

FIG. 1

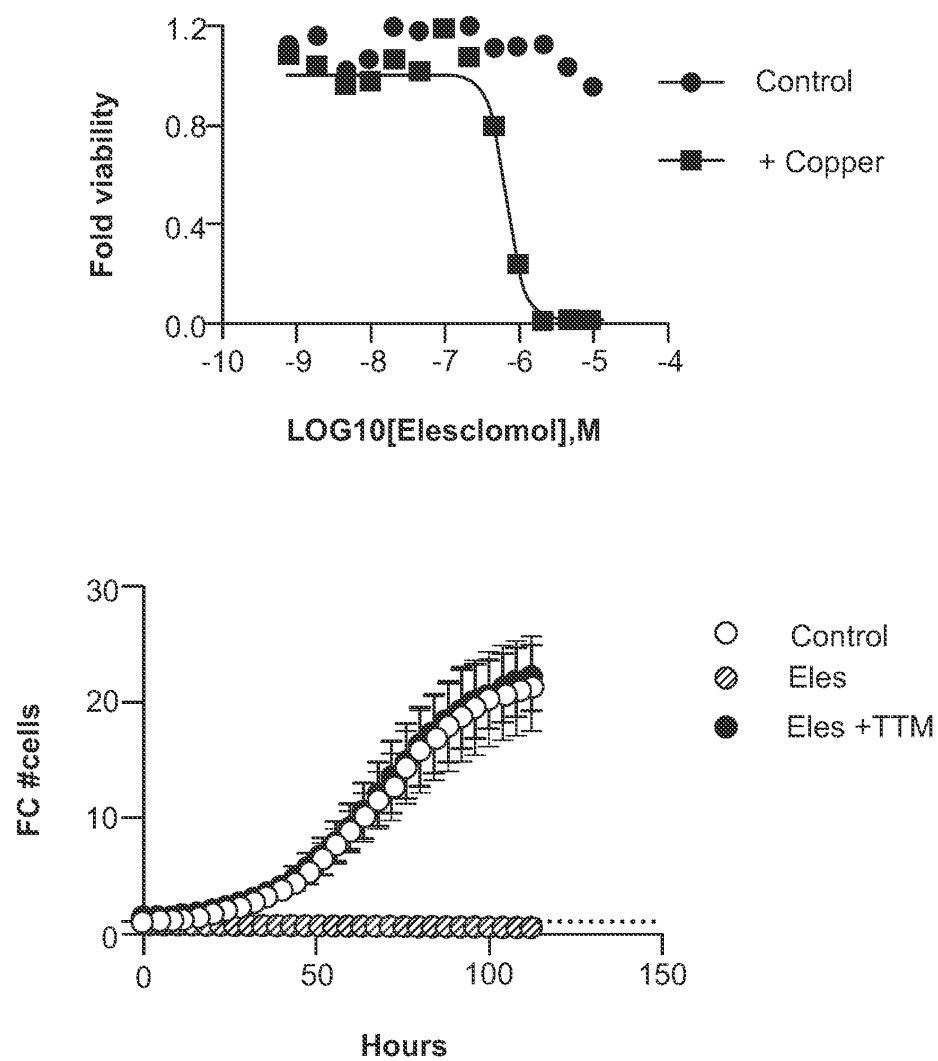


FIG. 2

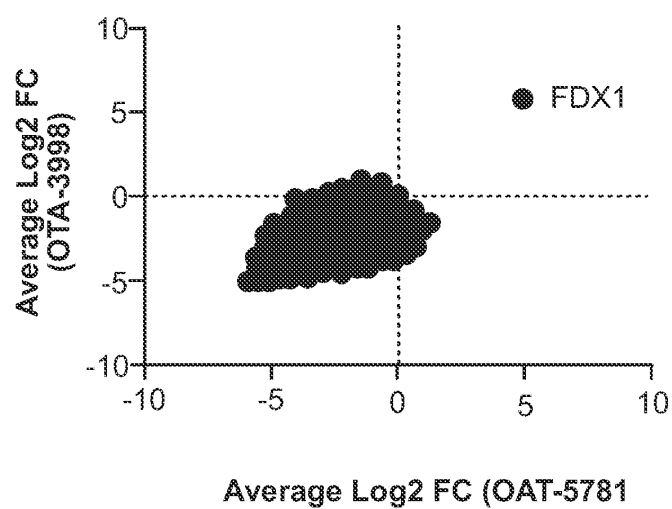


FIG. 3

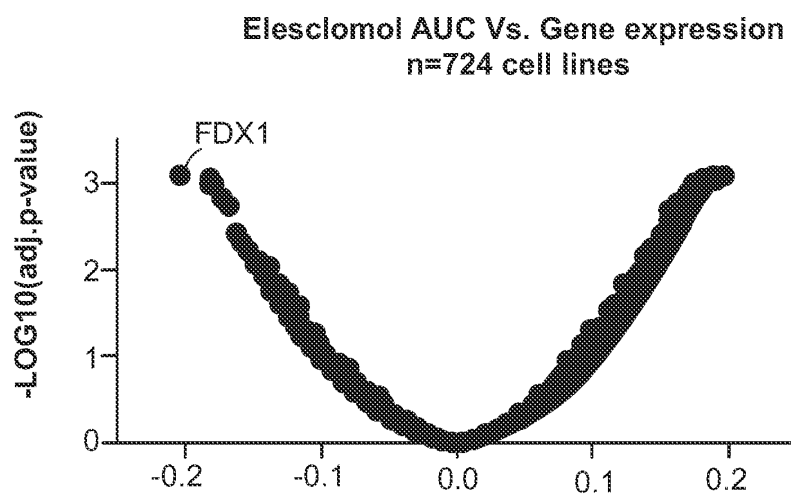


FIG. 4



FIG. 5

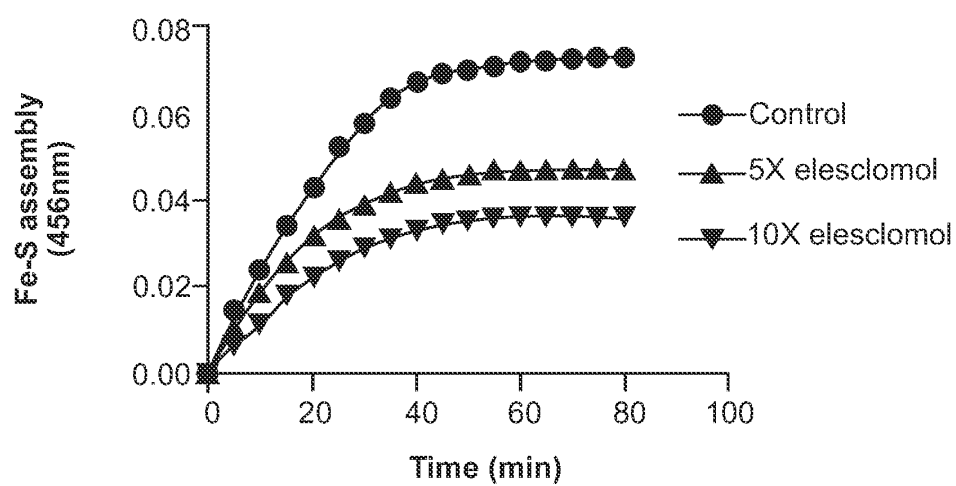


FIG. 6

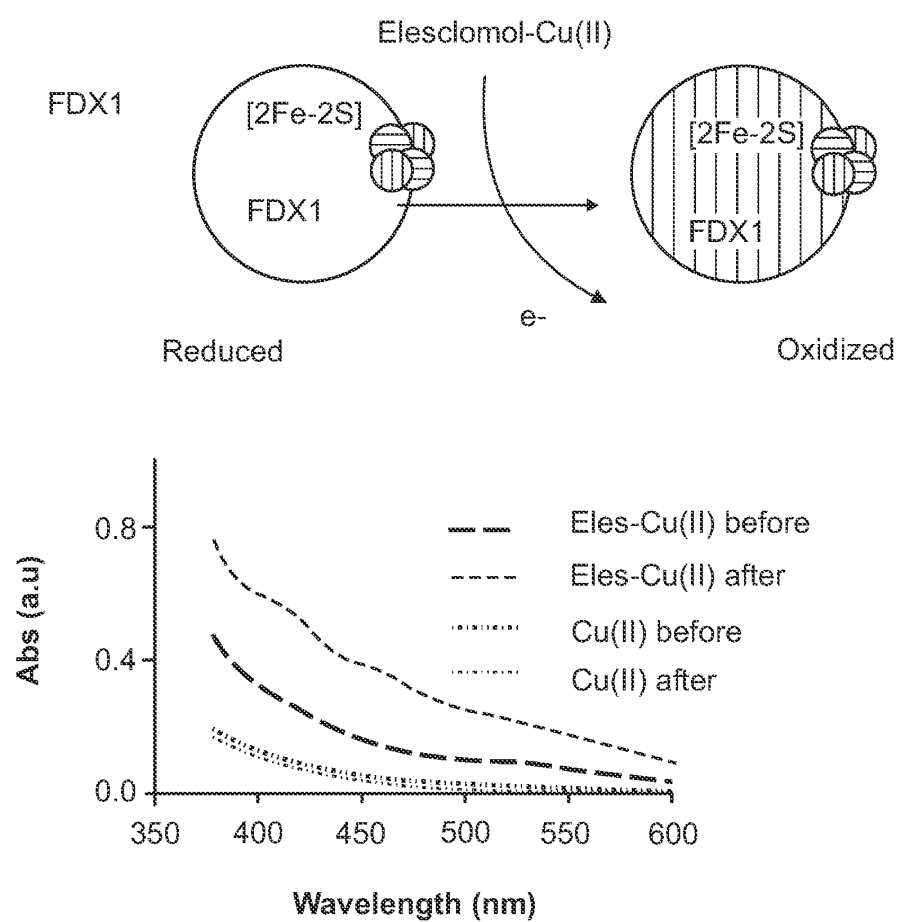


FIG. 7

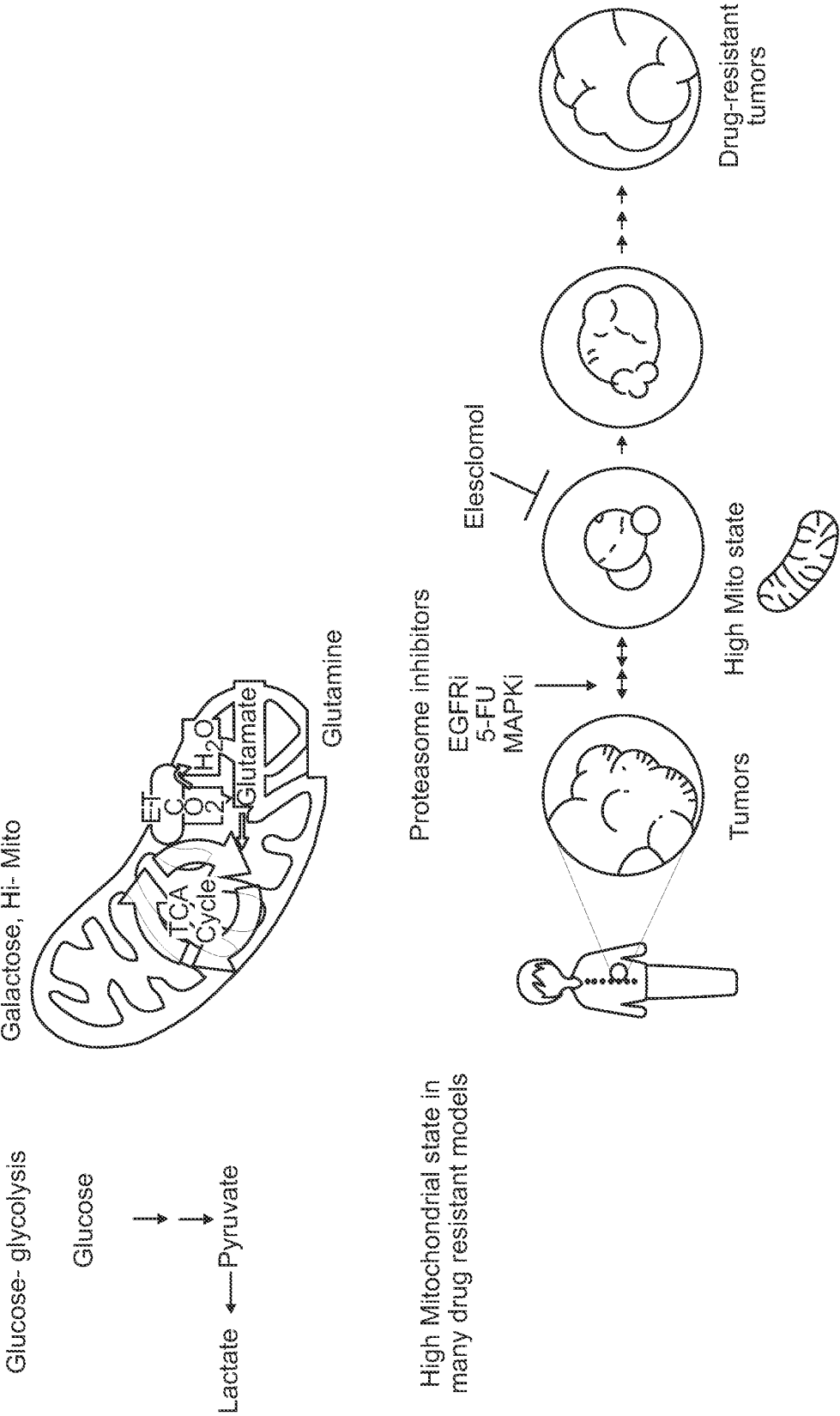


FIG. 7 (cont.)

