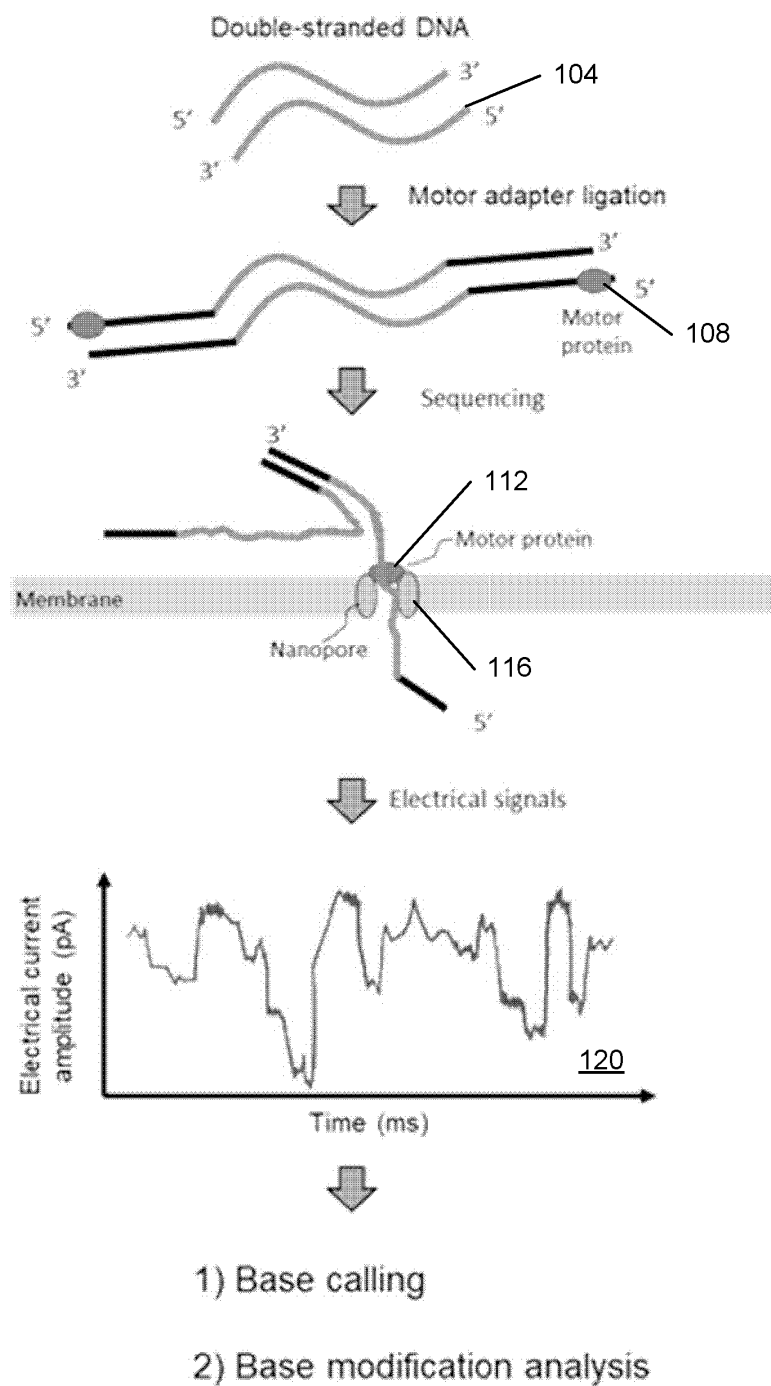


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**FIG. 1**

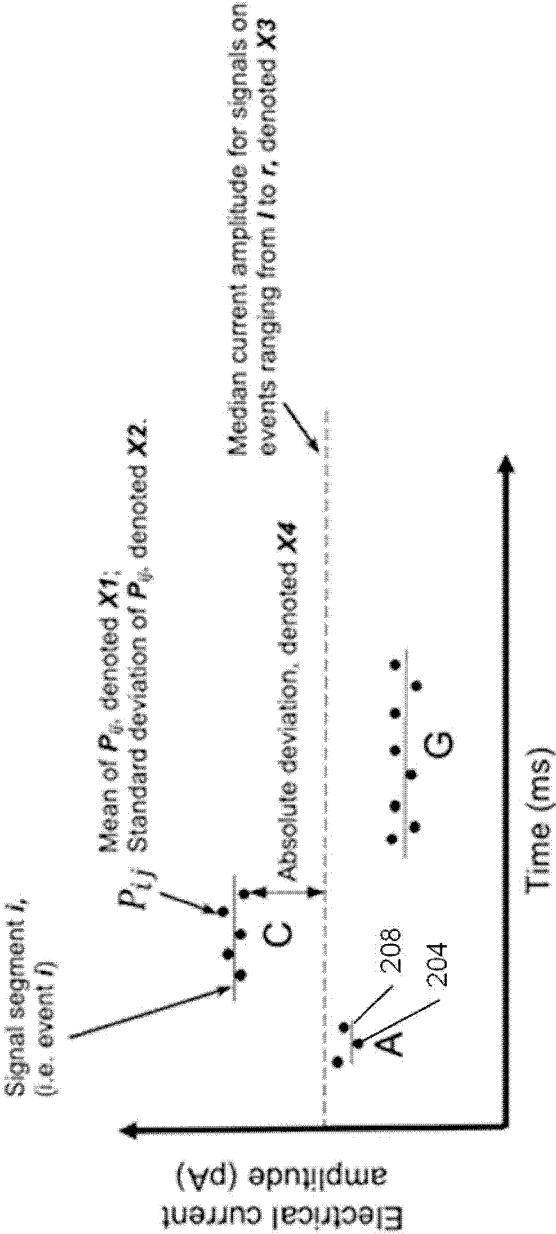


FIG. 2

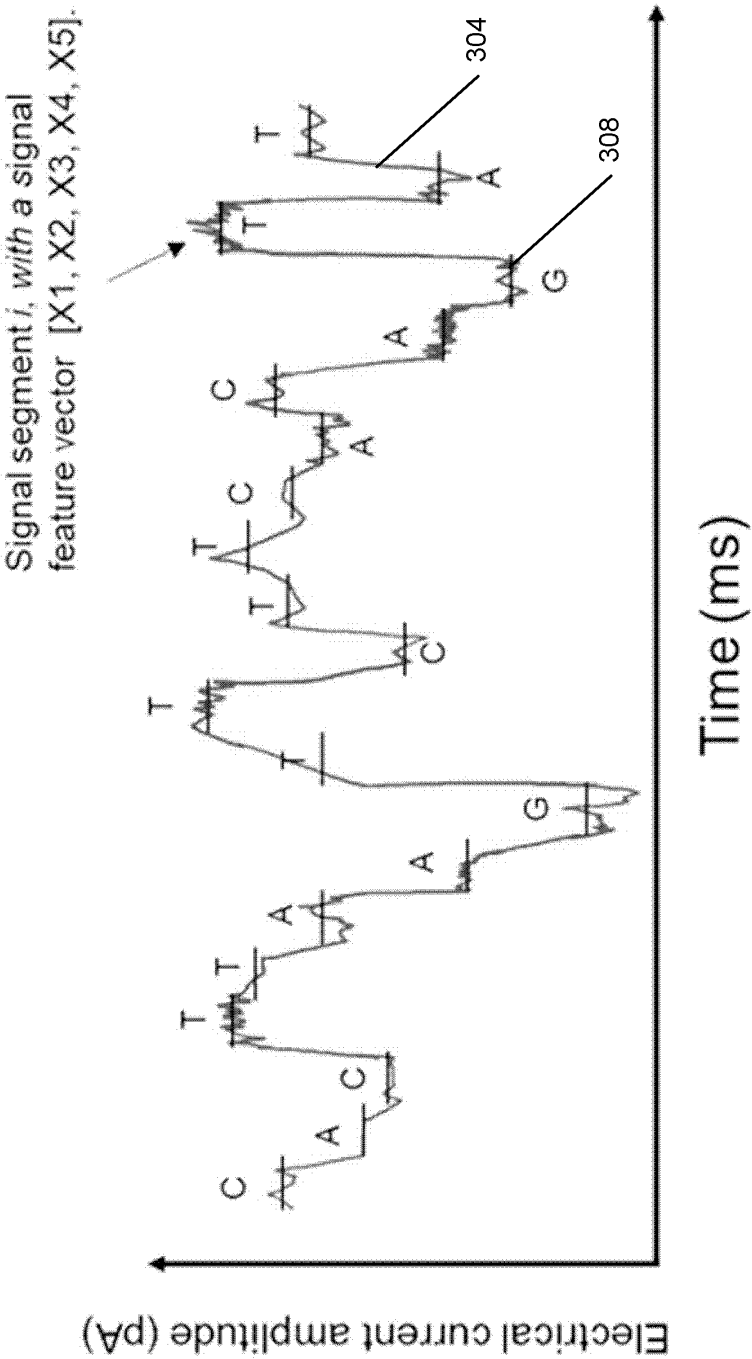
