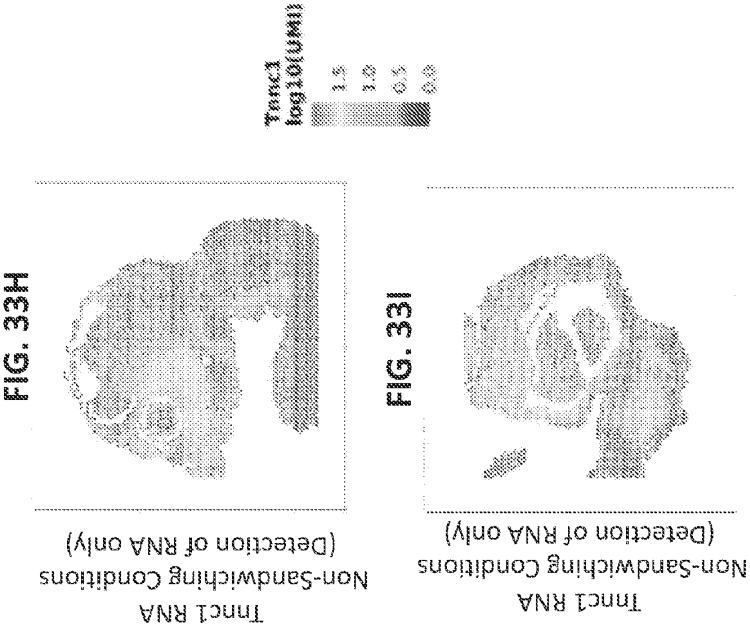


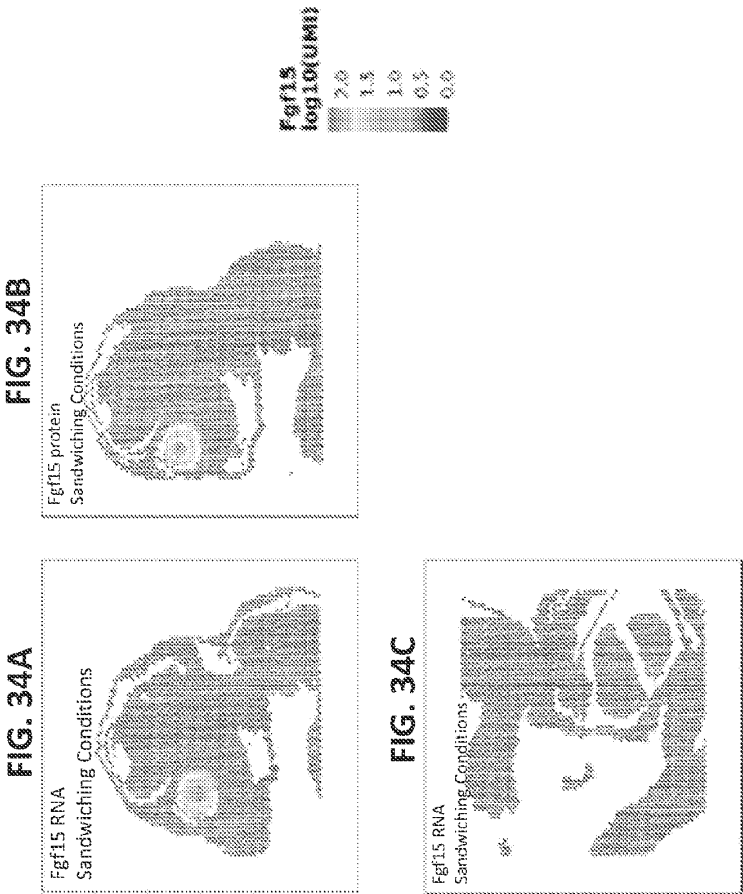


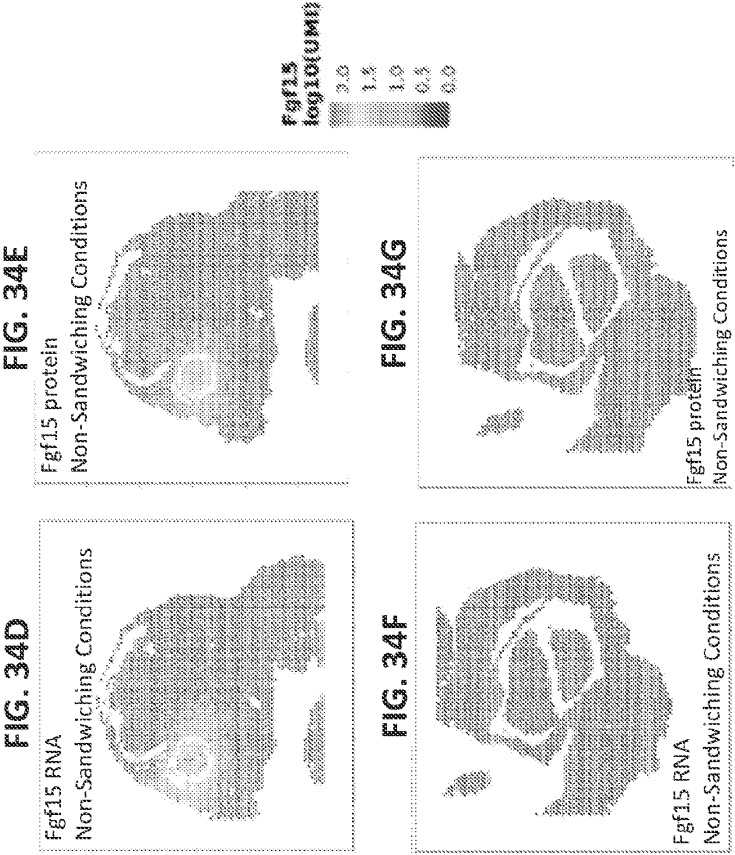












