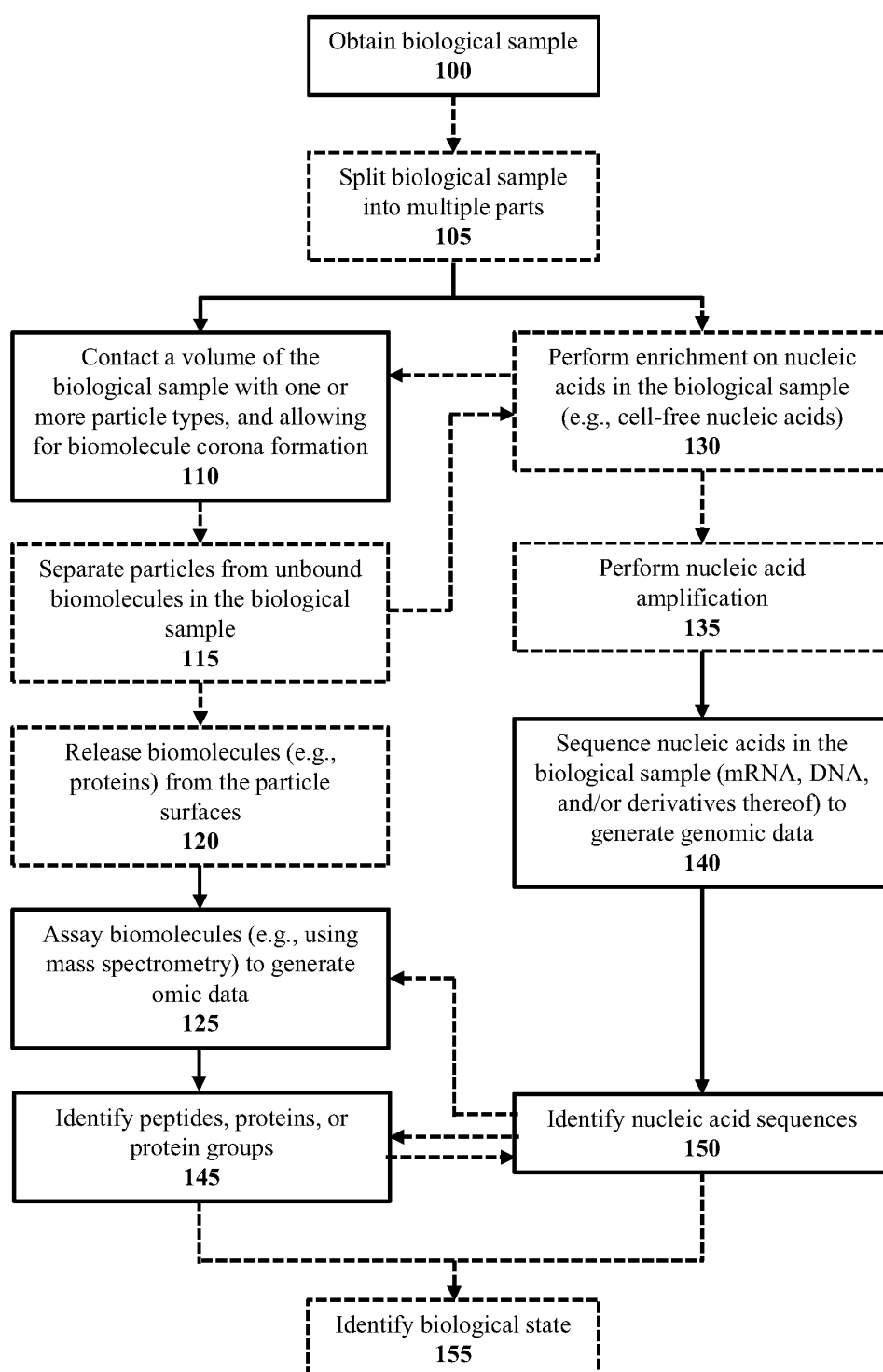


**FIG. 1**

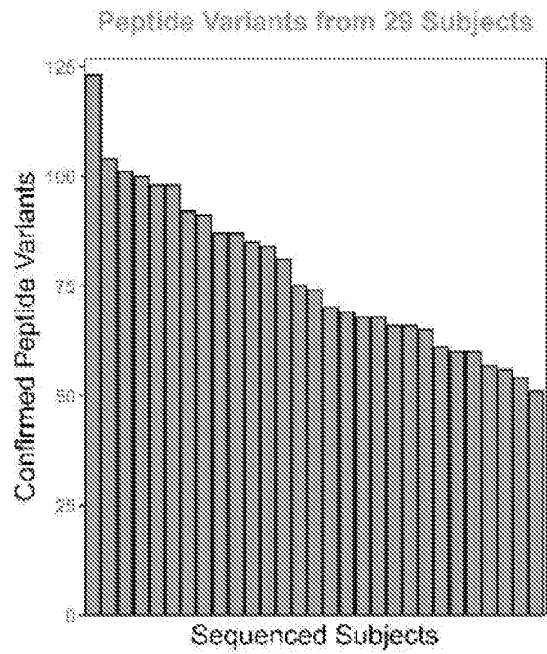


FIG. 2A

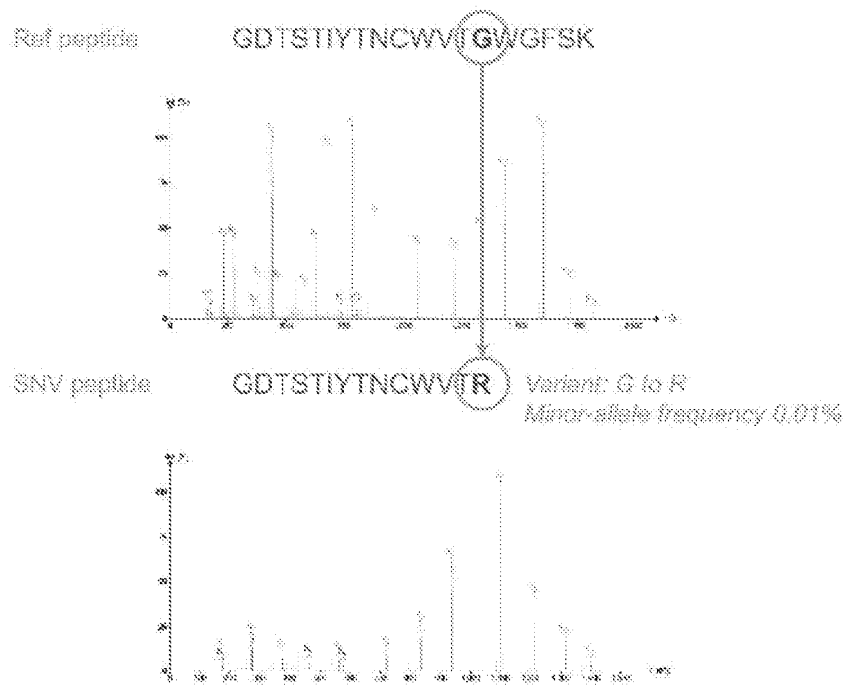


FIG. 2B

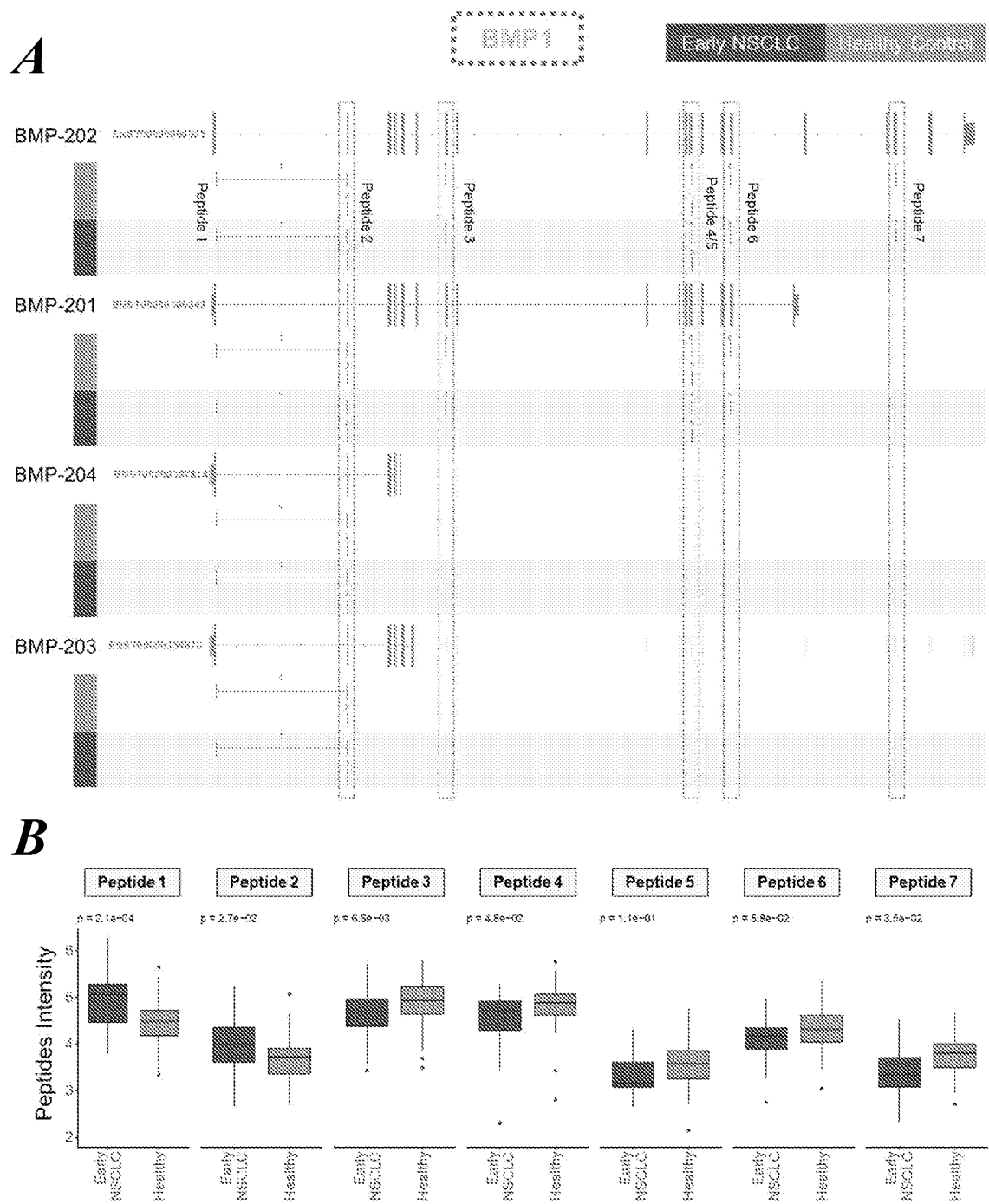


FIG. 3

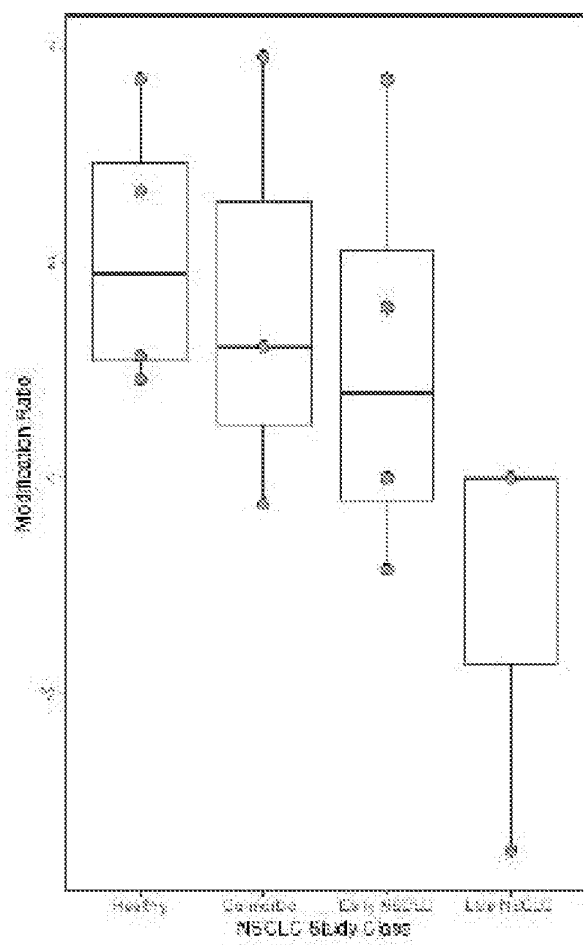
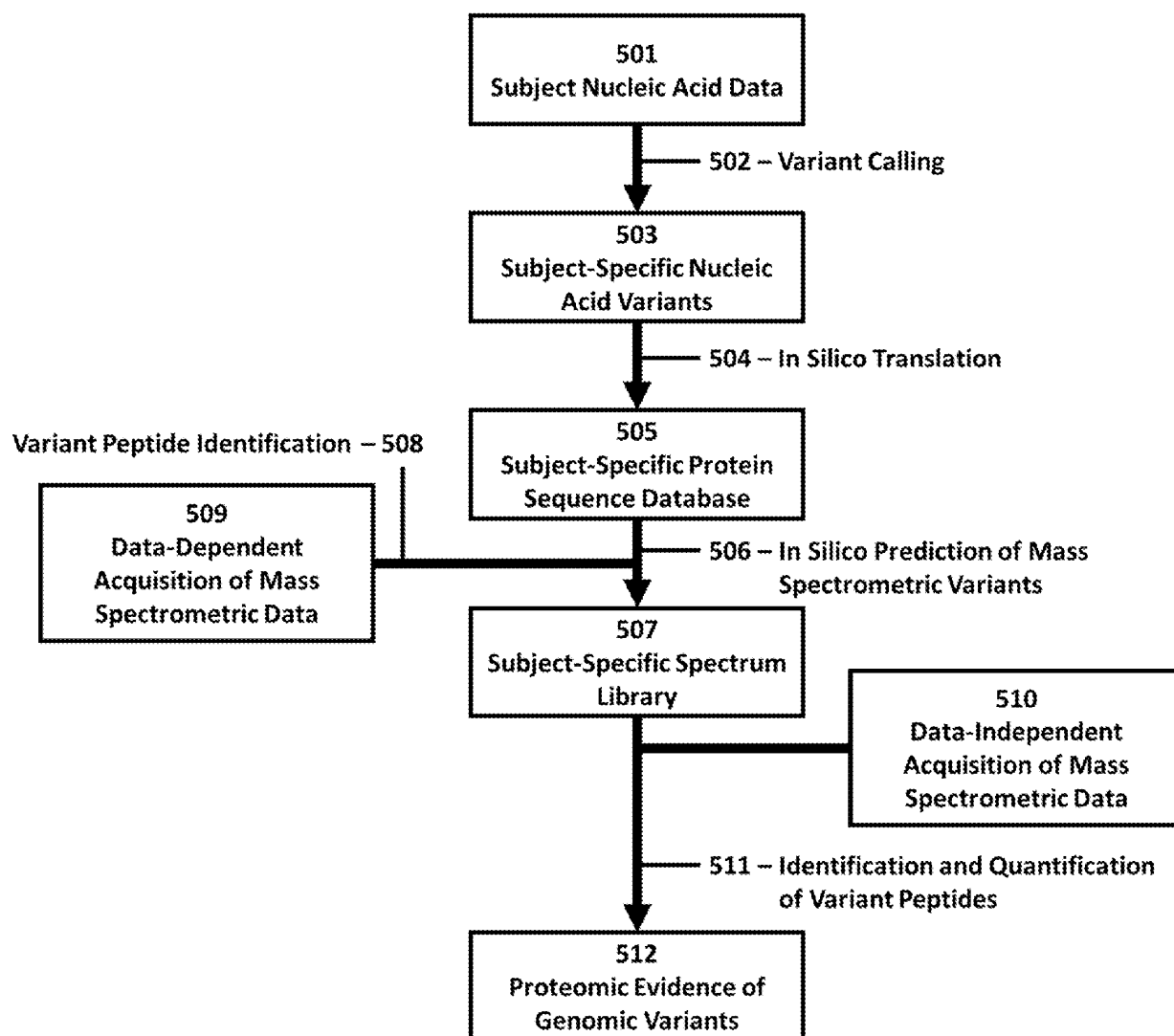


FIG. 4

**FIG. 5**

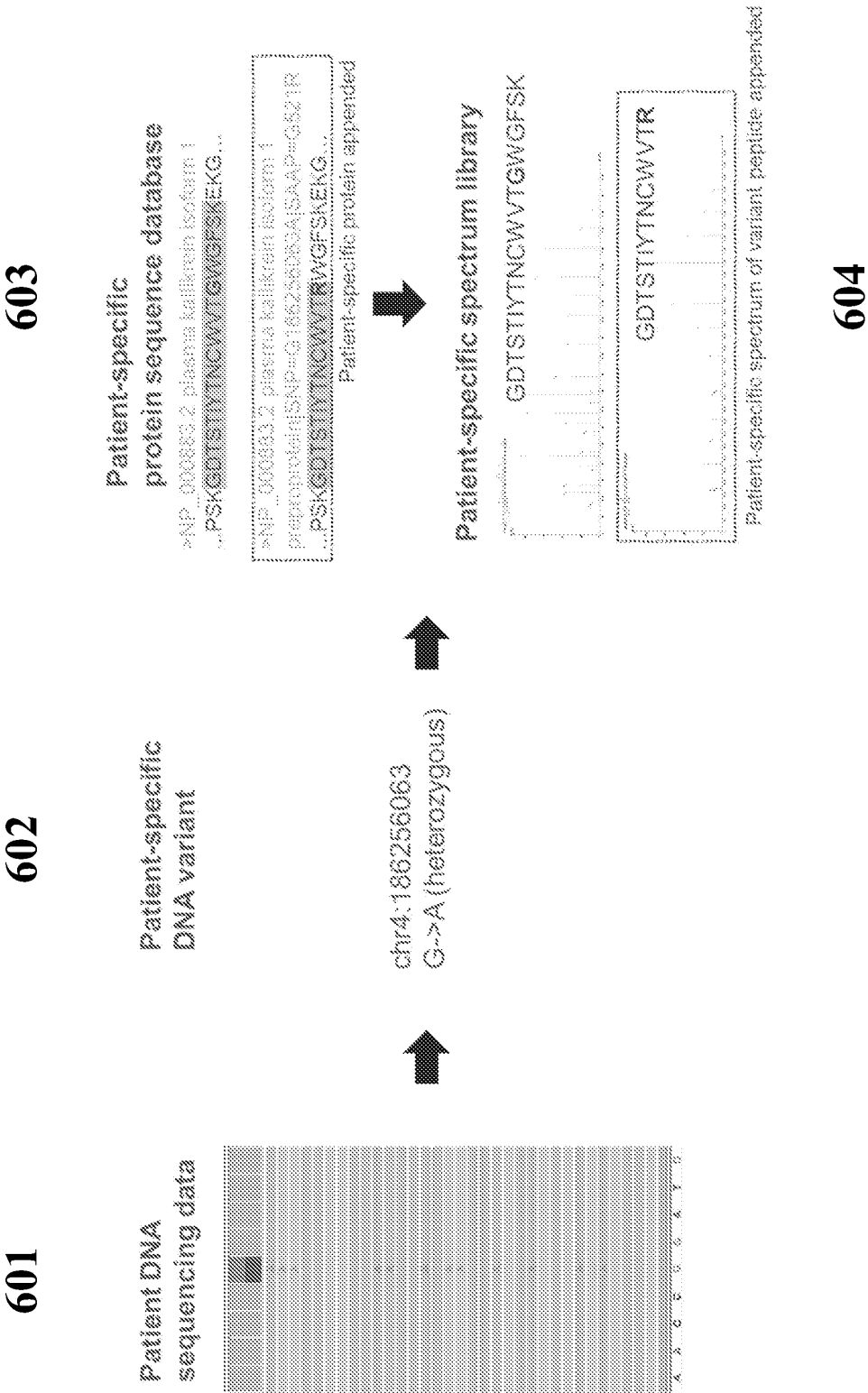


FIG. 6

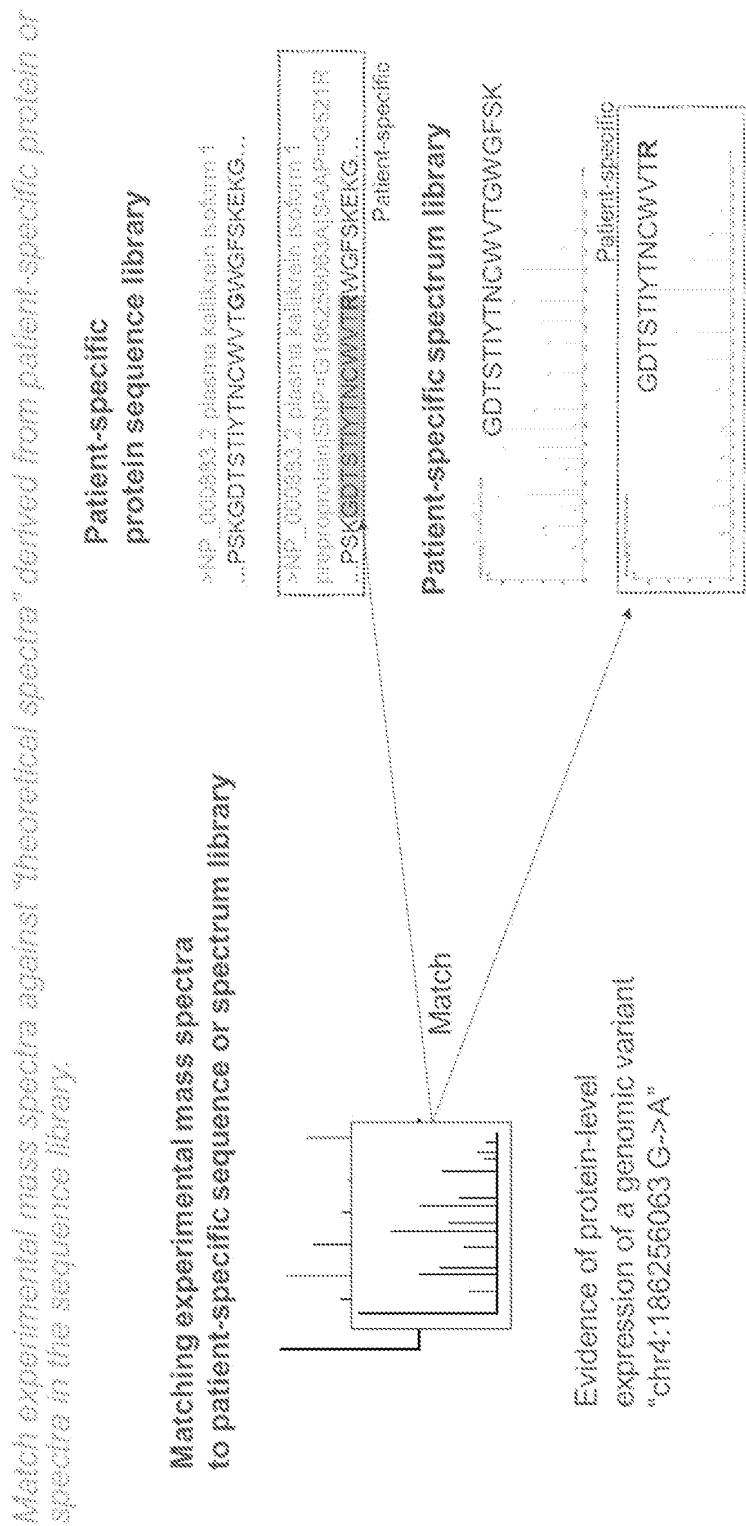


FIG. 7

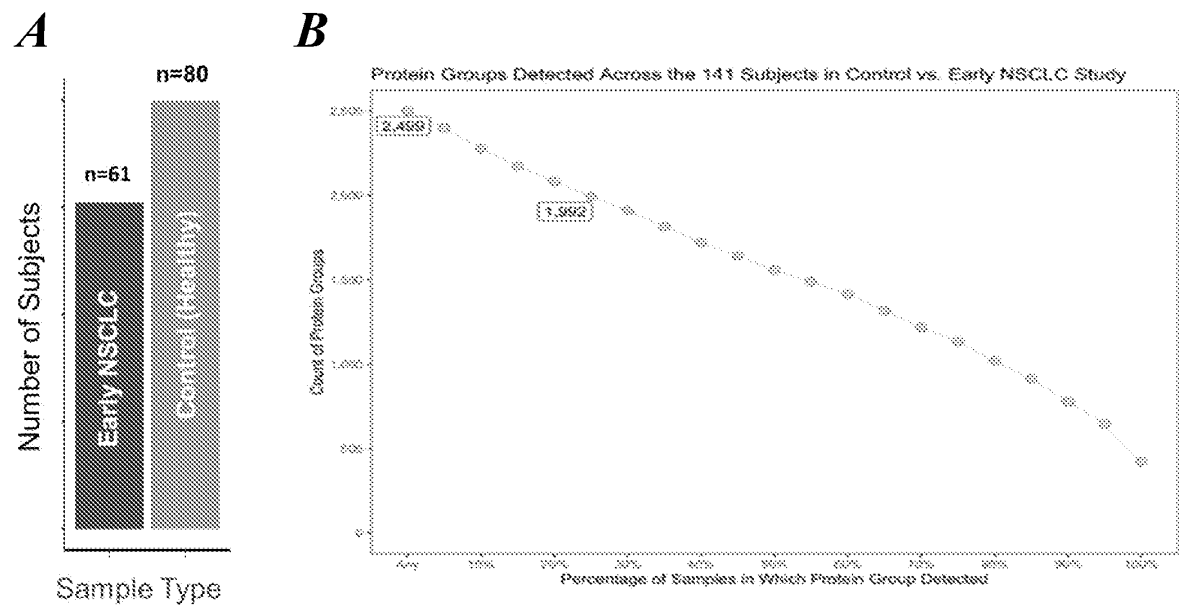
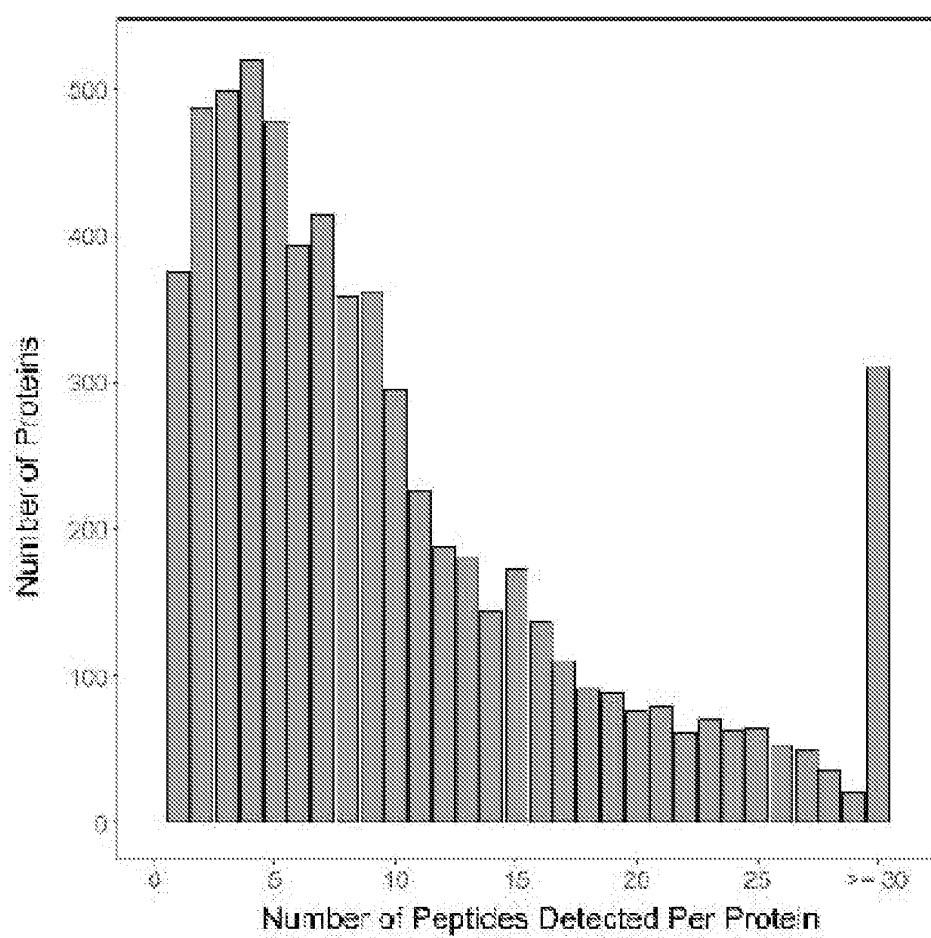