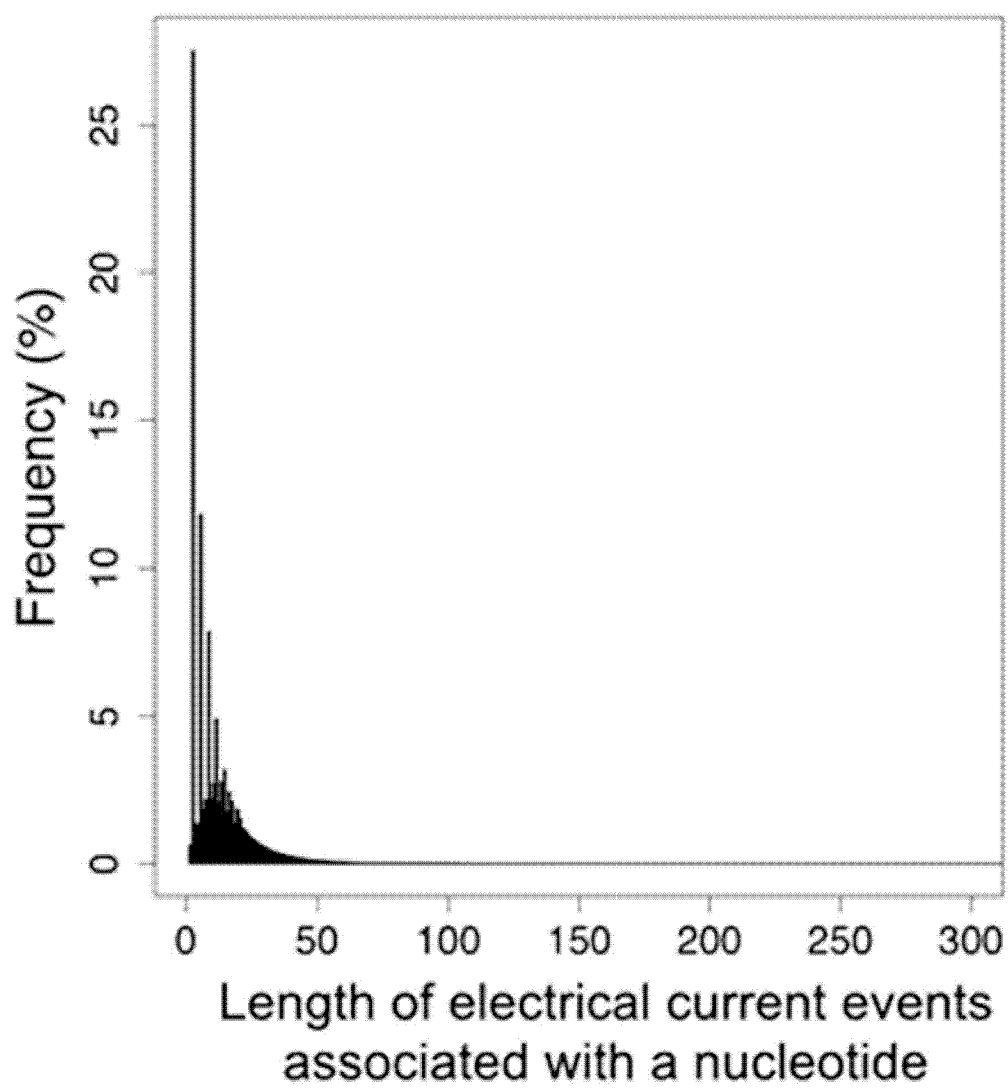


FIG. 3

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**FIG. 4**

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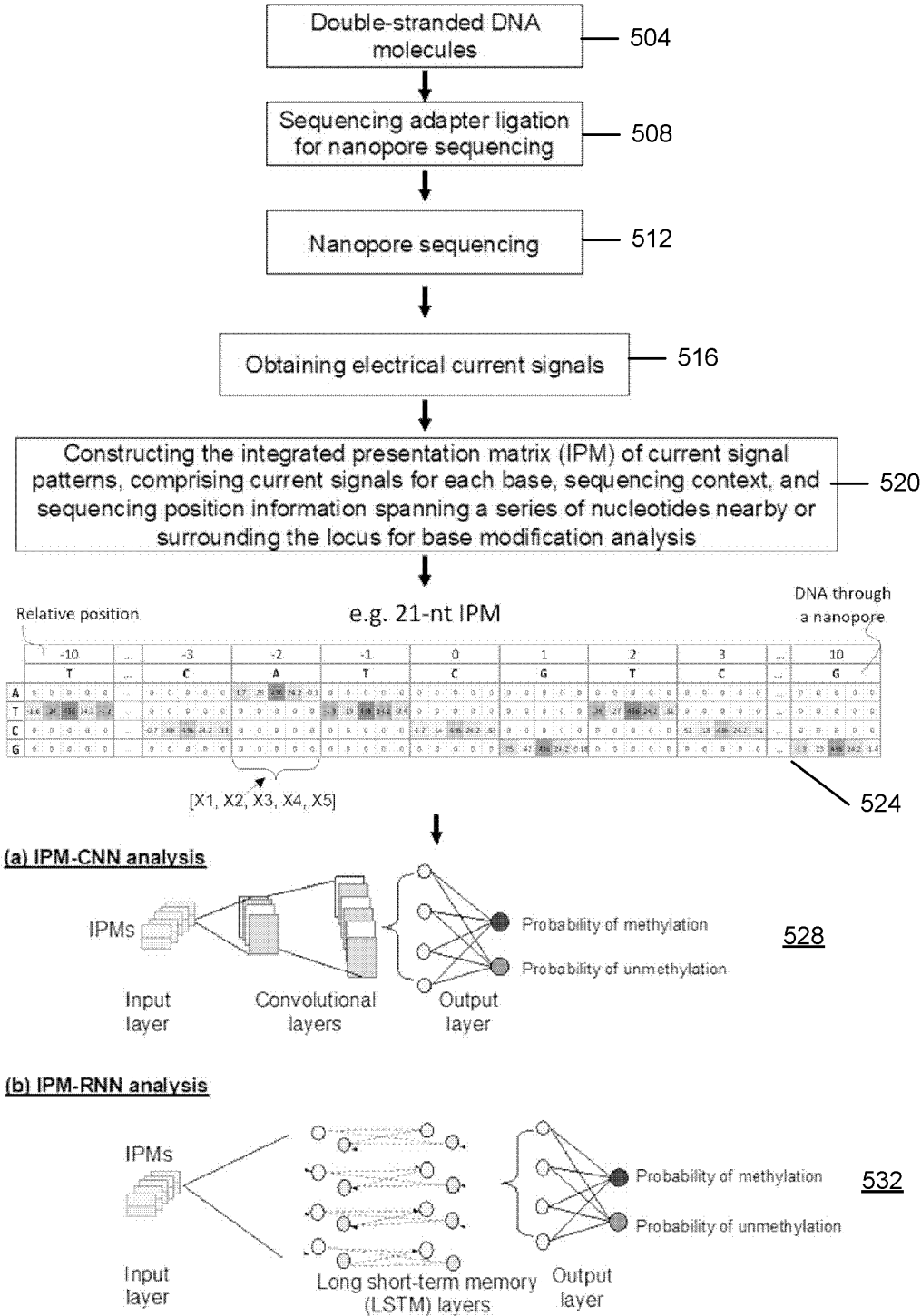