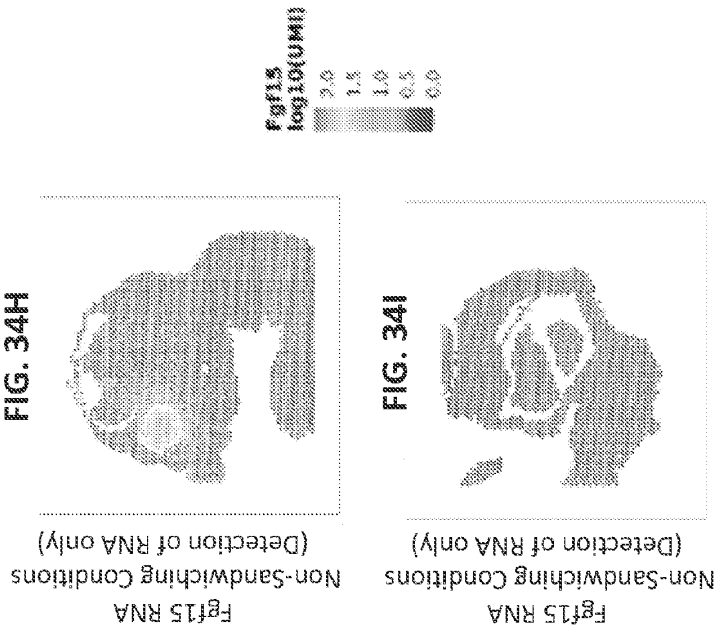


FIG. 35B

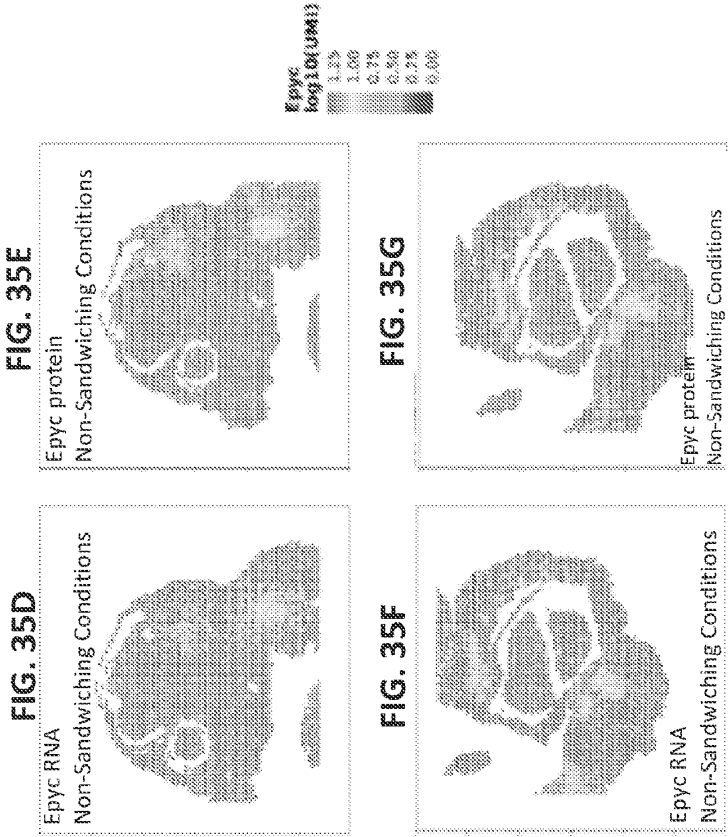


FIG. 35A



FIG. 35C





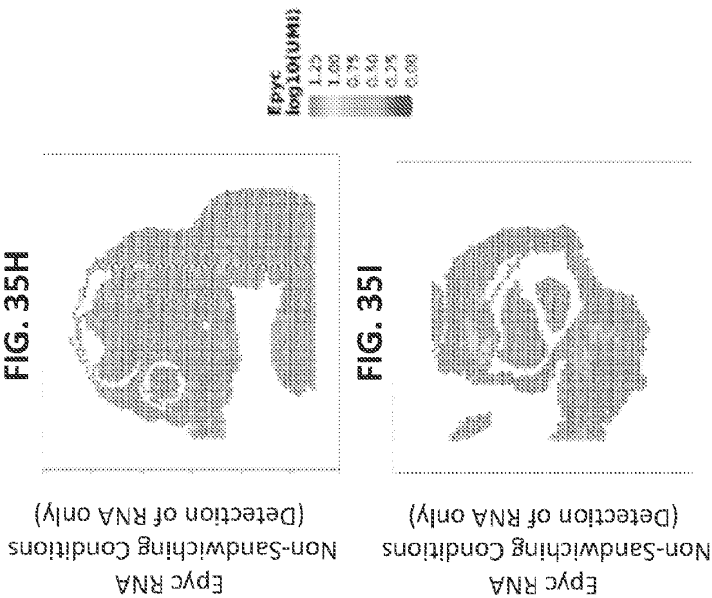