FIG. 8

**FIG. 9**

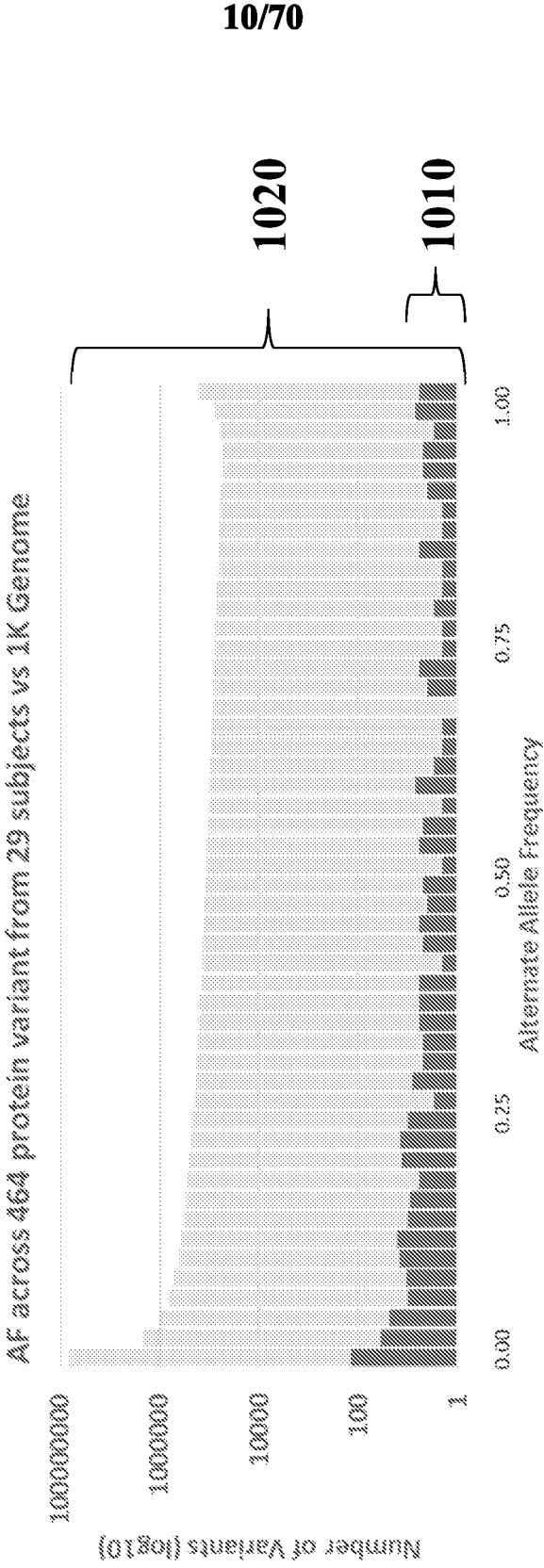


FIG. 10

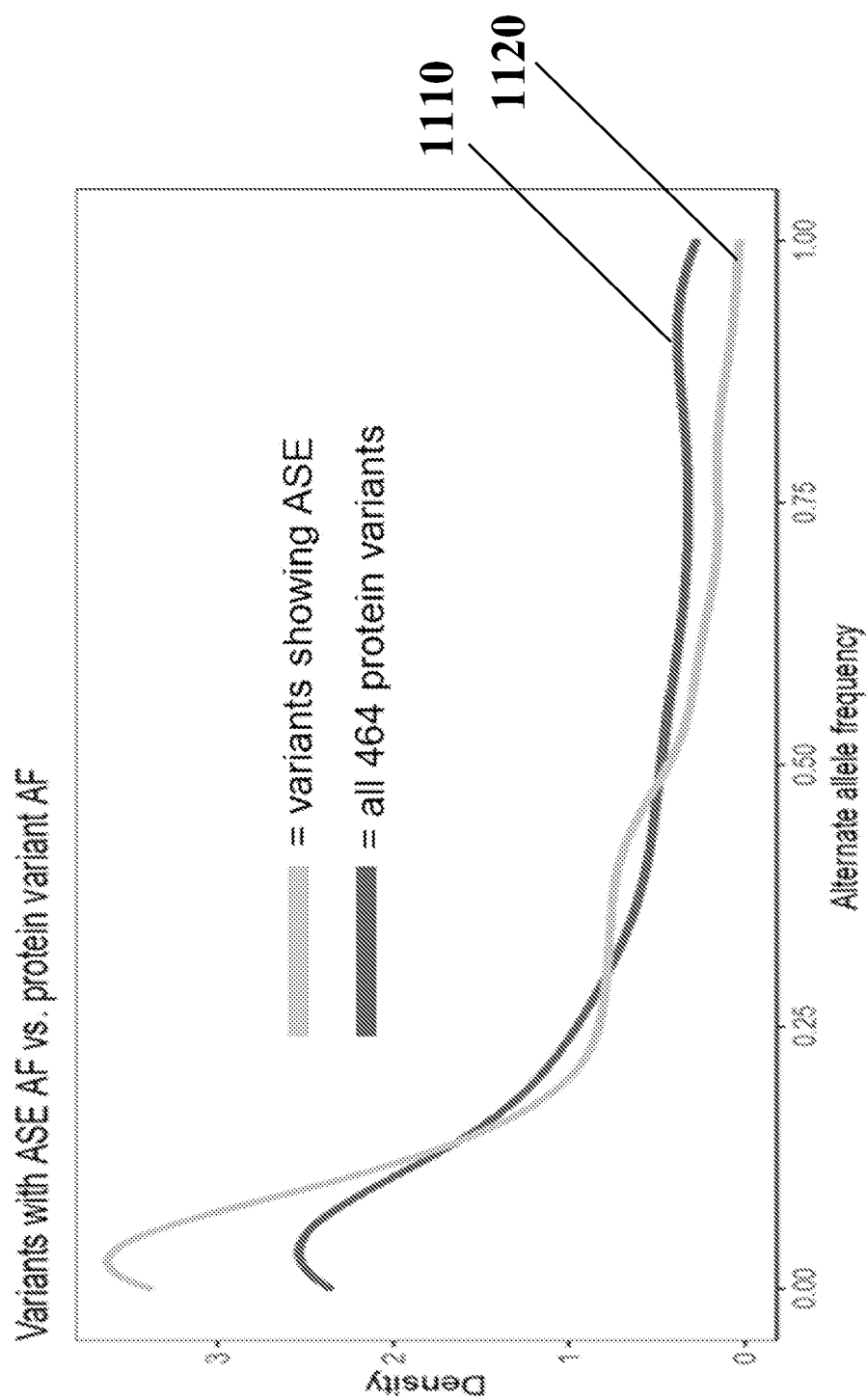


FIG. 11

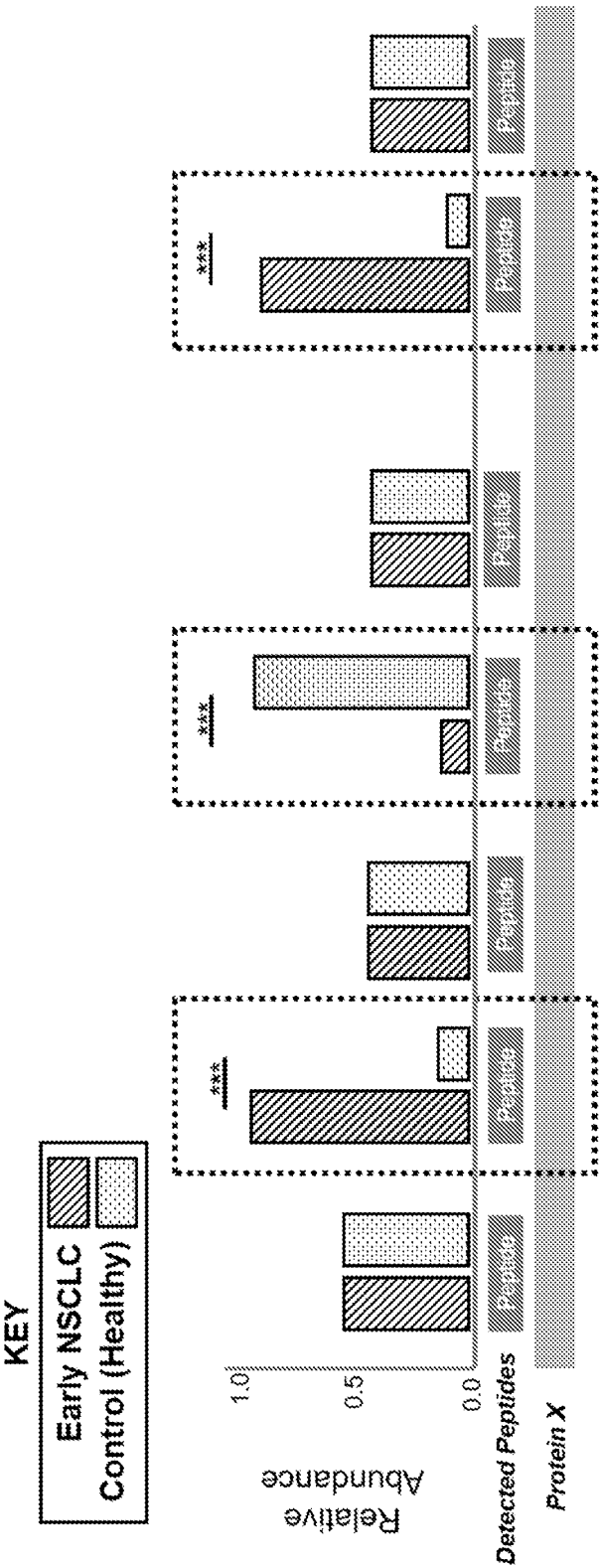


FIG. 12A

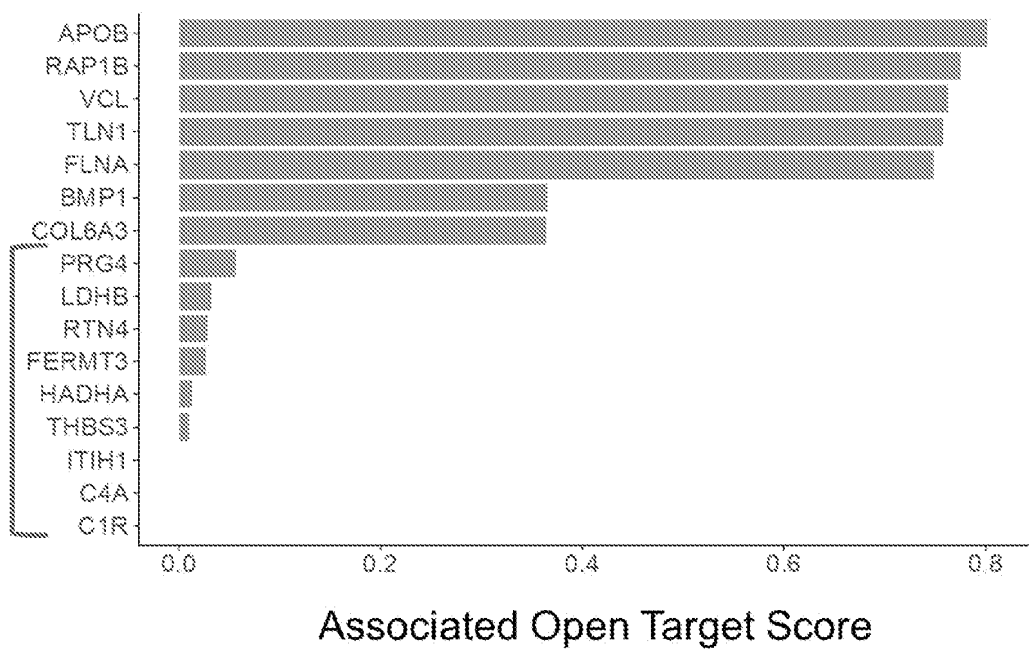


FIG. 12B

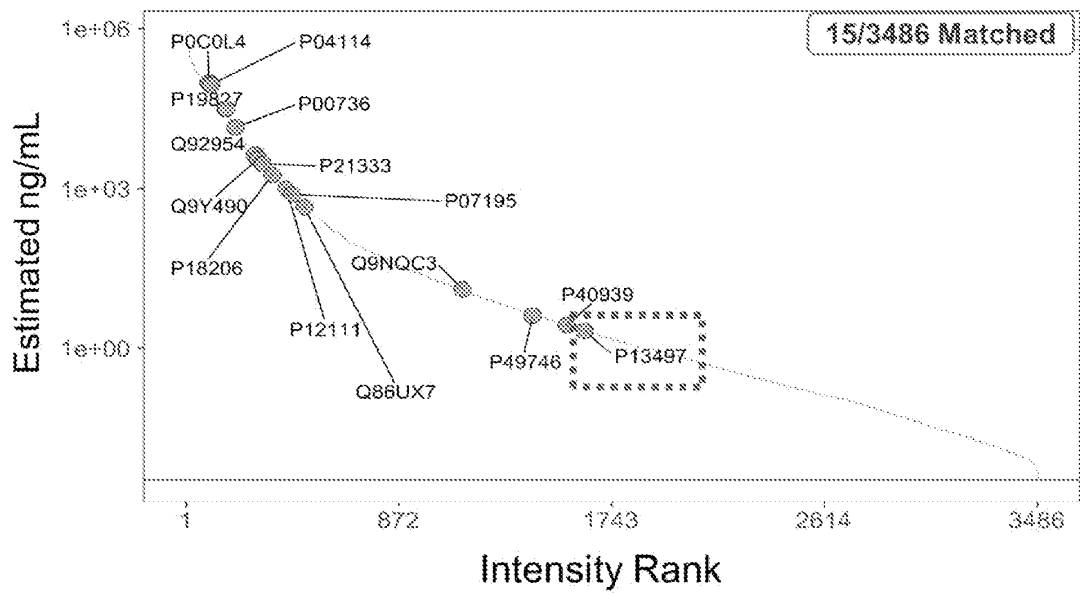


FIG. 12C

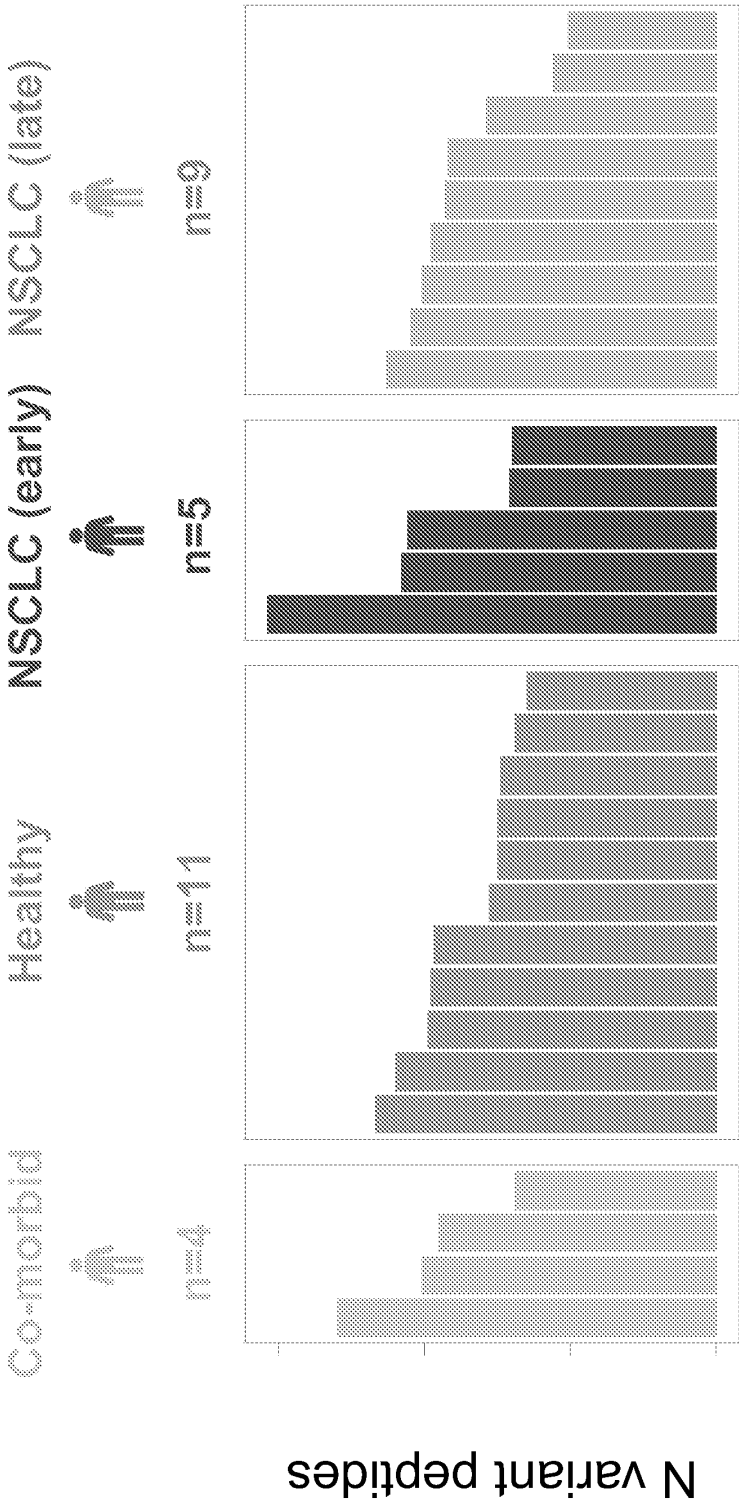


FIG. 13

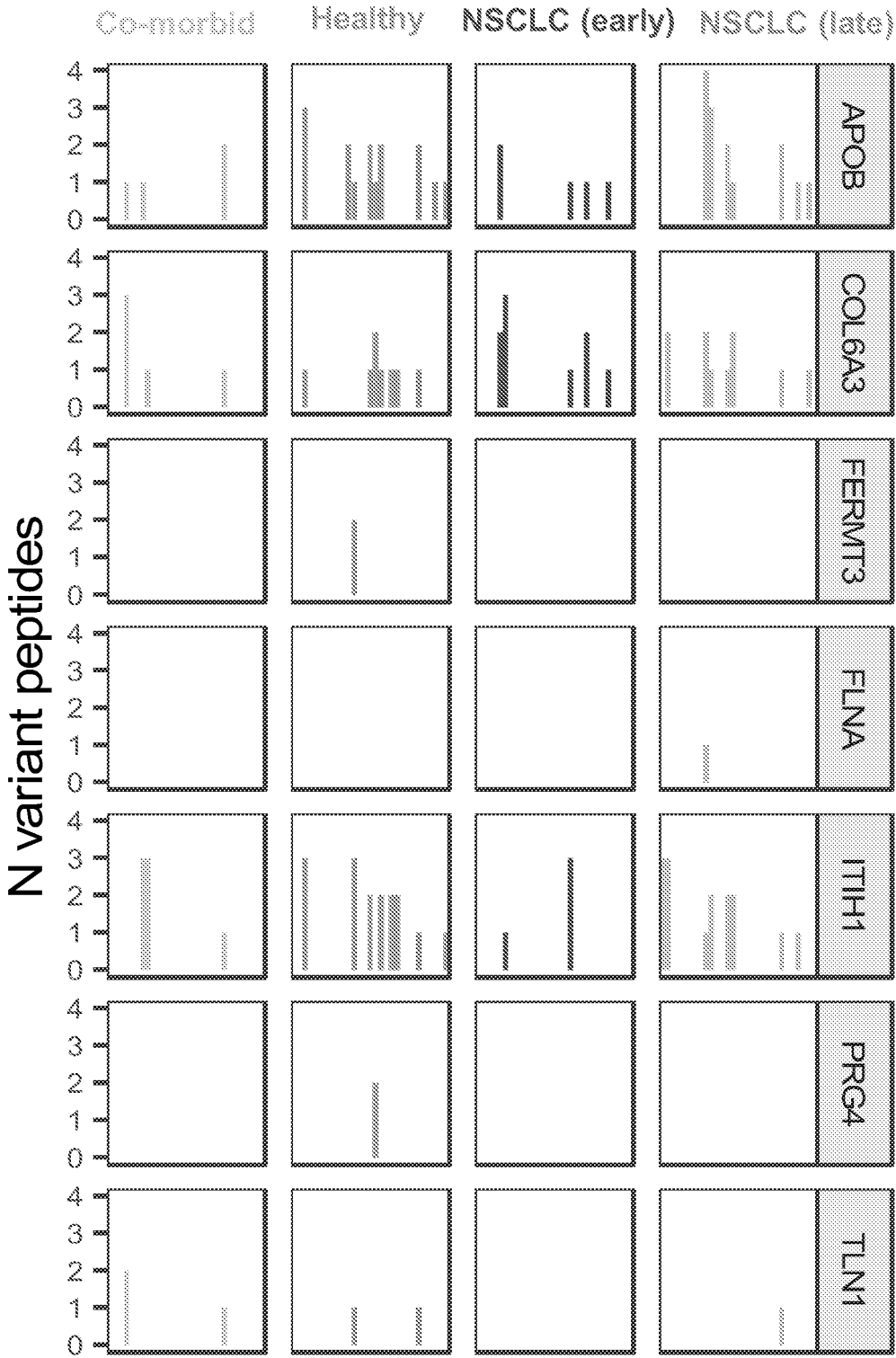


FIG. 14

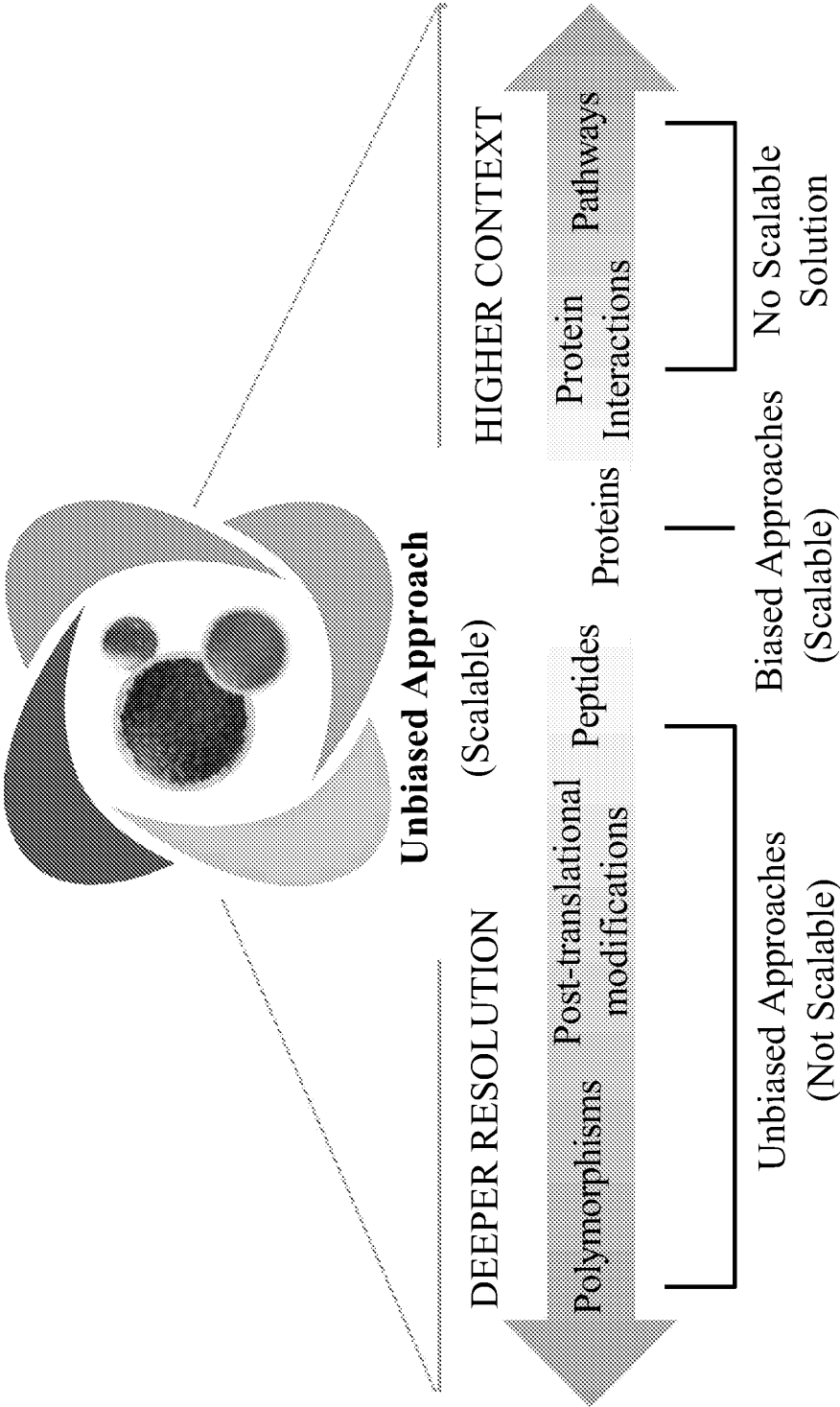
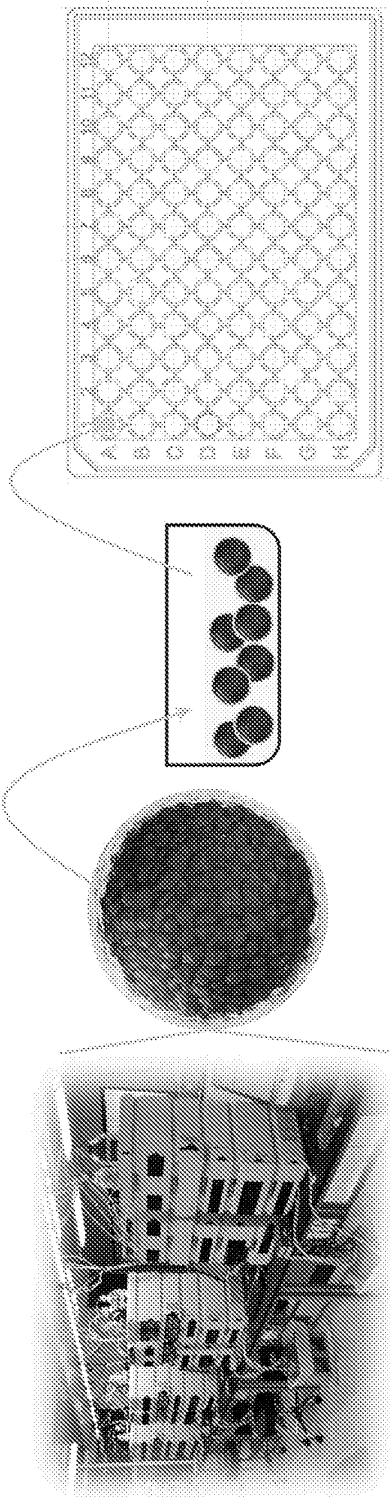