FIG. 5

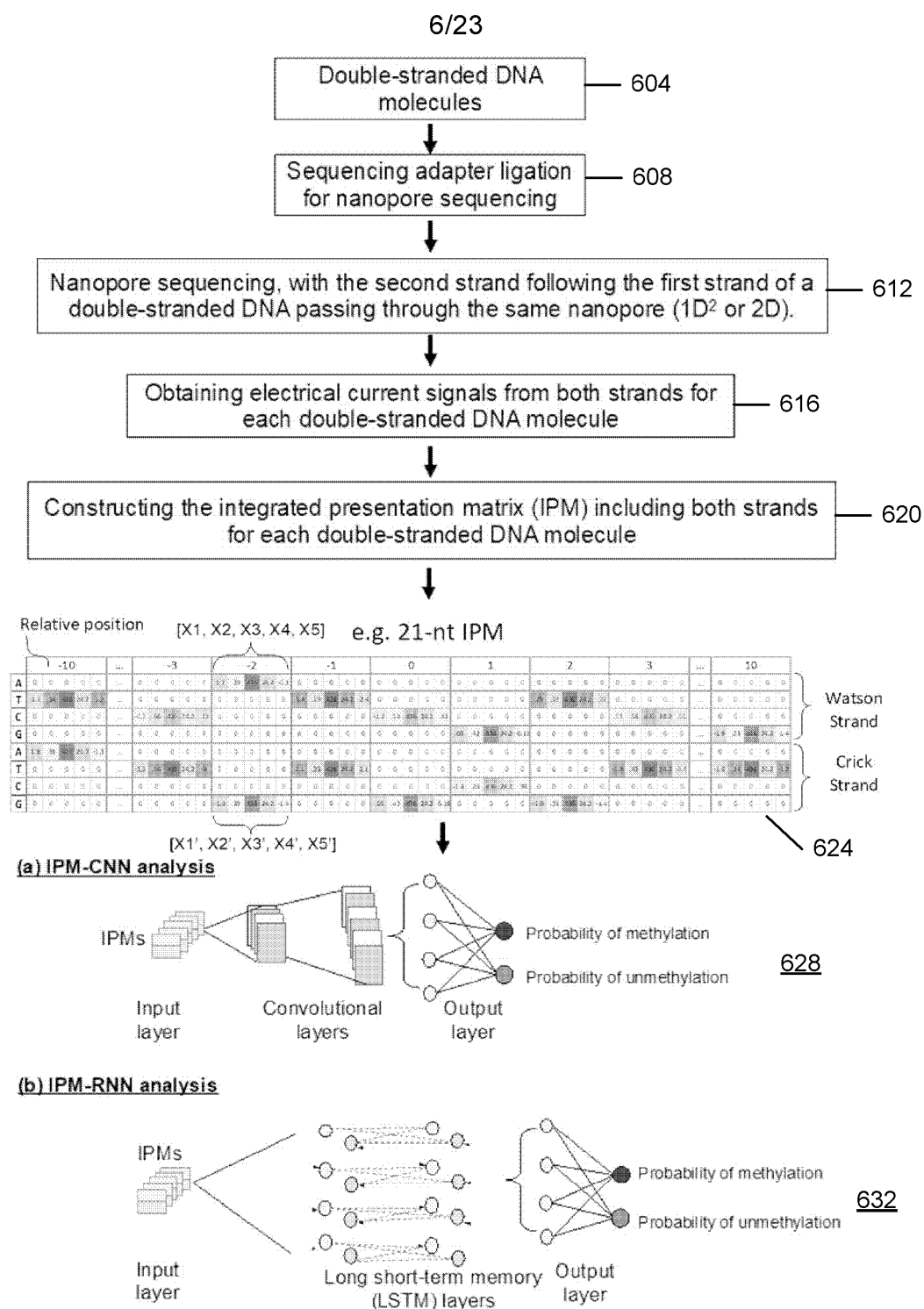


FIG. 6

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kernel size	AUC	
	Training dataset	Testing dataset
1x5	0.98	0.96
1x10	0.98	0.96
1x15	0.97	0.97
1x20	0.98	0.96
1x25	0.98	0.96
1x30	0.97	0.94

FIG. 7

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Datasets	No. of molecules (no. of CpG sites)	
	Training	Testing
M.SssI-treated DNA	7,989 (38,470)	4,826 (9,716)
WGADNA	8,052 (37,150)	5,041 (11,444)