FIG. 36B



FIG. 36A

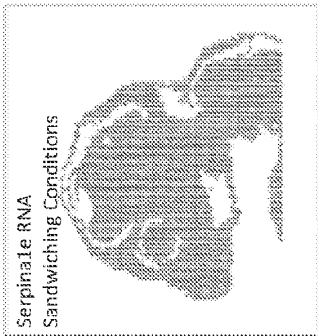
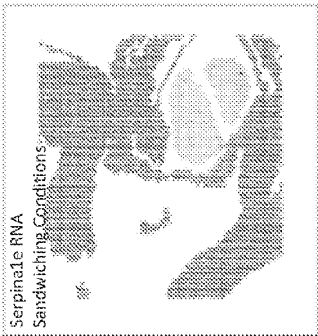
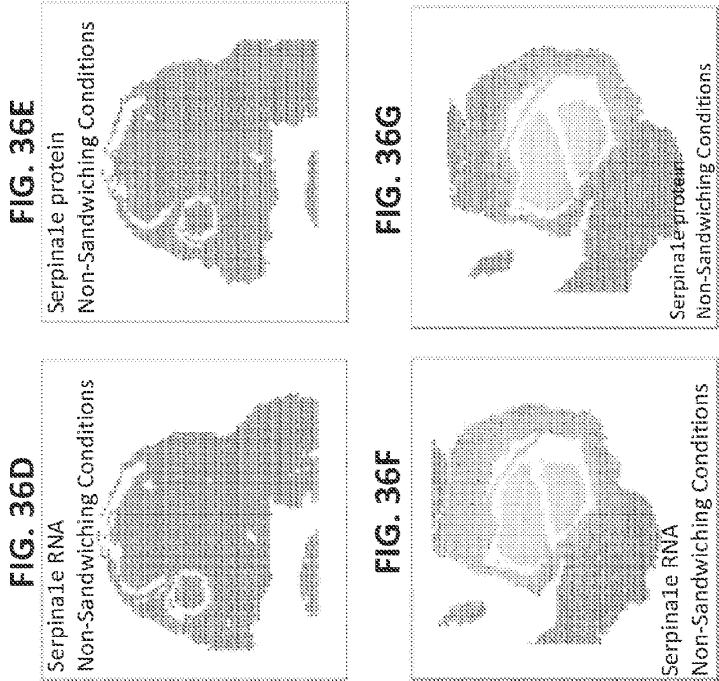