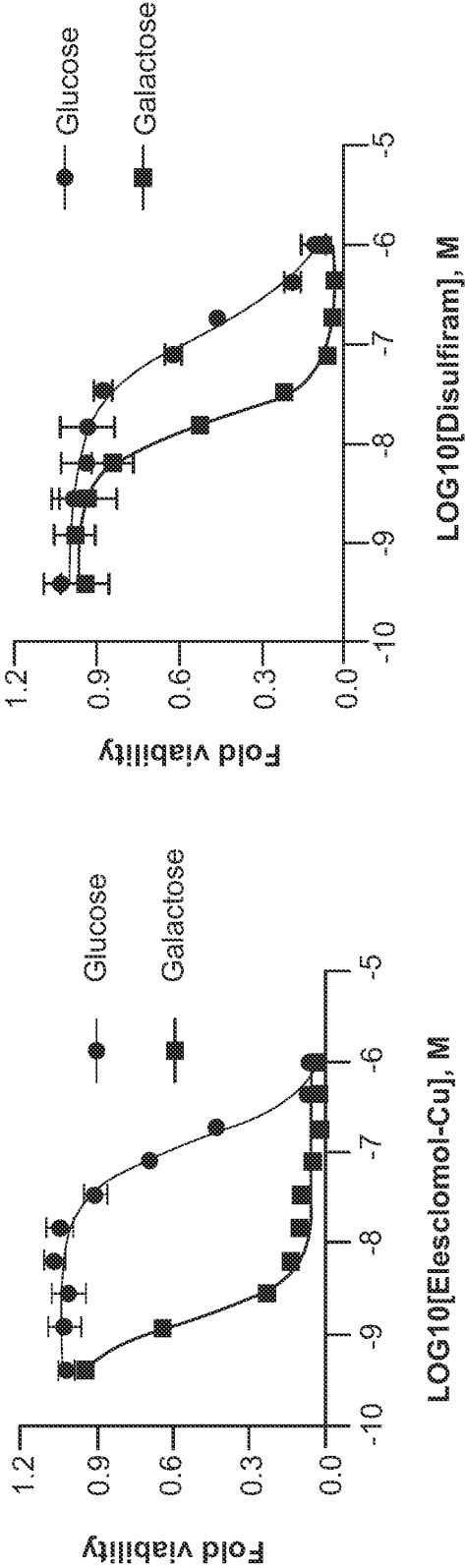


FIG. 8

FDX1 regulates the Lipoic acid pathway in cells

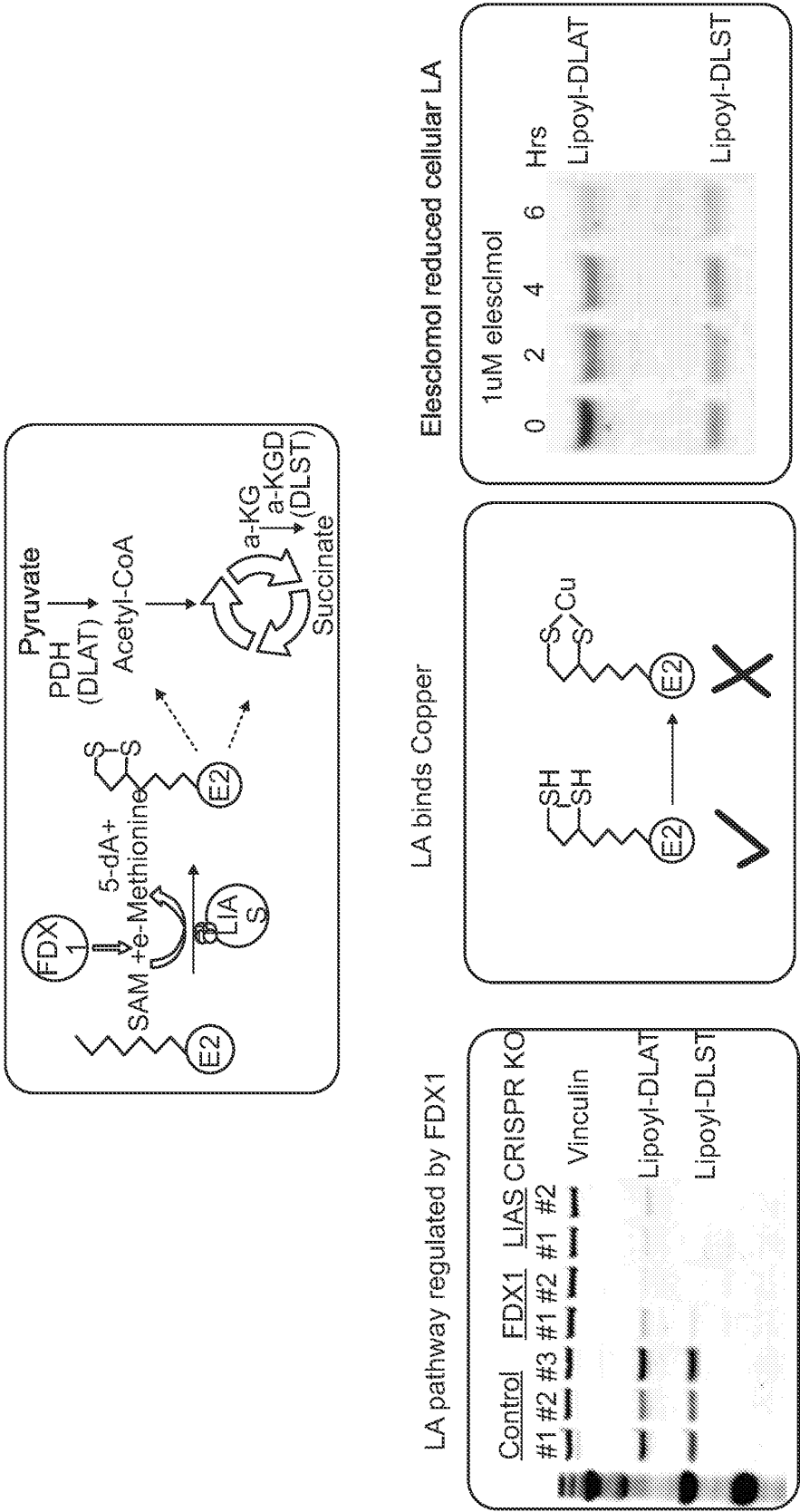


FIG. 9

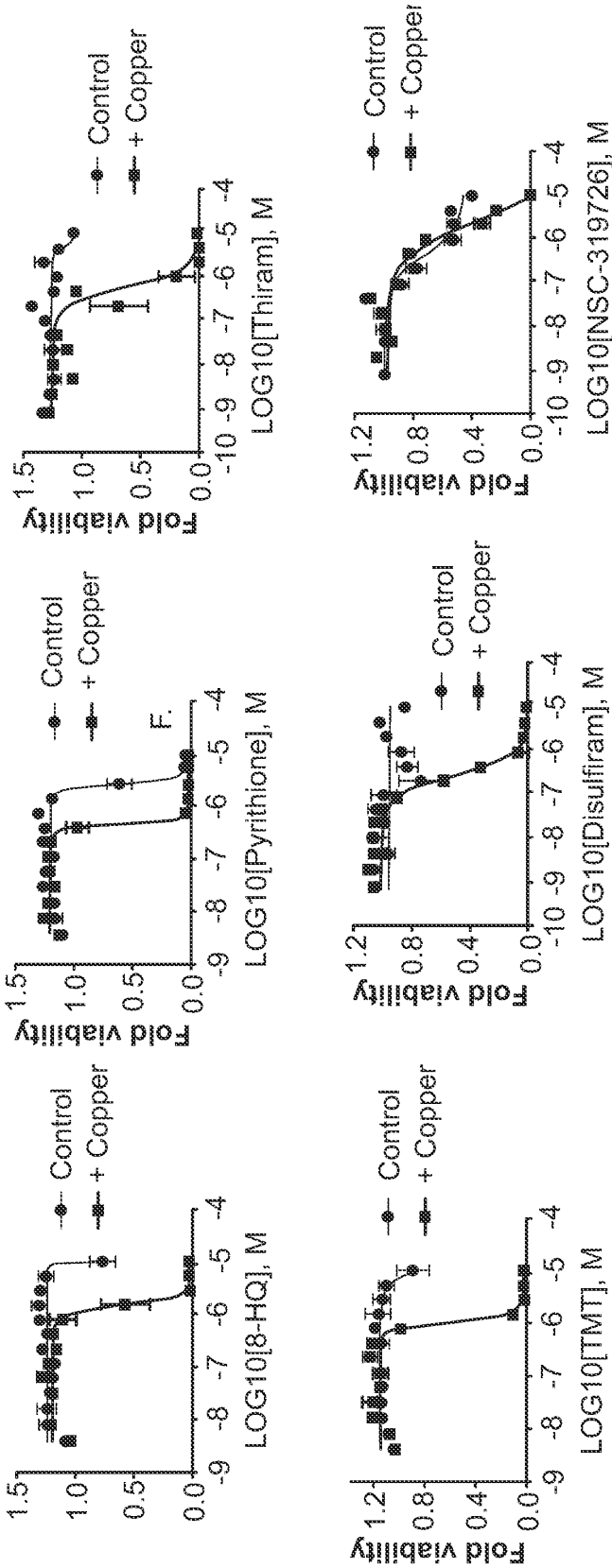
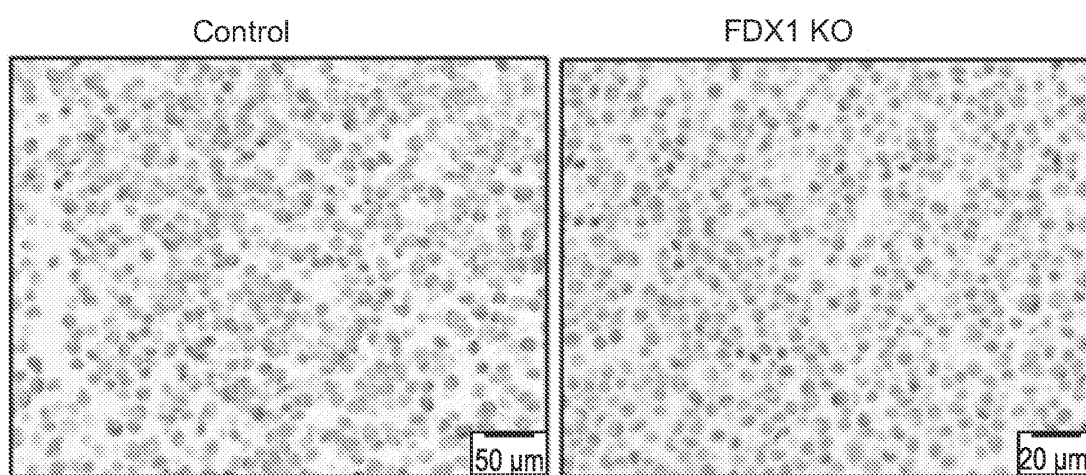
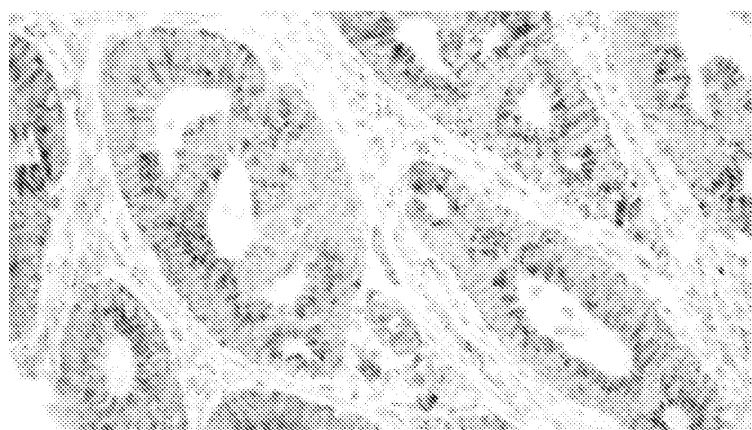


FIG. 10



IHC LA

Colon adenocarcinoma



IHC LA

FIG. 11

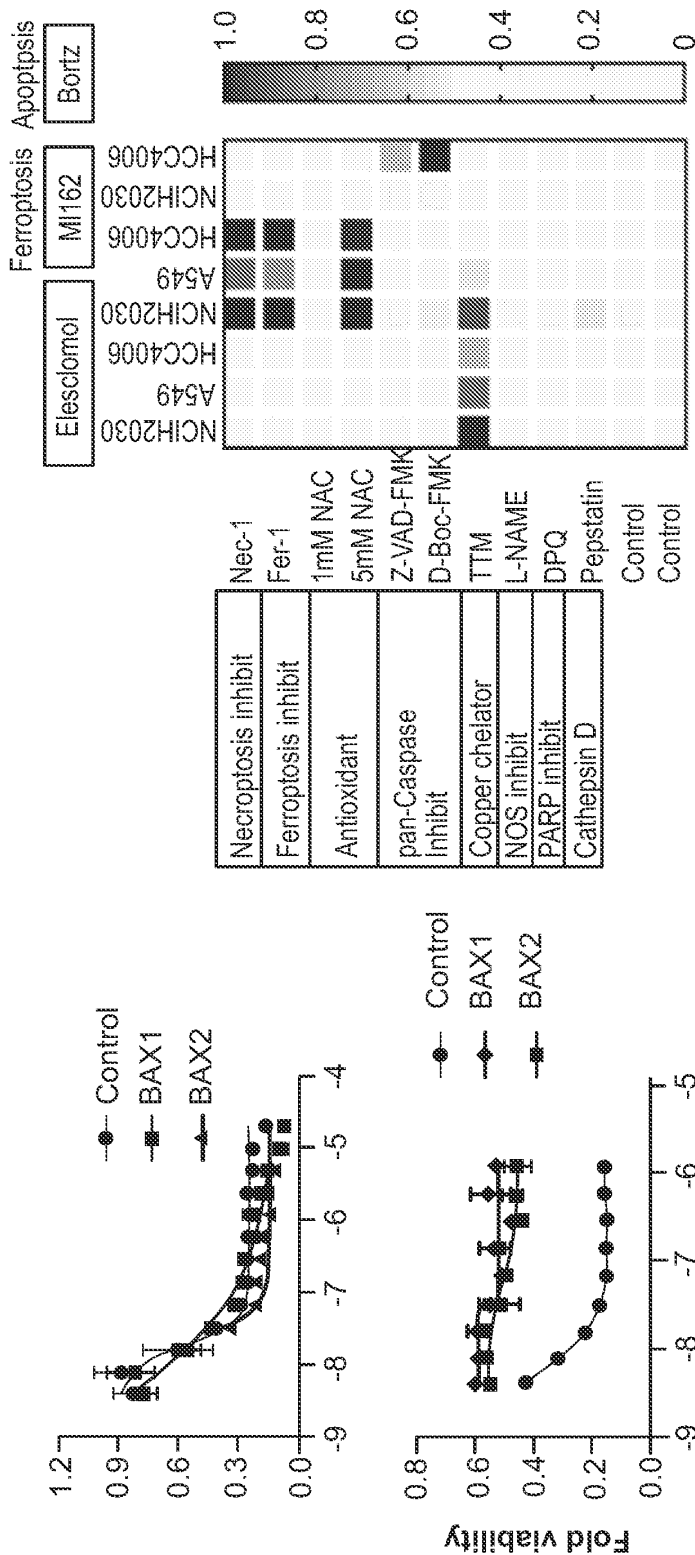
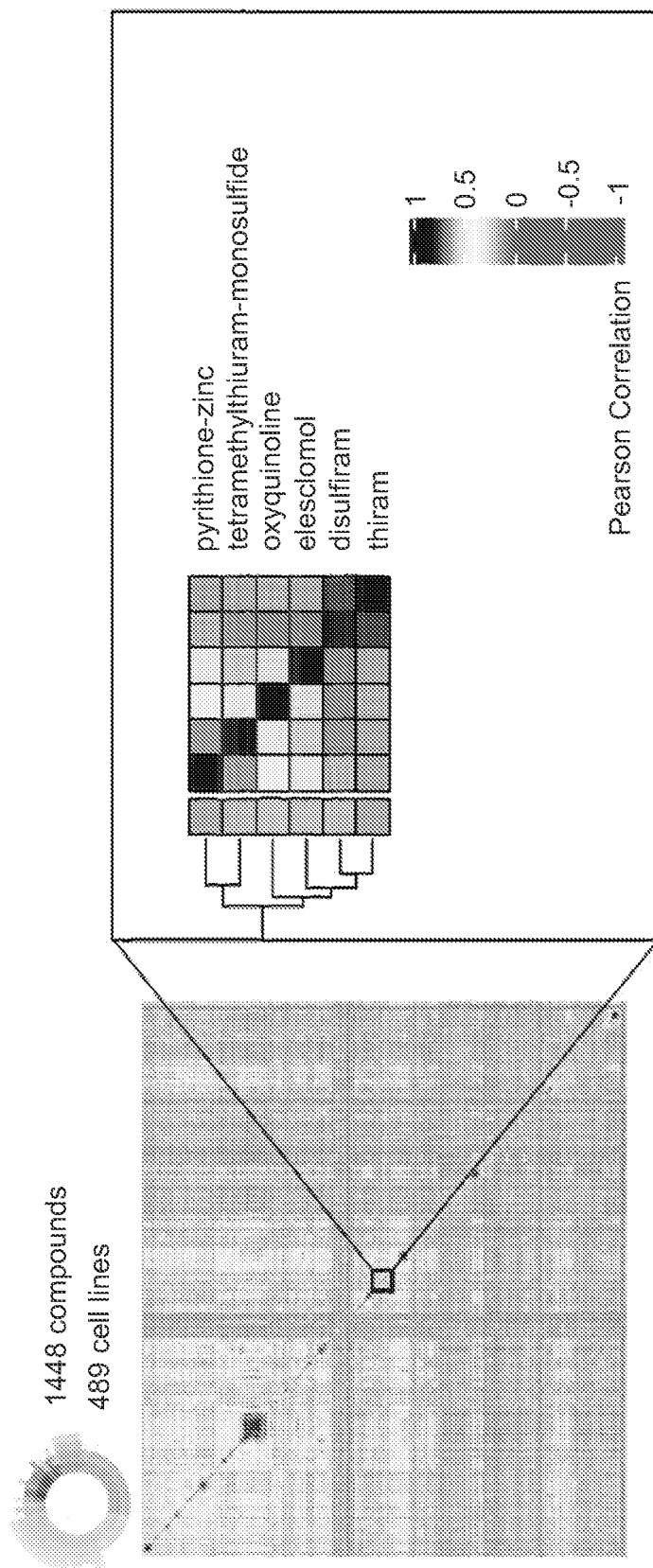