FIG. 8

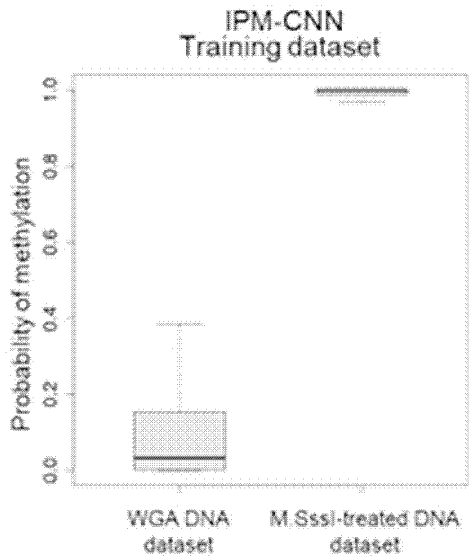


FIG. 9A

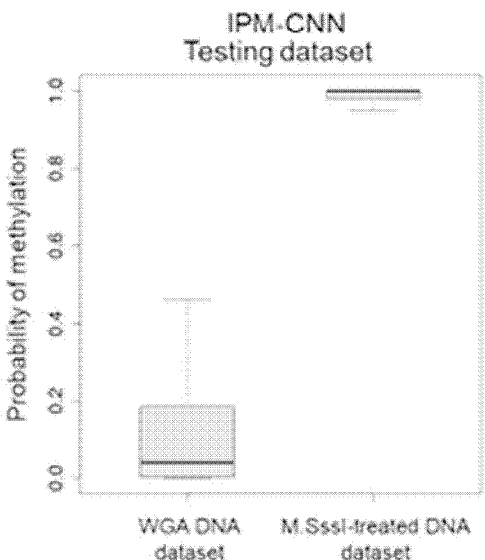


FIG. 9B

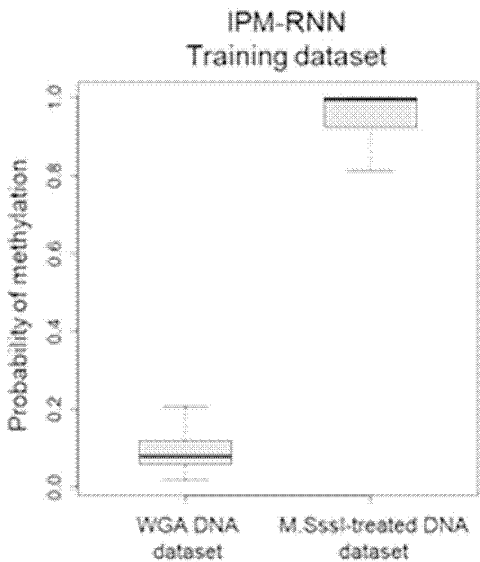


FIG. 9C

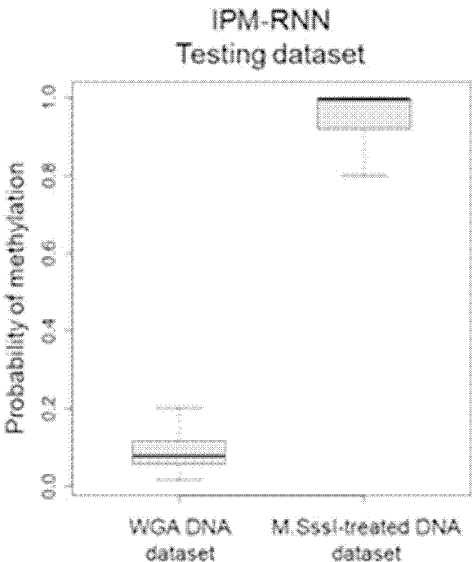


FIG. 9D

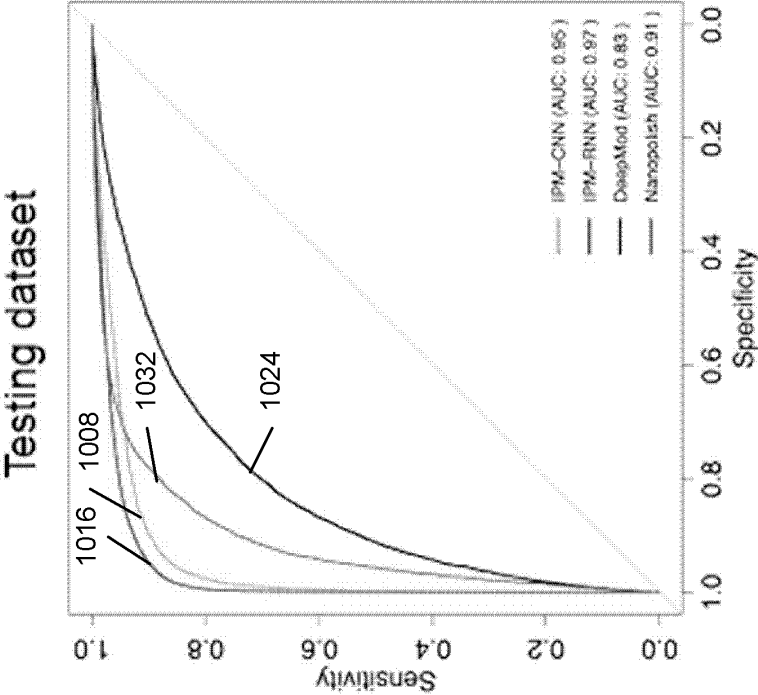


FIG. 10B

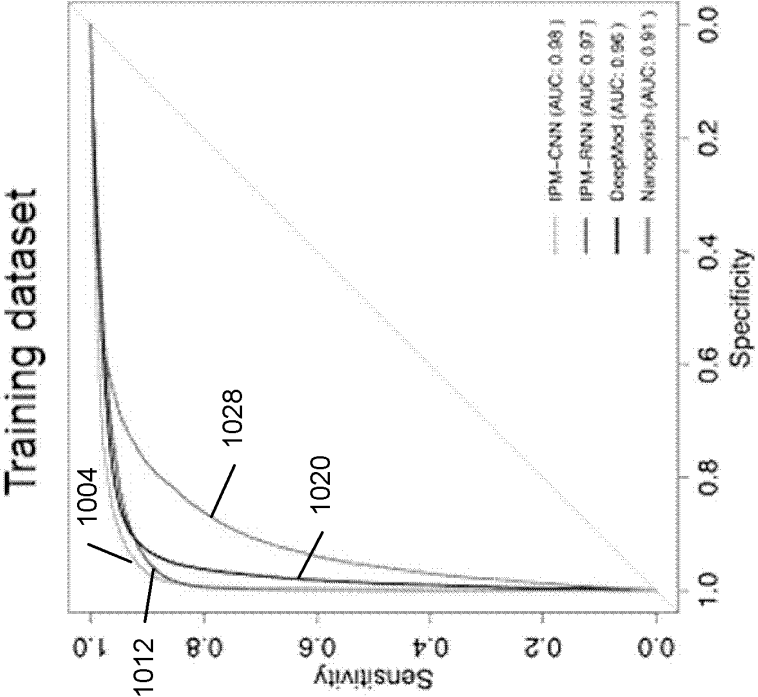


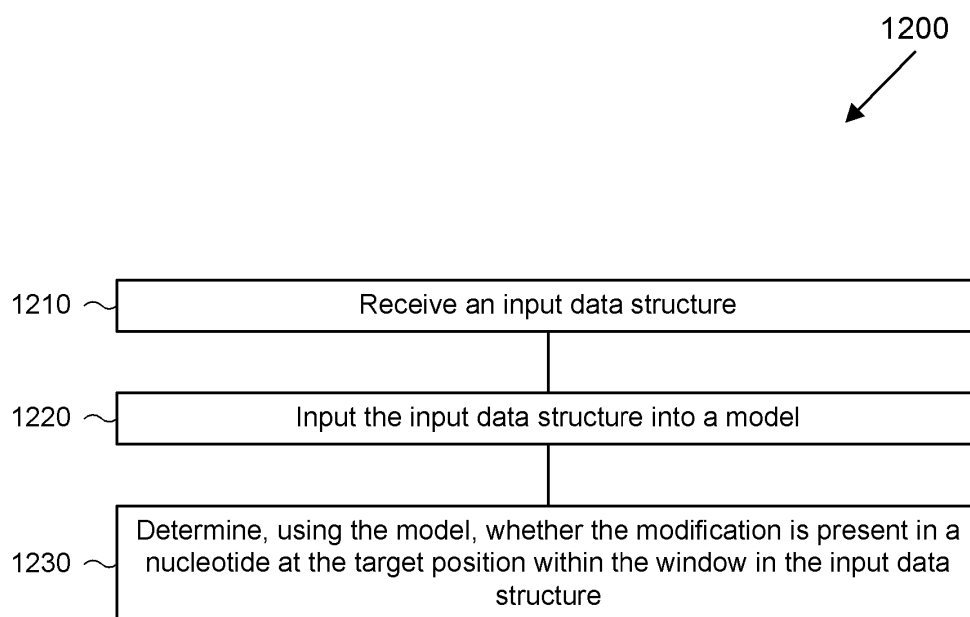
FIG. 10A

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	Sensitivity	Specificity
IPM-CNN	90%	90%
IPM-RNN	93%	
DeepMod	53%	
nanopolish	74%	
IPM-CNN	86%	95%
IPM-RNN	90%	
DeepMod	38%	
nanopolish	55%	
IPM-CNN	70%	99%
IPM-RNN	83%	
DeepMod	13%	
nanopolish	16%	