FIG. 15



Highly-complex, bespoke labs Nano-scale lab Parallel, configurable workflow

FIG. 16

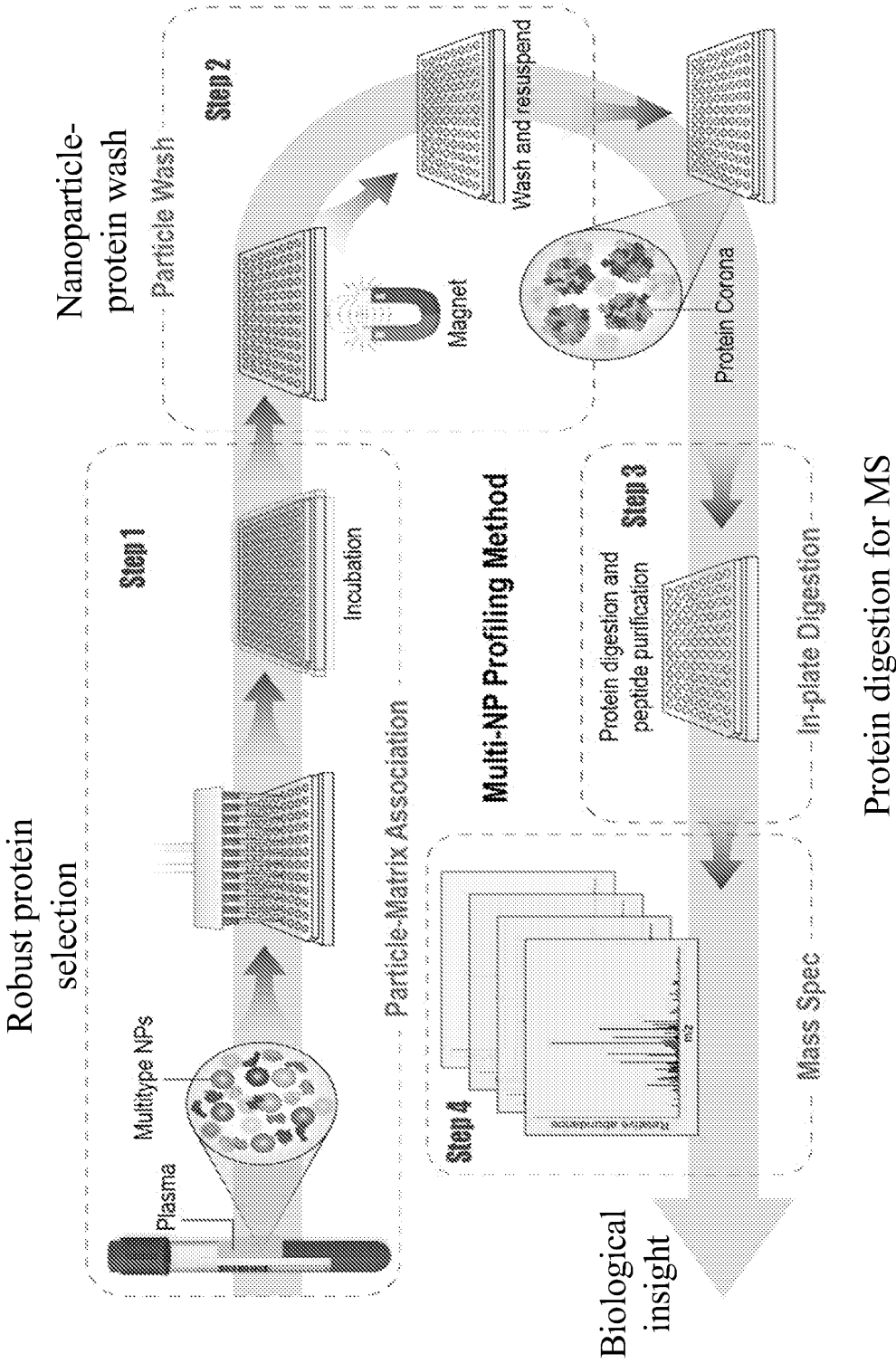


FIG. 17

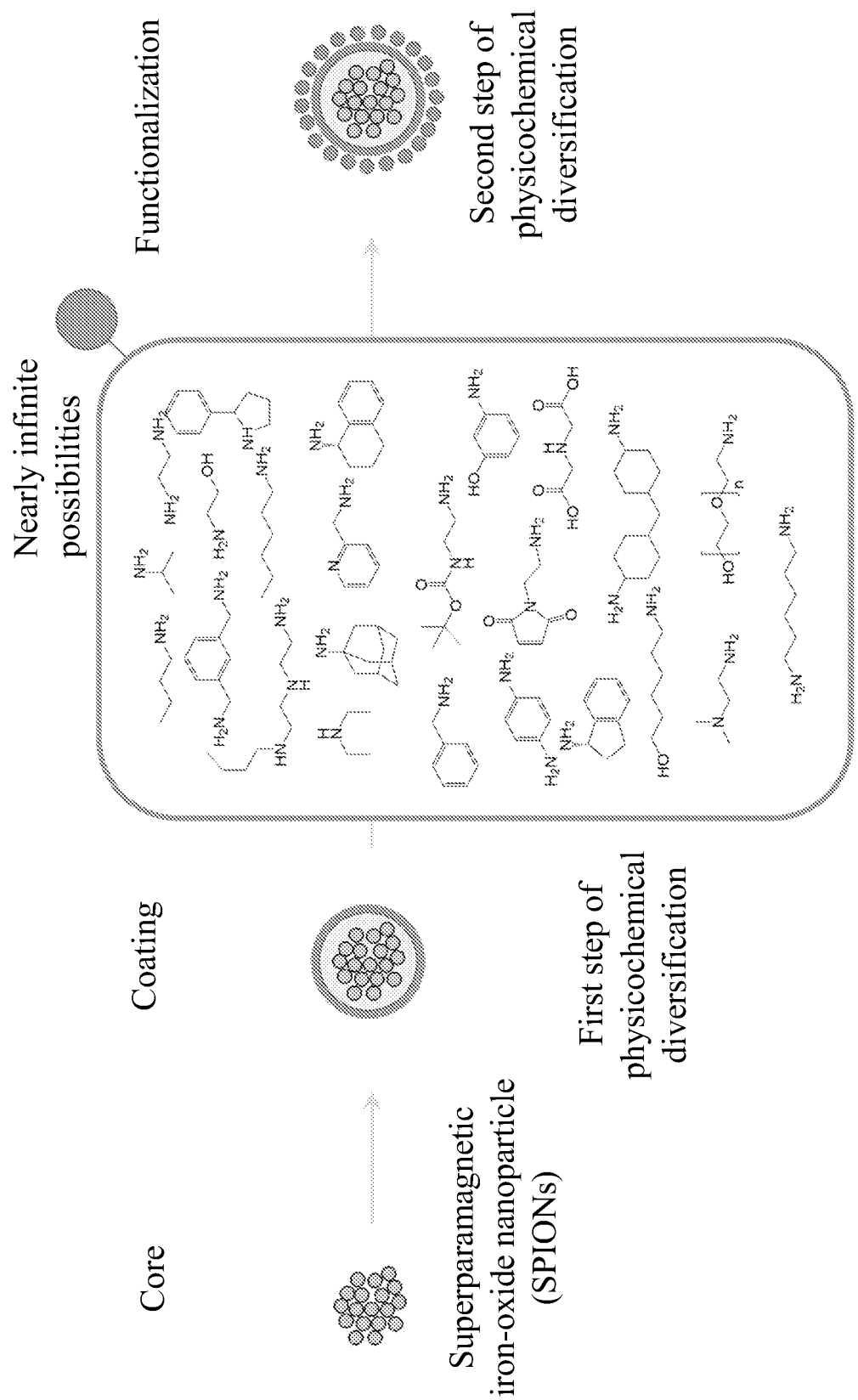


FIG. 18

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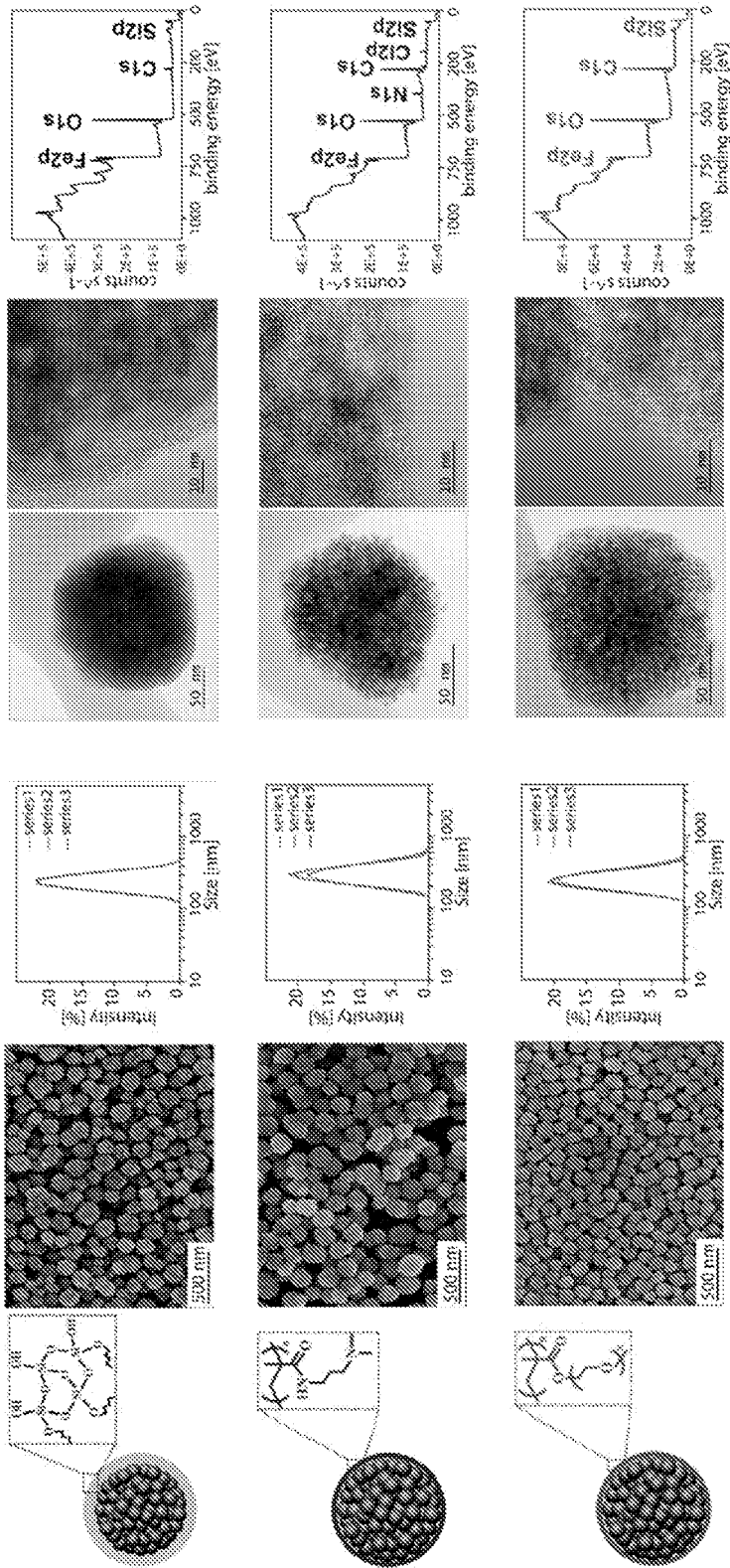


FIG. 19A

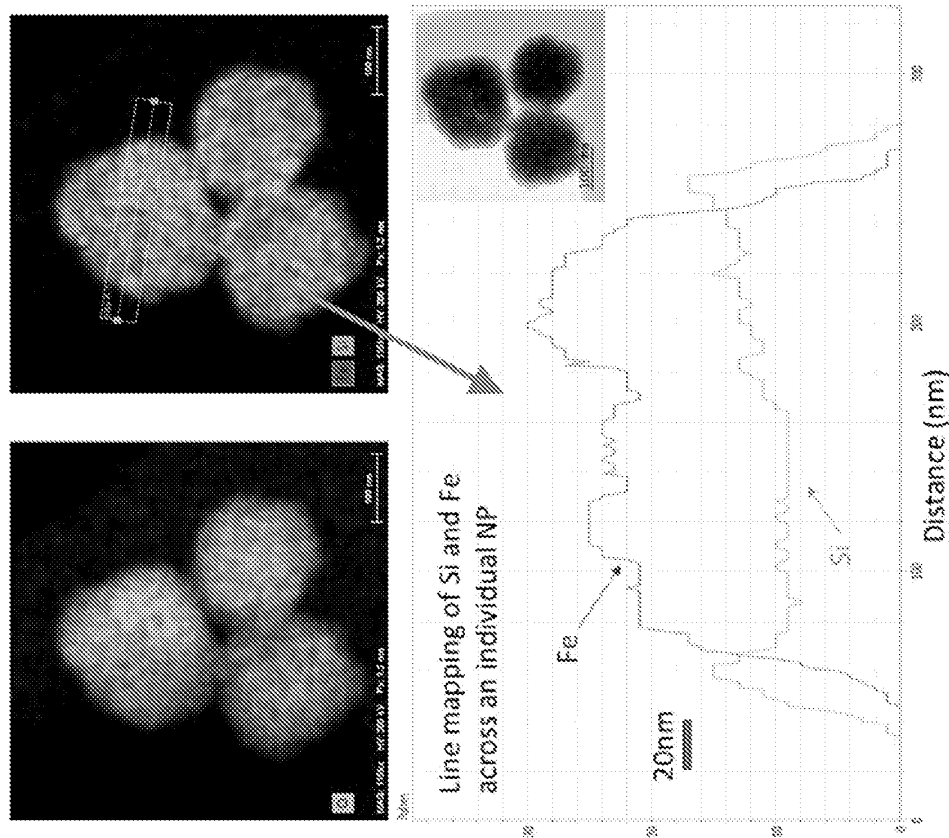


FIG. 19B

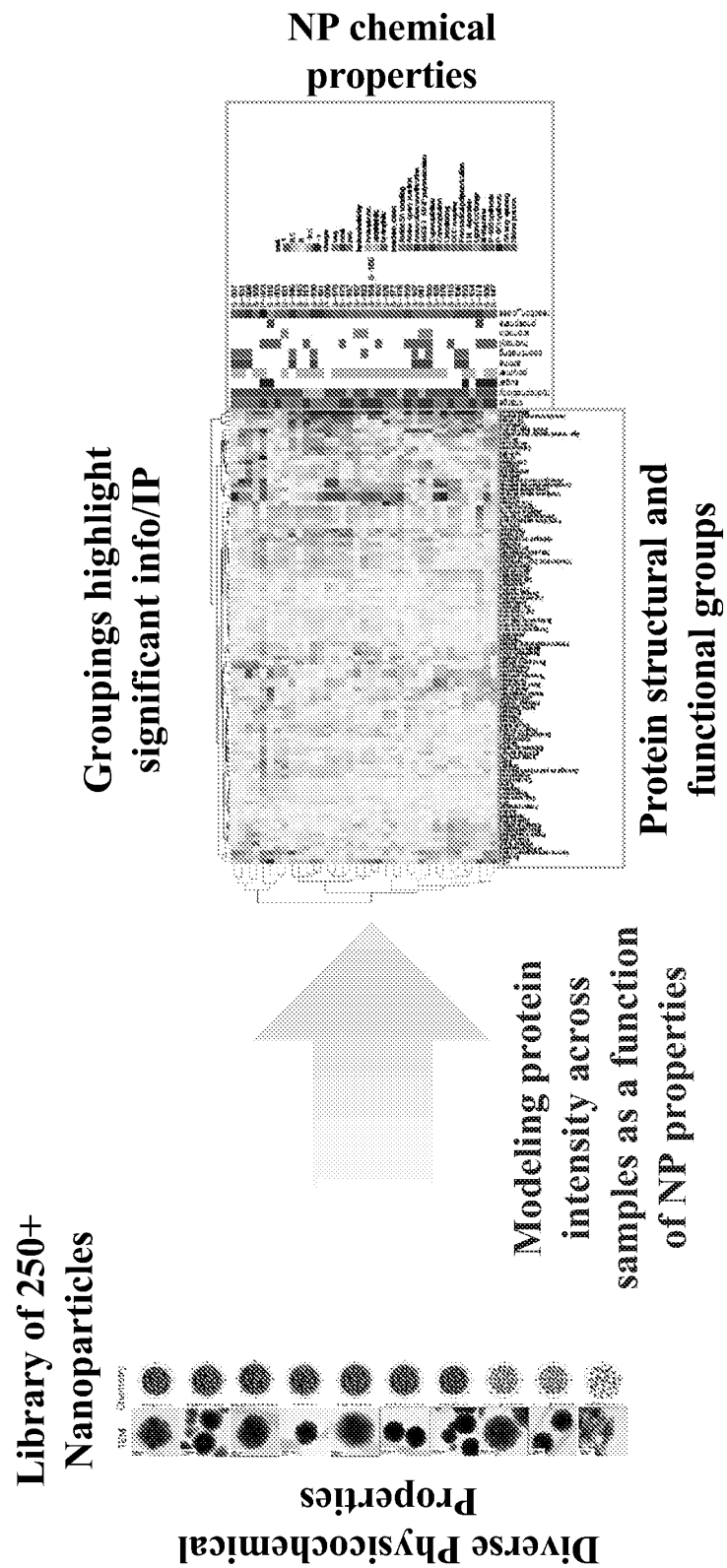
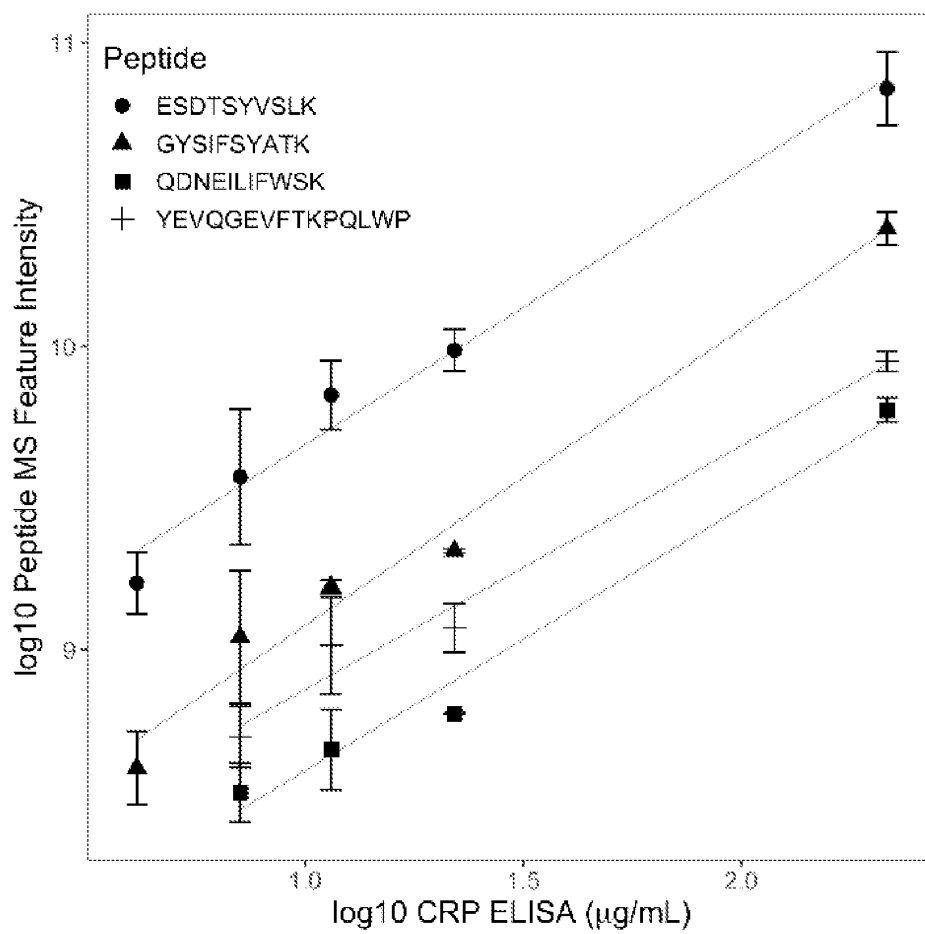
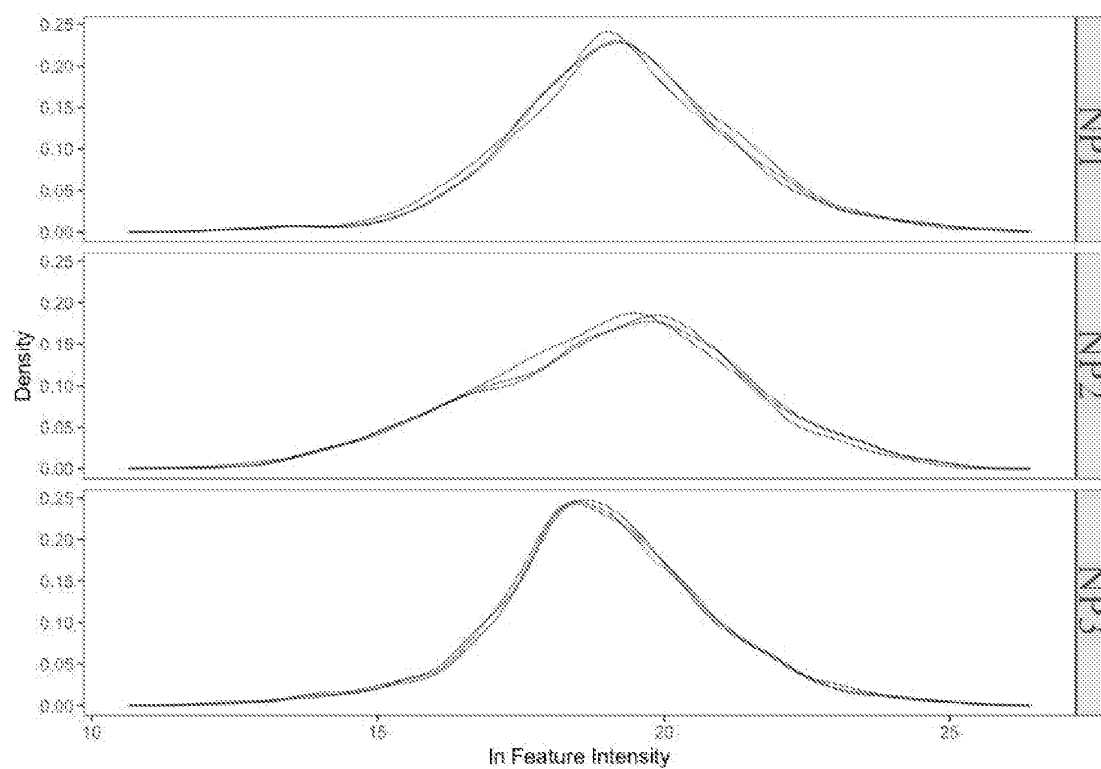




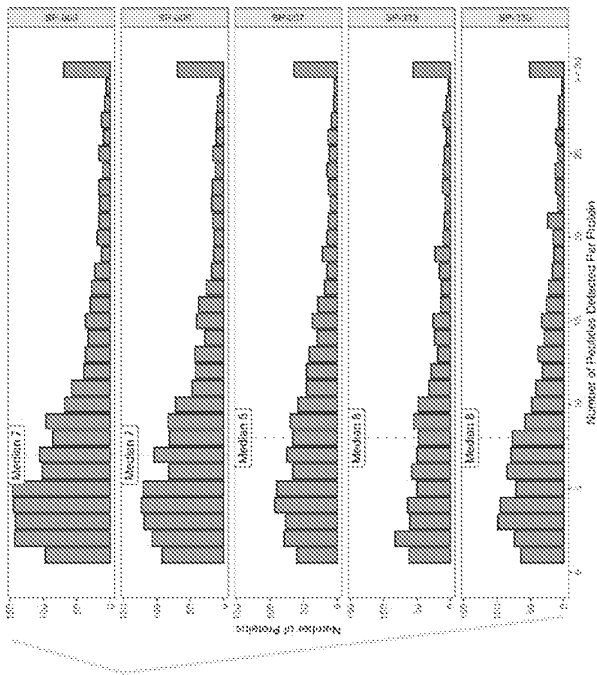
FIG. 21

**FIG. 22**

**FIG. 23A**

Nanoparticle	CV%
NP1	19.6
NP2	30.3
NP3	17
<i>Mean</i>	22

FIG. 23B



Through
many
peptides

See many
Isoforms

One
Protein?