FIG. 12



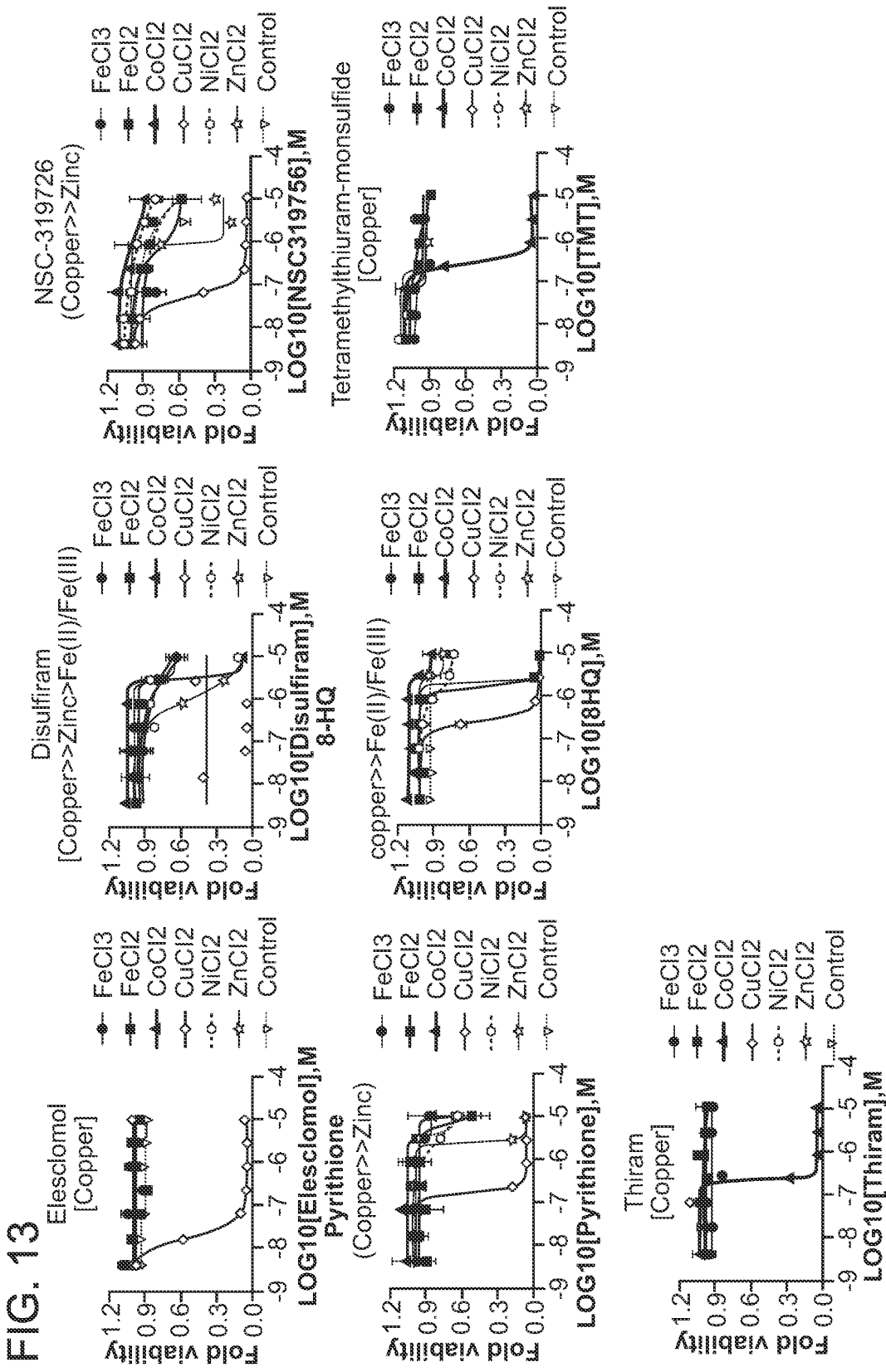


FIG. 14

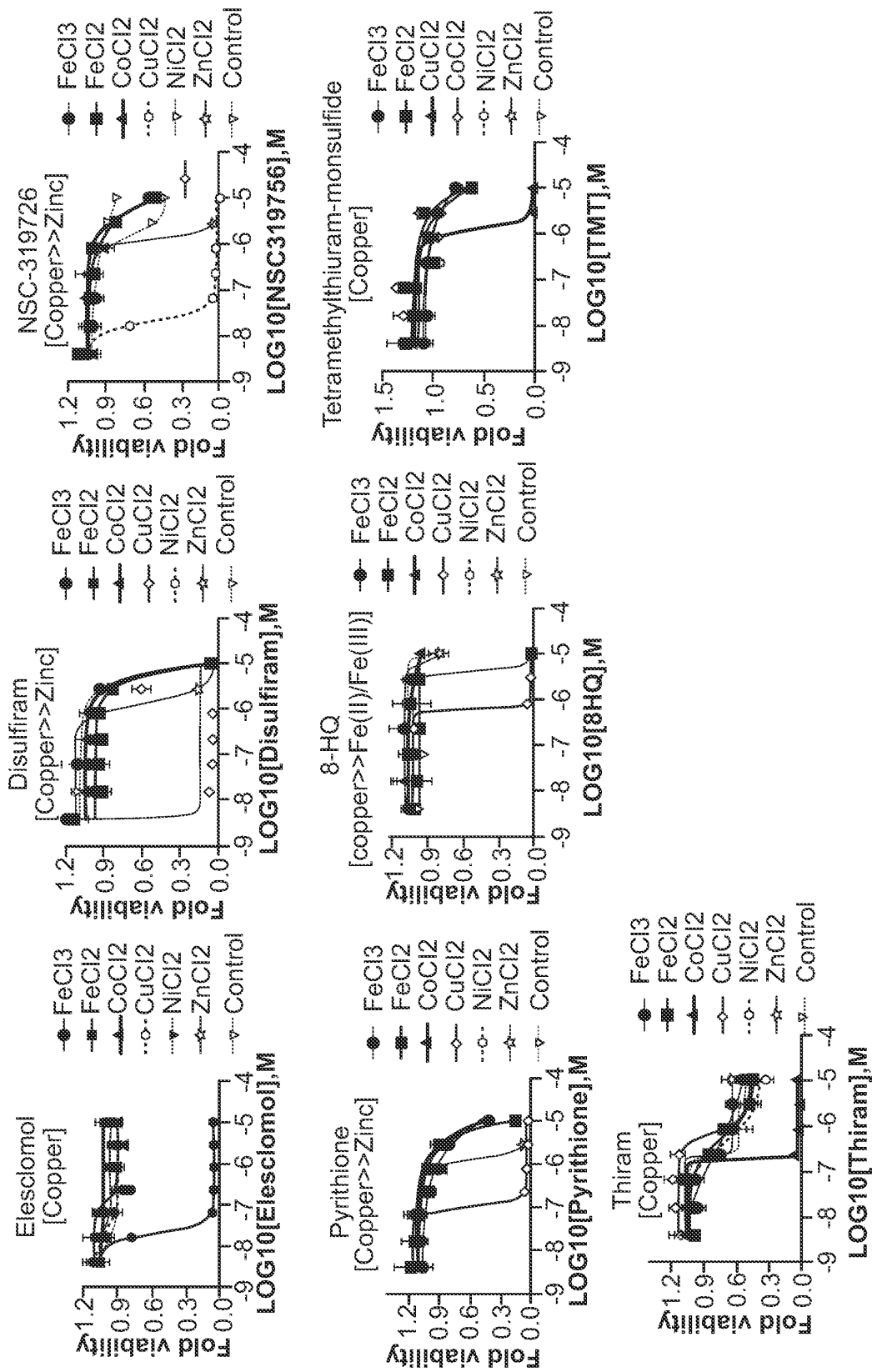


FIG. 15

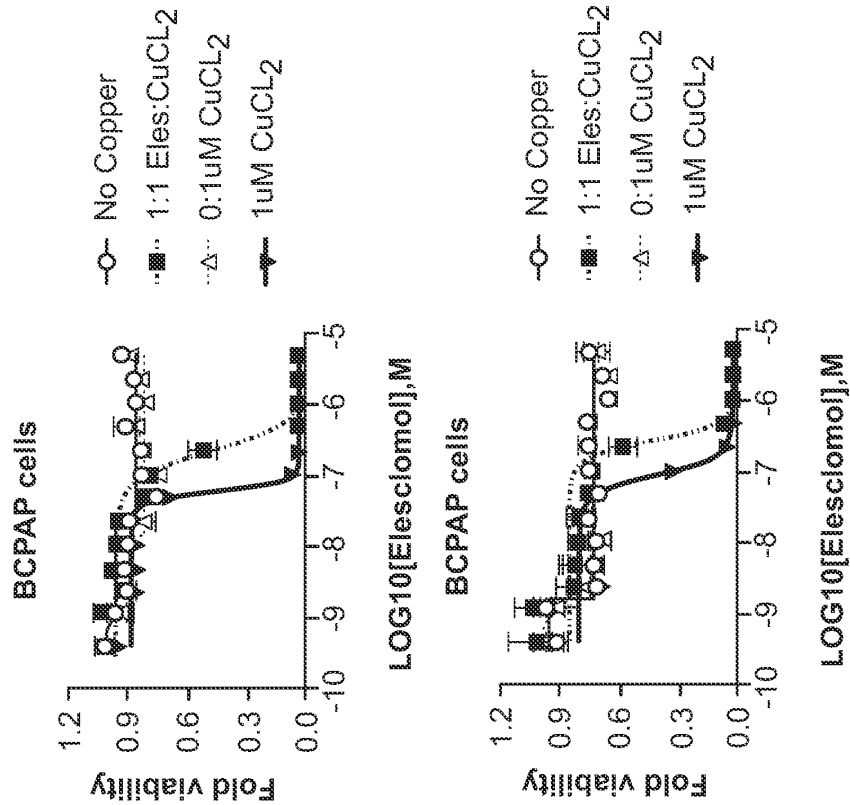


FIG. 16

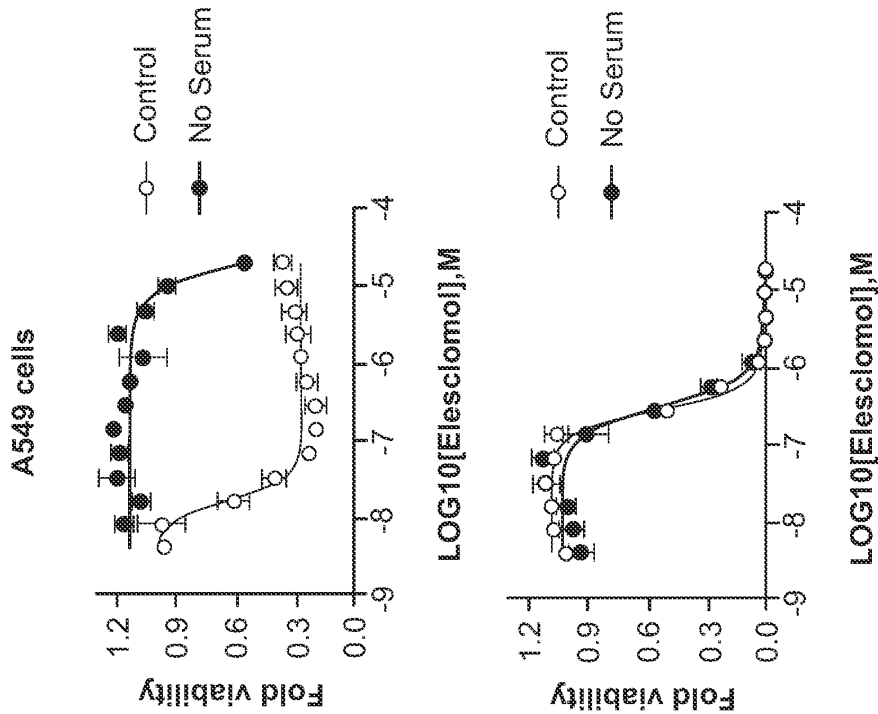


FIG. 17

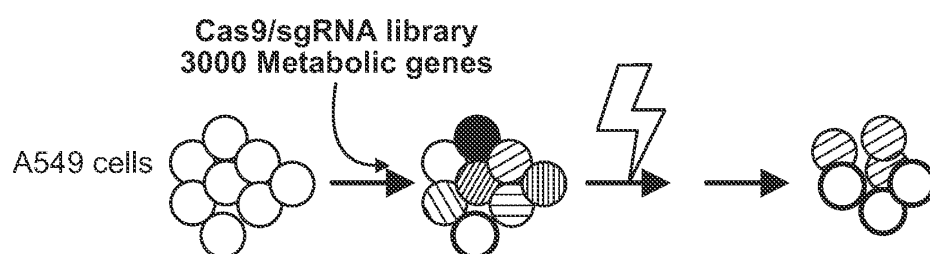


FIG. 18

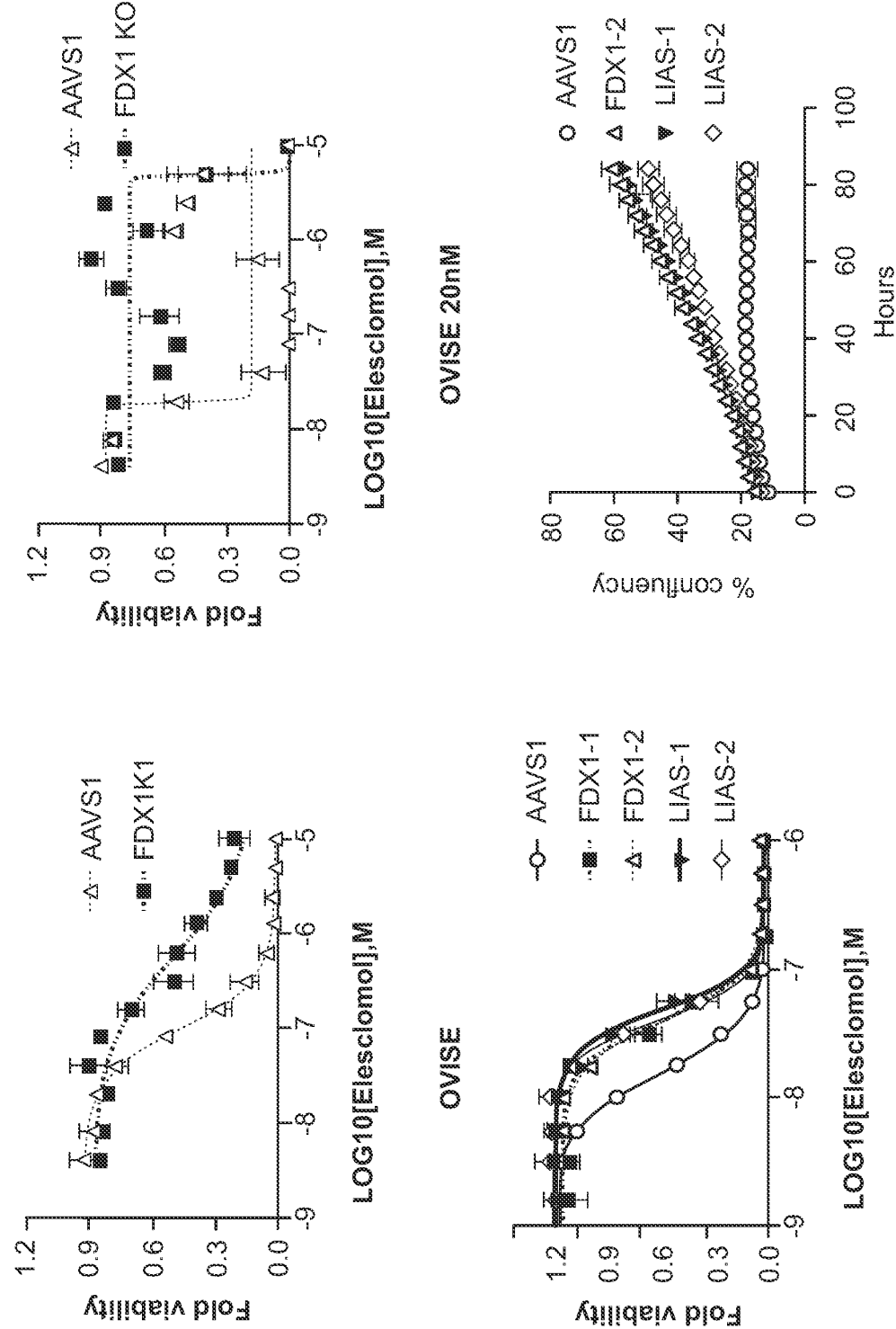


FIG. 19

Project Achilles

cell lines
genes
CRISPR KO

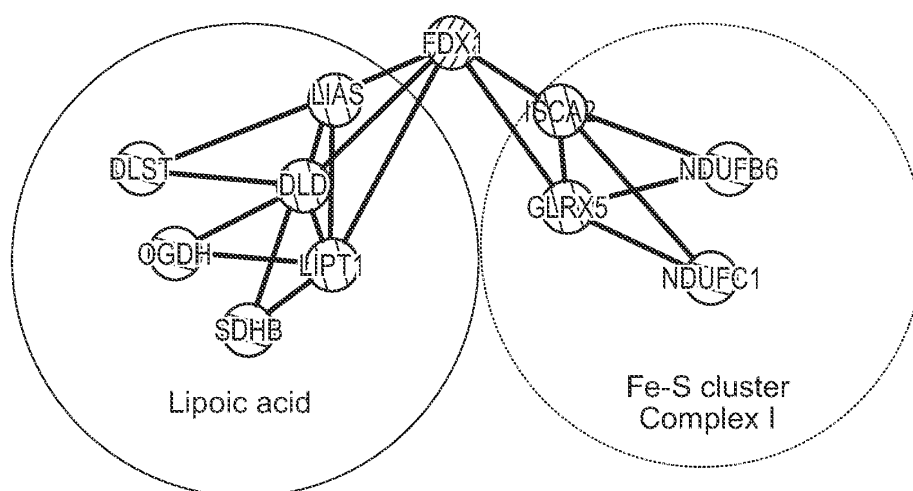
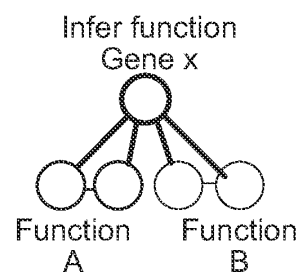
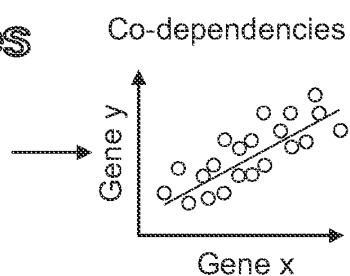