FIG. 11

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**FIG. 12**

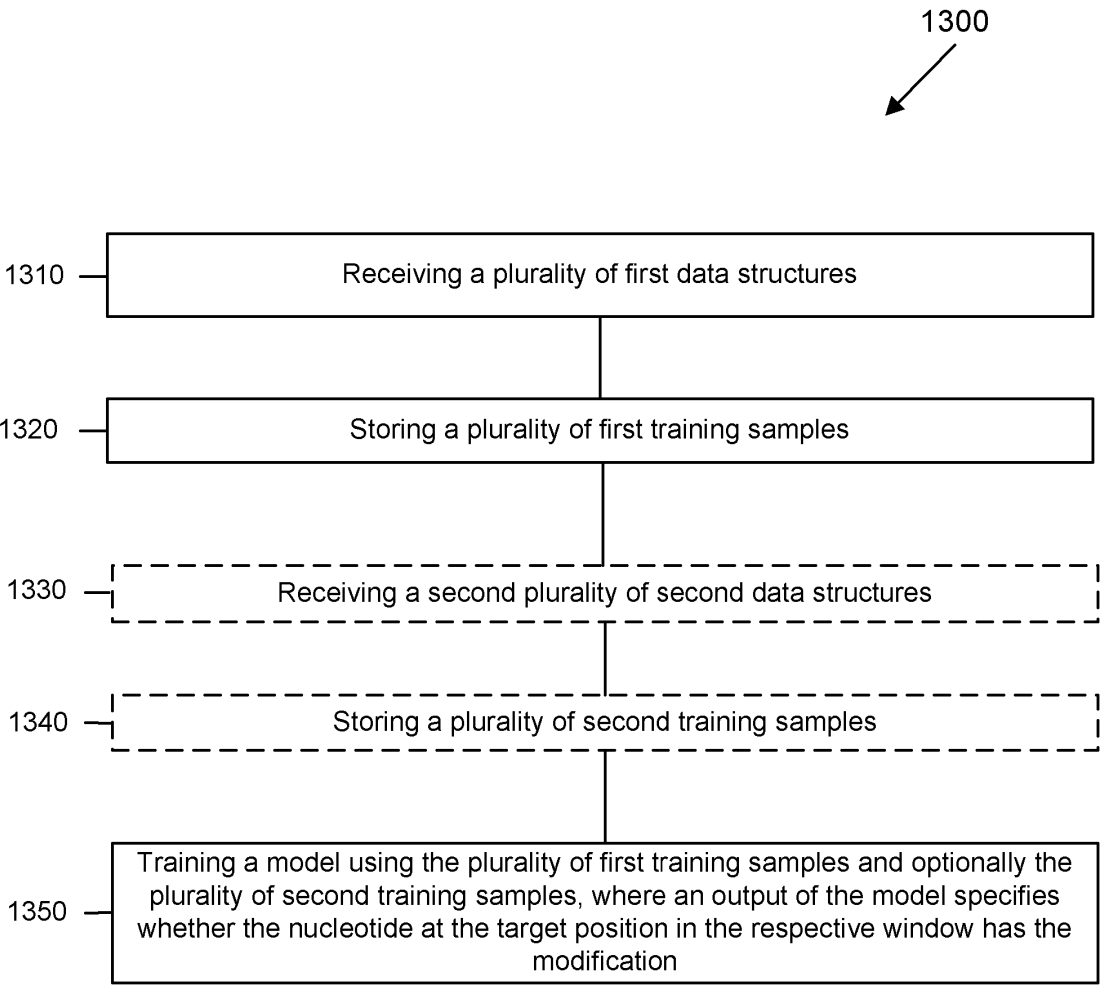


FIG. 13

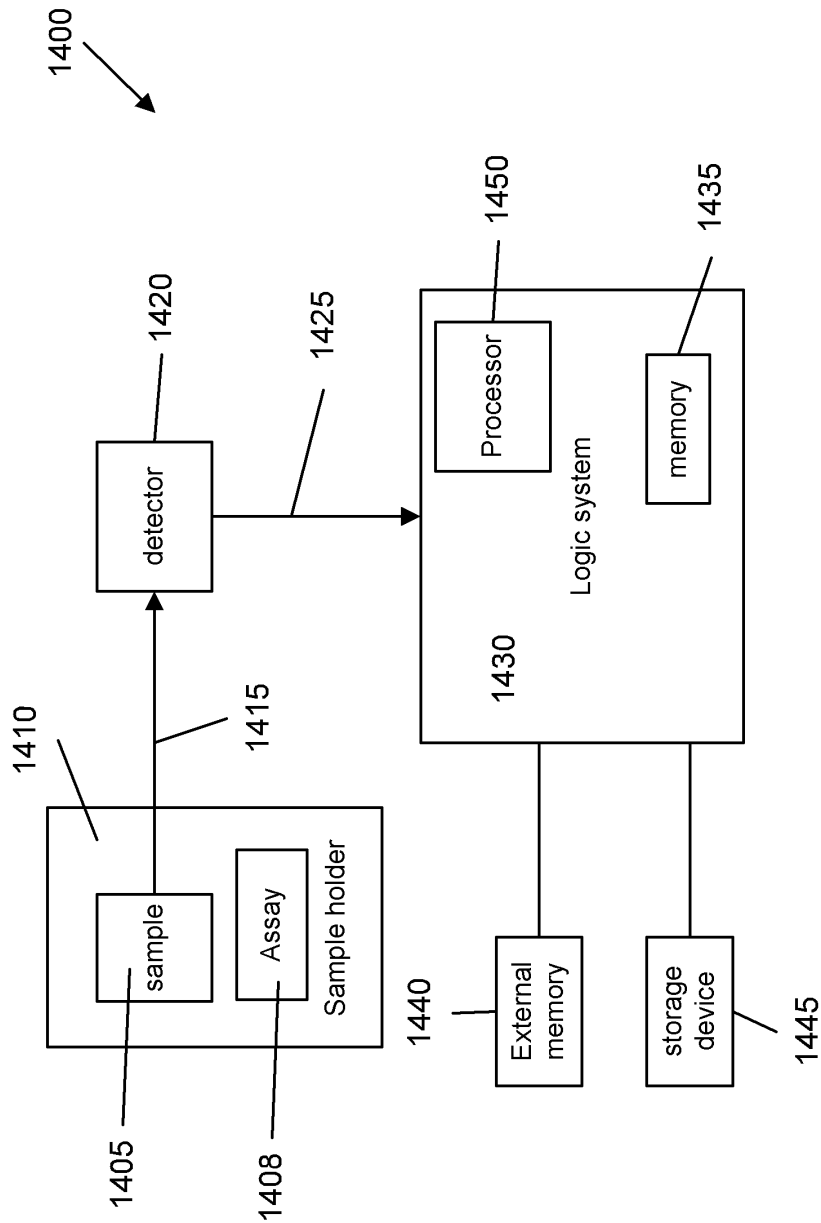


FIG. 14

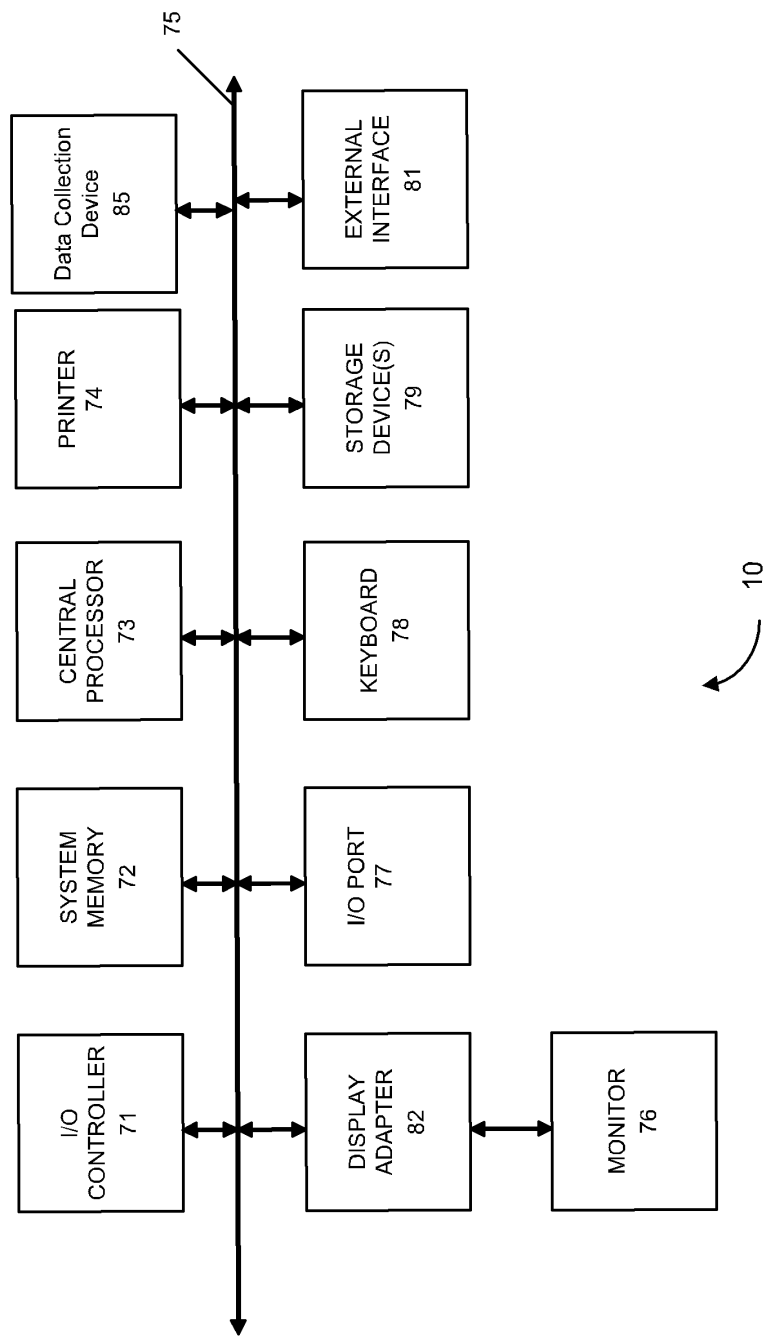