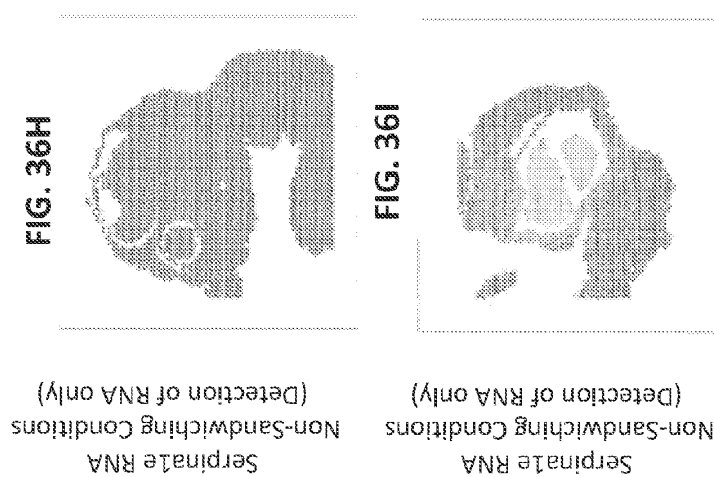
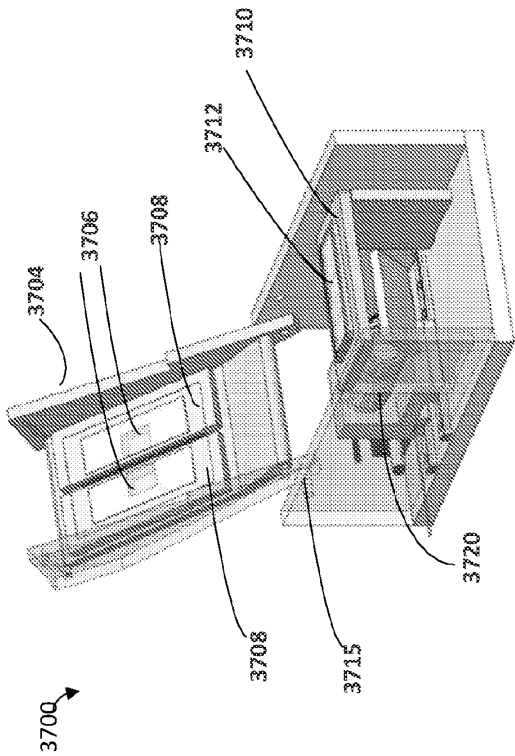
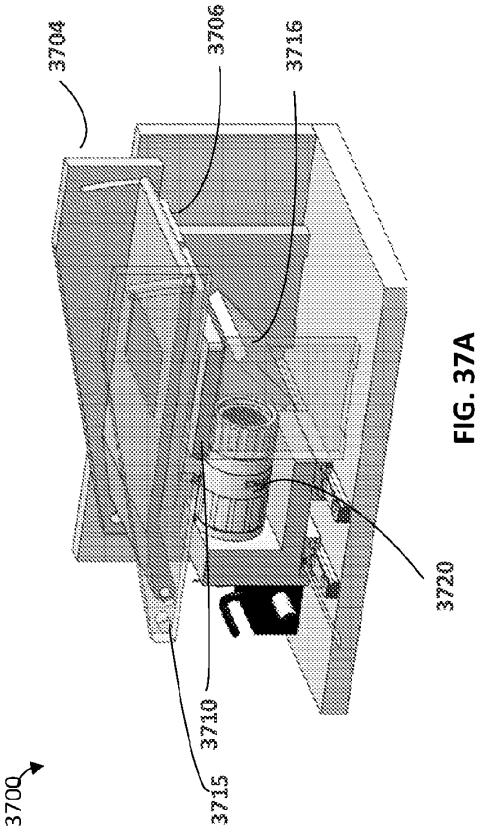