FIG. 20

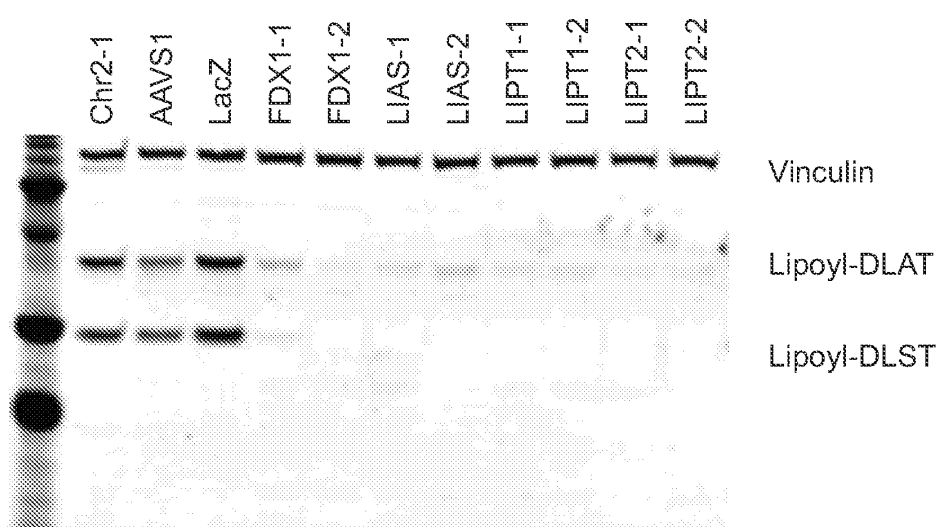


FIG. 21

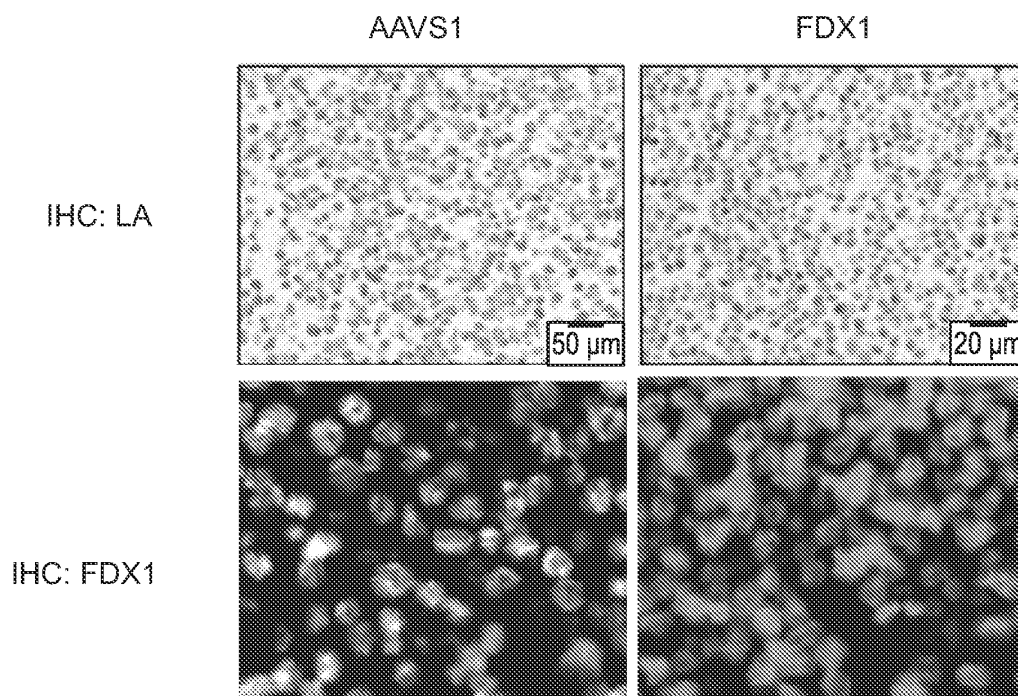


FIG. 22

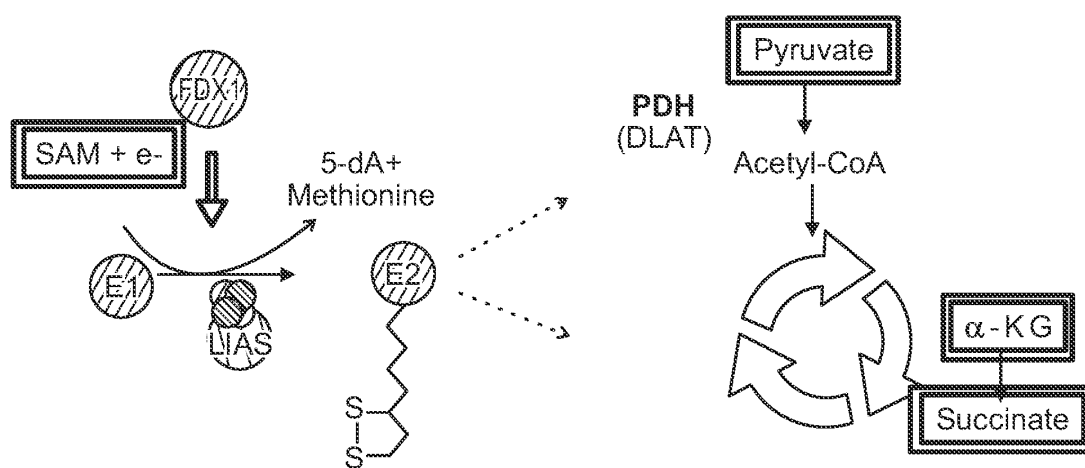


FIG. 23

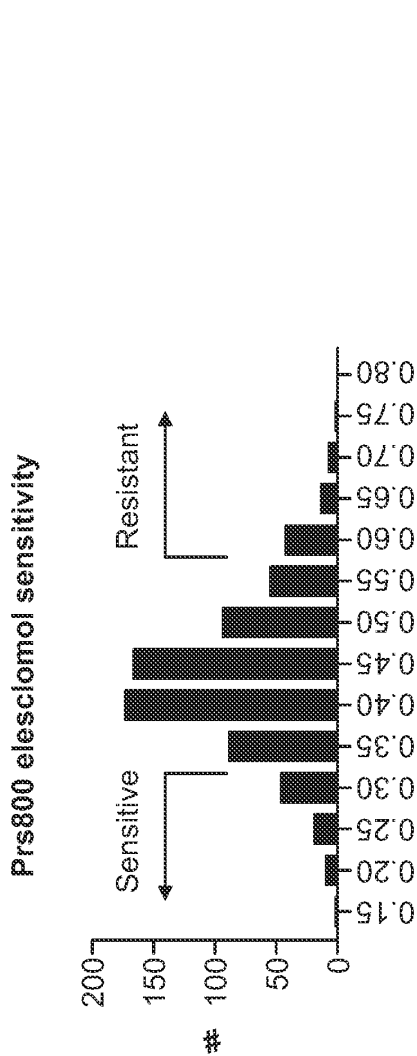


FIG. 24

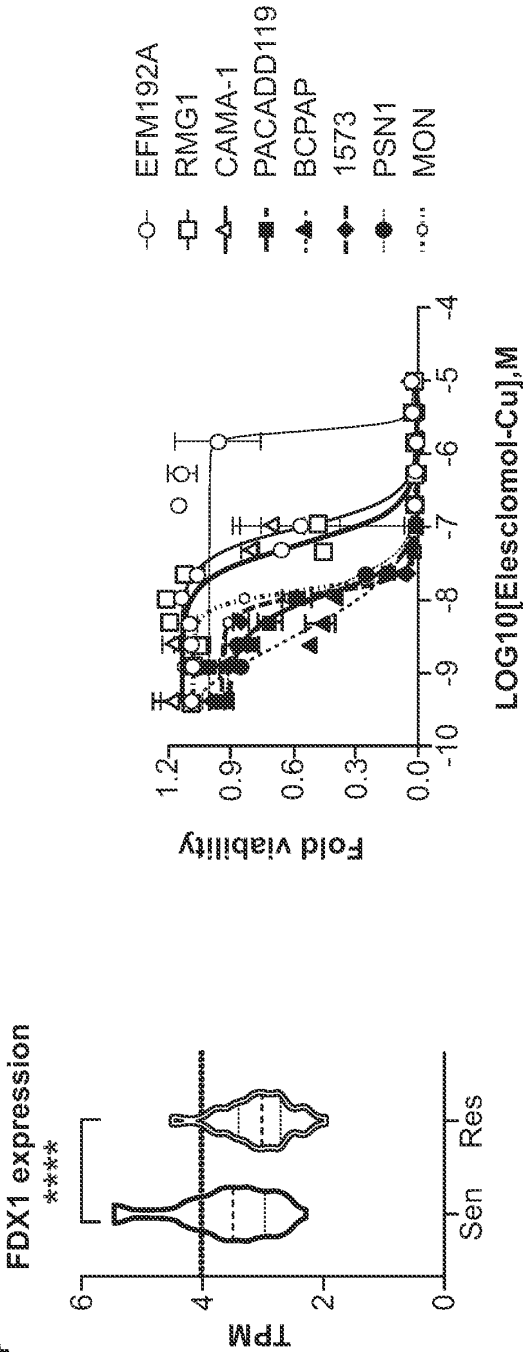


FIG. 25

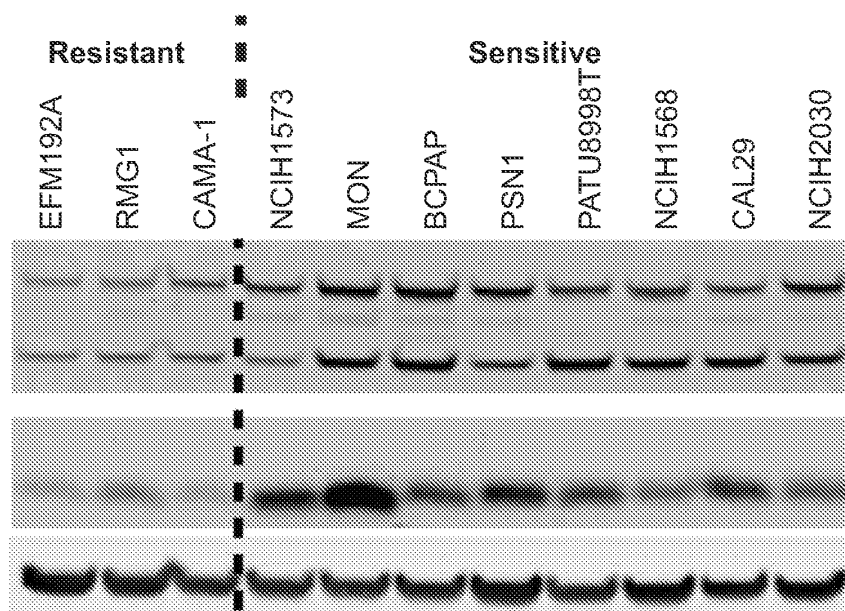


FIG. 26

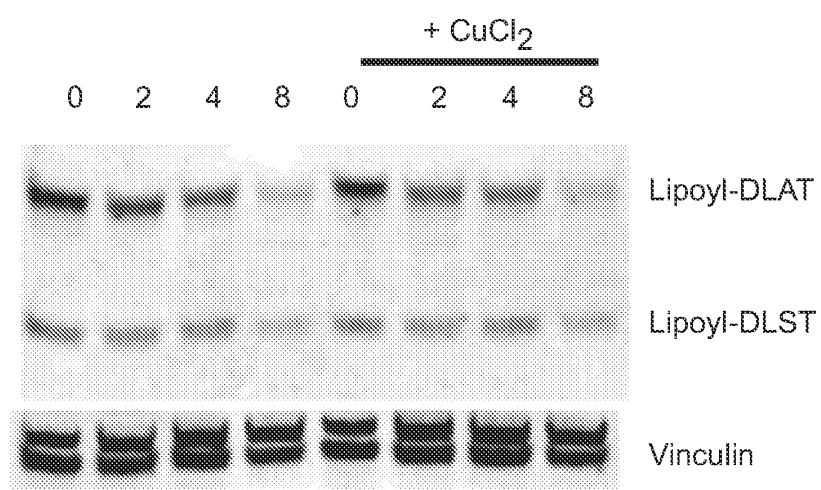