FIG. 15

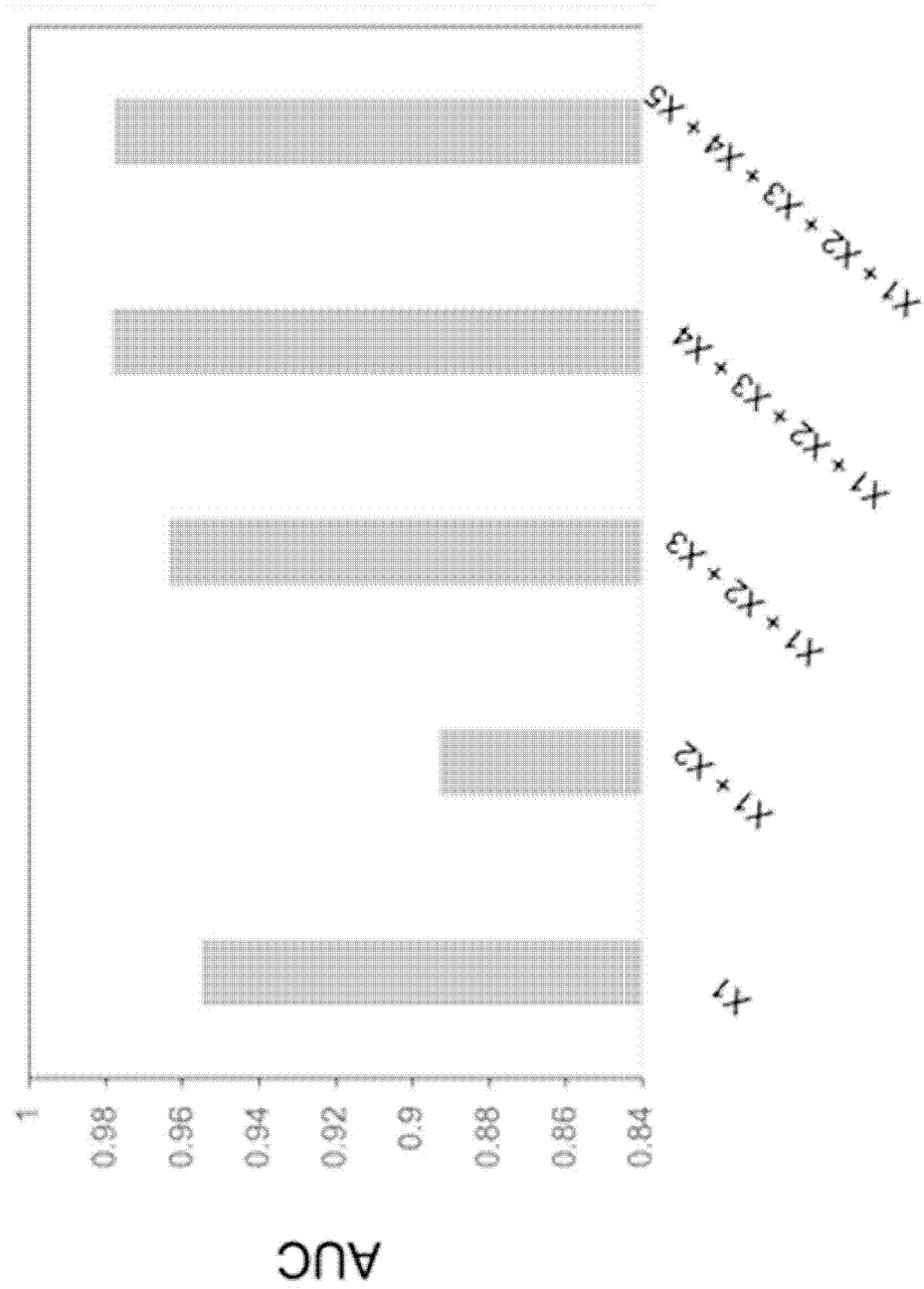


FIG. 16

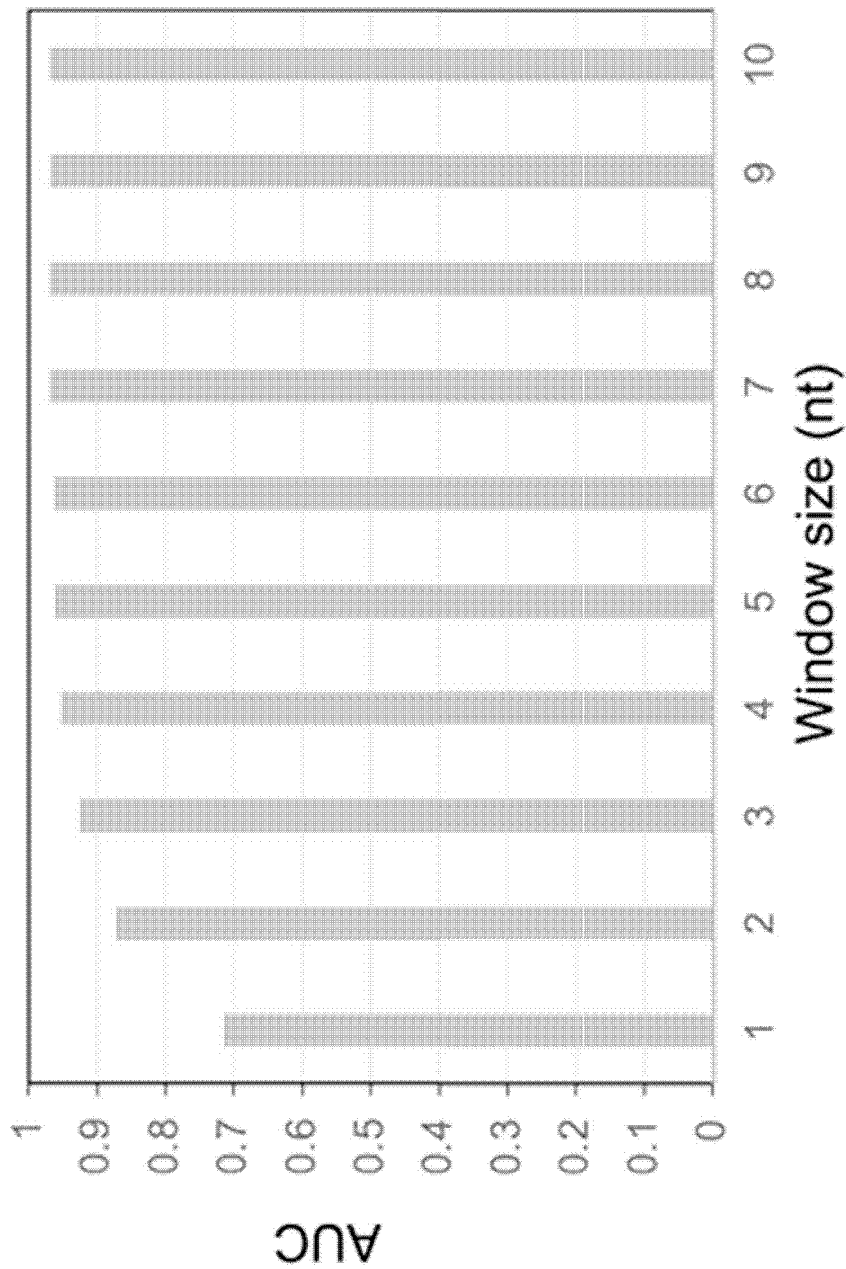


FIG. 17

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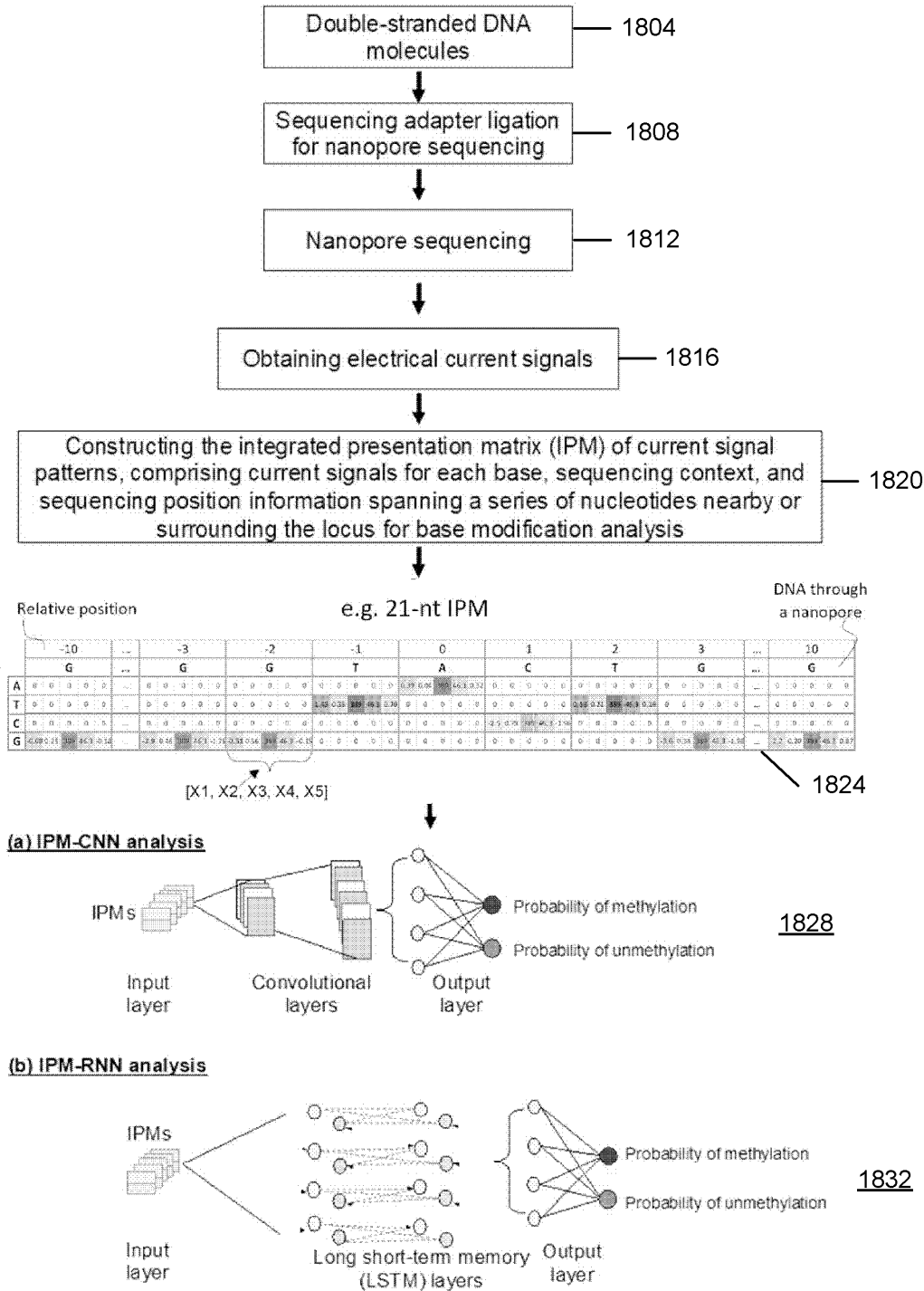