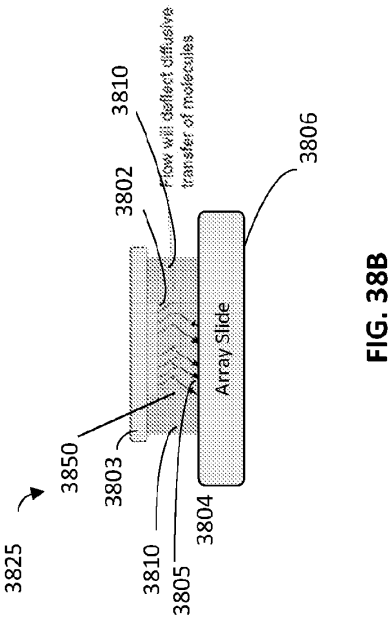
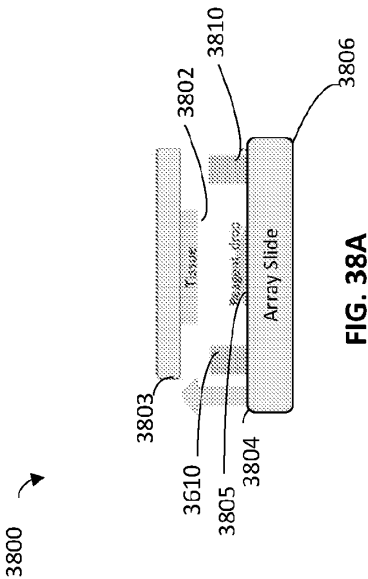
FIG. 36C