FIG. 27

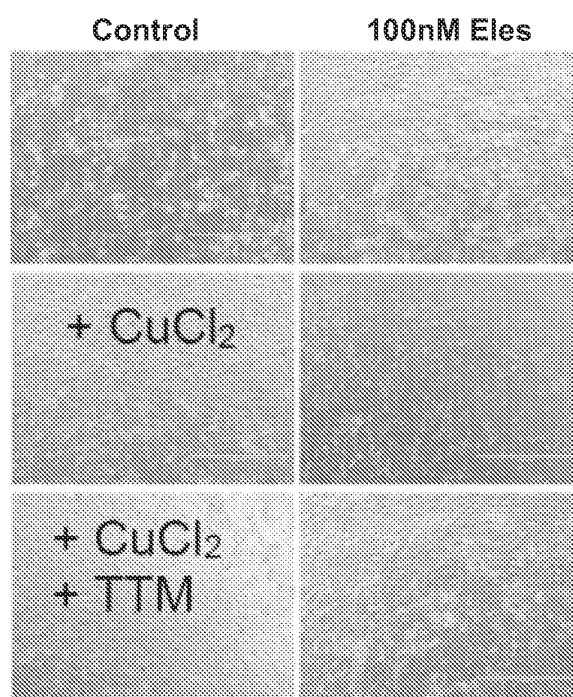


FIG. 28

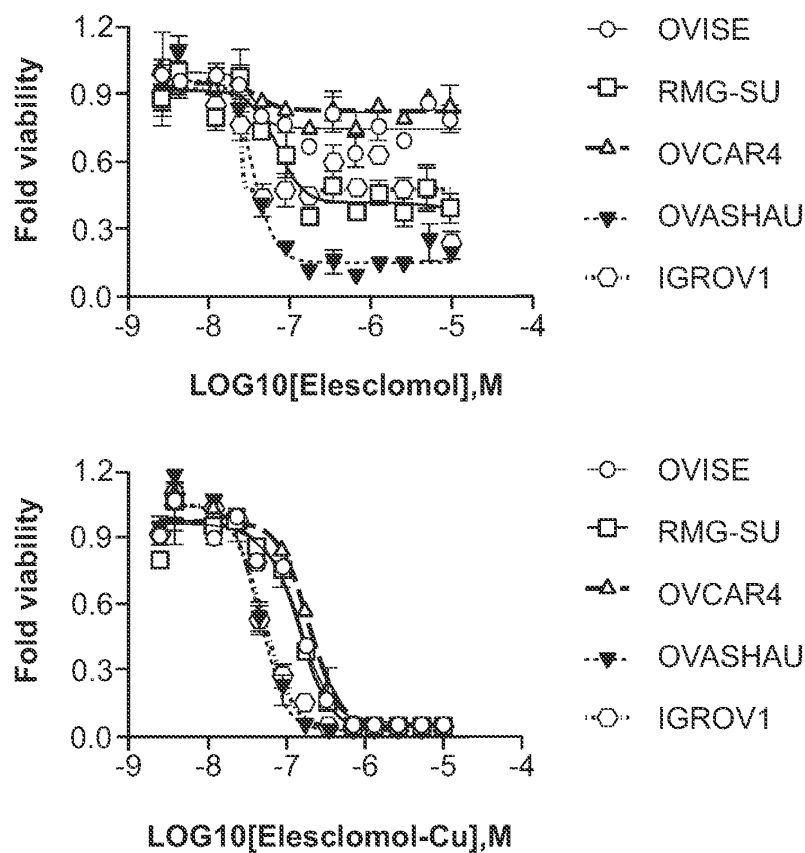


FIG. 29

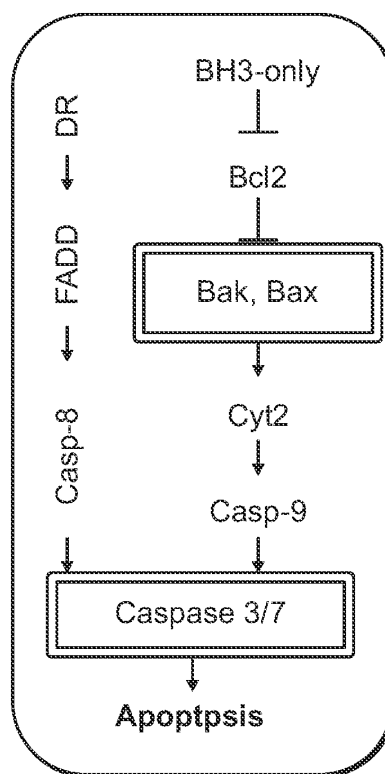


FIG. 30

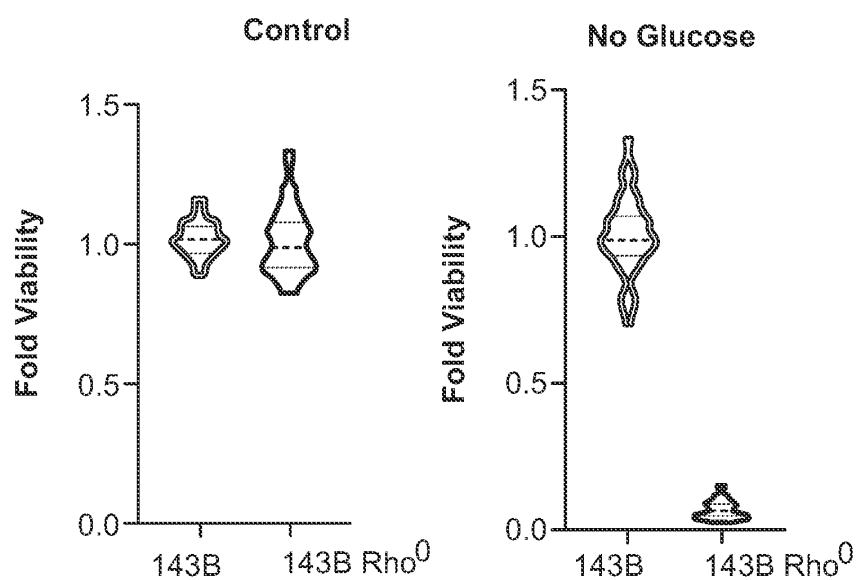


FIG. 31

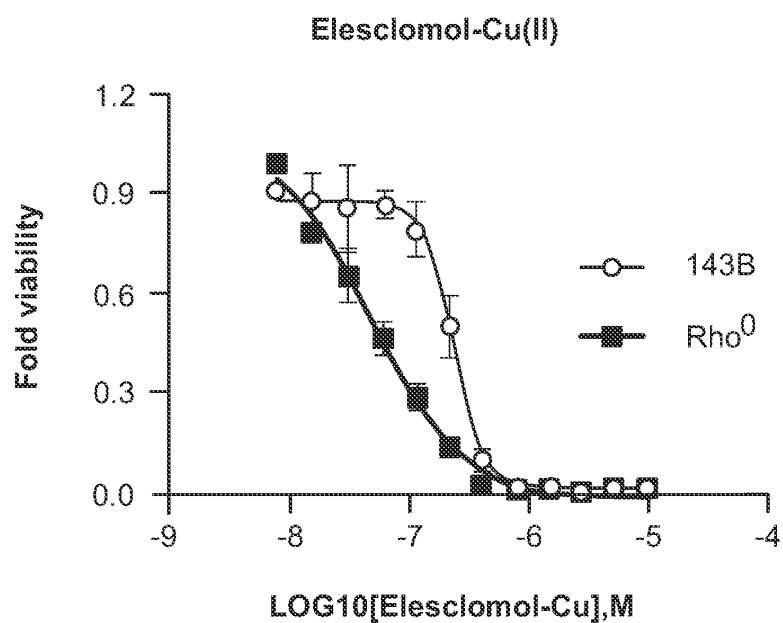
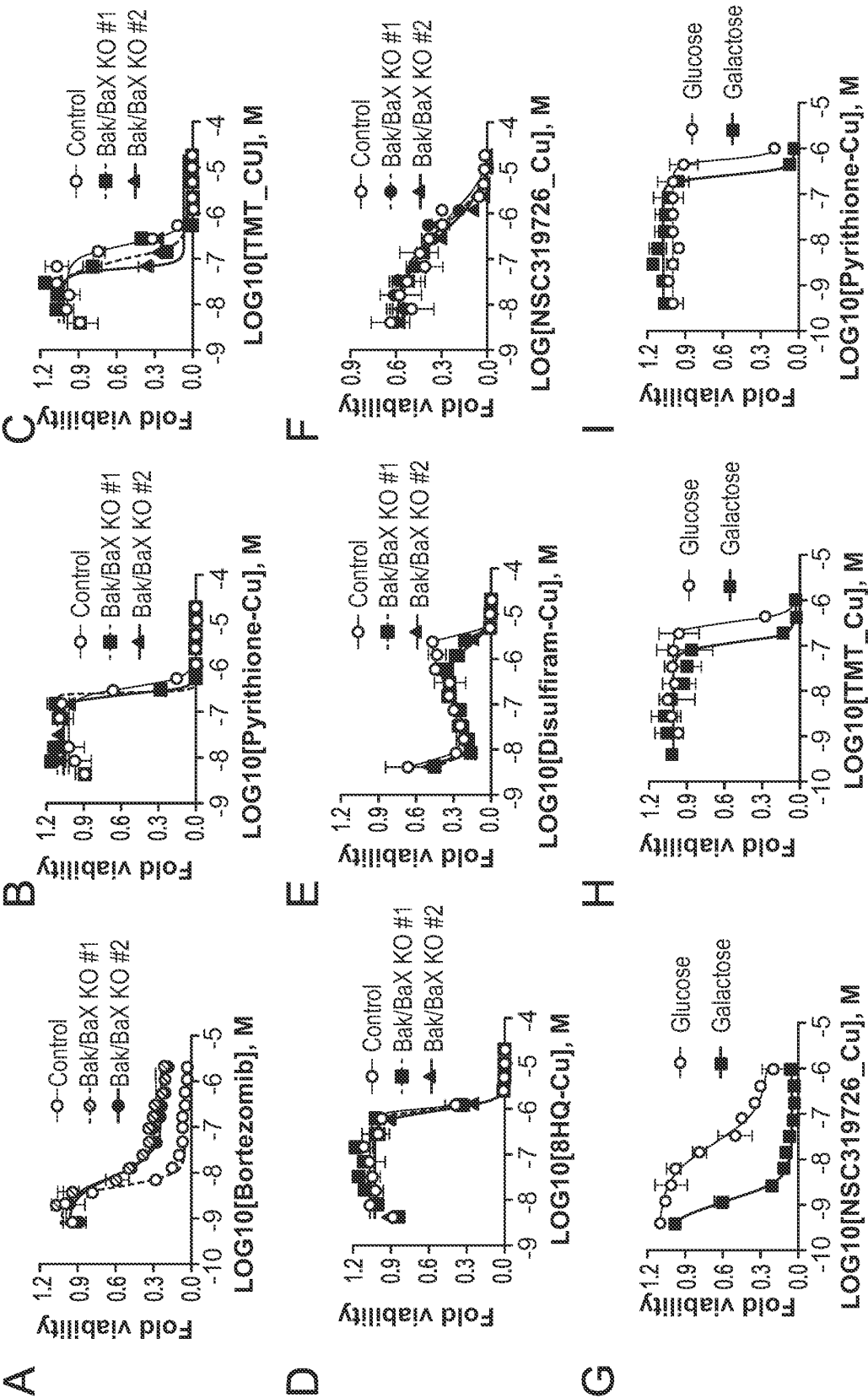


FIG. 32



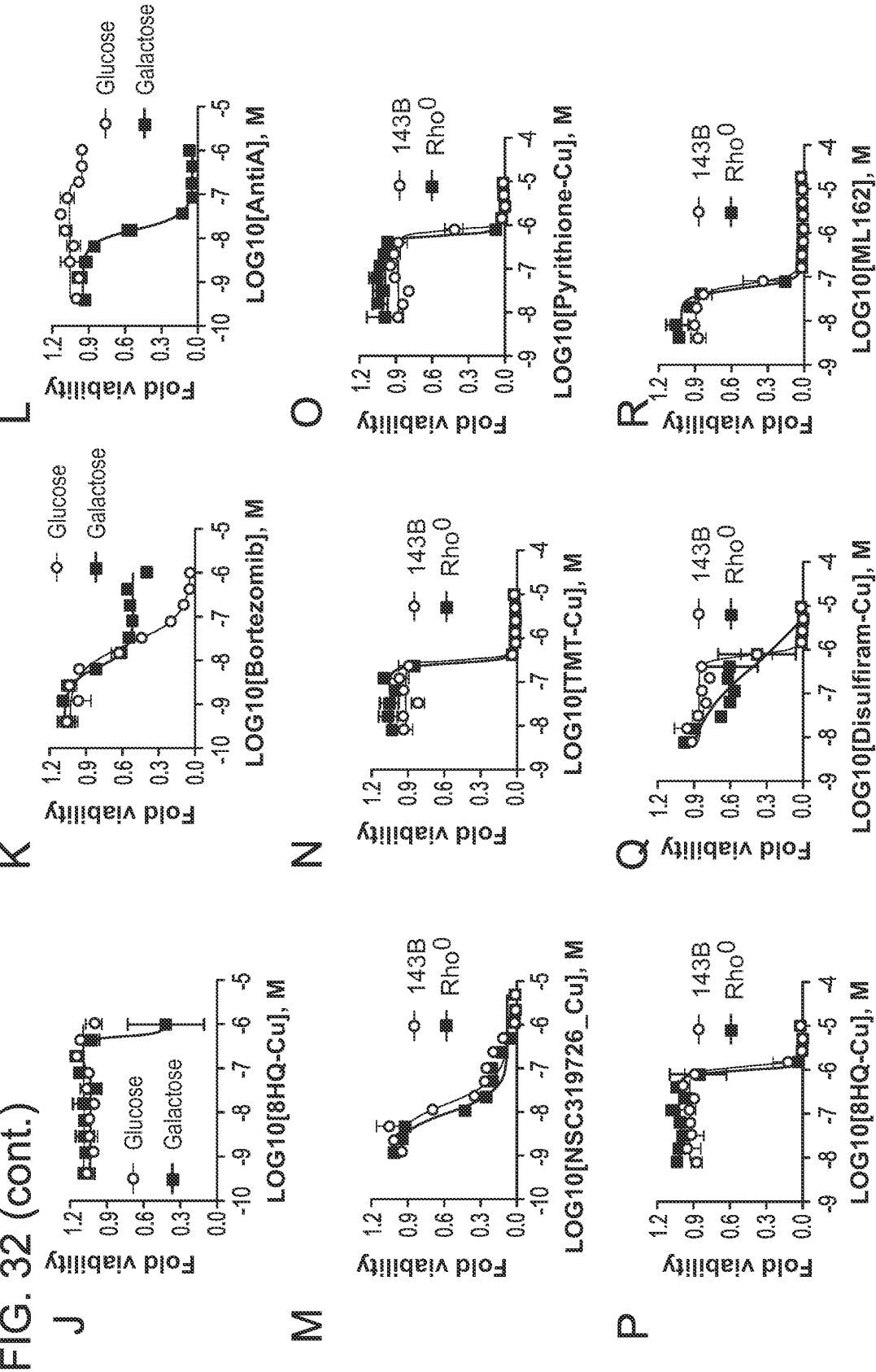


FIG. 32 (cont.)