FIG. 18

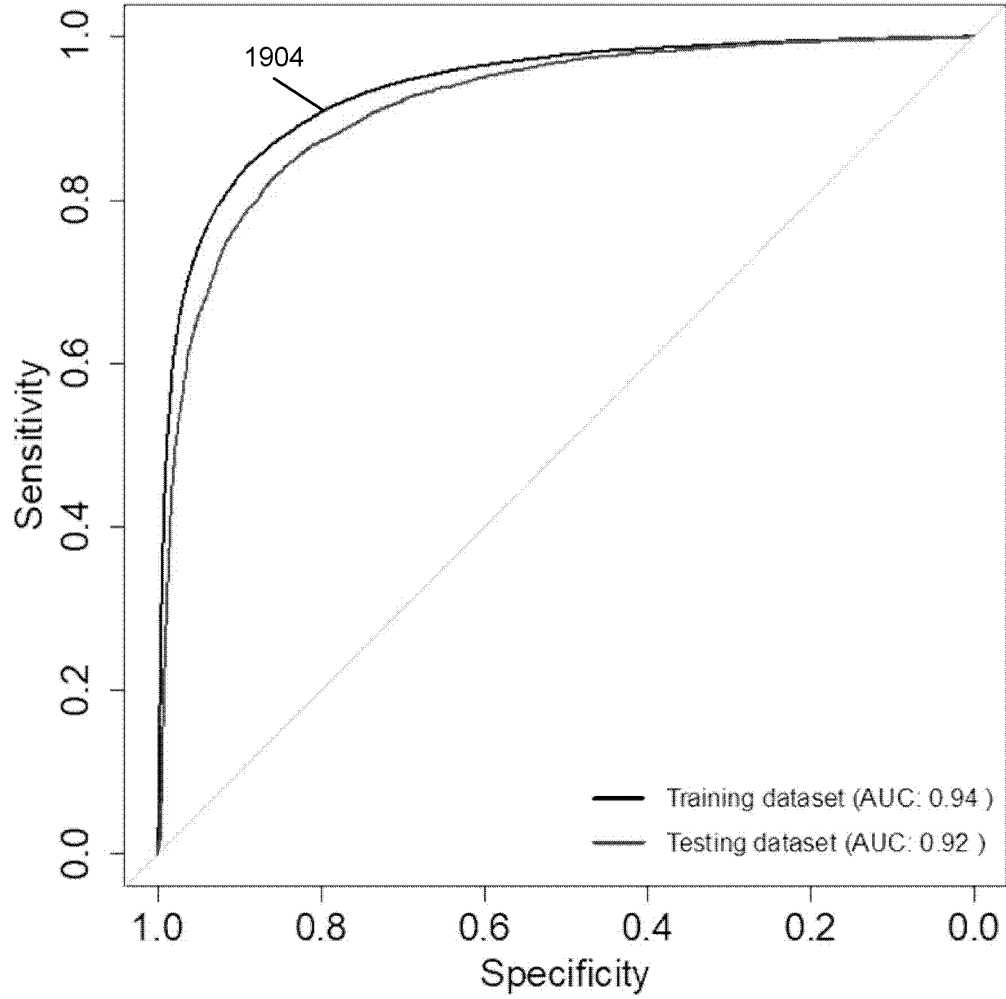
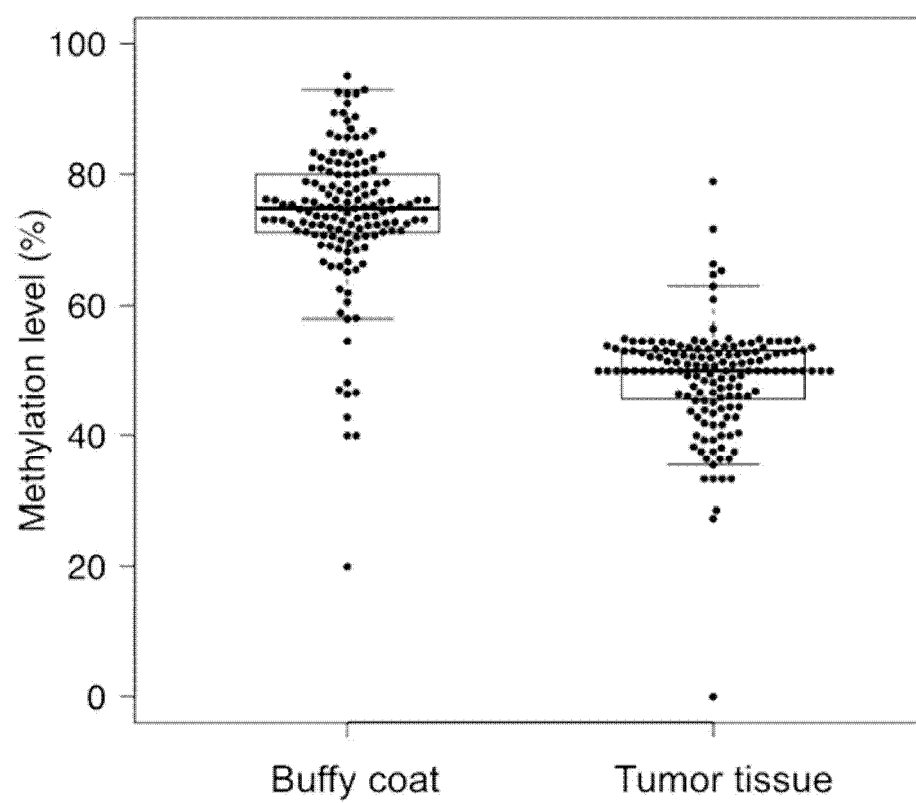