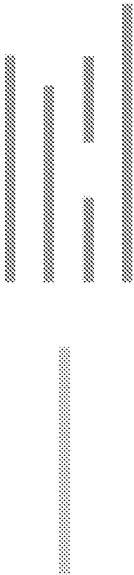


FIG. 24

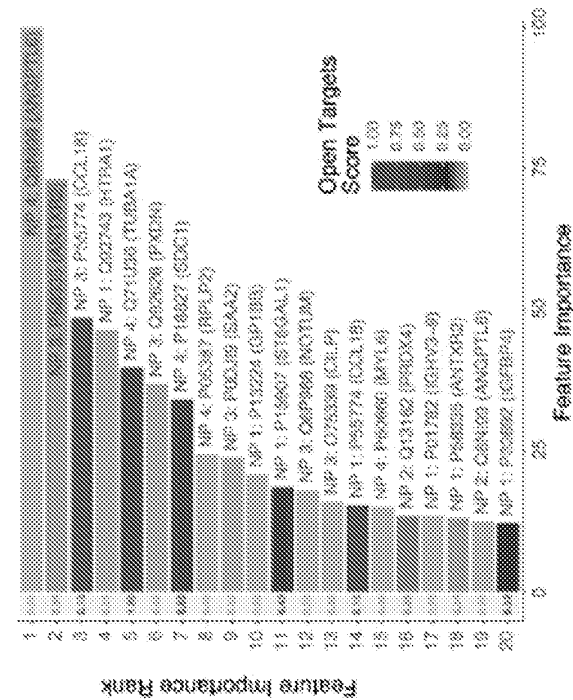


FIG. 25B

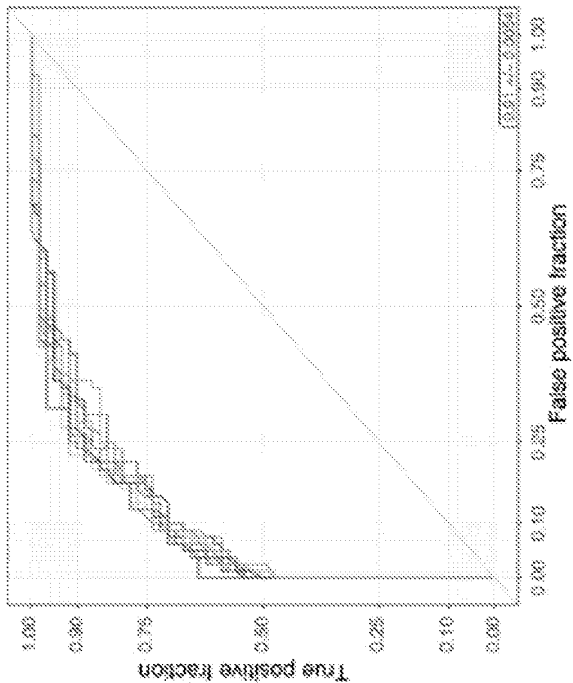
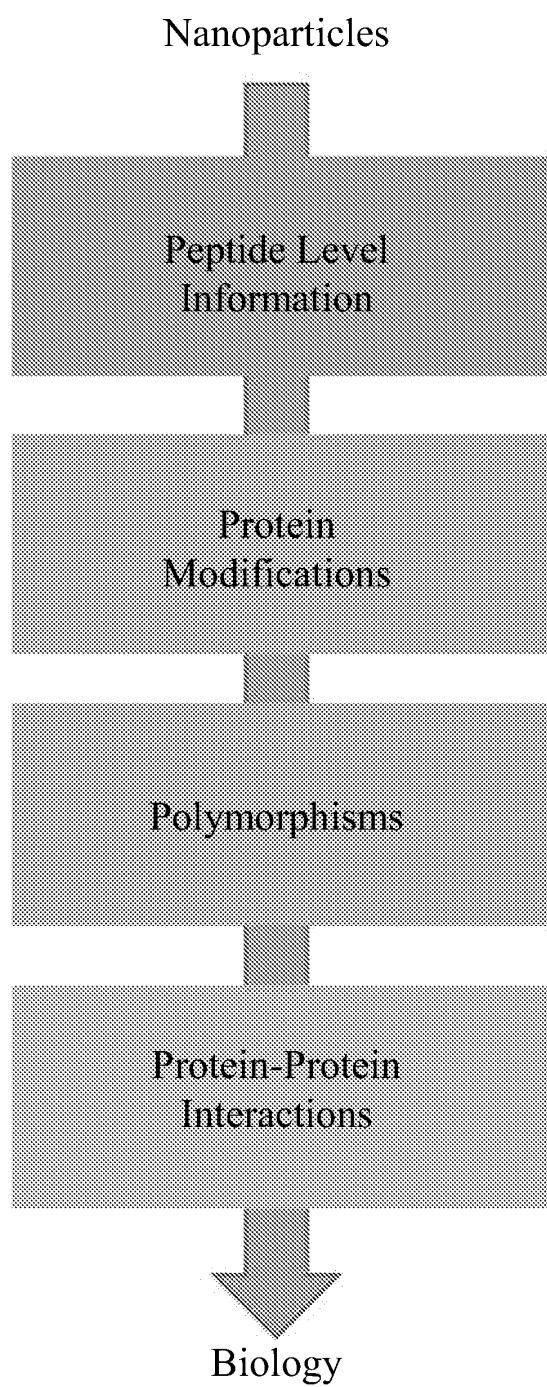


FIG. 25A

**FIG. 26**

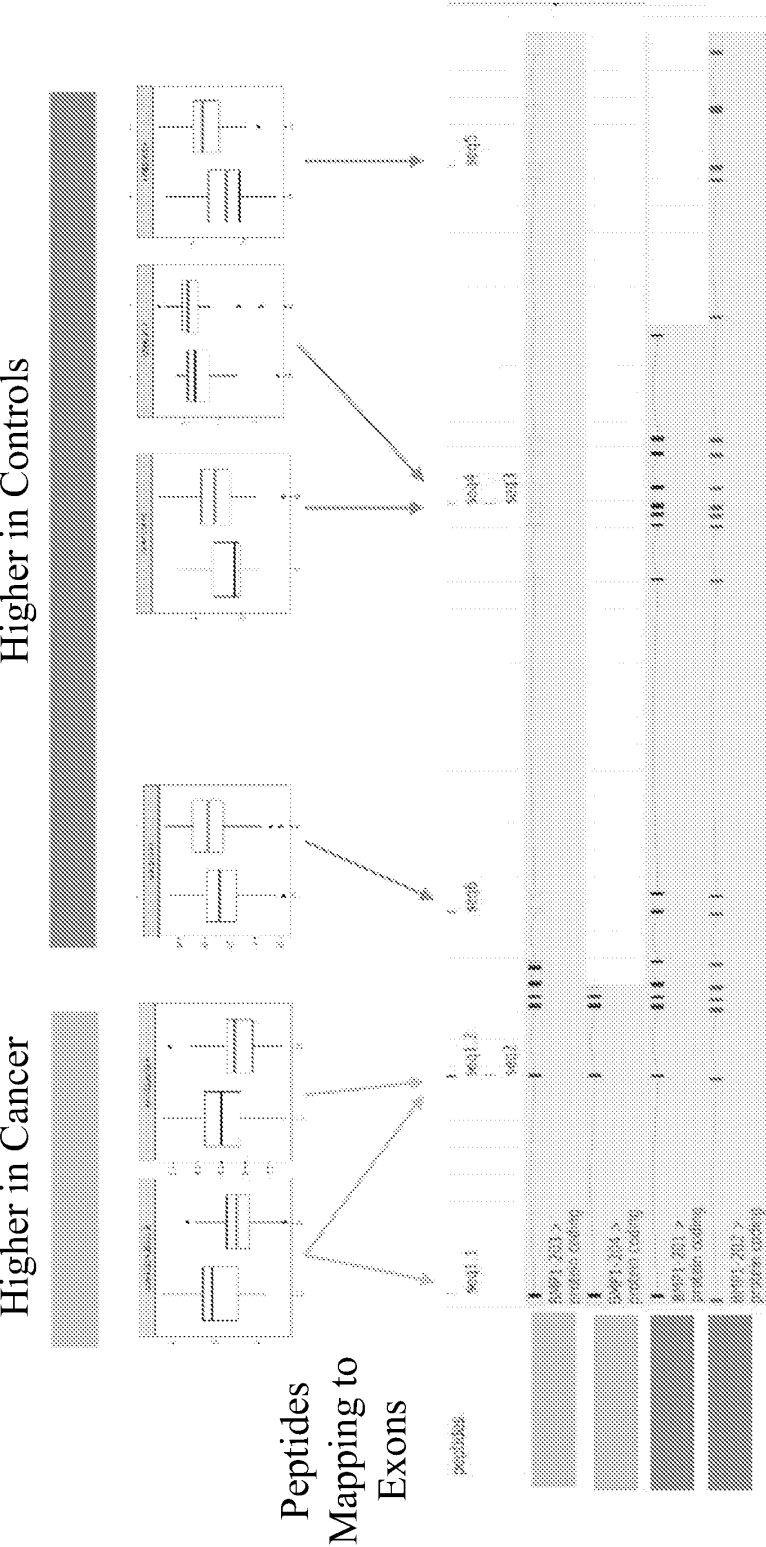


FIG. 27

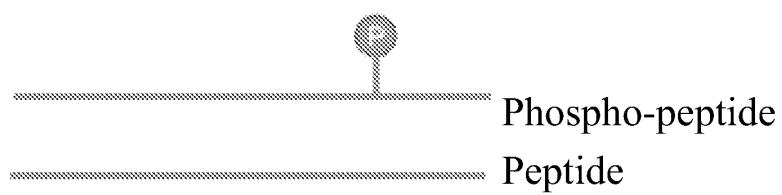


FIG. 28

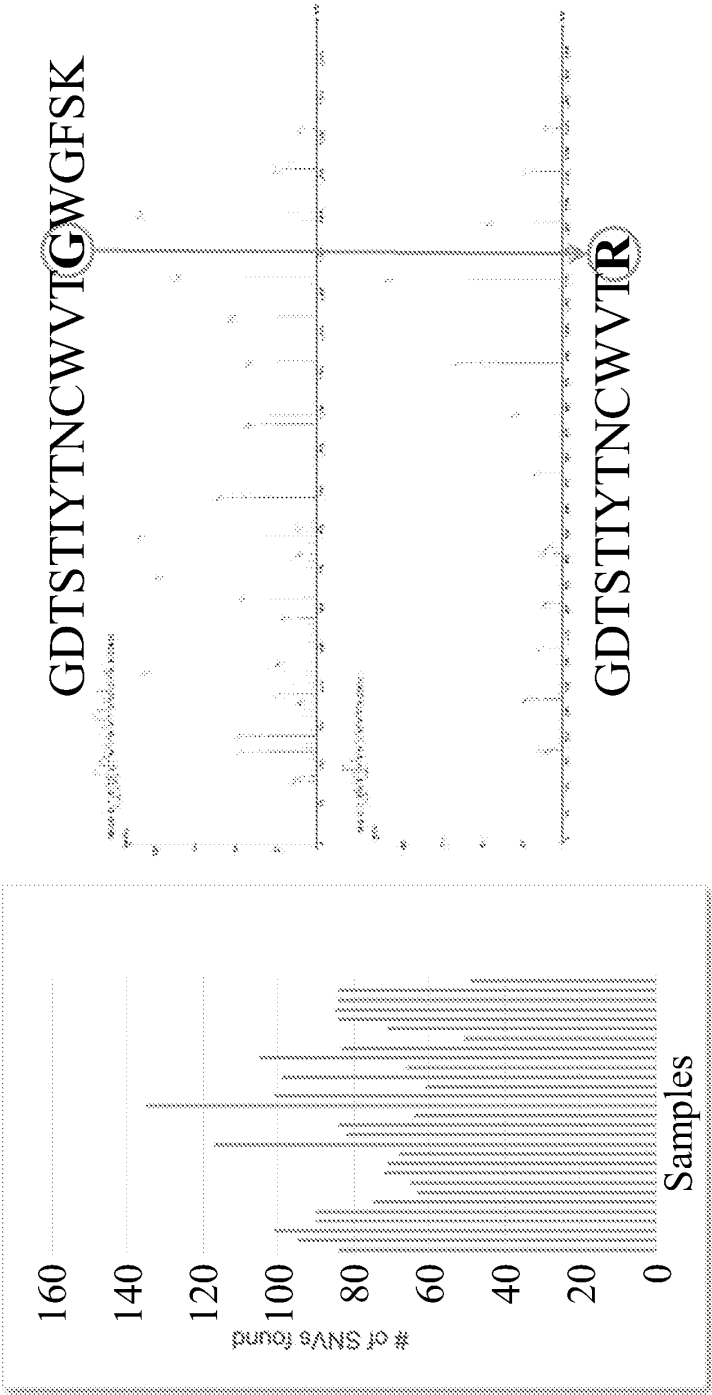


FIG. 29

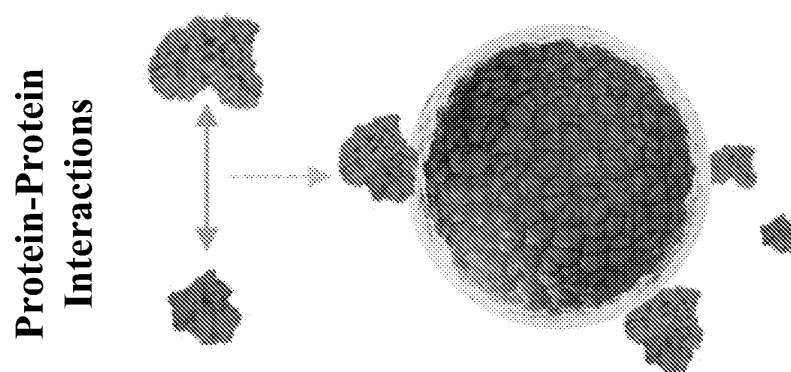


FIG. 30

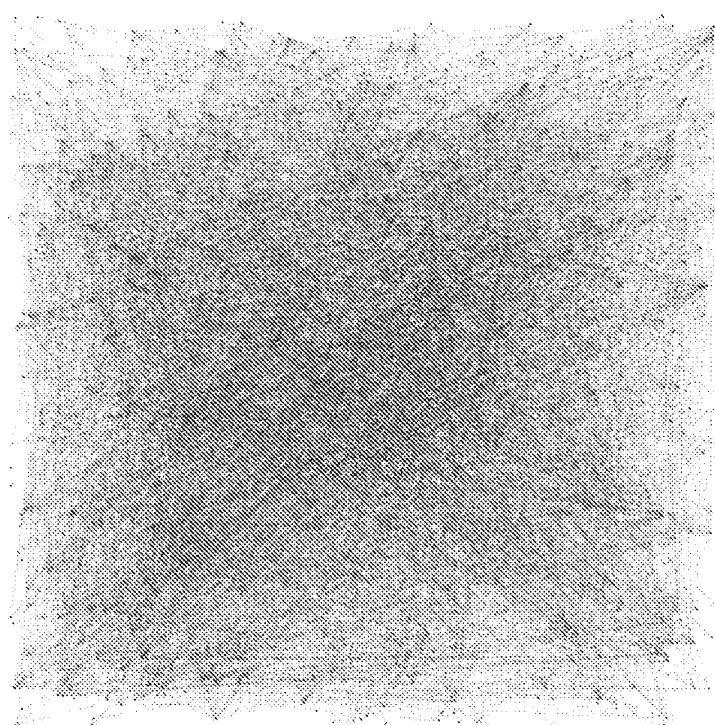


FIG. 31

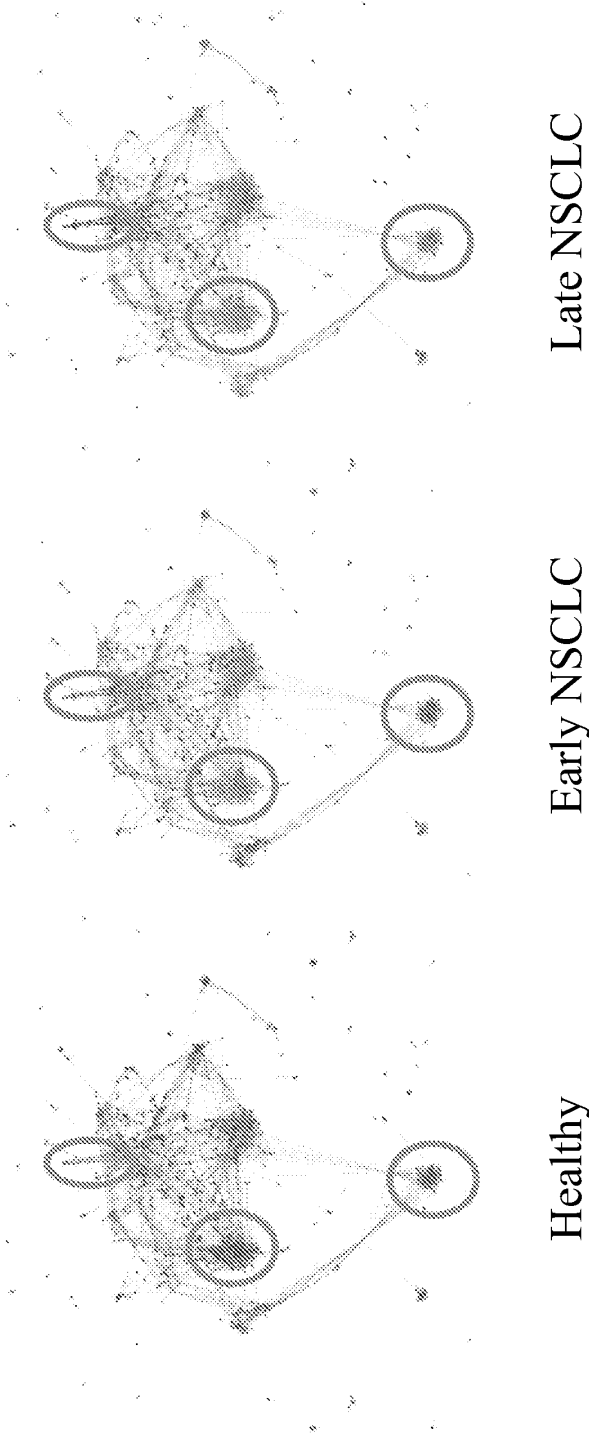
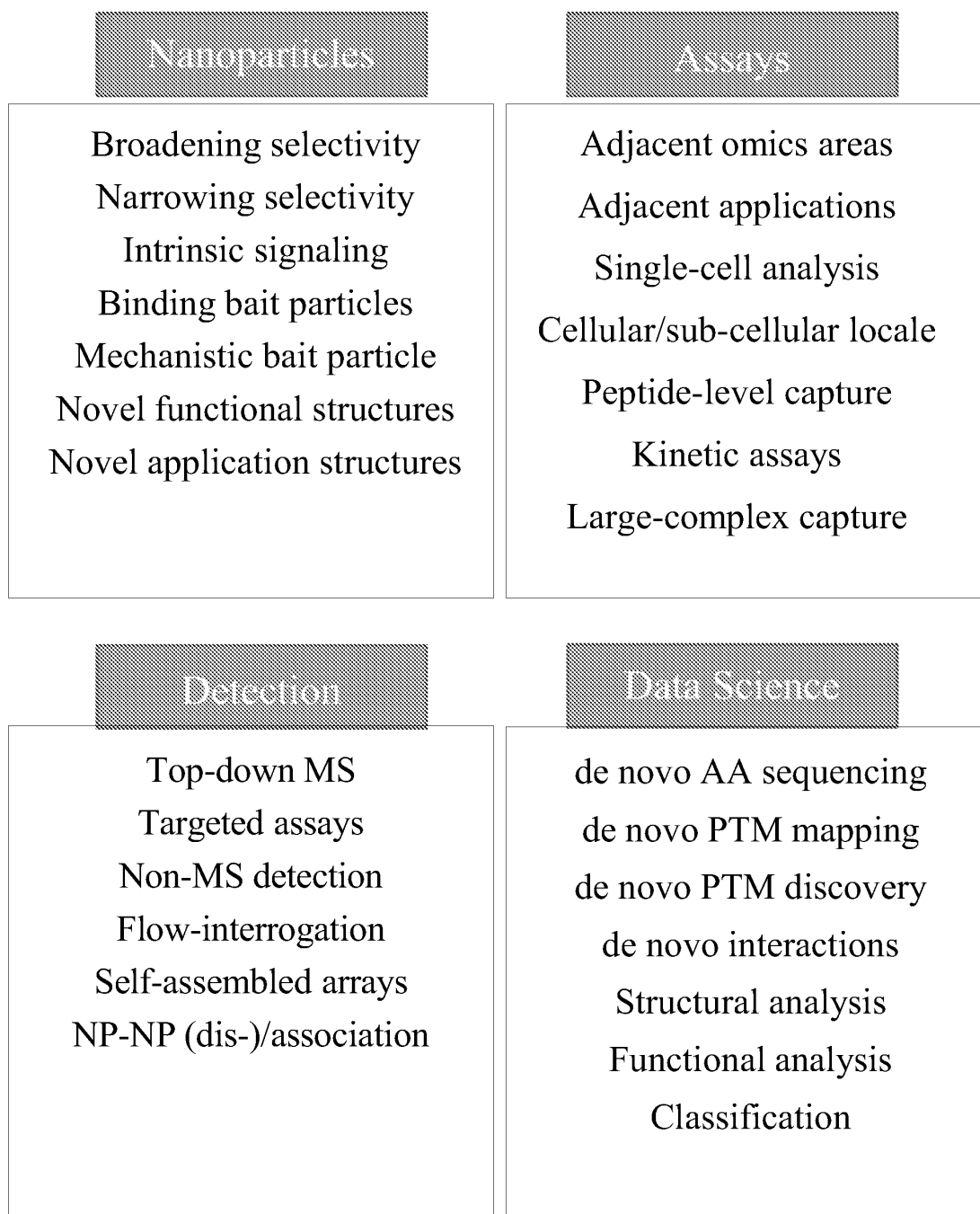