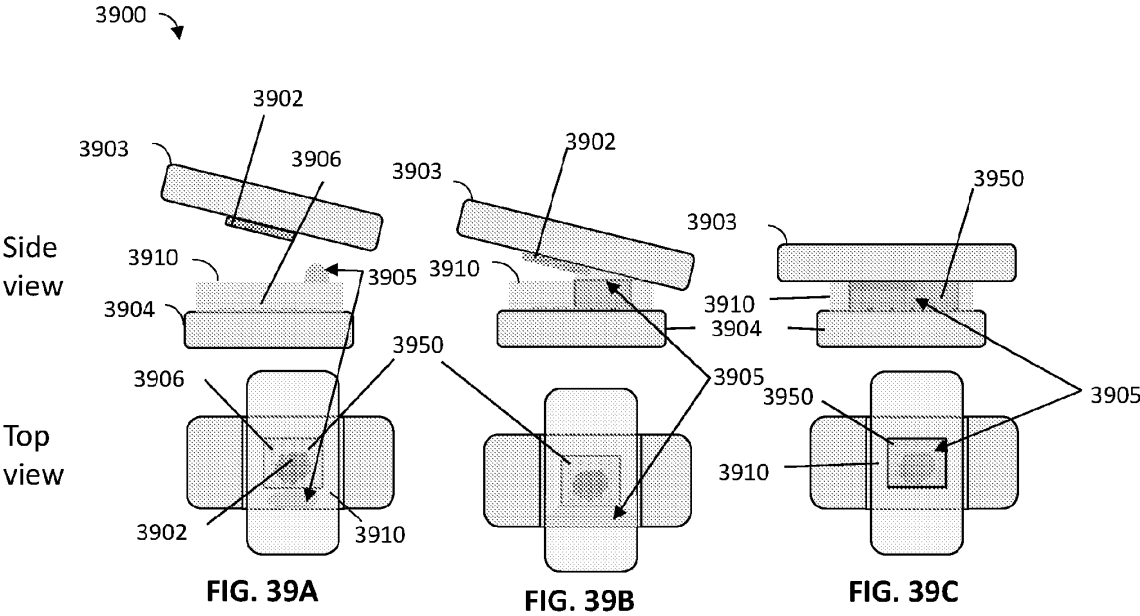


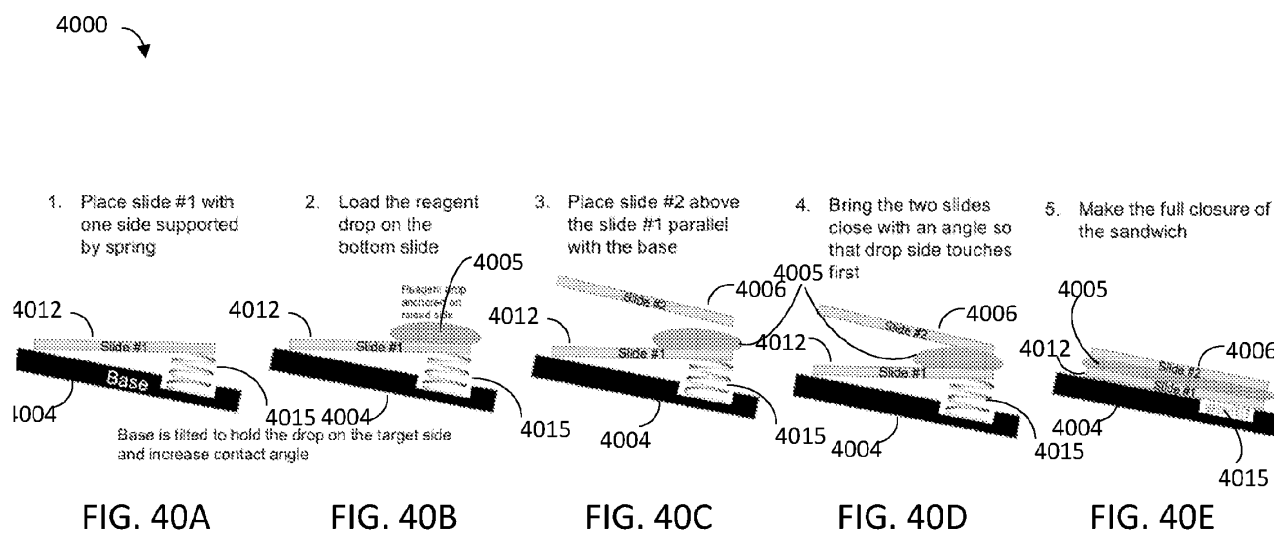












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