FIG. 19

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**FIG. 20**

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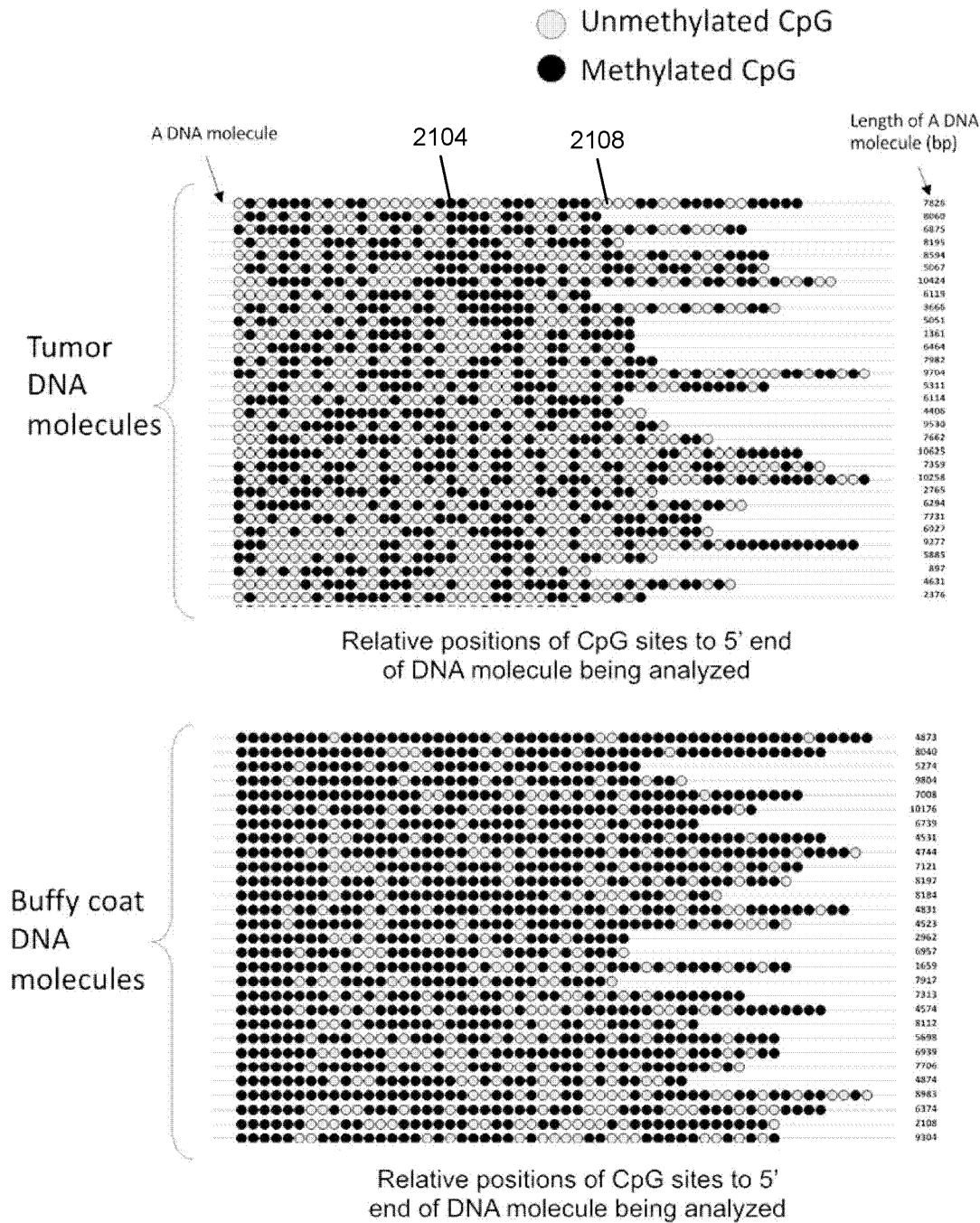
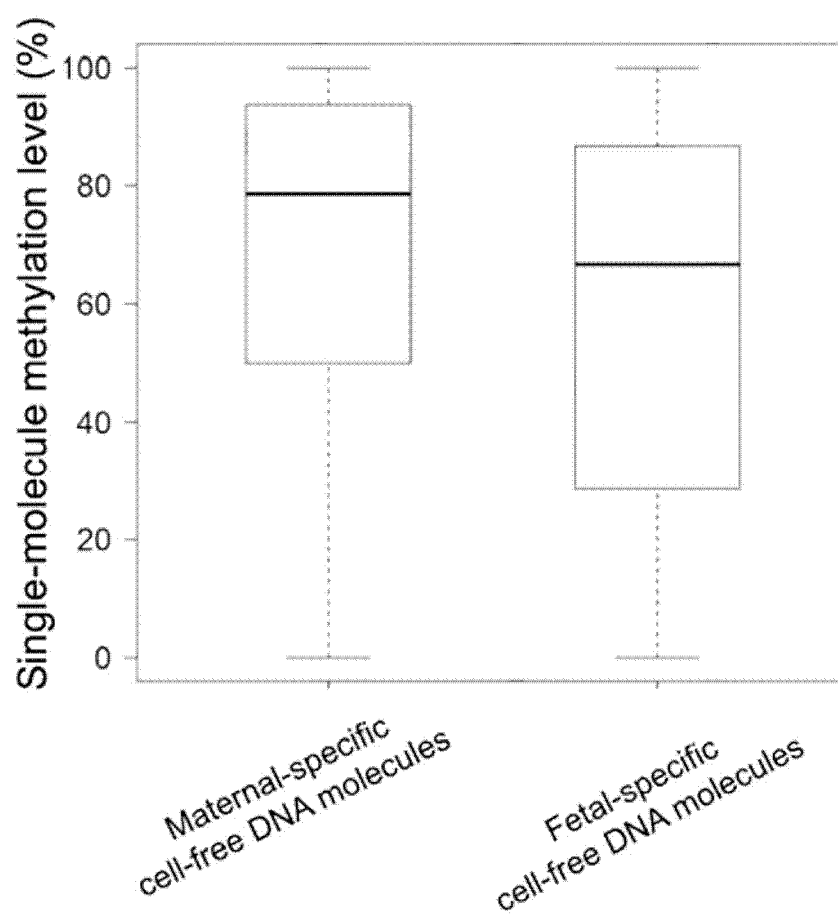
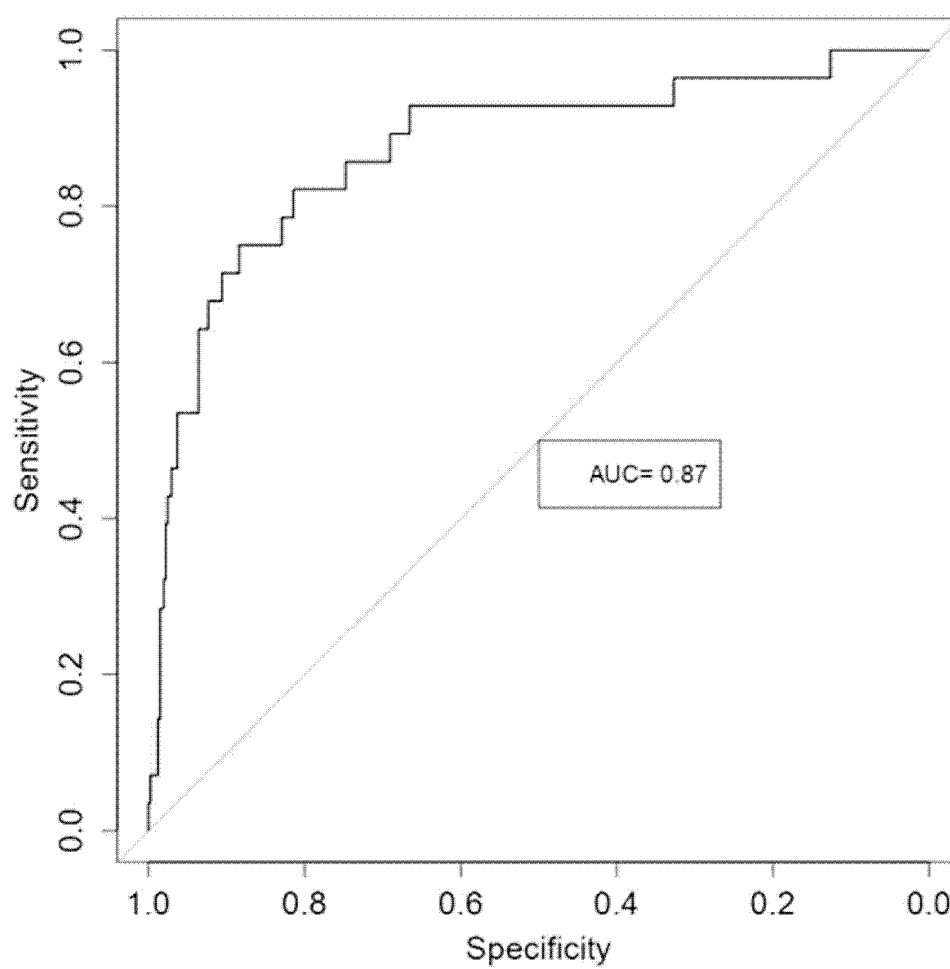


FIG. 21

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**FIG. 22**

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**FIG. 23**