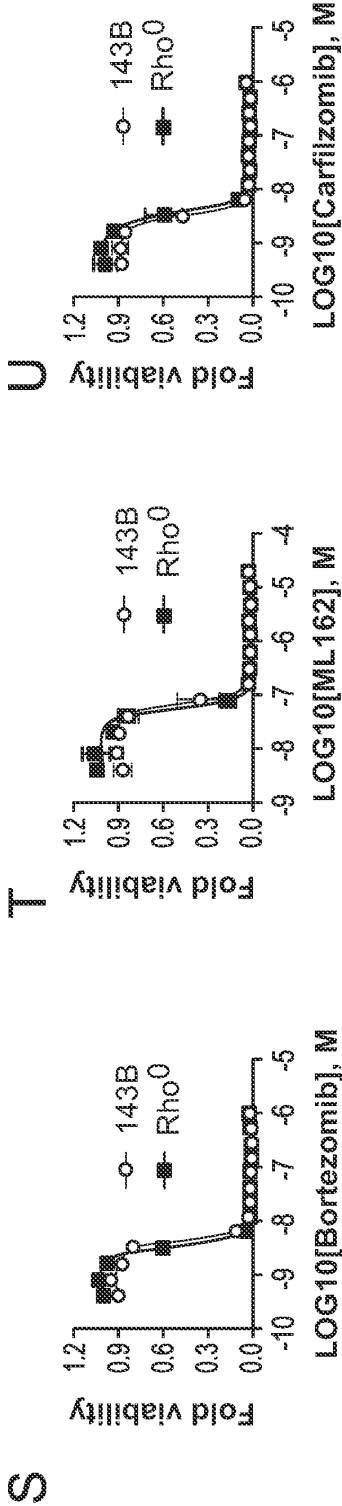


FIG. 33

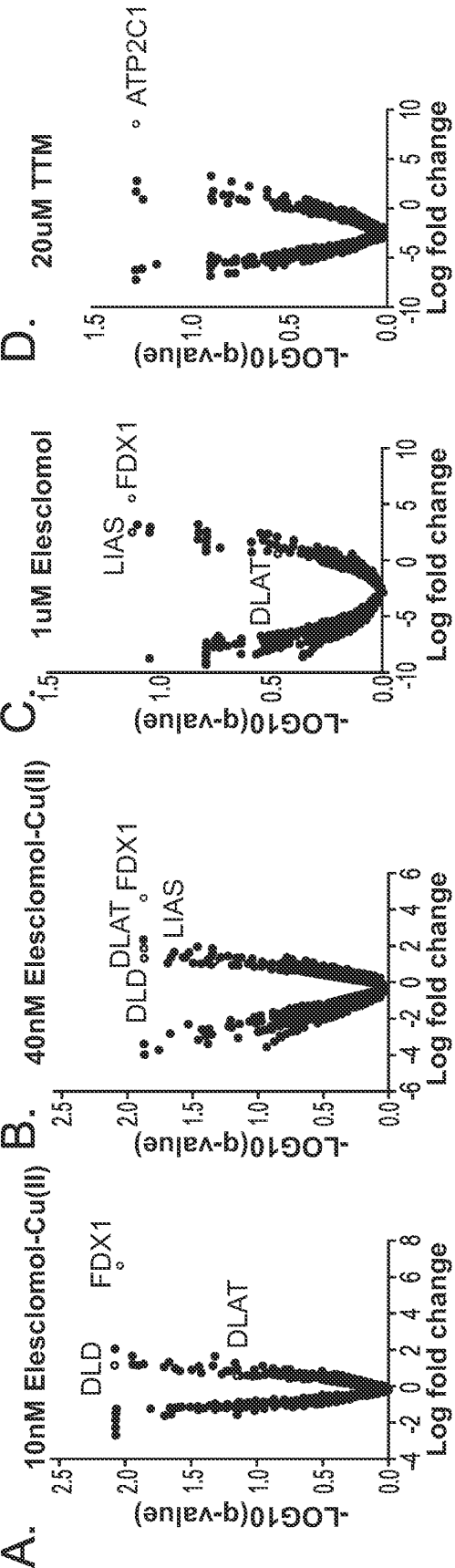


FIG. 34

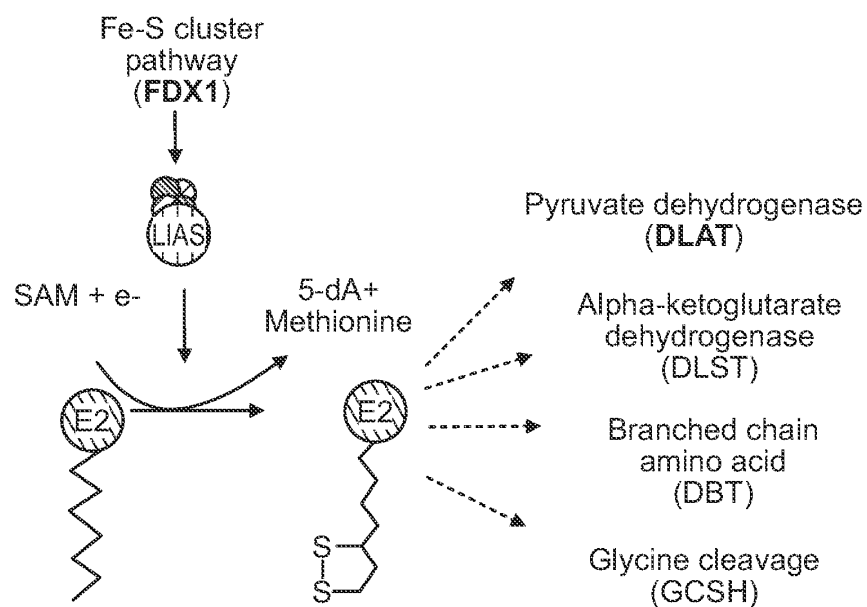


FIG. 35

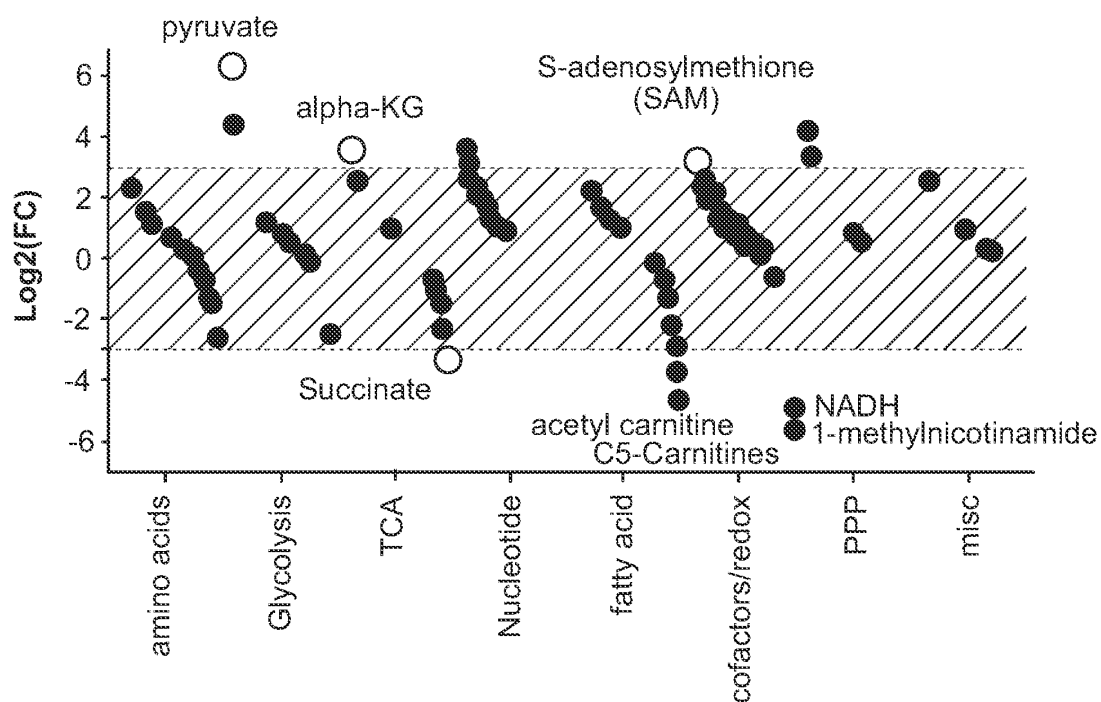


FIG. 36

Elesclomol (nM) - 10 40 100 200

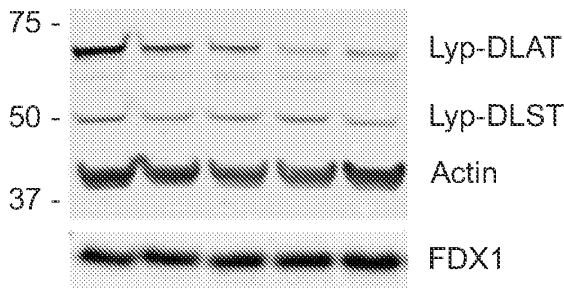


FIG. 37

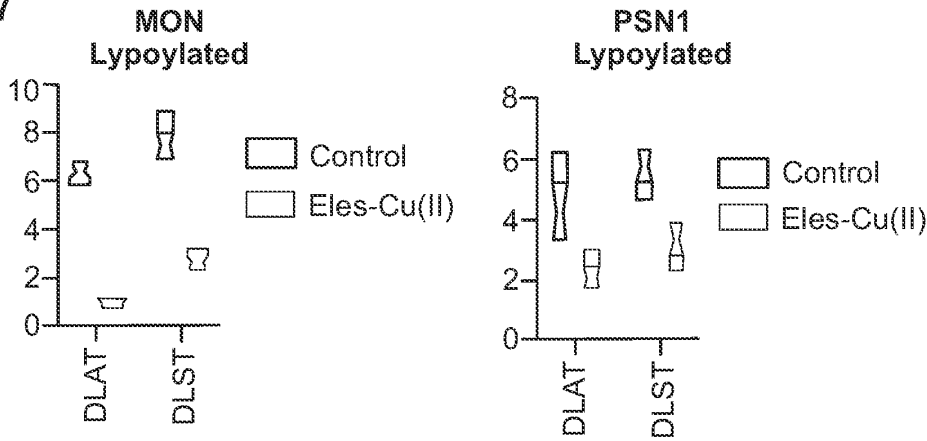


FIG. 38

CN-FDX1 Expression associations in TCGA

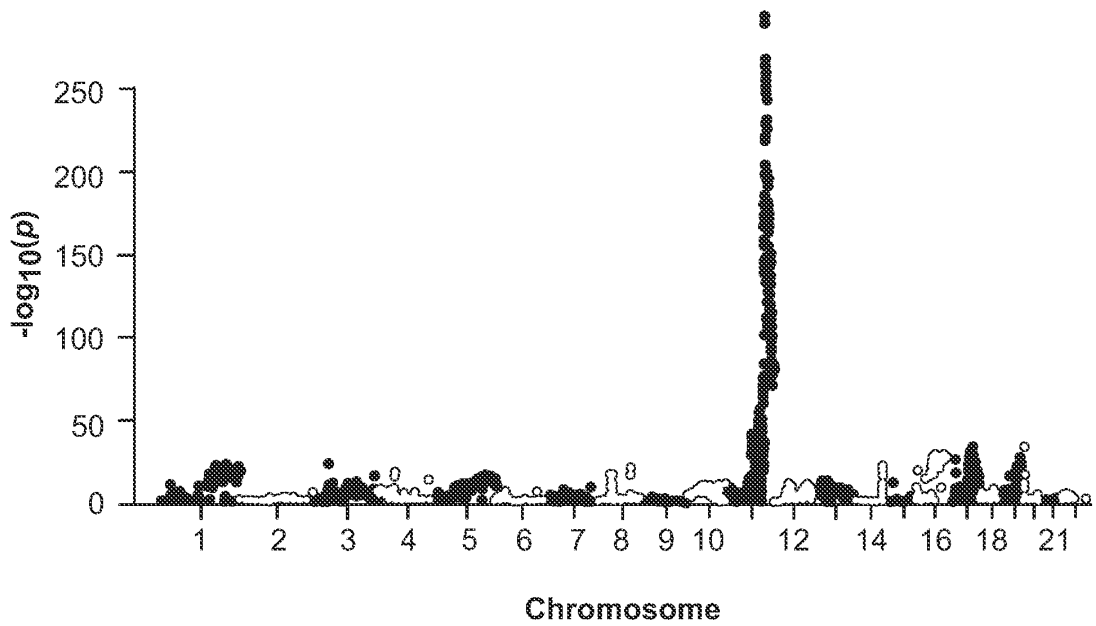


FIG. 39

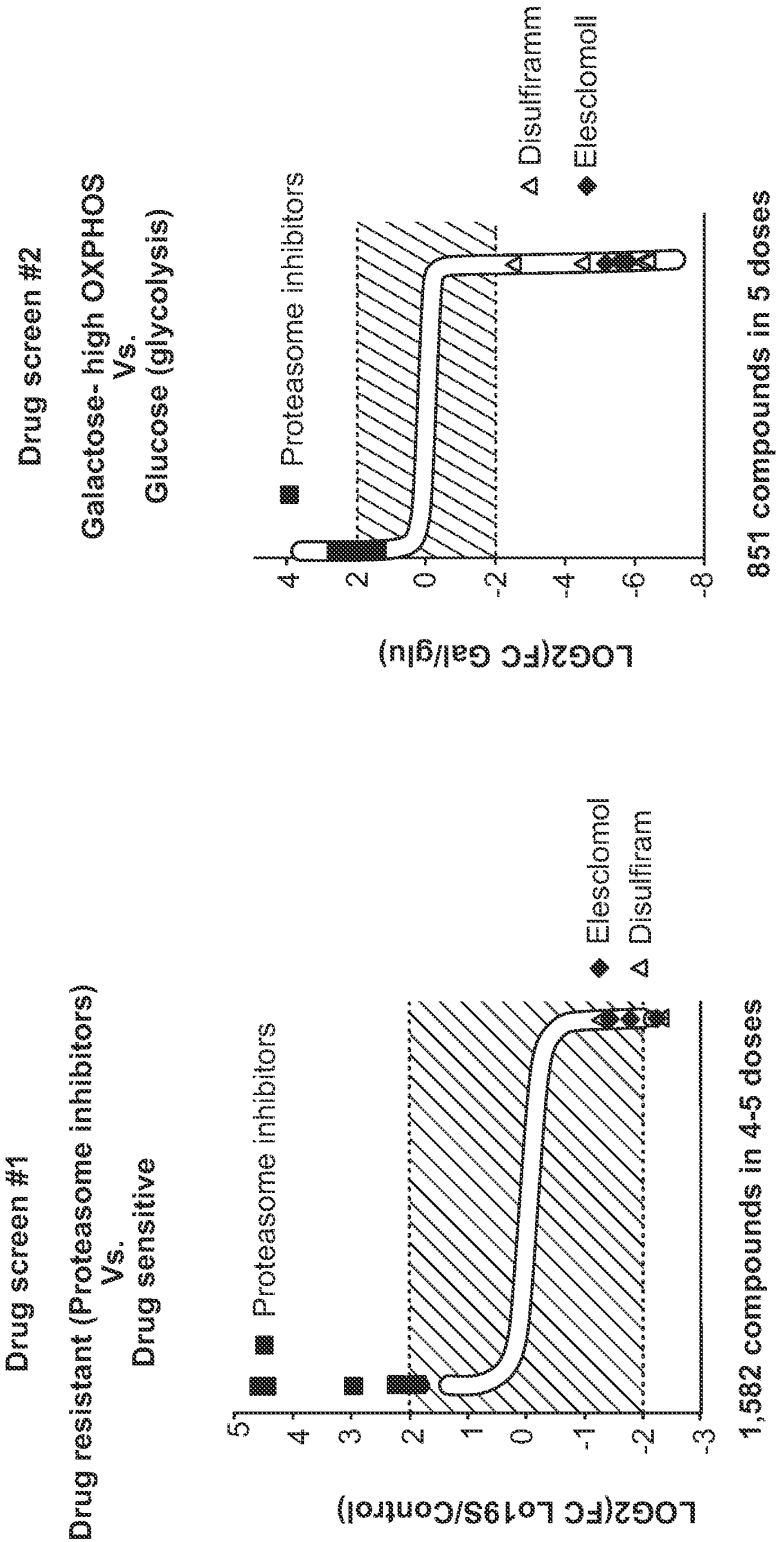
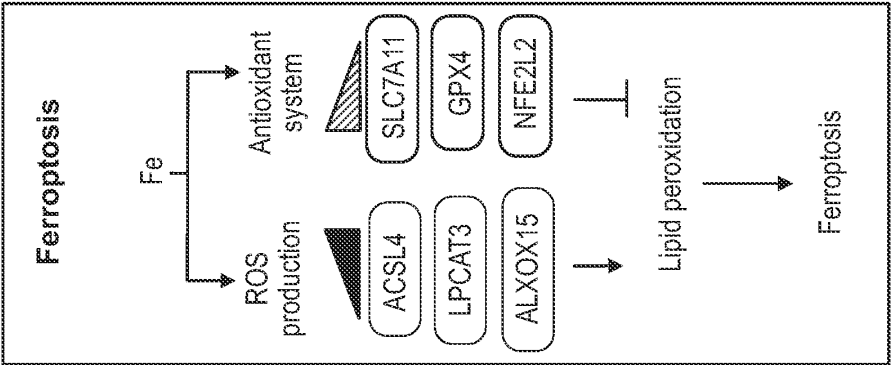
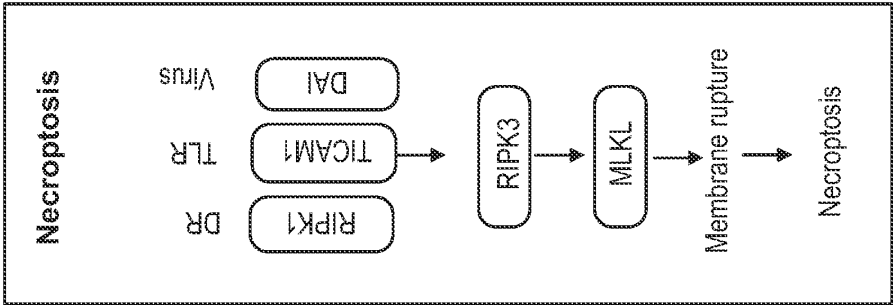
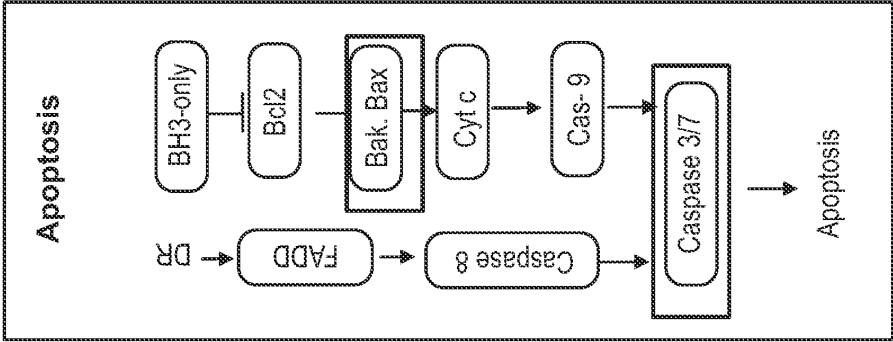


FIG. 40

Classic cell death pathway



New cell death pathway

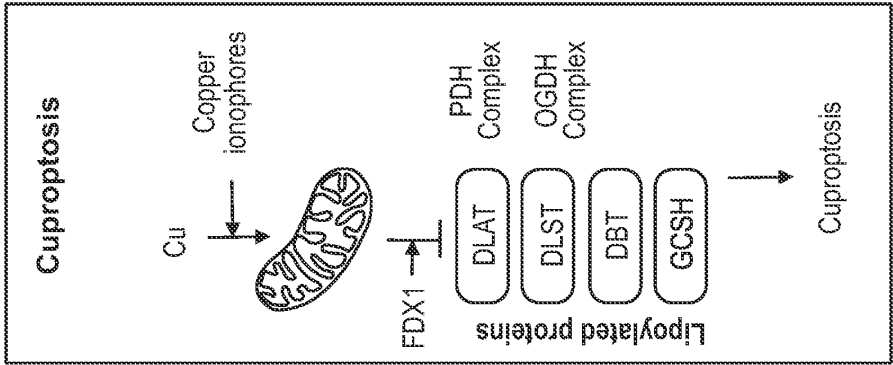


FIG. 41

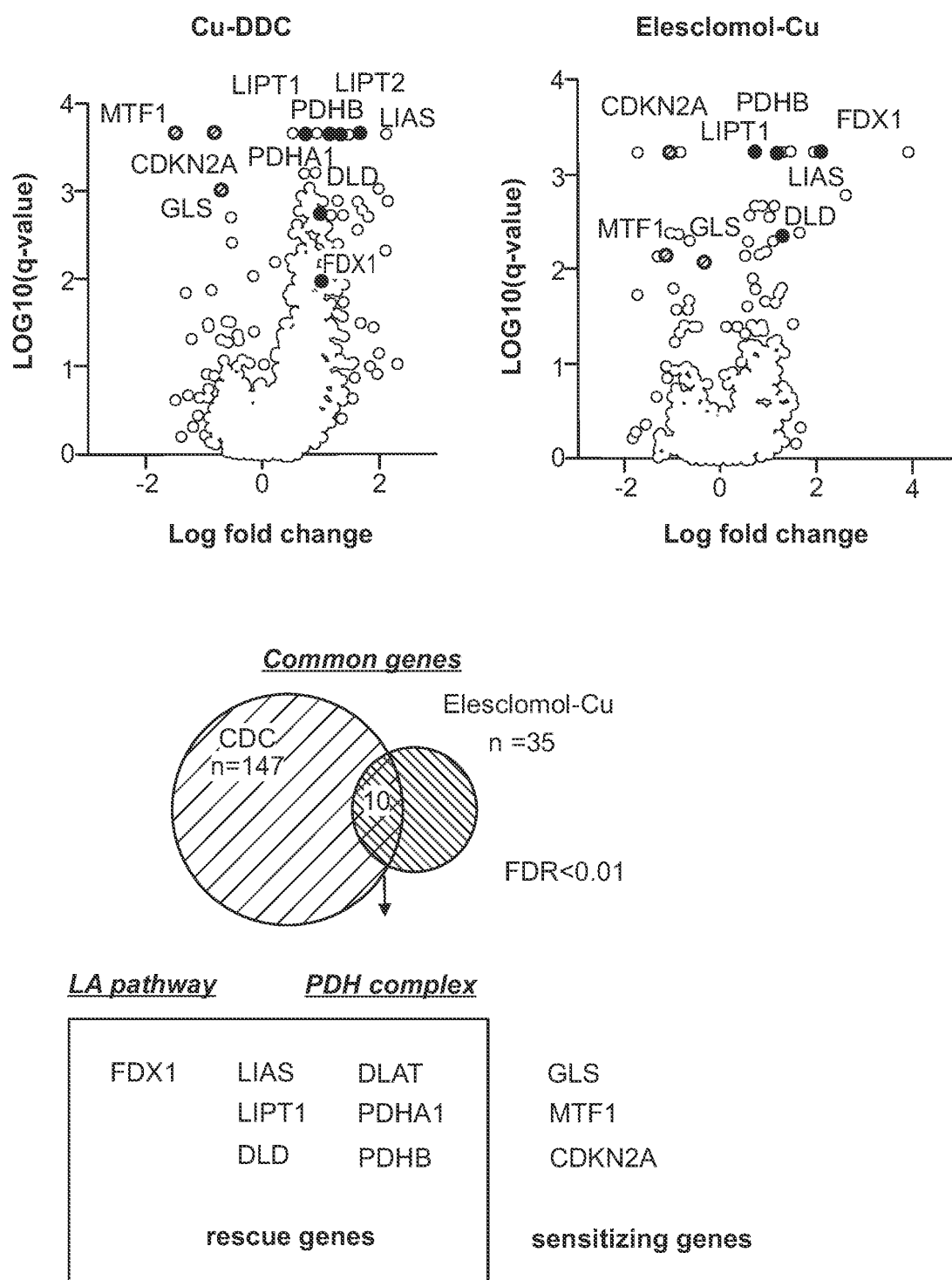


FIG. 42

Lipoylation is a covalent post-translational modification that attaches a lipoamide cofactor to a lysine residue, it is known to occur on only four mitochondrial metabolic enzymes in mammals and is crucial for their enzymatic function. Lipoylation itself, the proteins that add or remove the modification, as well as the proteins it decorates are all evolutionarily conserved from bacteria to humans, highlighting the importance of this essential cofactor.