FIG. 32

**FIG. 33**

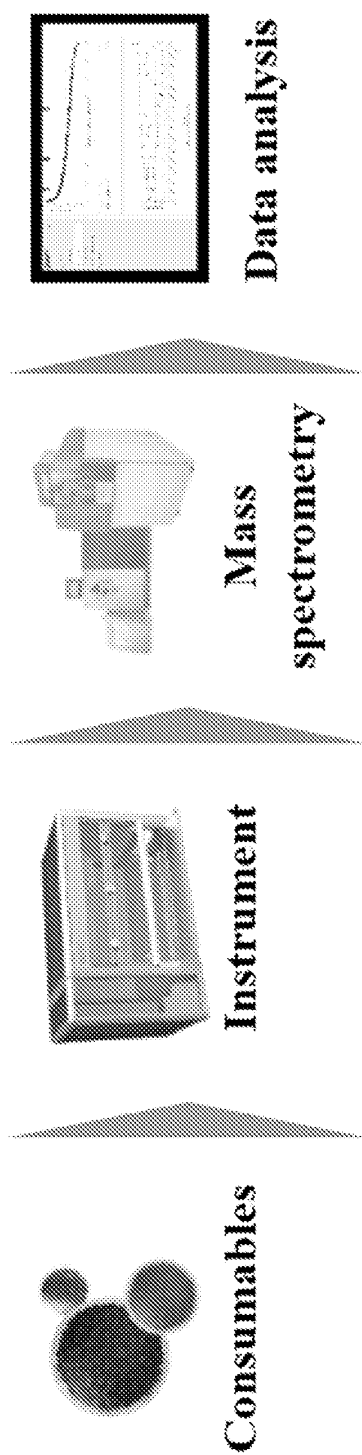


FIG. 34

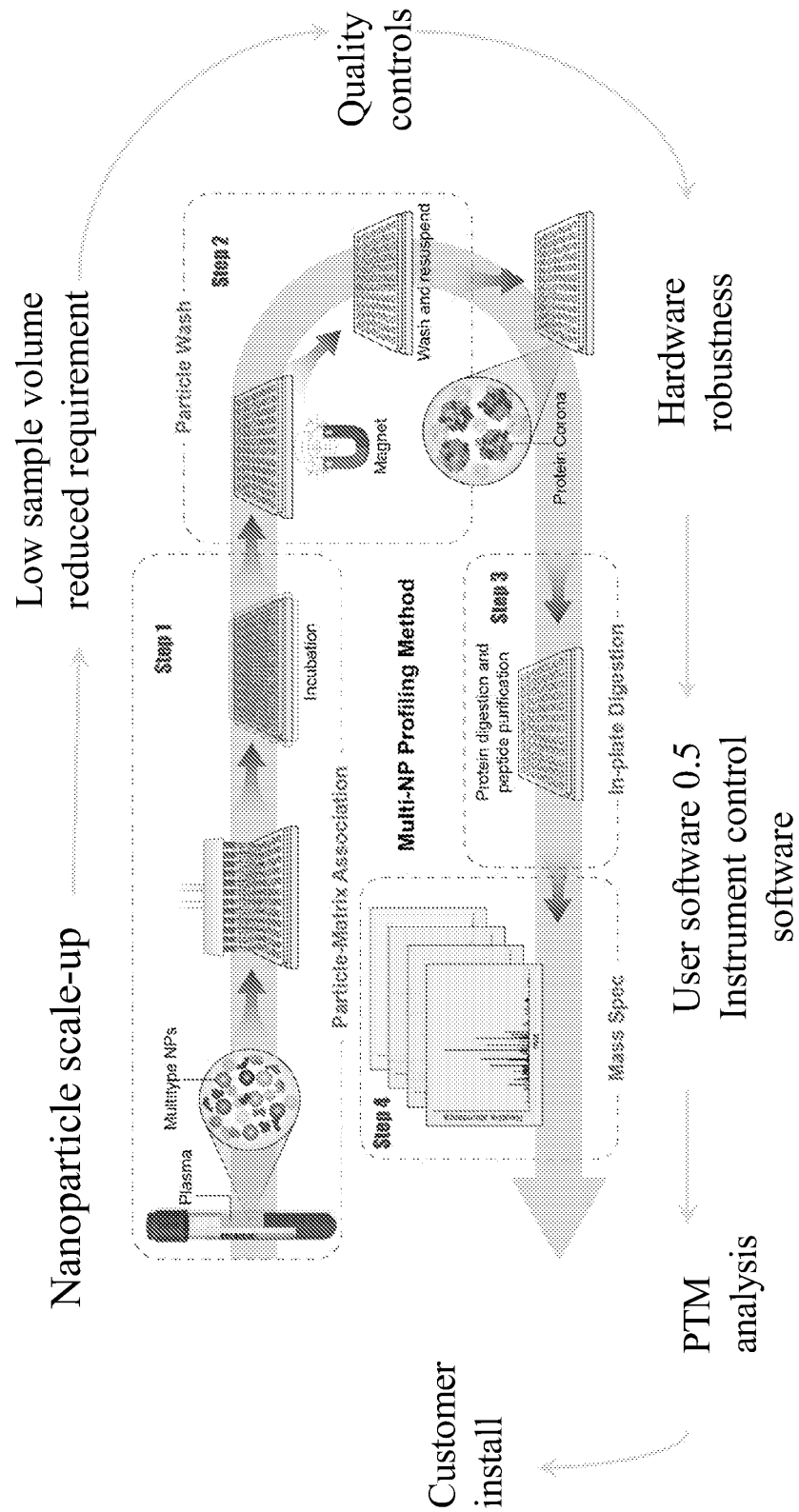


FIG. 35

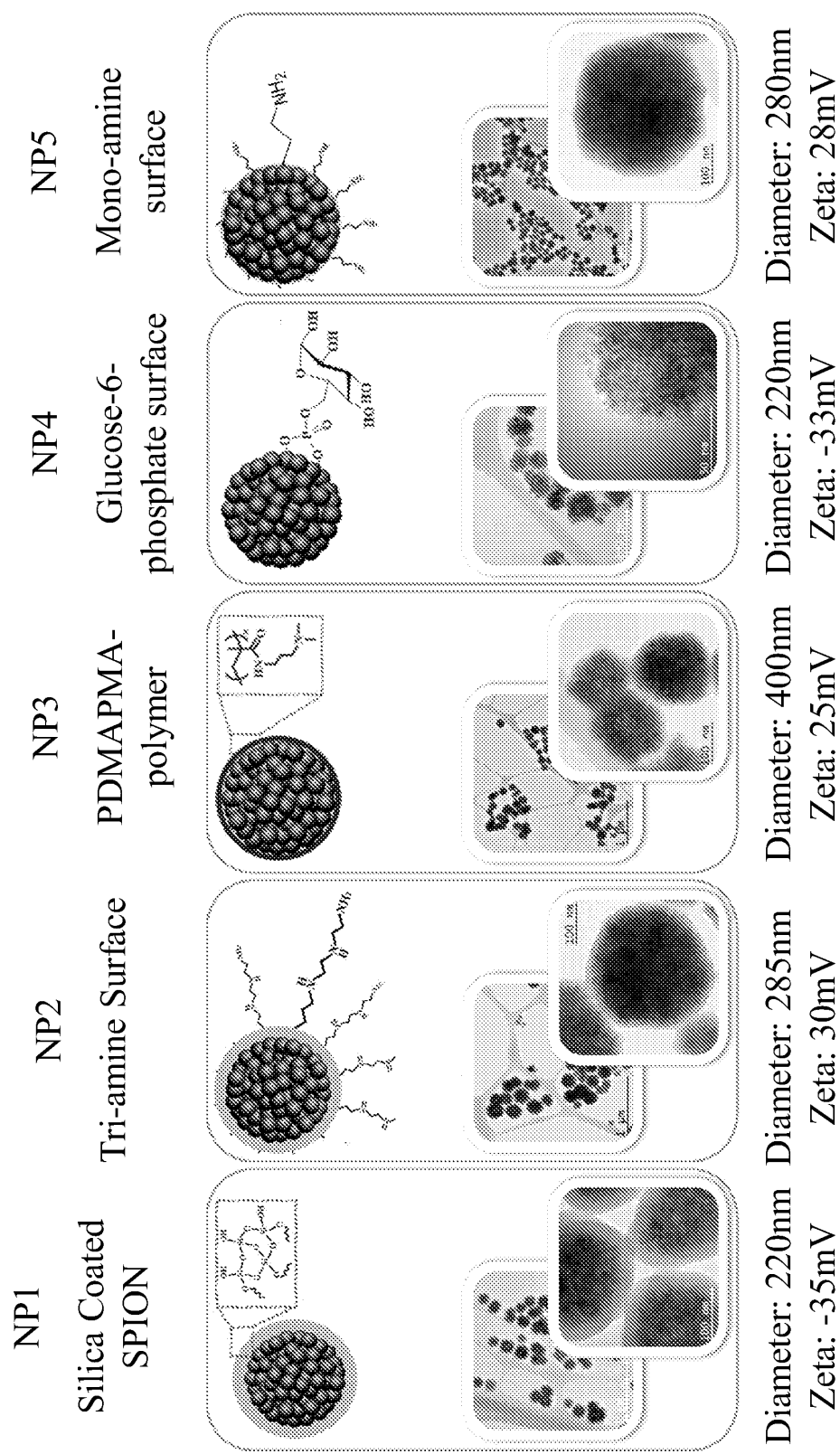


FIG. 36

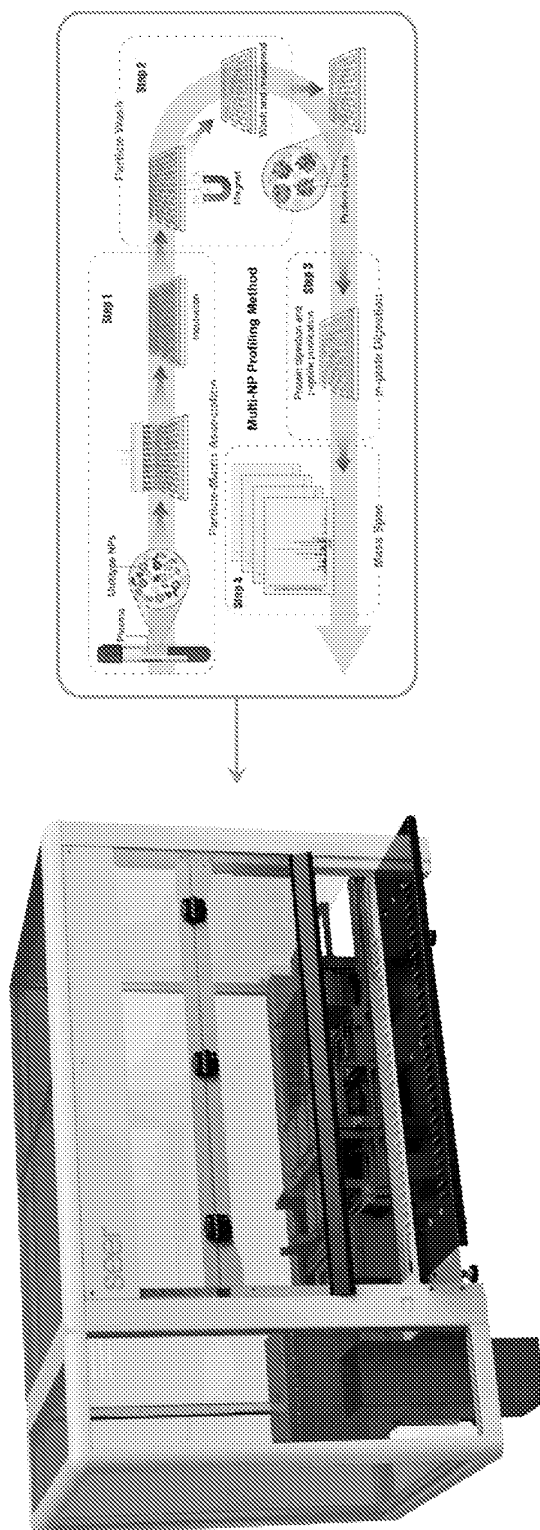


FIG. 37

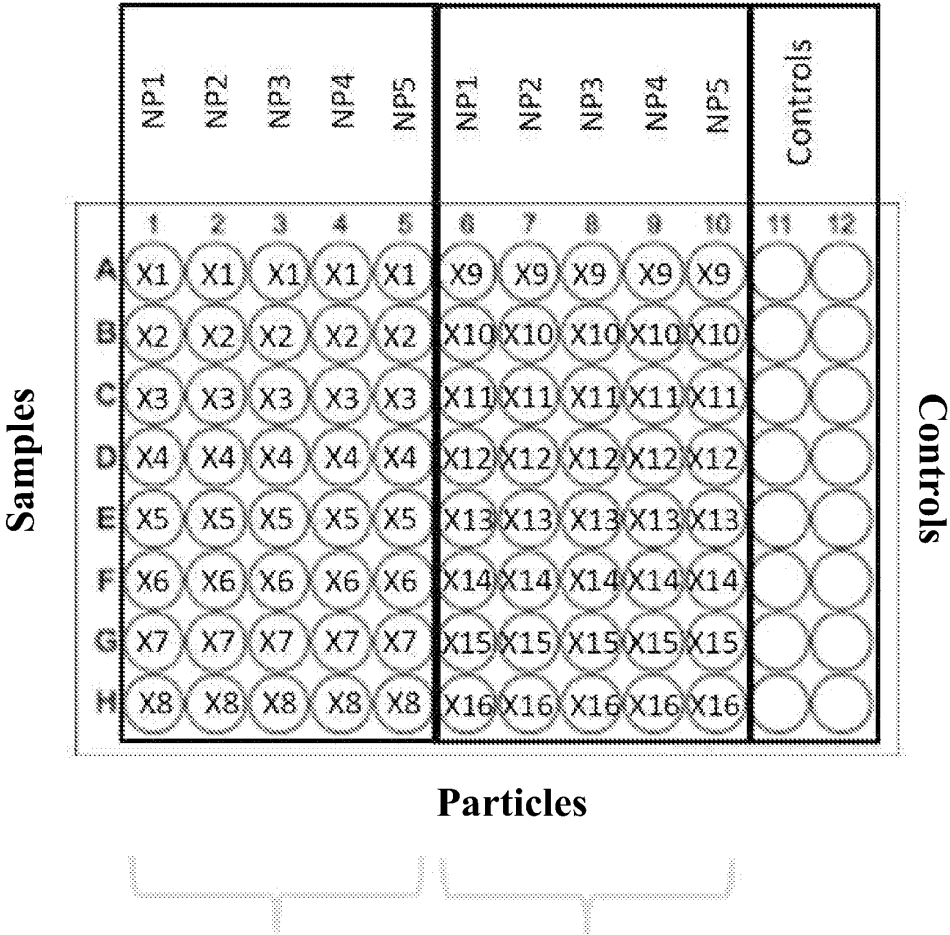
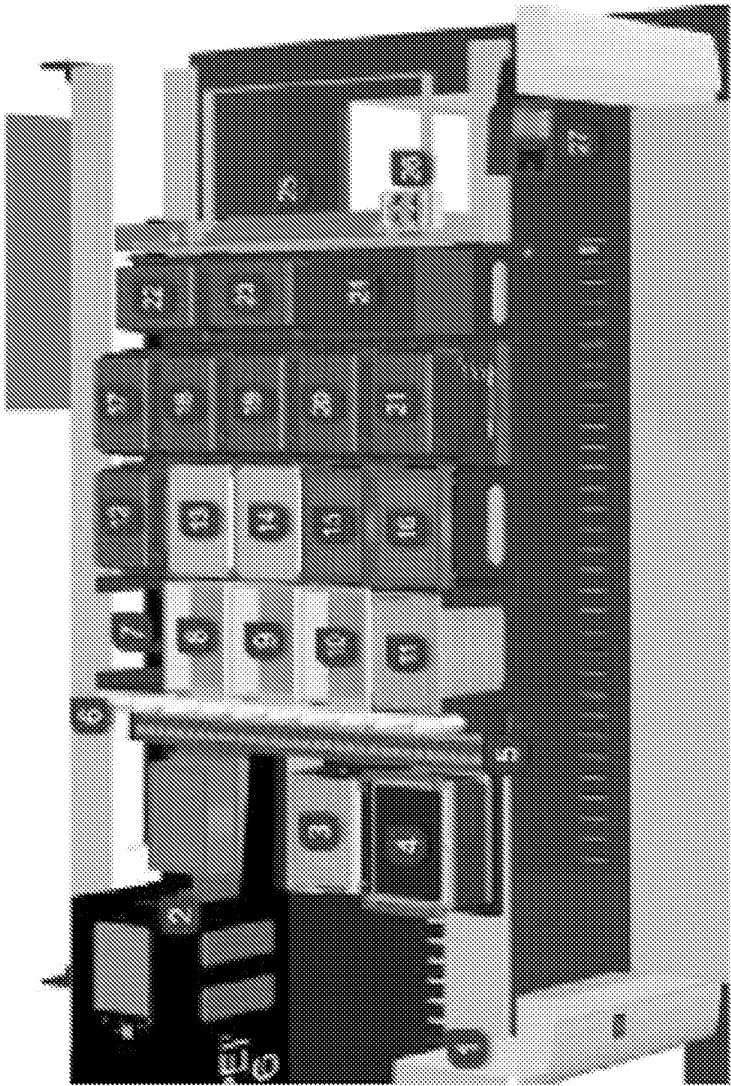