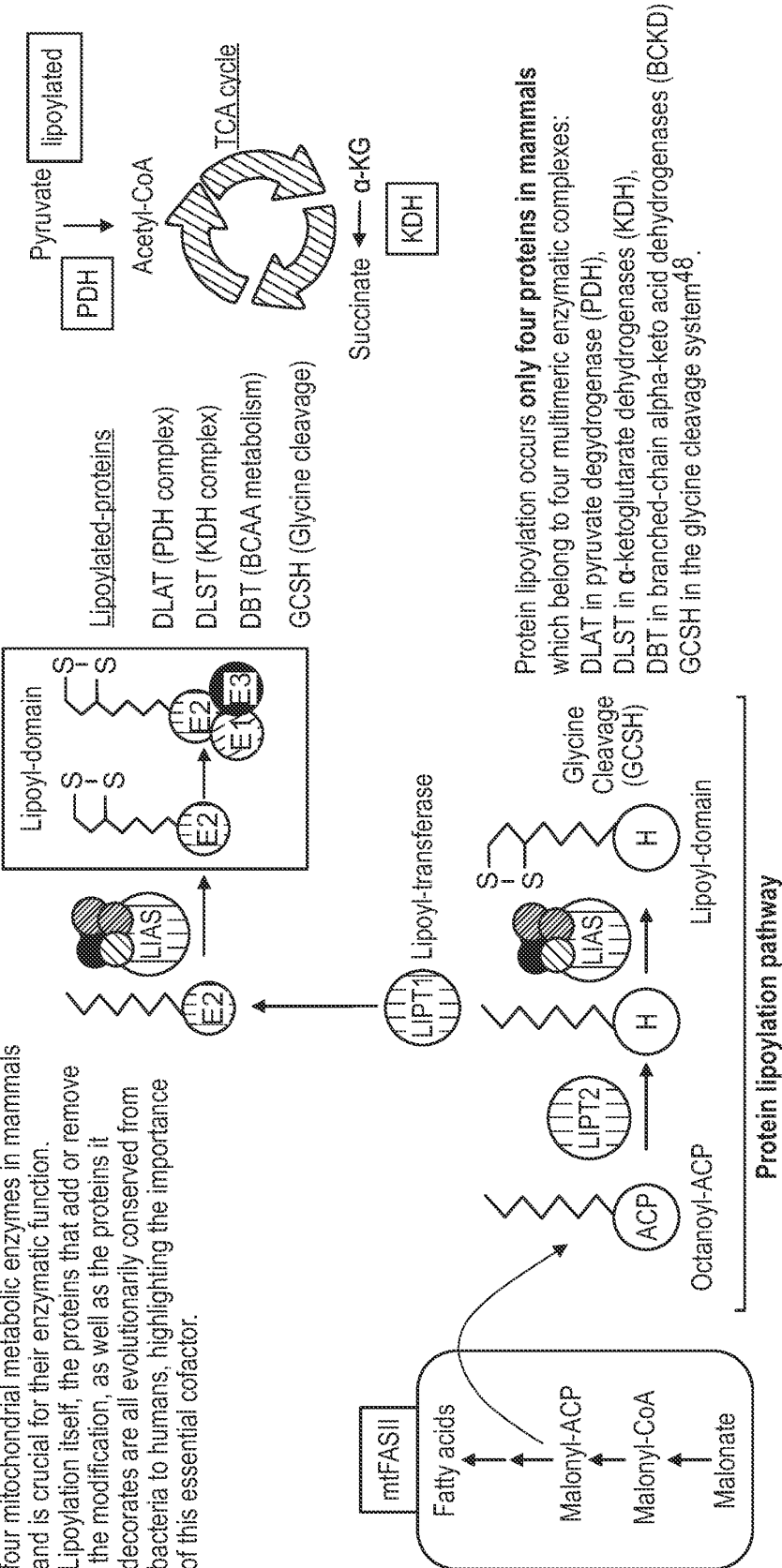


FIG. 44

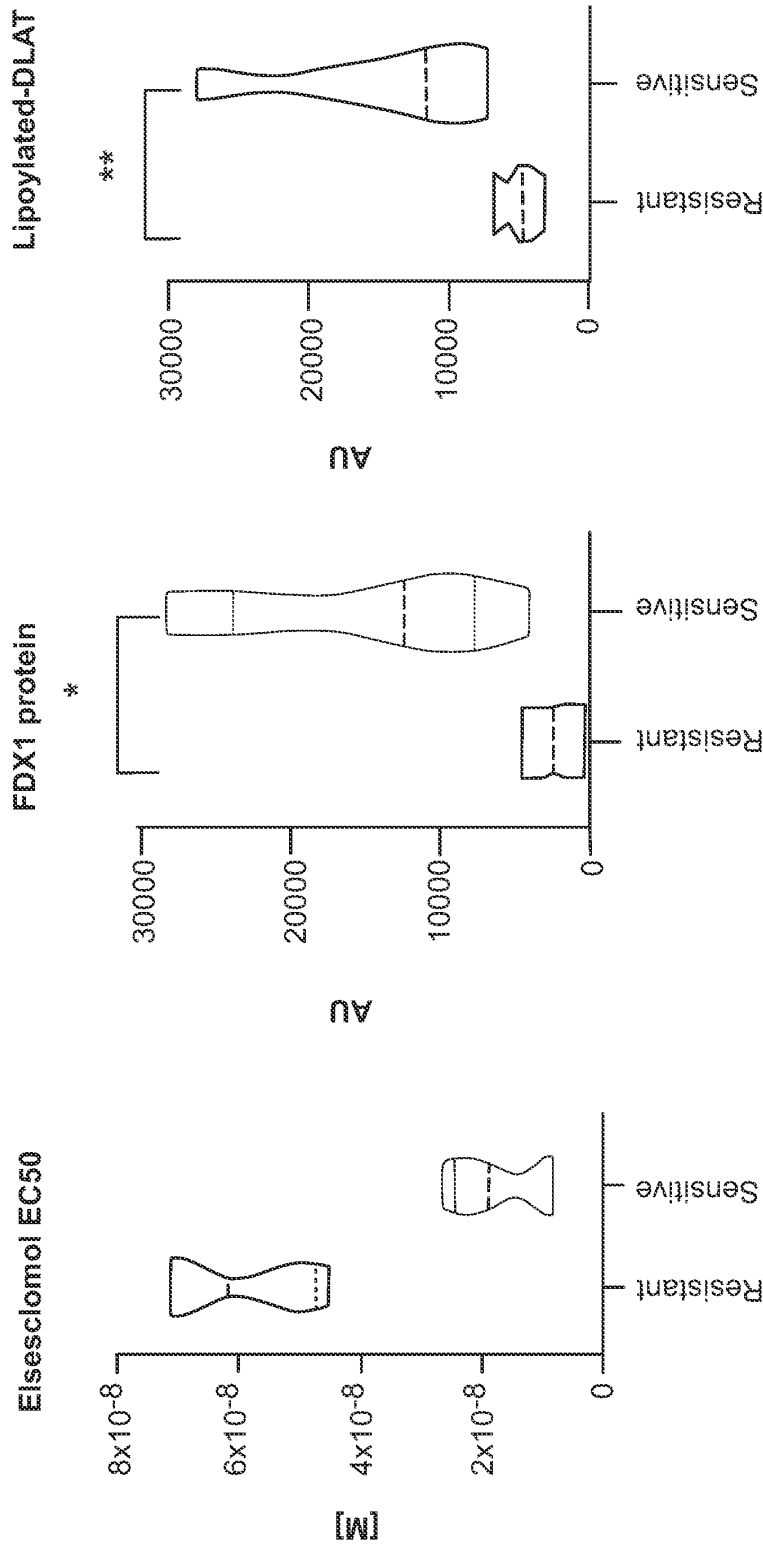


FIG. 45

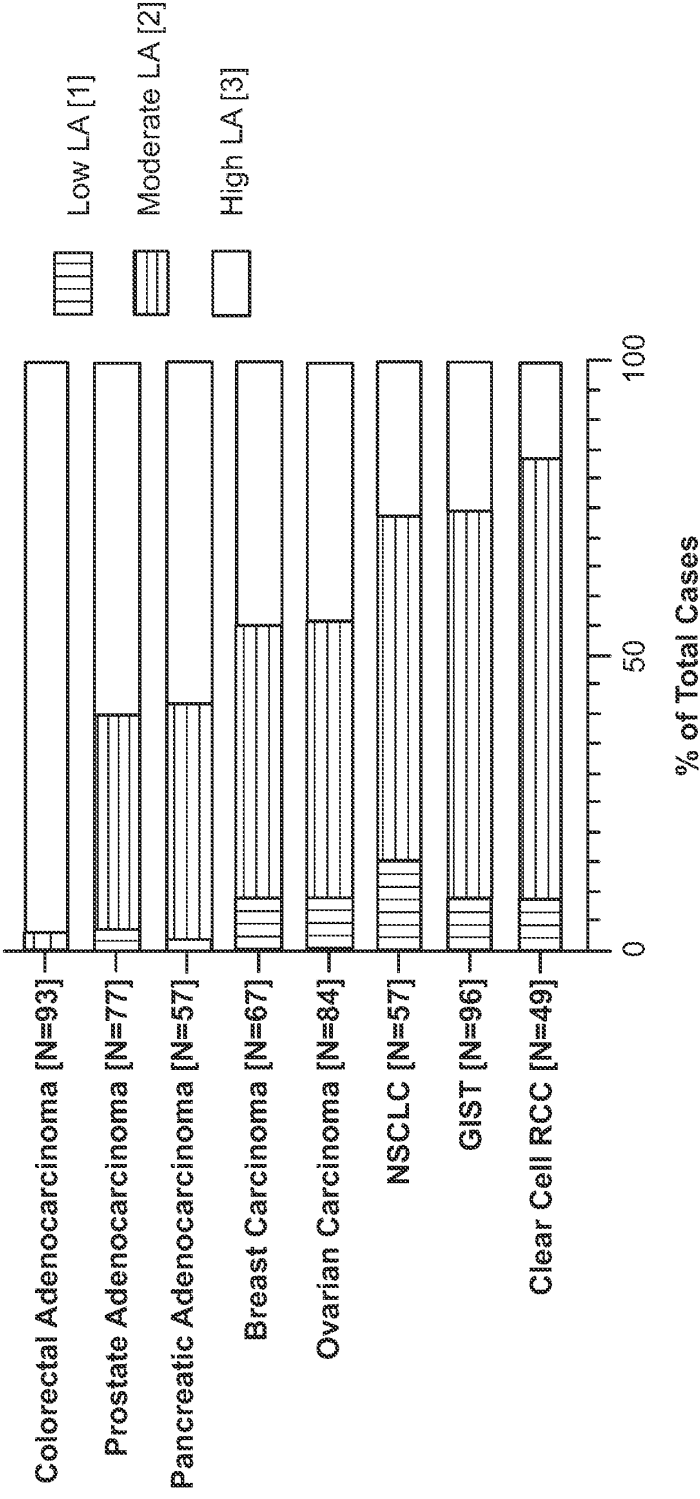


FIG. 46

Gastrointestinal Stromal Tumor [GIST]

Protein lipoylation Low

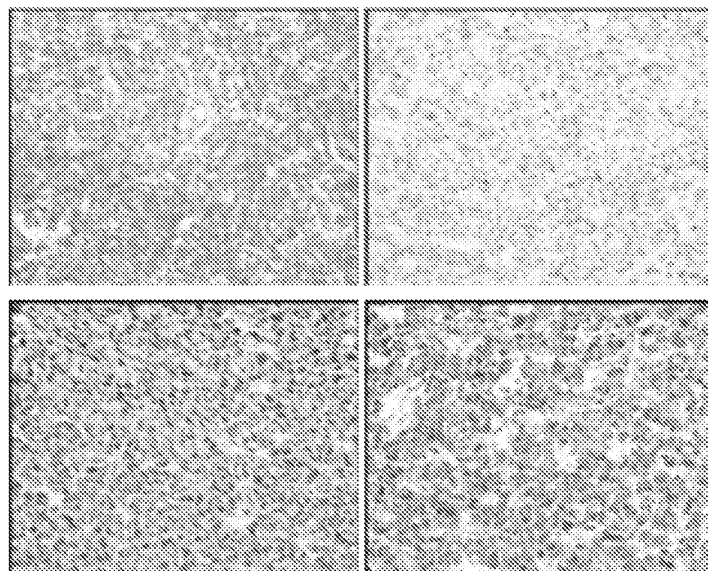
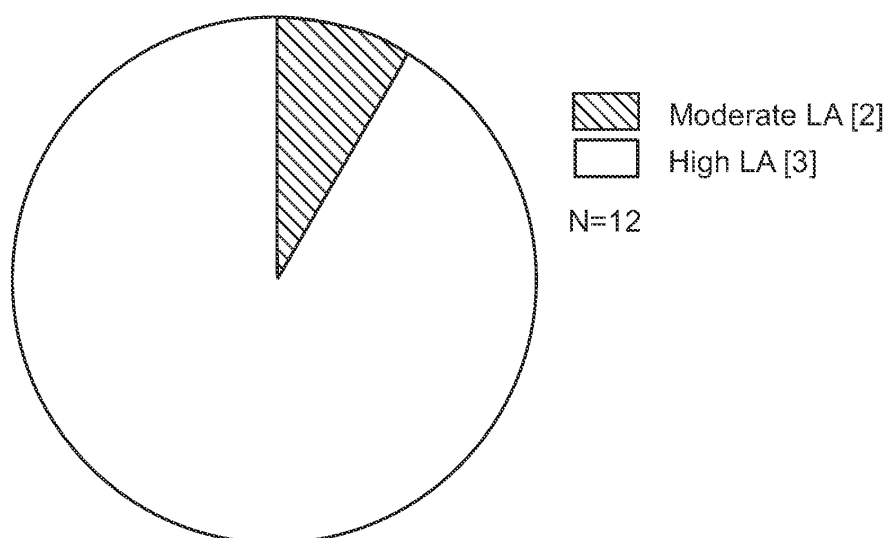
Protein lipoylation High
SDH-deficient**SDH (succinate dehydrogenases) deficient-GIST**