FIG. 38



Major components
MPE filter
Chill plate
Heater

FIG. 39

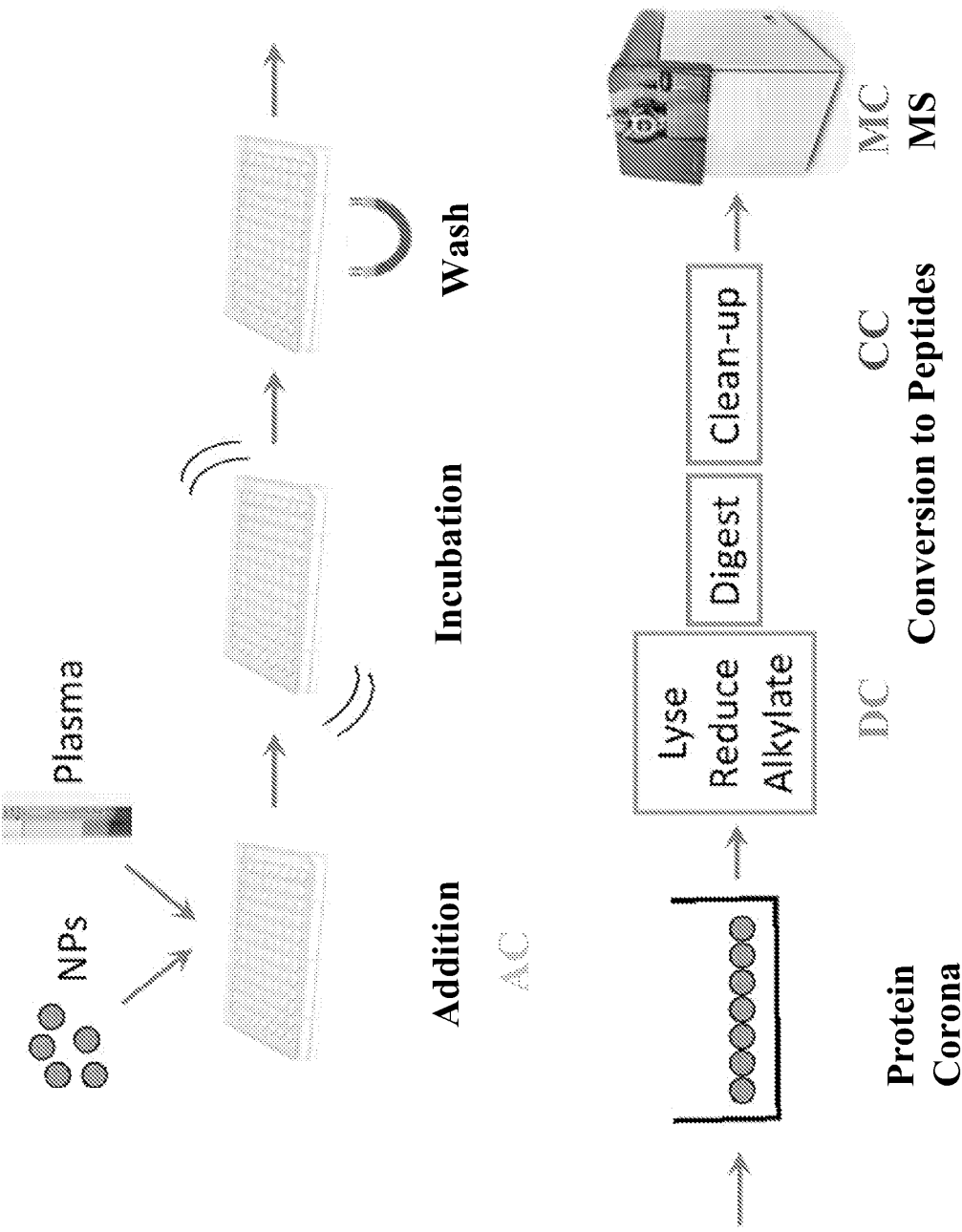


FIG. 40

Layout of controls on plate

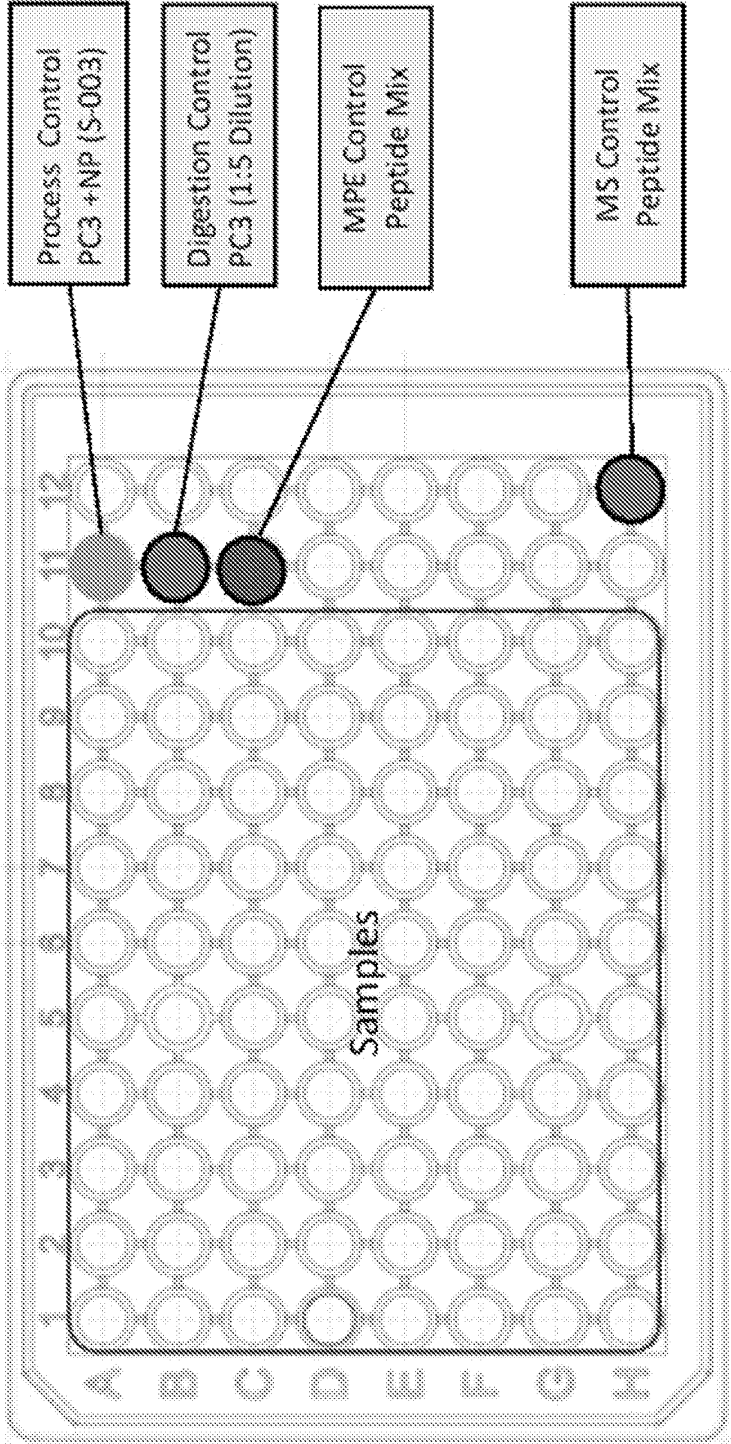


FIG. 41

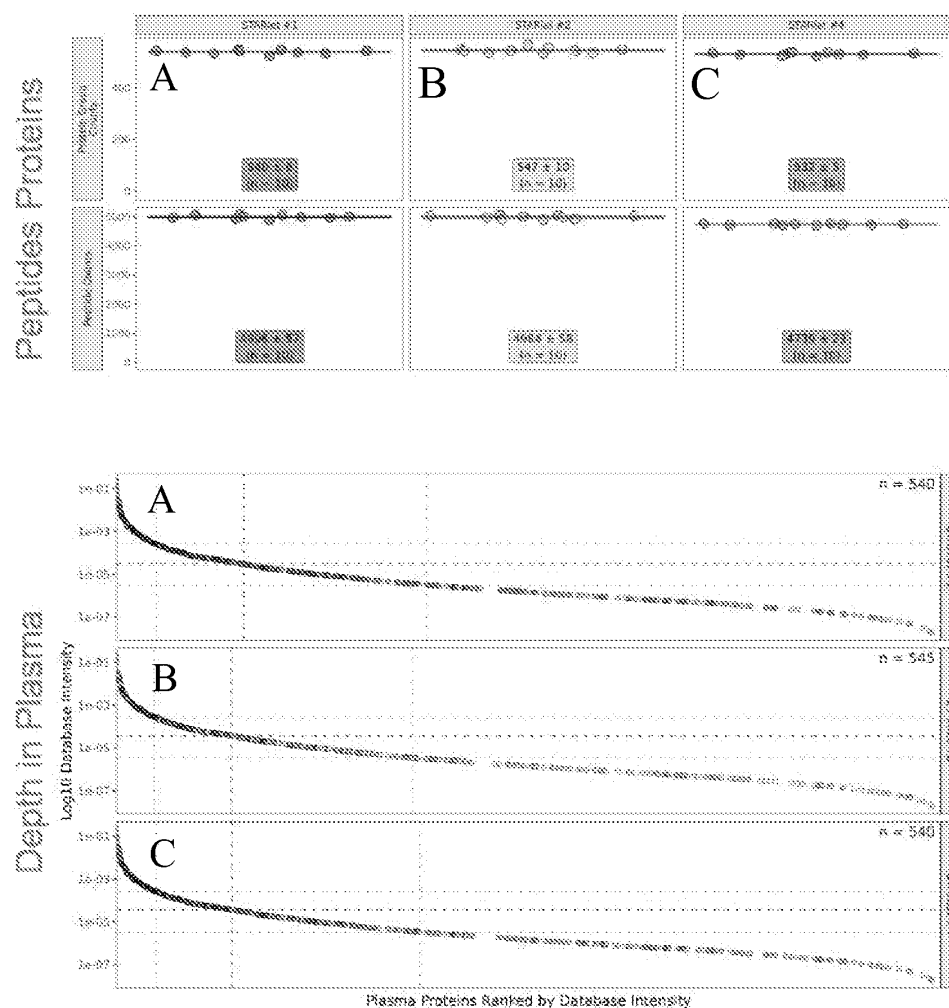


FIG. 42

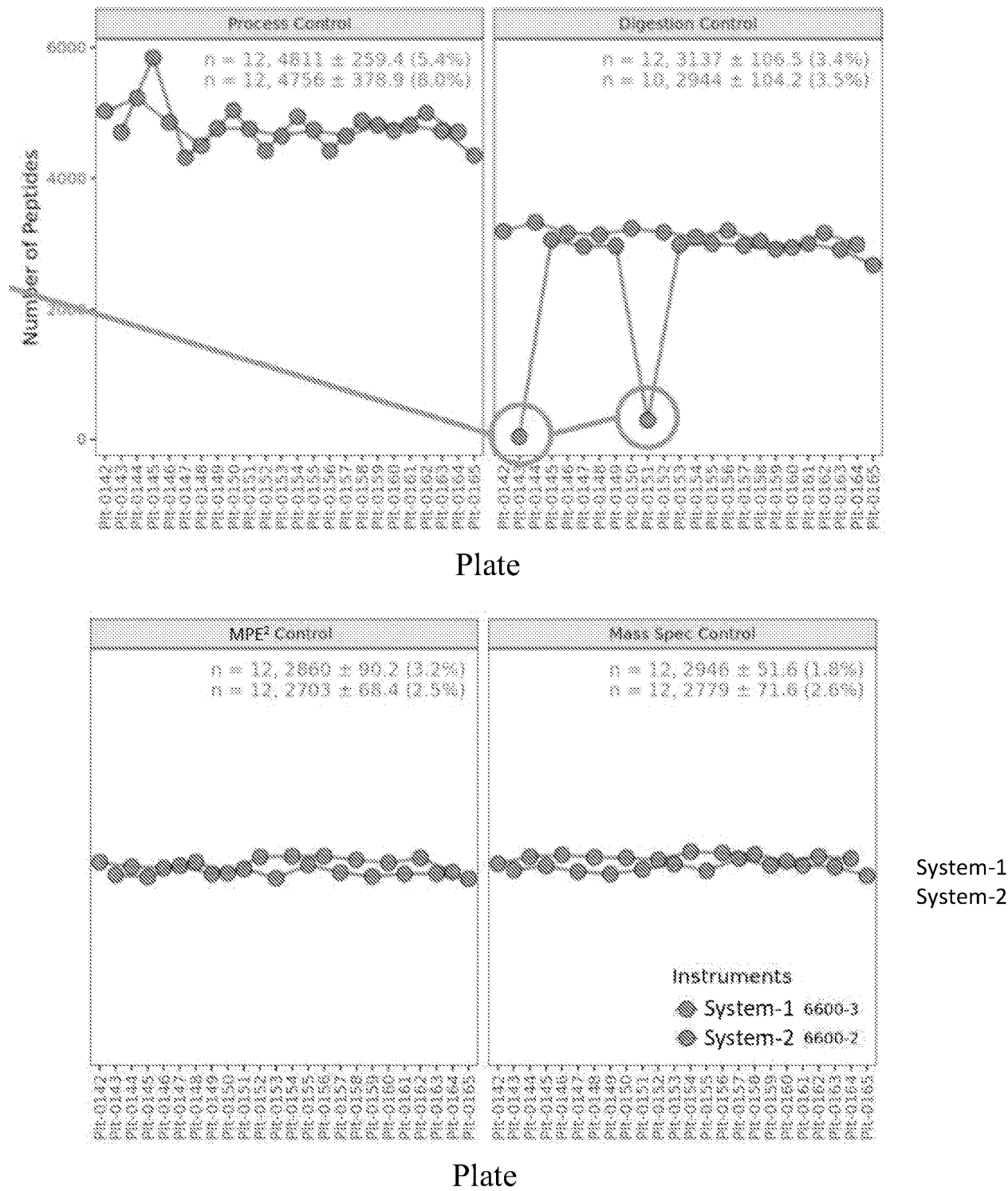


FIG. 43

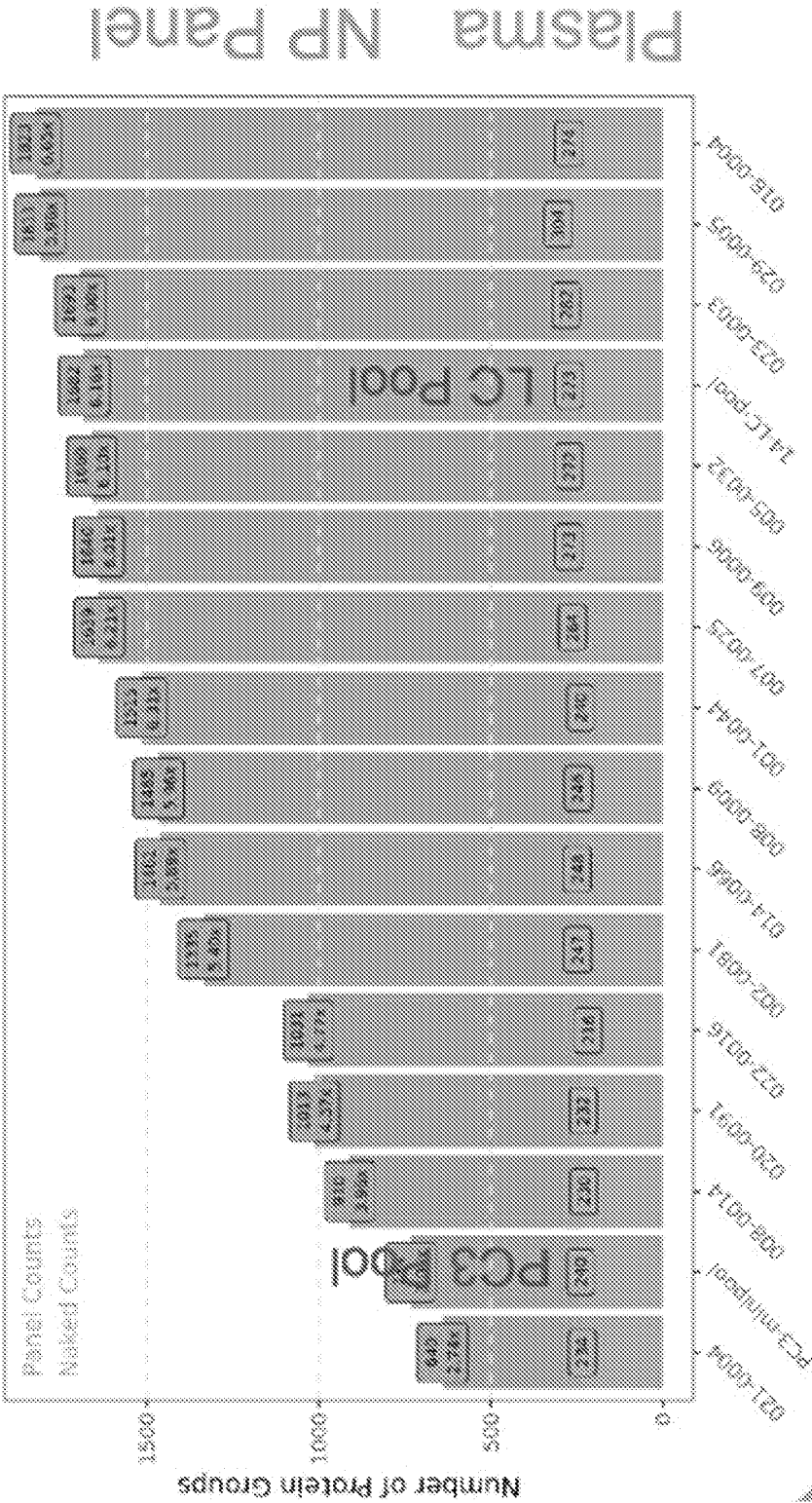


FIG. 44

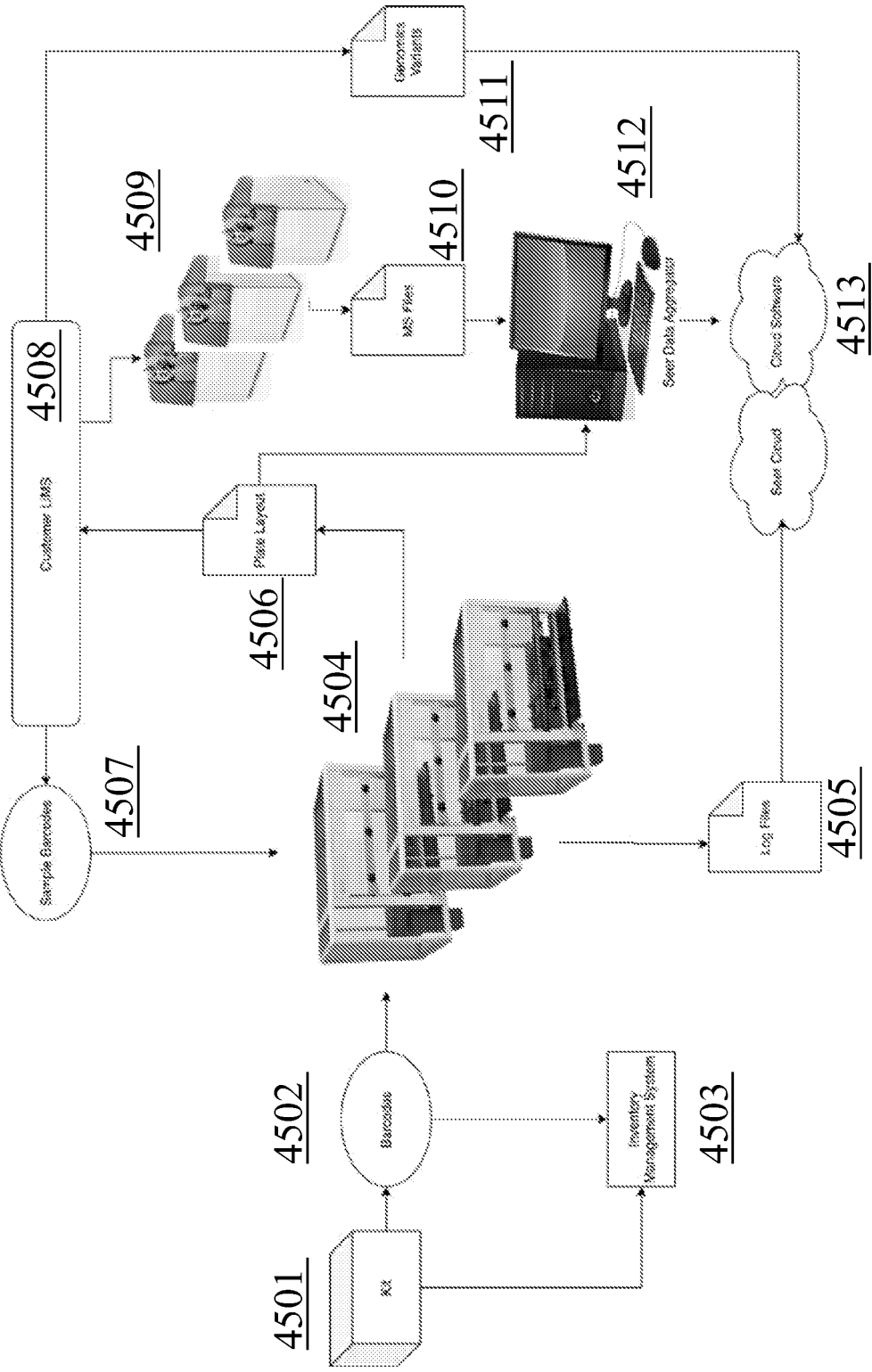


FIG. 45

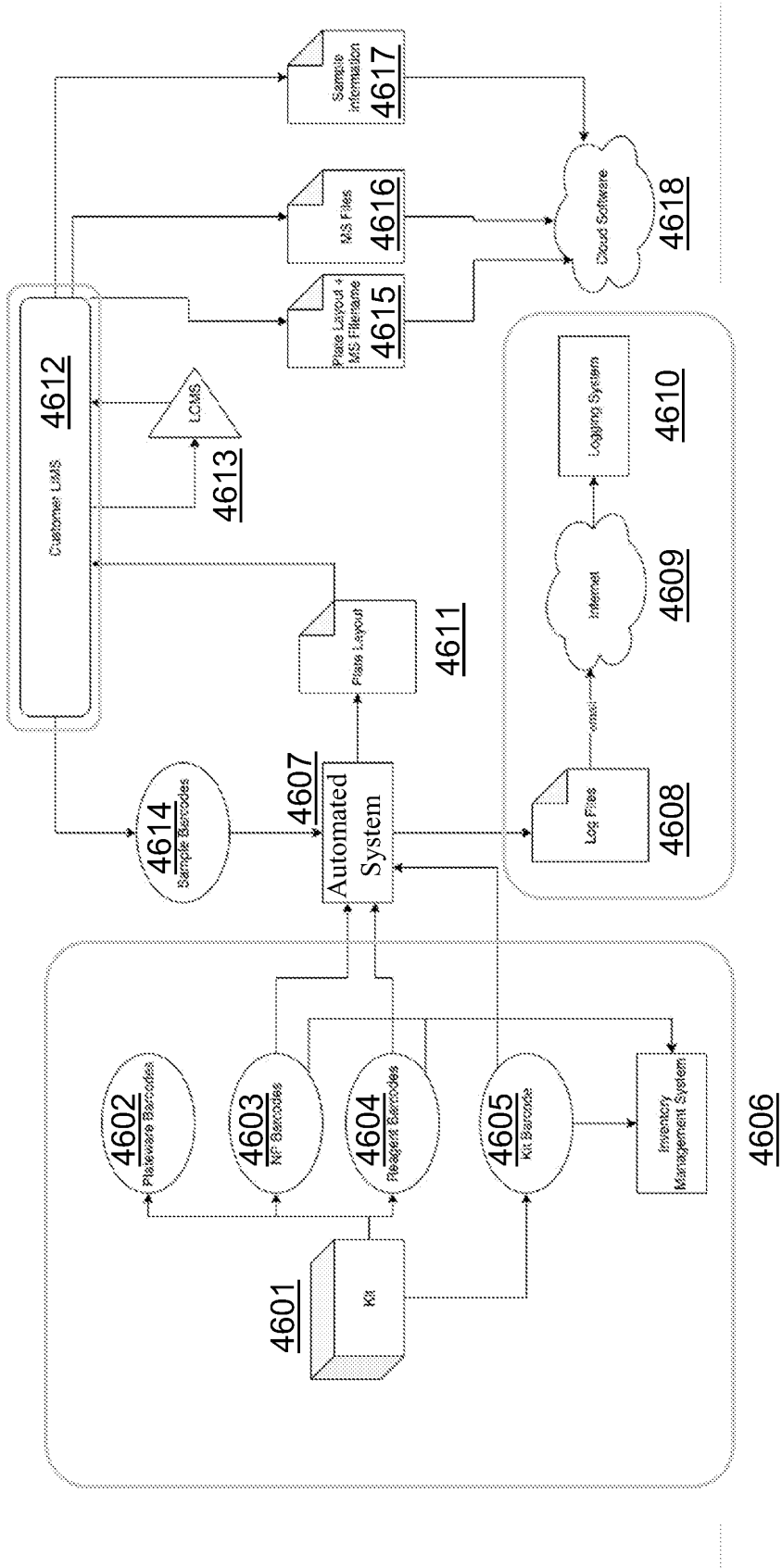
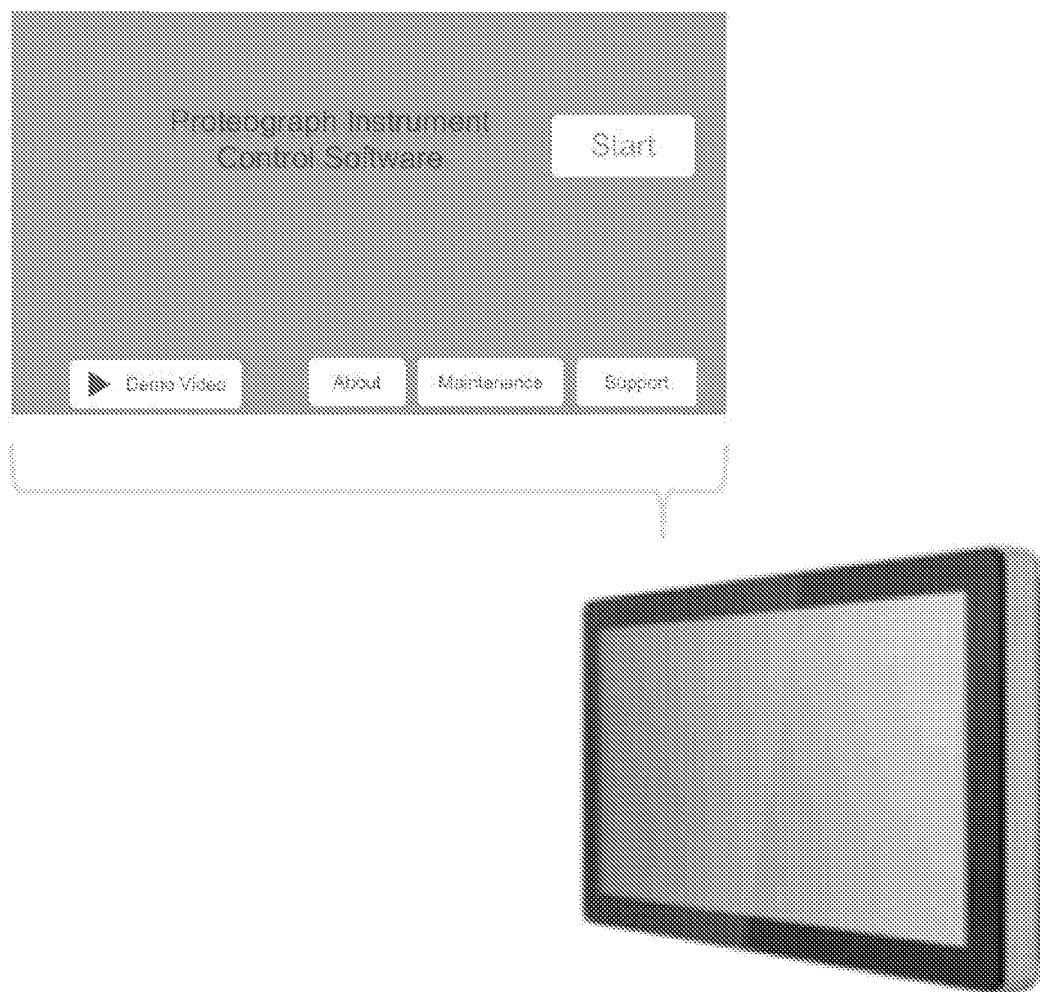


FIG. 46

**FIG. 47**

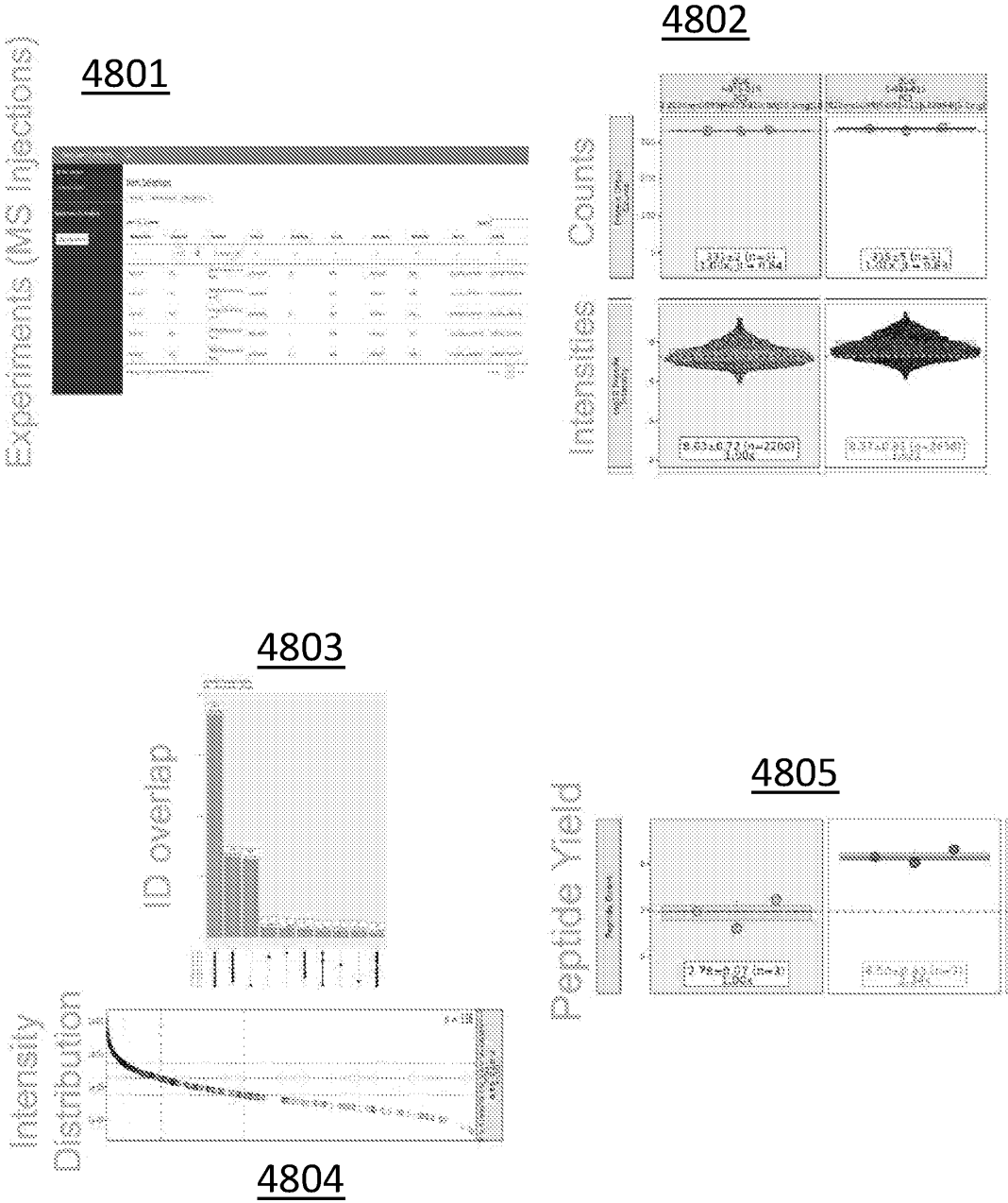
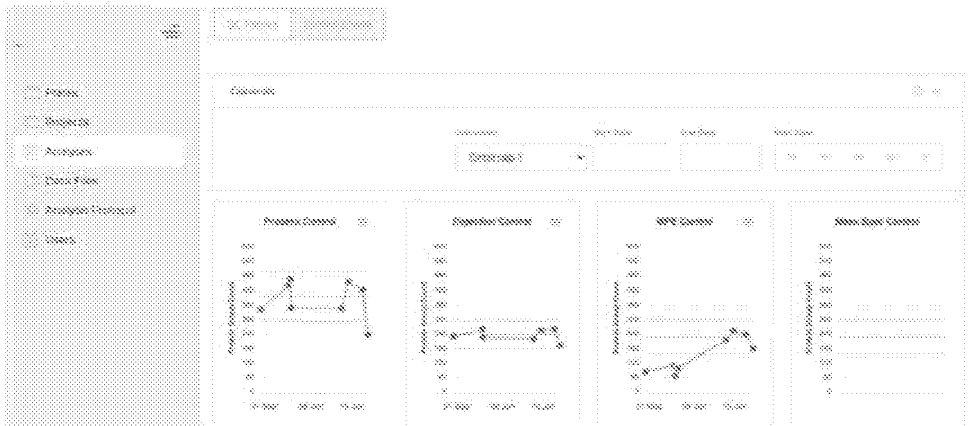


FIG. 48

4901



4902

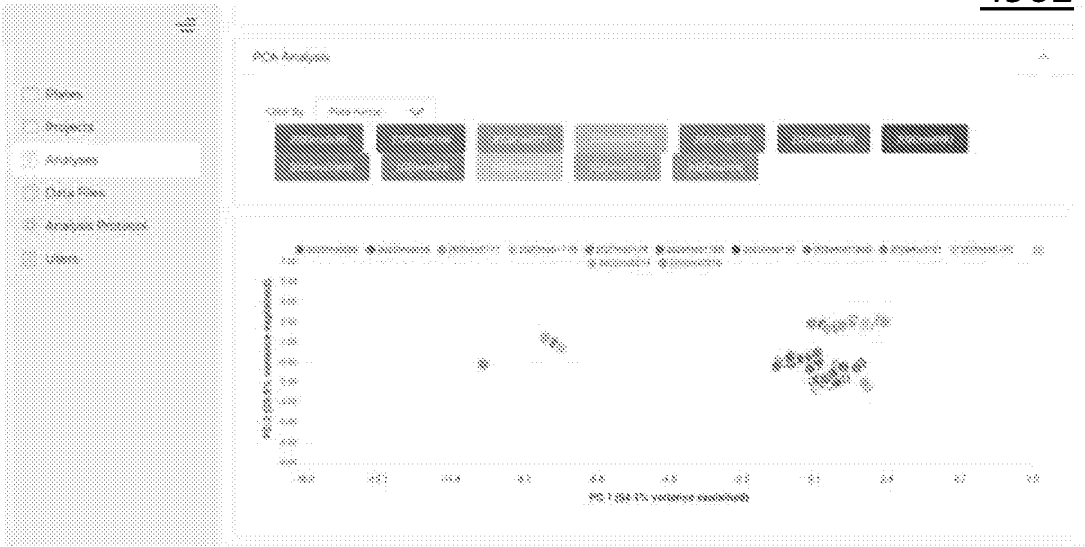
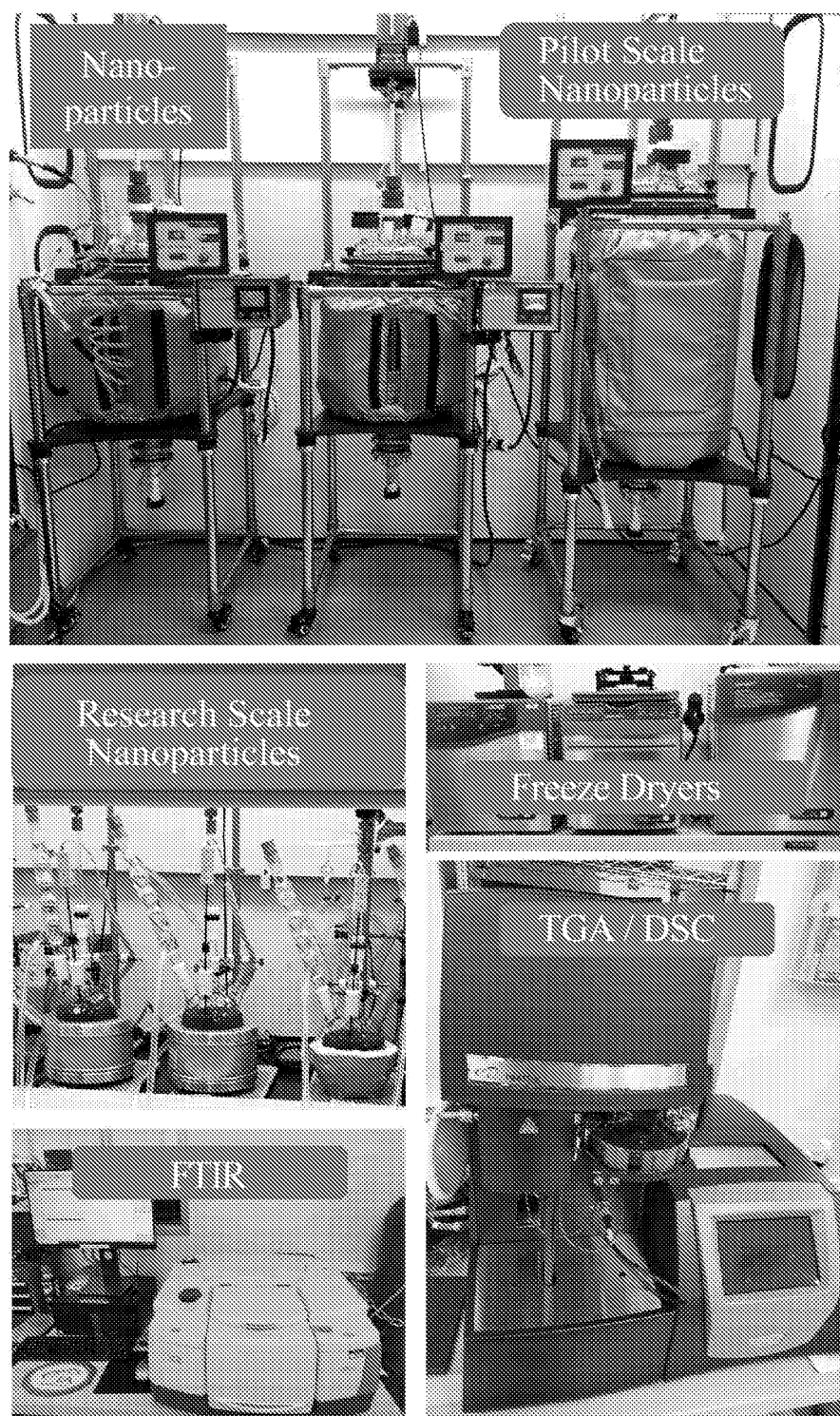


FIG. 49

**FIG. 50**

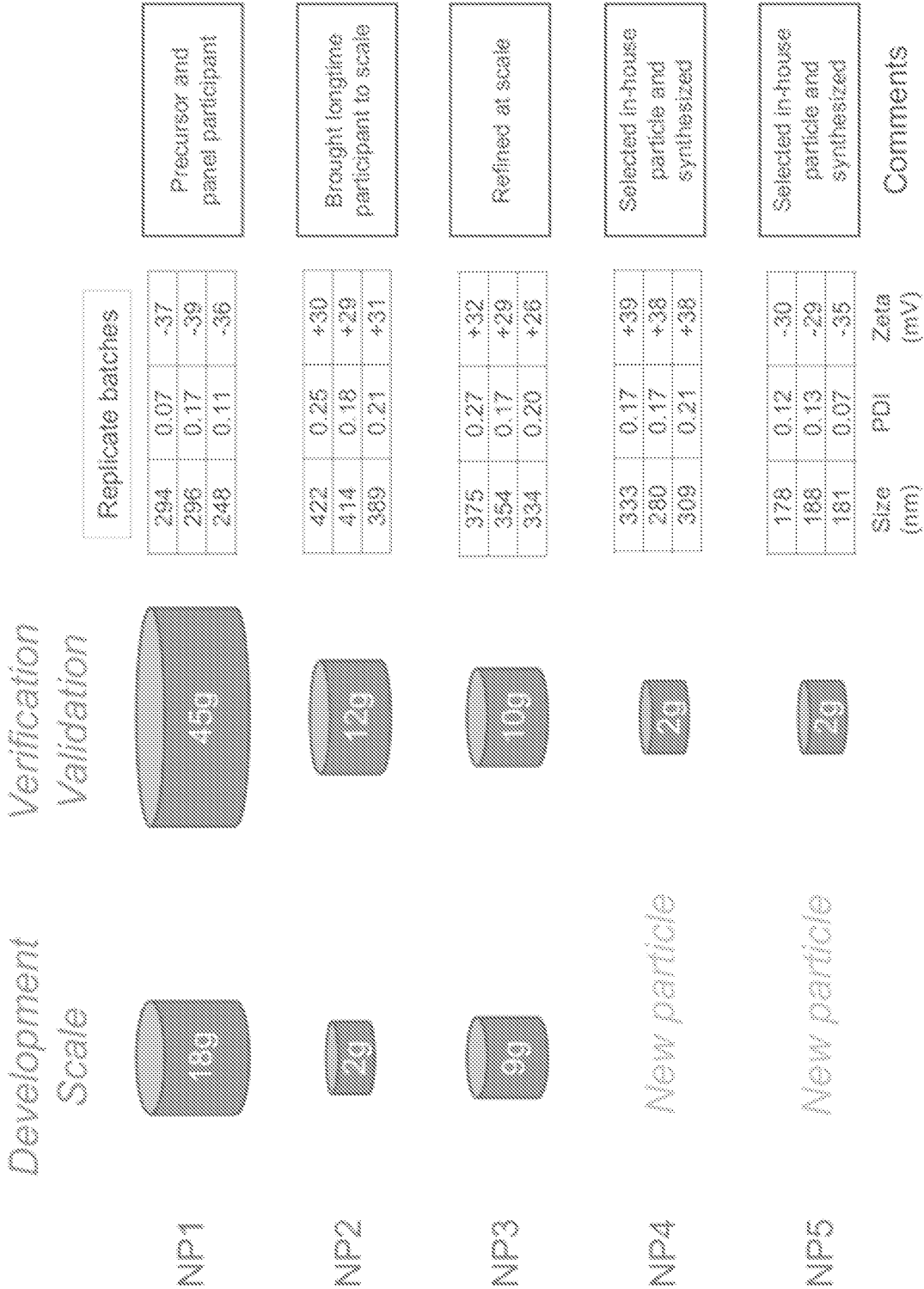


FIG. 51

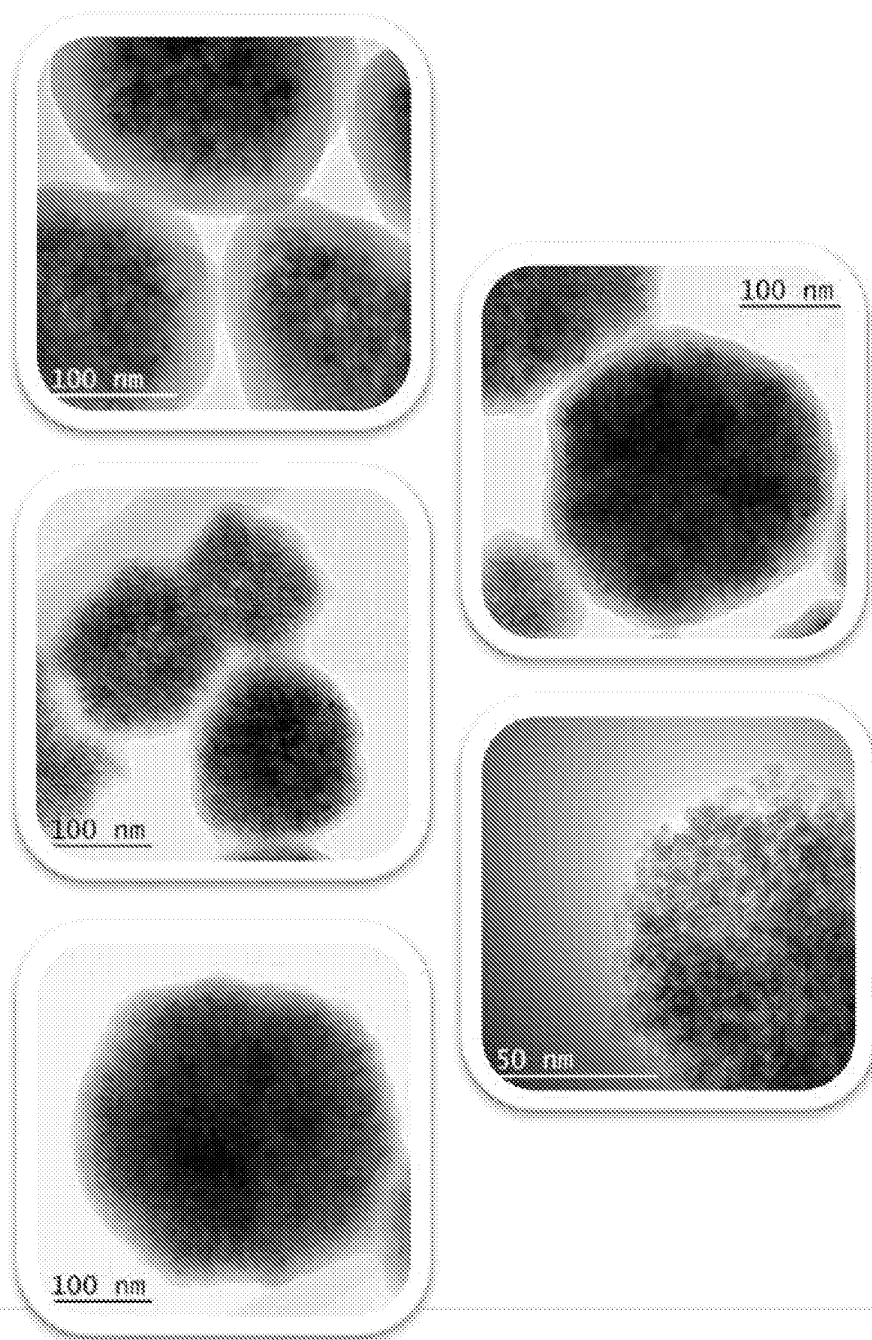
**FIG. 52**



FIG. 53

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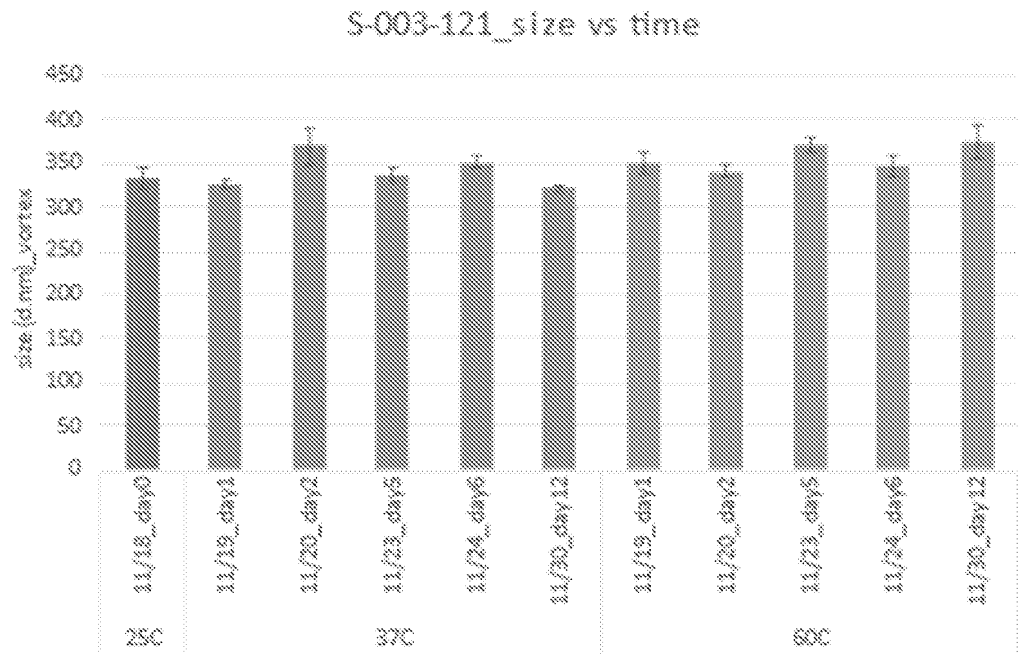


FIG. 54A

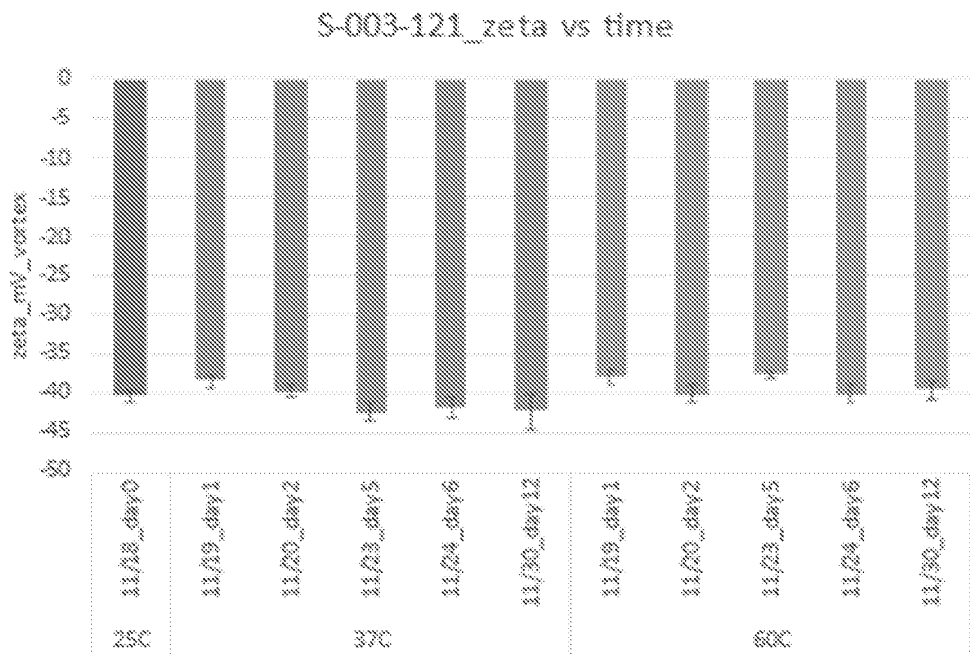
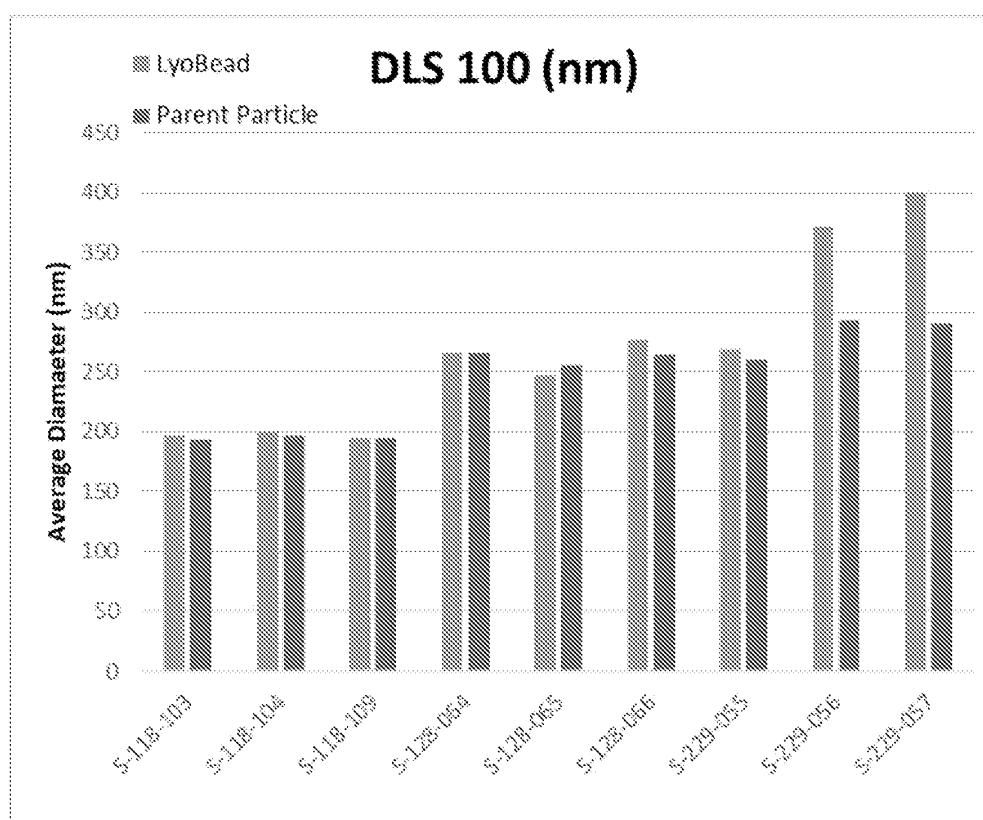
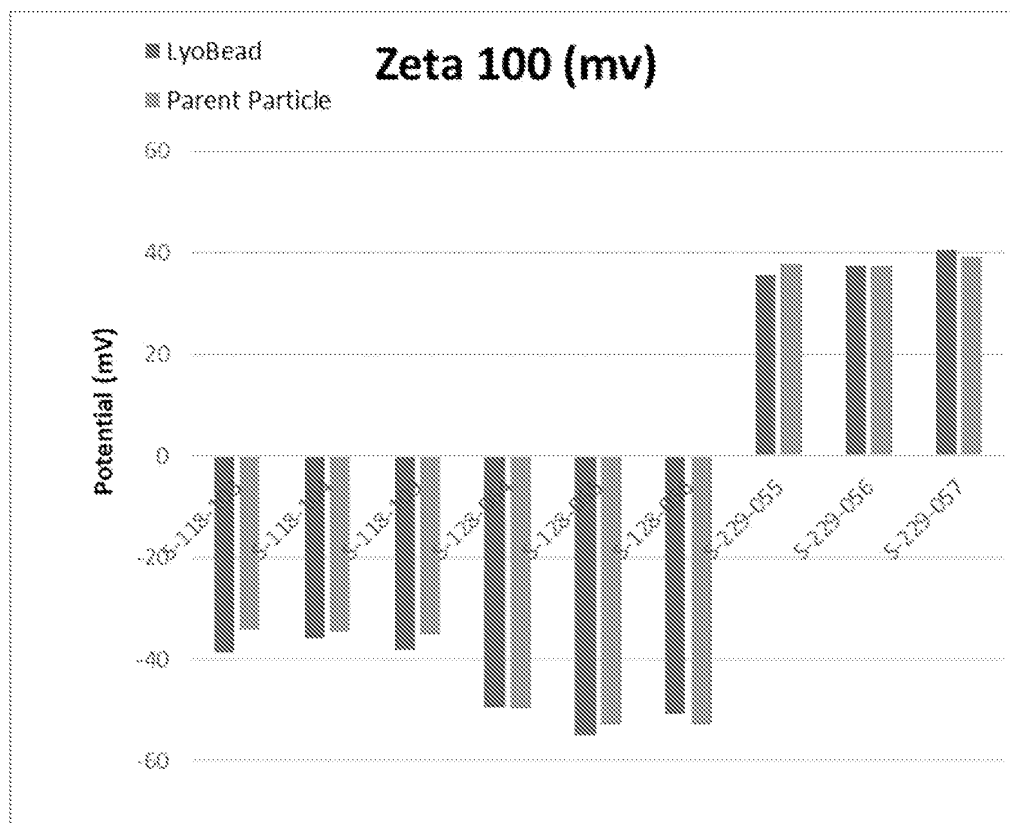


FIG. 54B

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**FIG. 55**

**FIG. 56**

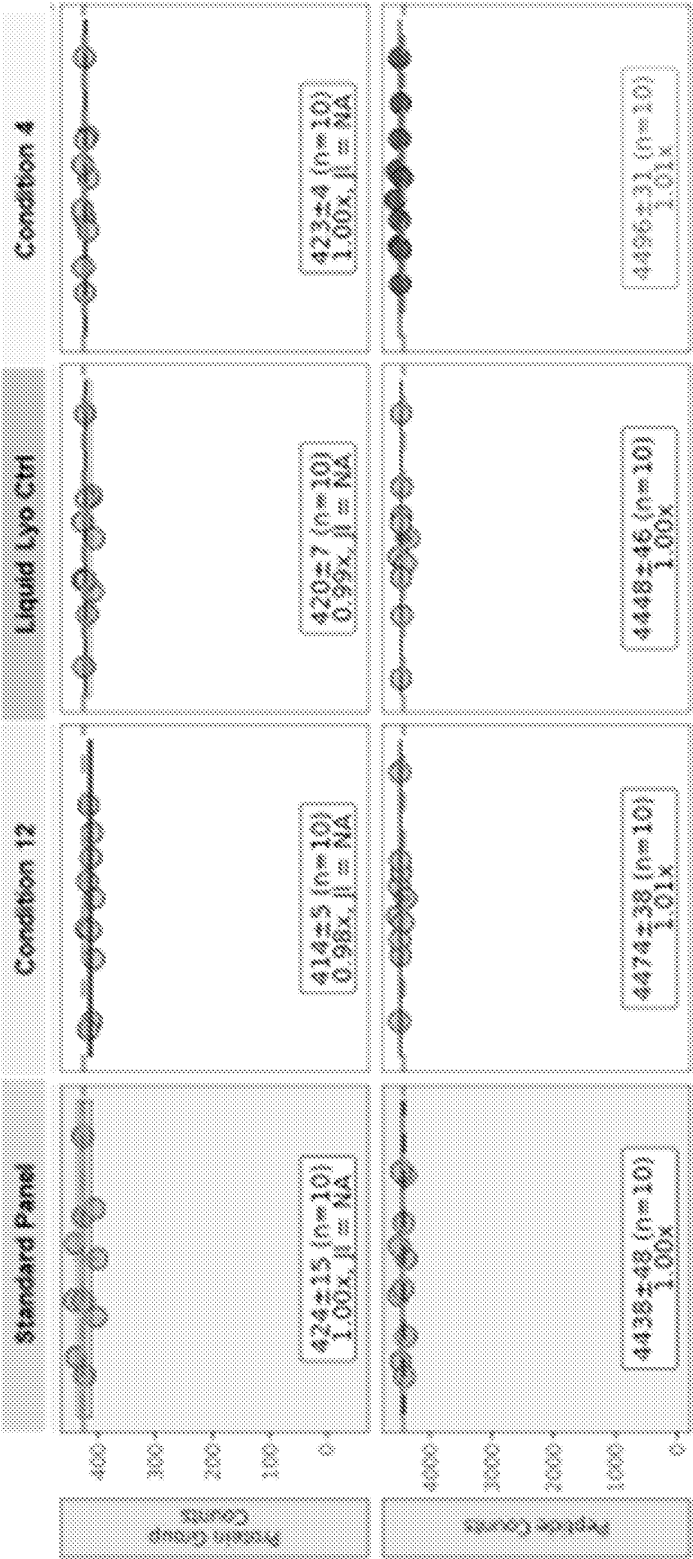


FIG. 57

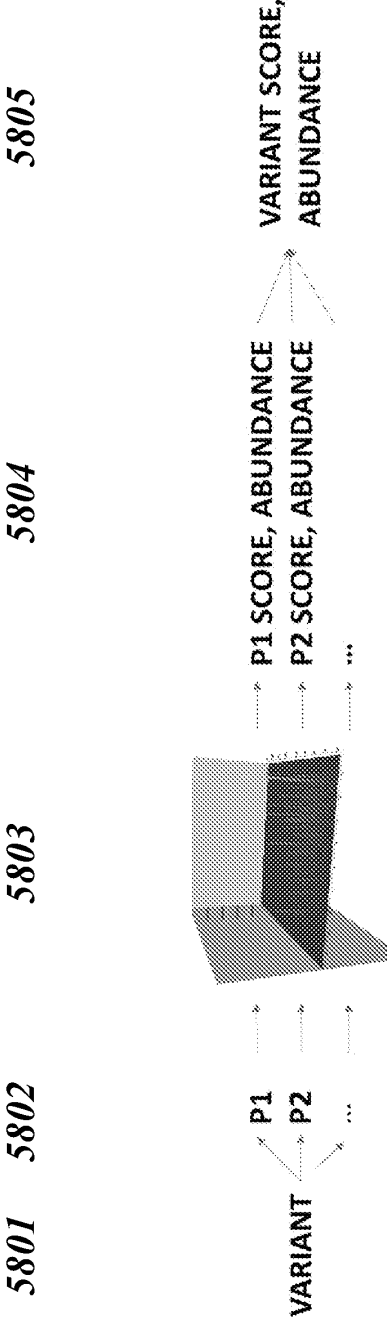


FIG. 58

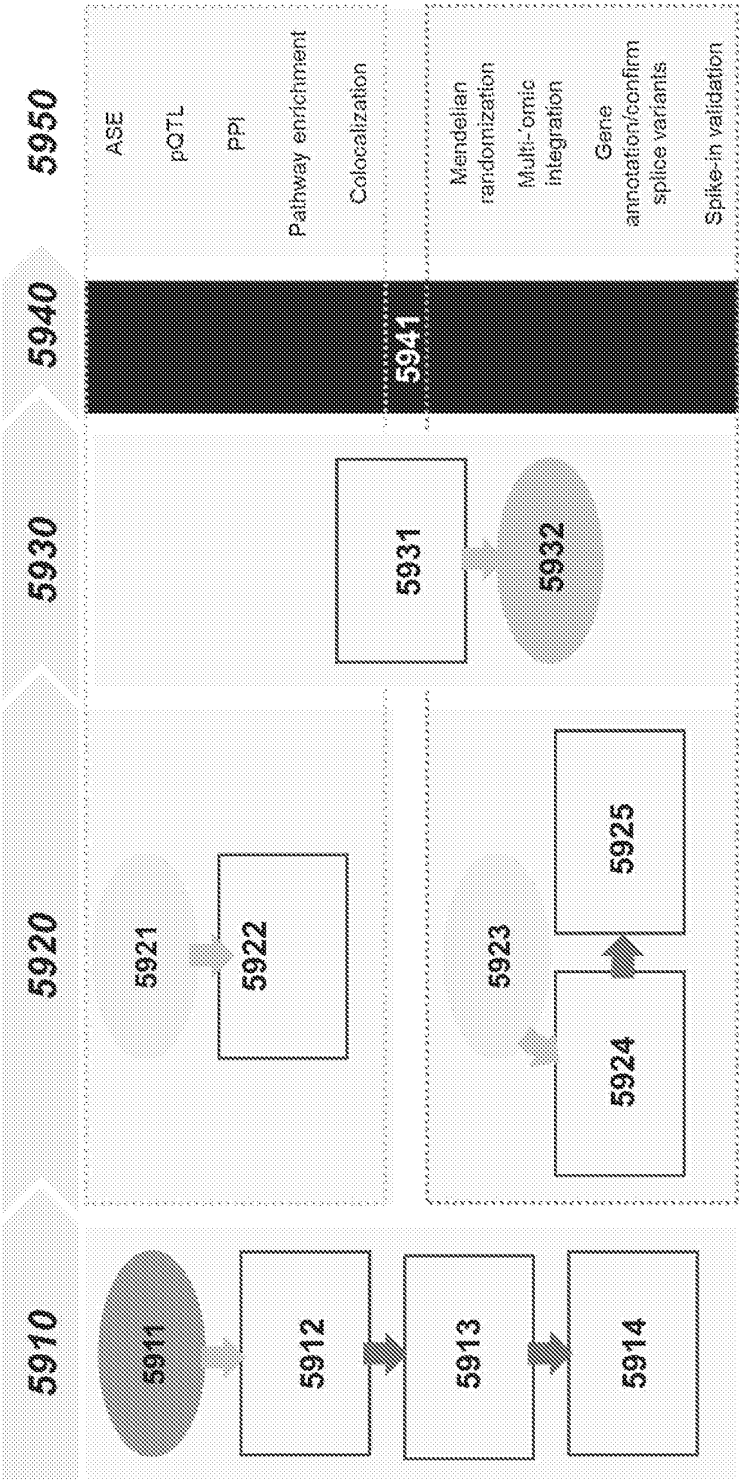
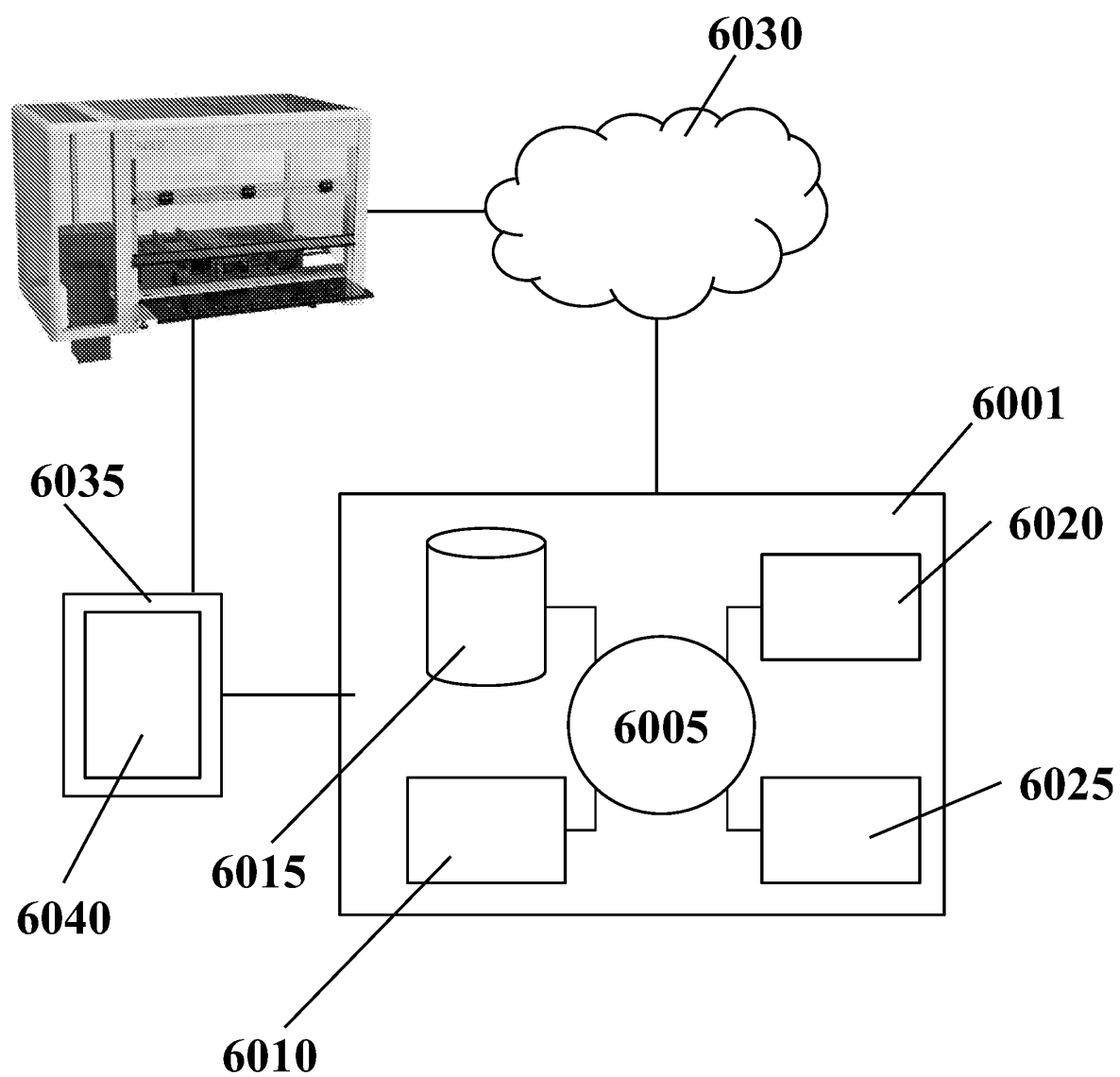


FIG. 59

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**FIG. 60**

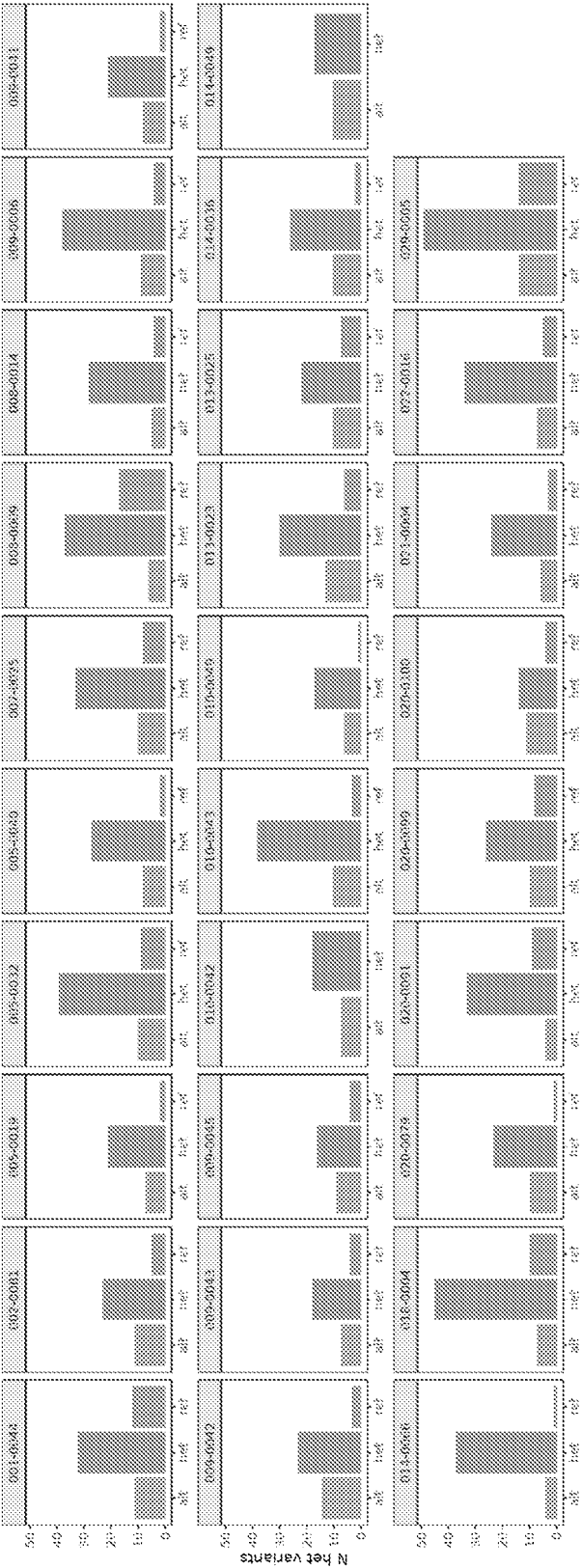
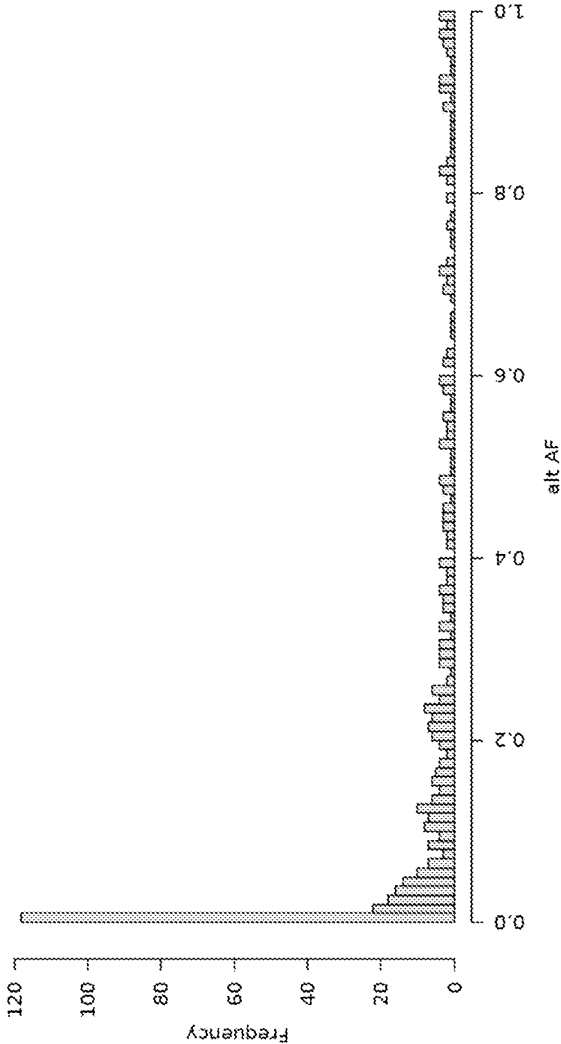


FIG. 61

A



B

range	frequency
<chr>	<int>
0 - 0.1	219
0.1 - 0.2	56
0.2 - 0.3	48
0.3 - 0.4	28
0.4 - 0.5	22
0.5 - 0.6	22
0.6 - 0.7	12
0.7 - 0.8	15
0.8 - 0.9	16
0.9 - 1	26

FIG. 62

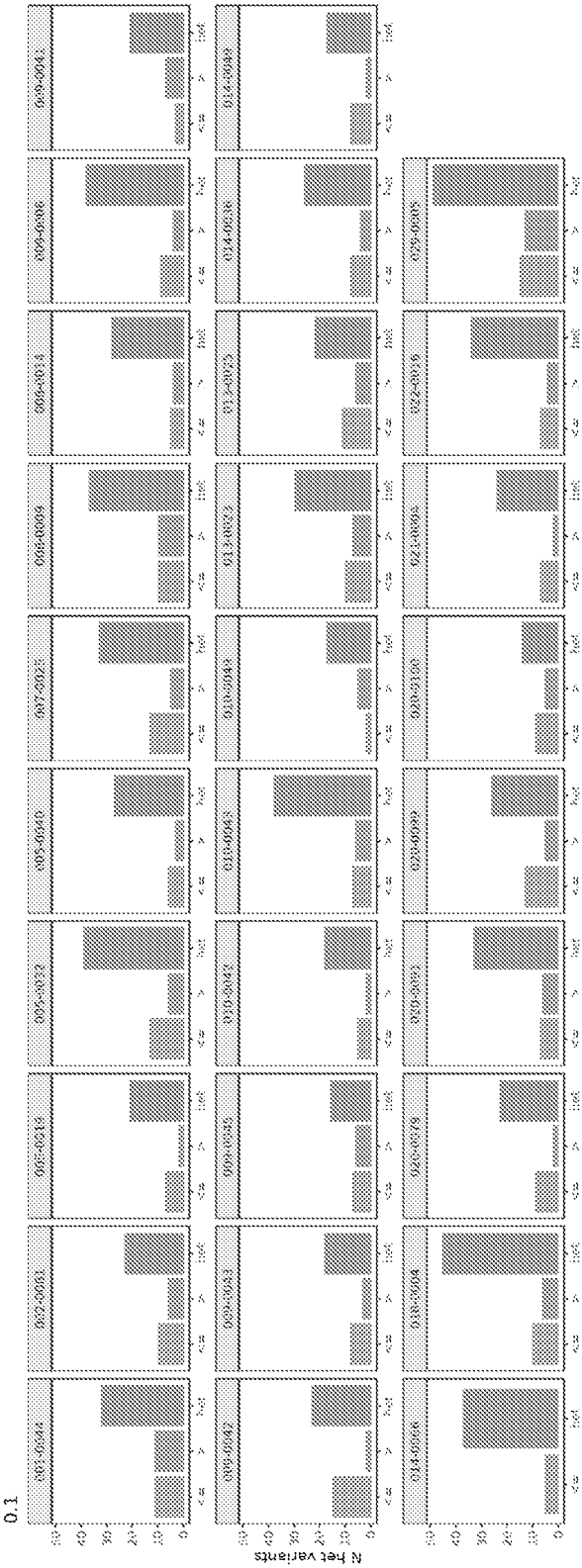


FIG. 63

Variant	SAAP	N subjects found	Gene
1-169542347-T-A	T915S	3	F5
14-94380925-T-A	E288V	3	SERPINA1
17-66212167-C-G	W335S	4	APOH
2-21026844-C-T	V730I	3	APOB
3-52799865-C-T	T340M	4	ITIH3

FIG. 64A

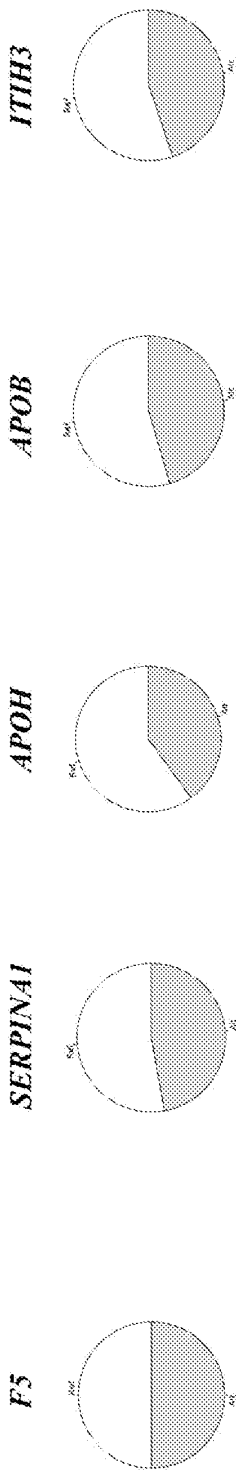


FIG. 64 B

FIG. 64 C

FIG. 64 D

FIG. 64 E

FIG. 64 F

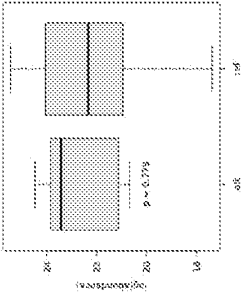
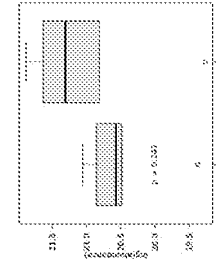
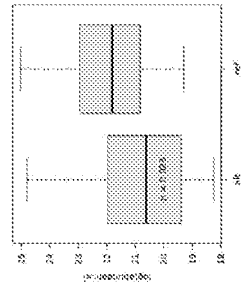
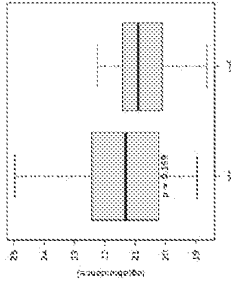
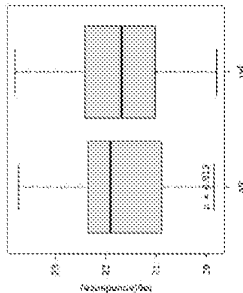


FIG. 64 G

FIG. 64 H

FIG. 64 I

FIG. 64 J

FIG. 64 K

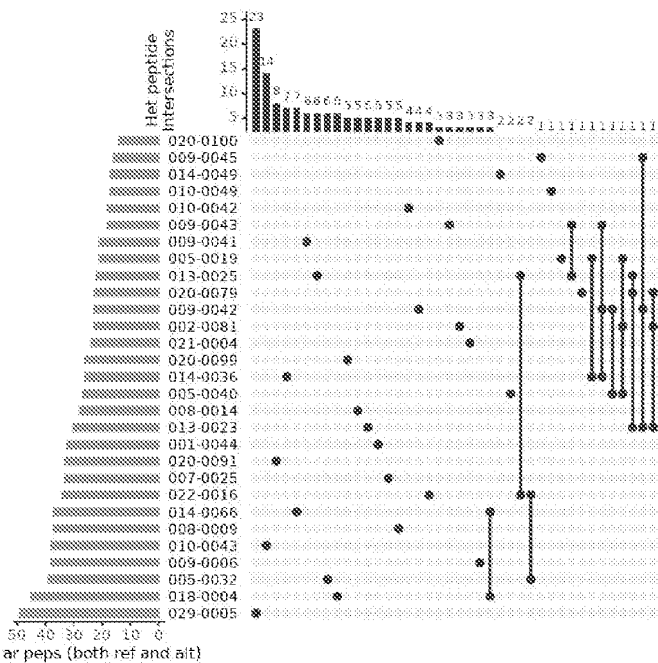


FIG. 65A

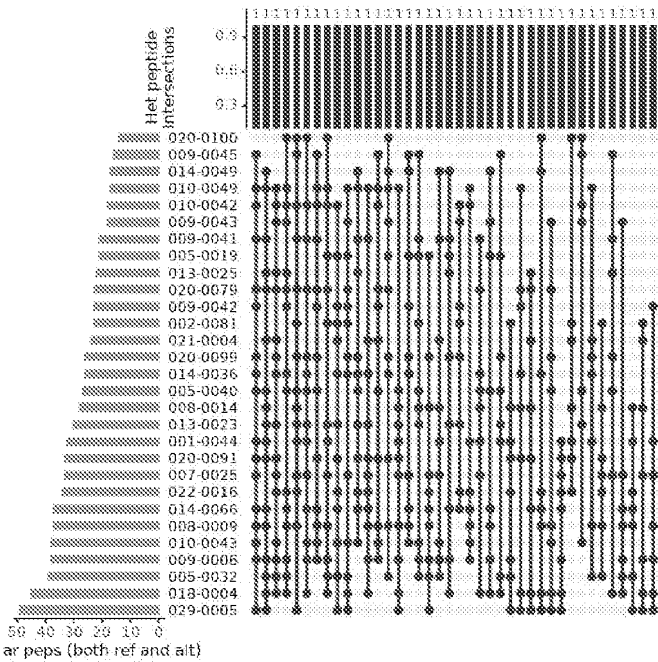


FIG. 65B

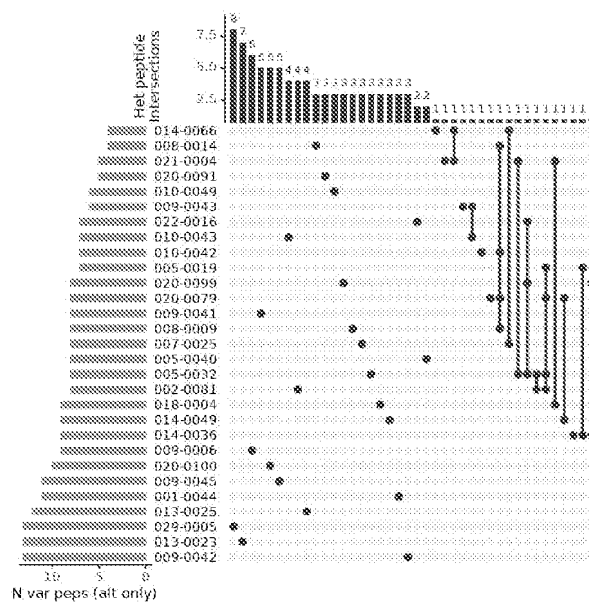


FIG. 66A

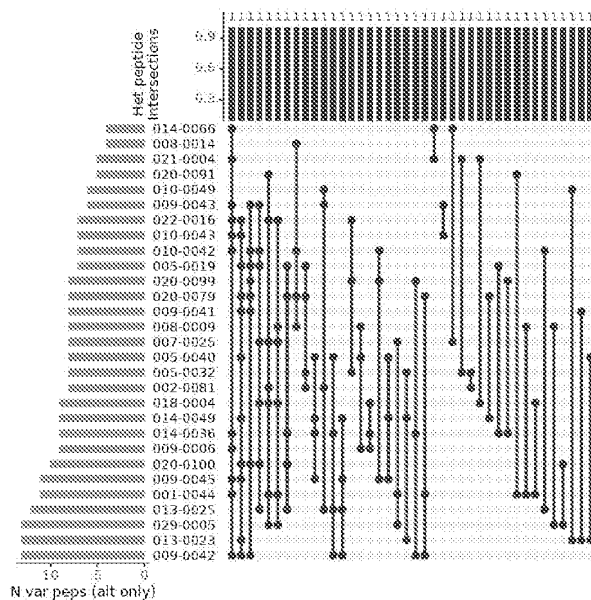


FIG. 66B

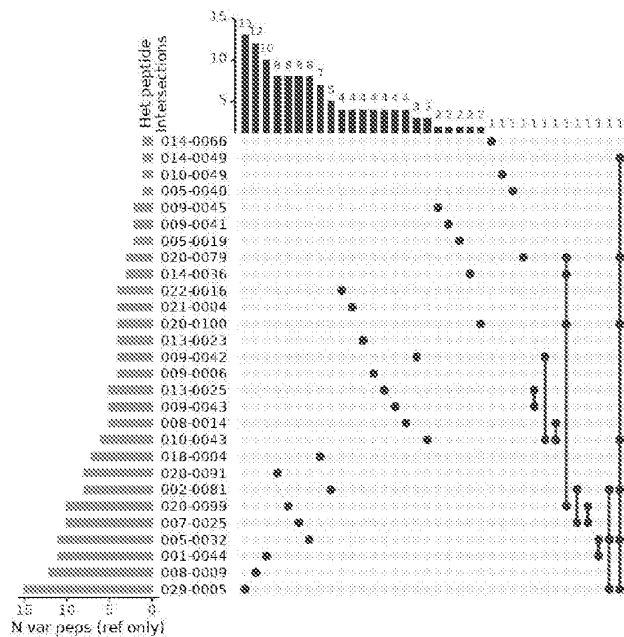


FIG. 67A

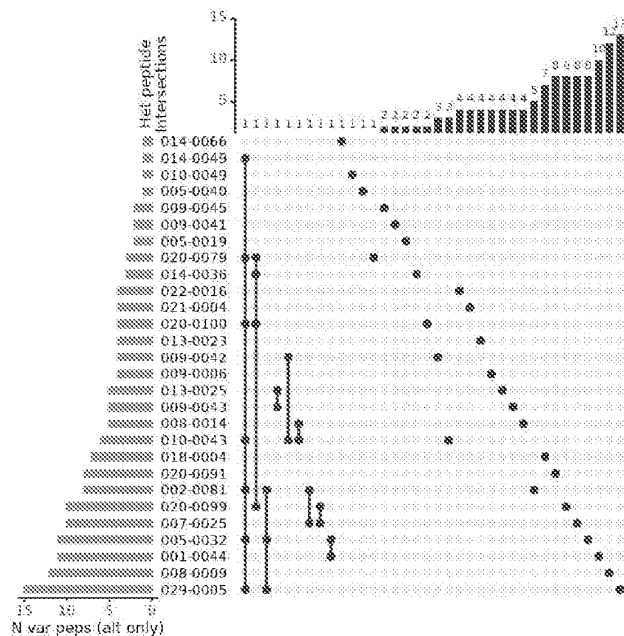


FIG. 67B