FIG. 47

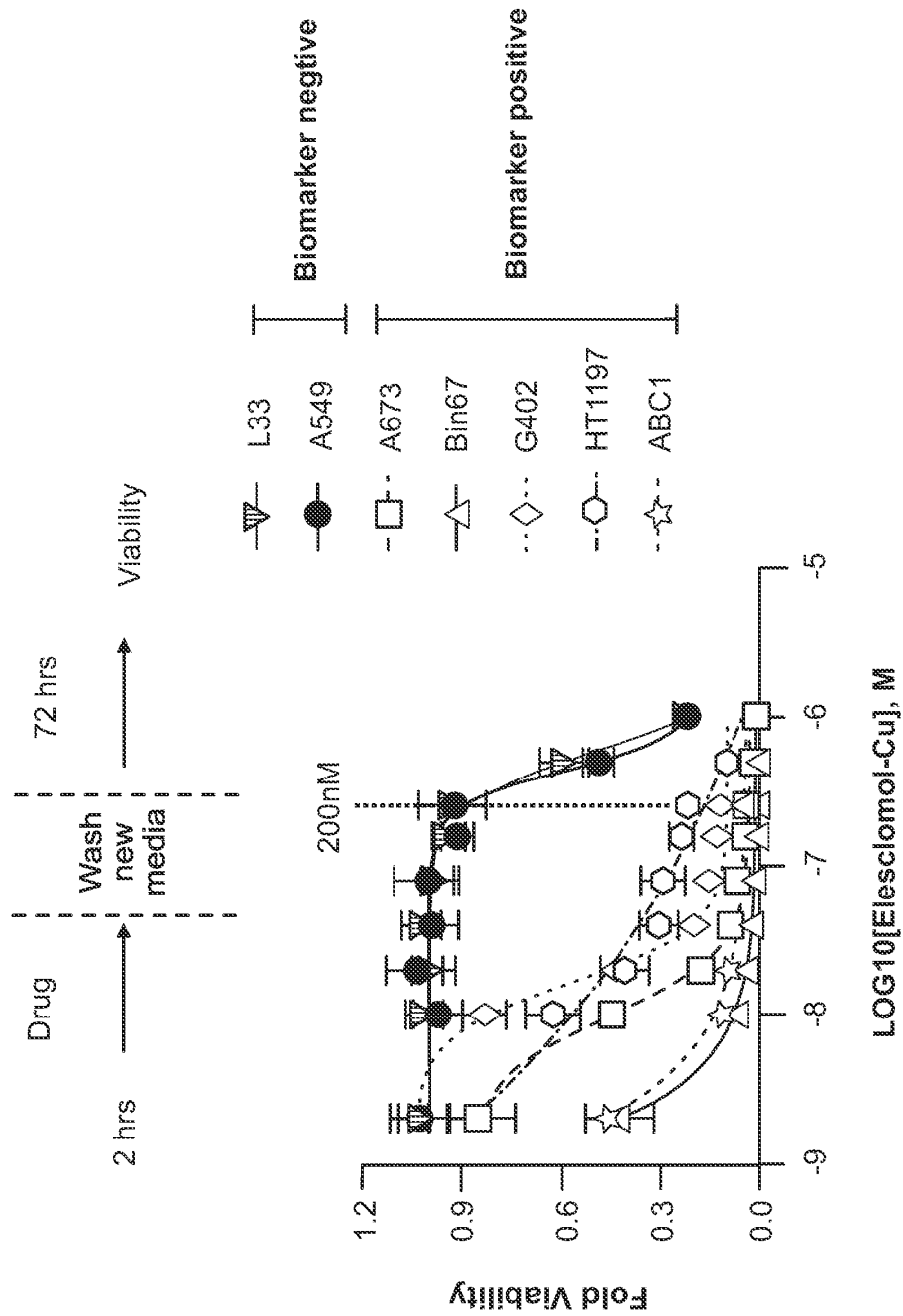


FIG. 48

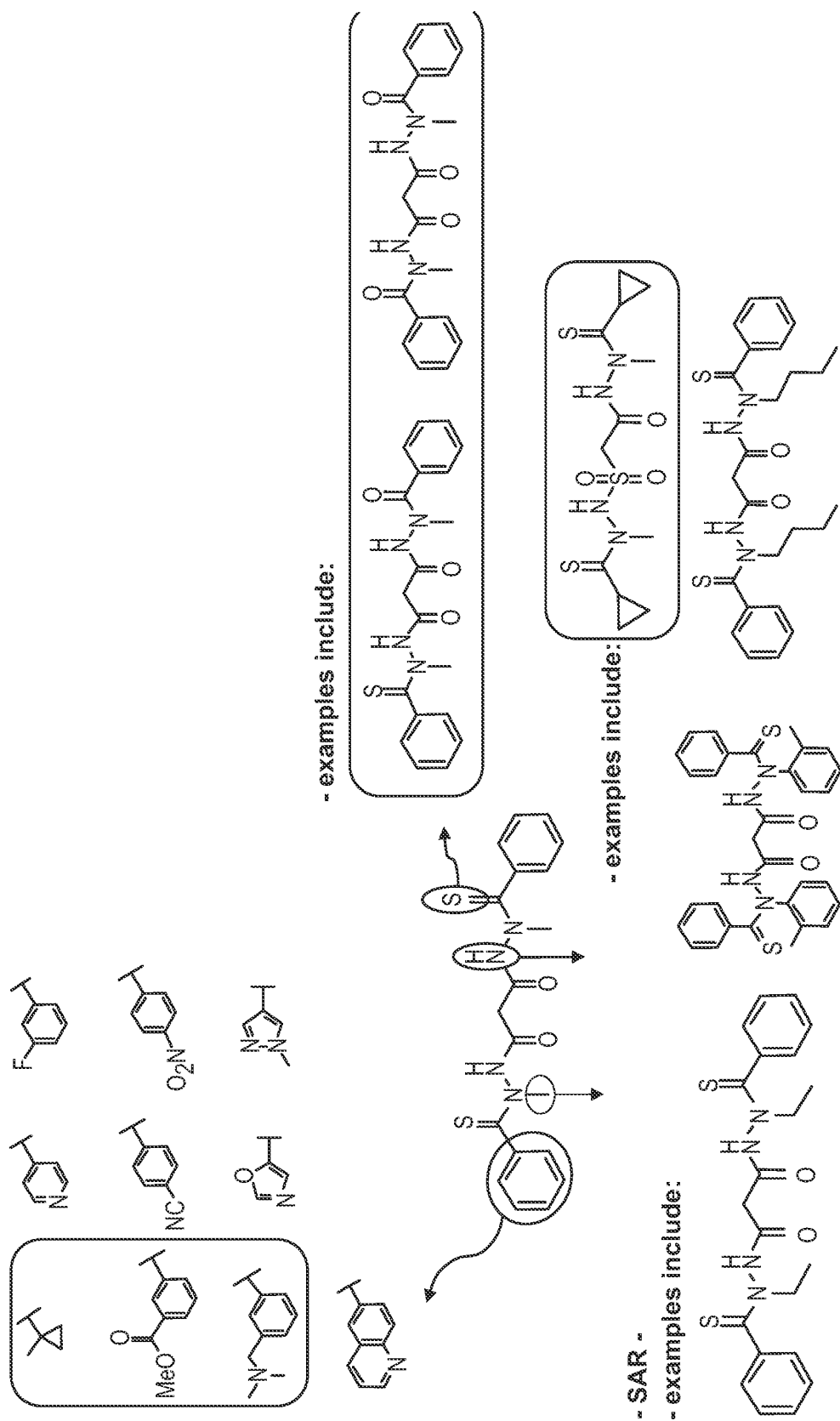


FIG. 49

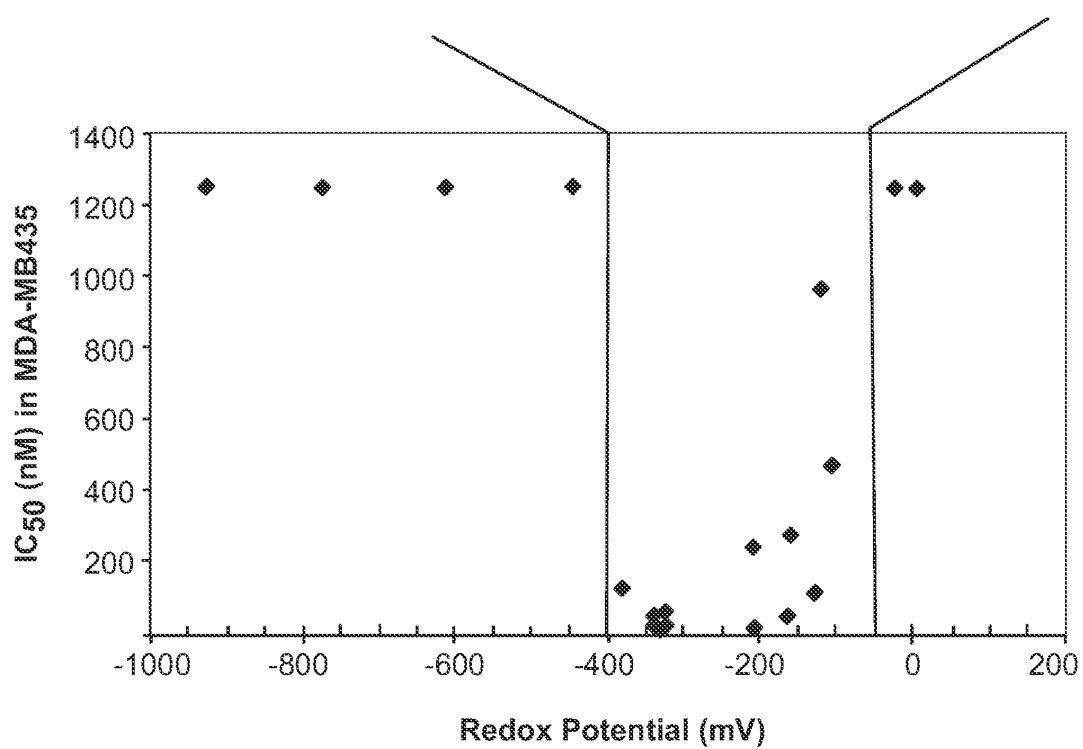


FIG. 50

Copper ionophores cluster in the drug space

PRISM Repurposing Secondary screen that includes growth-inhibition estimates for 1,448 drugs against cell lines

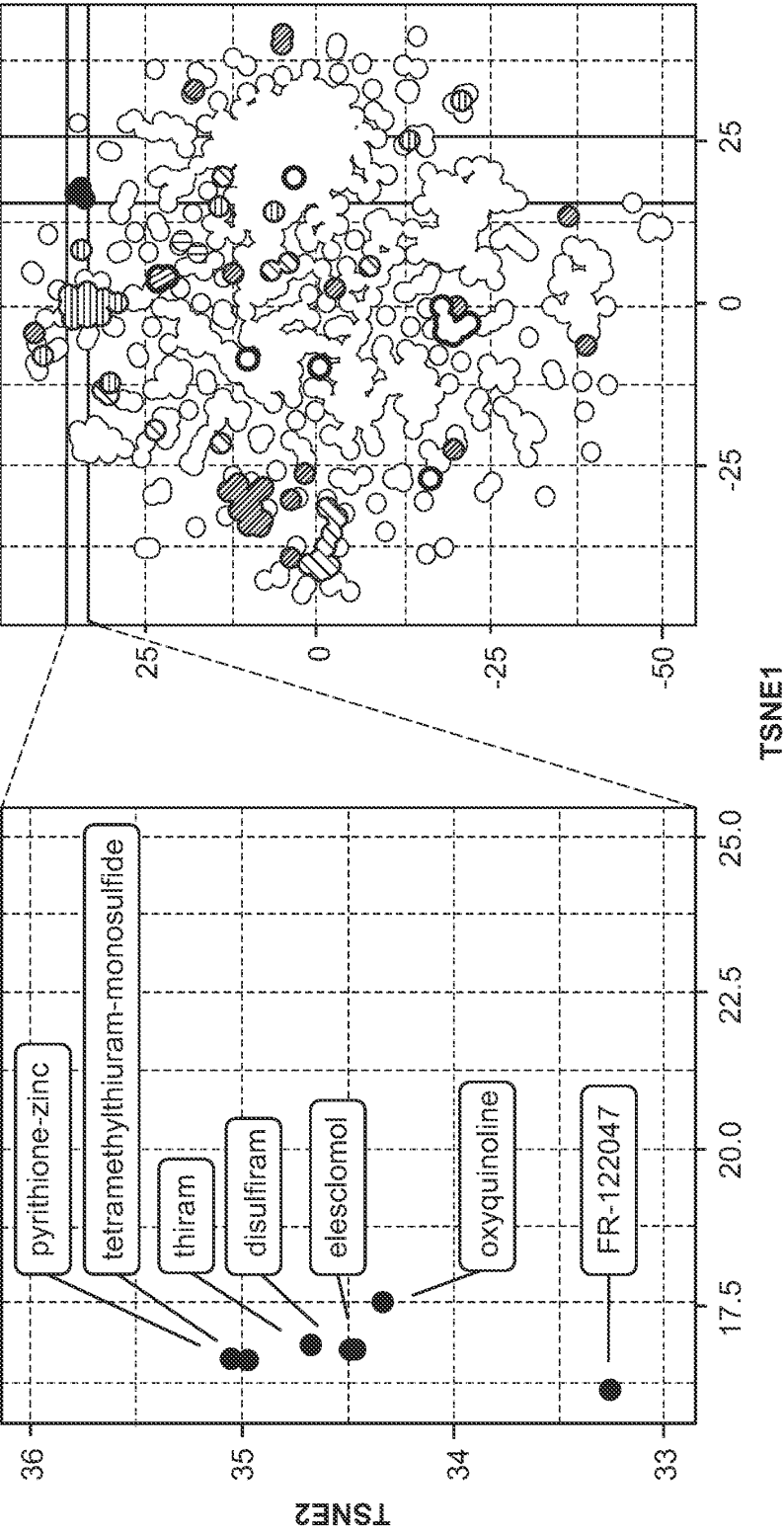


FIG. 51

Proposed screening strategy to reveal optimal cuproptosis inducing compounds:

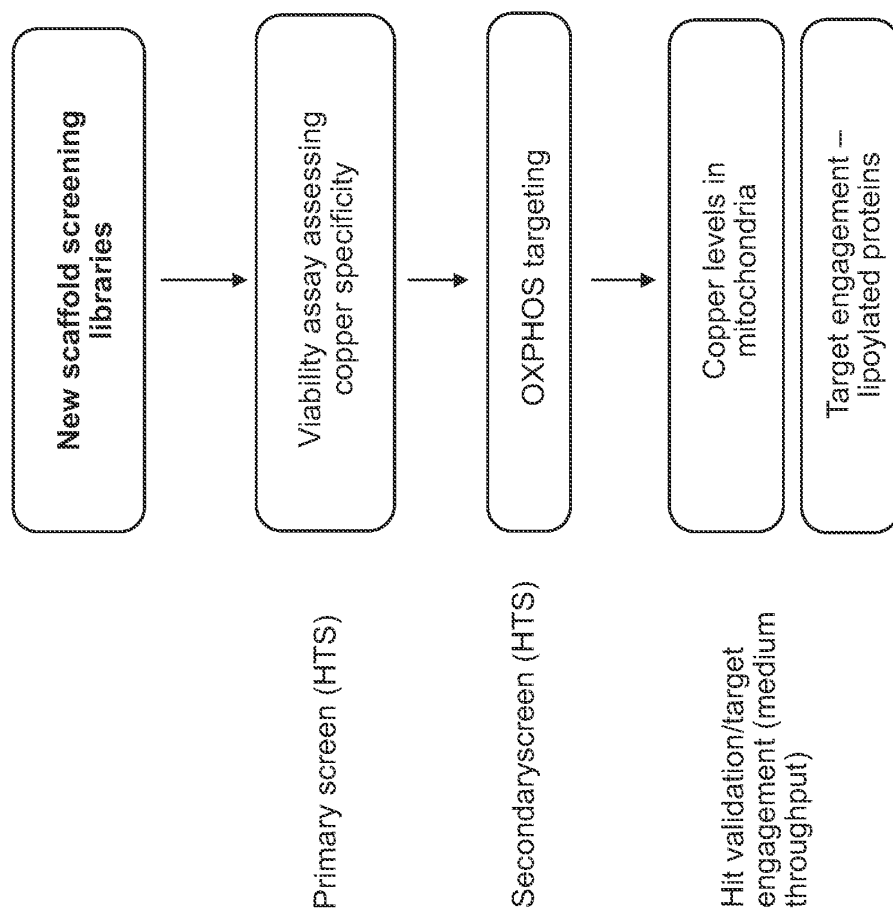


FIG. 52

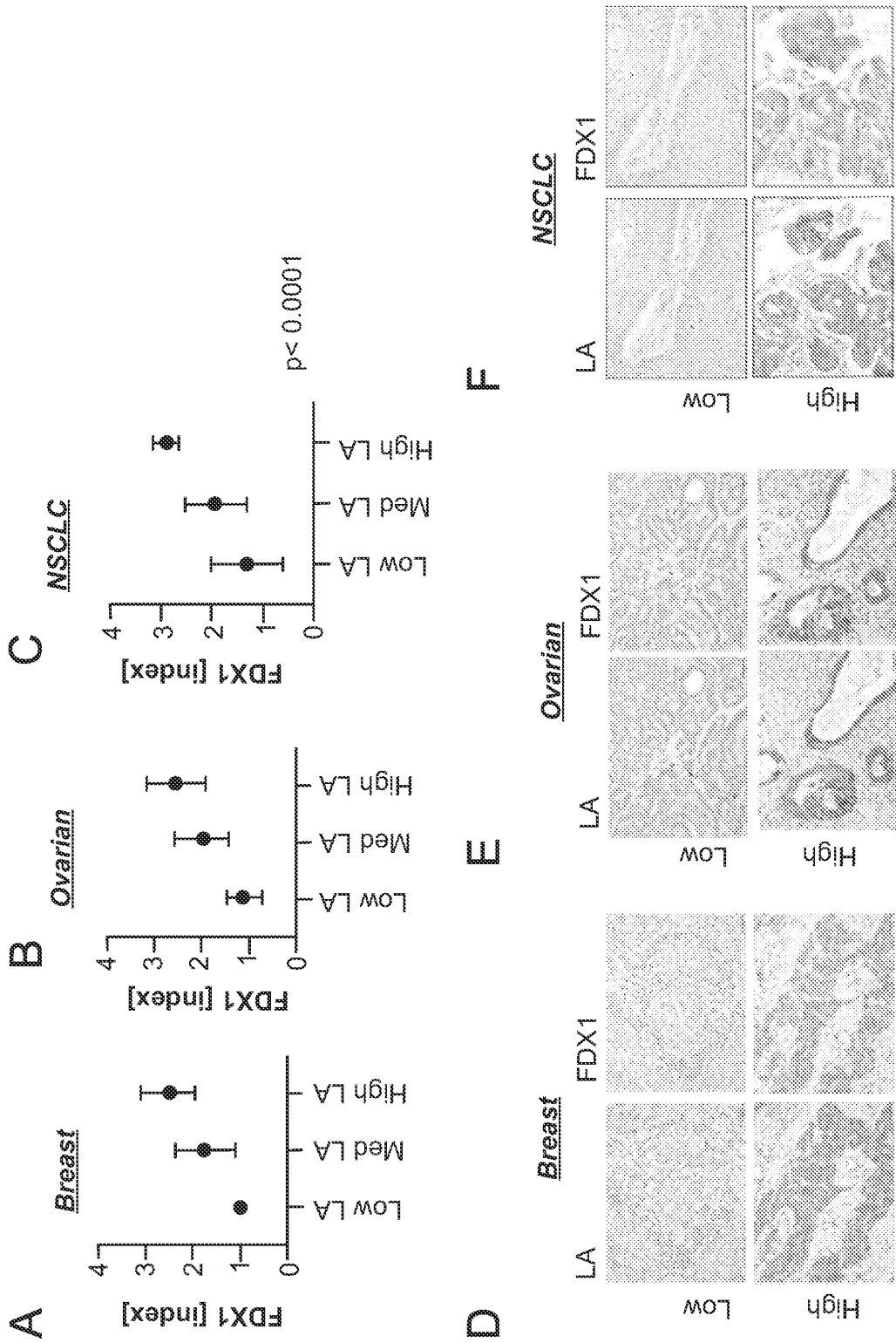


FIG. 53

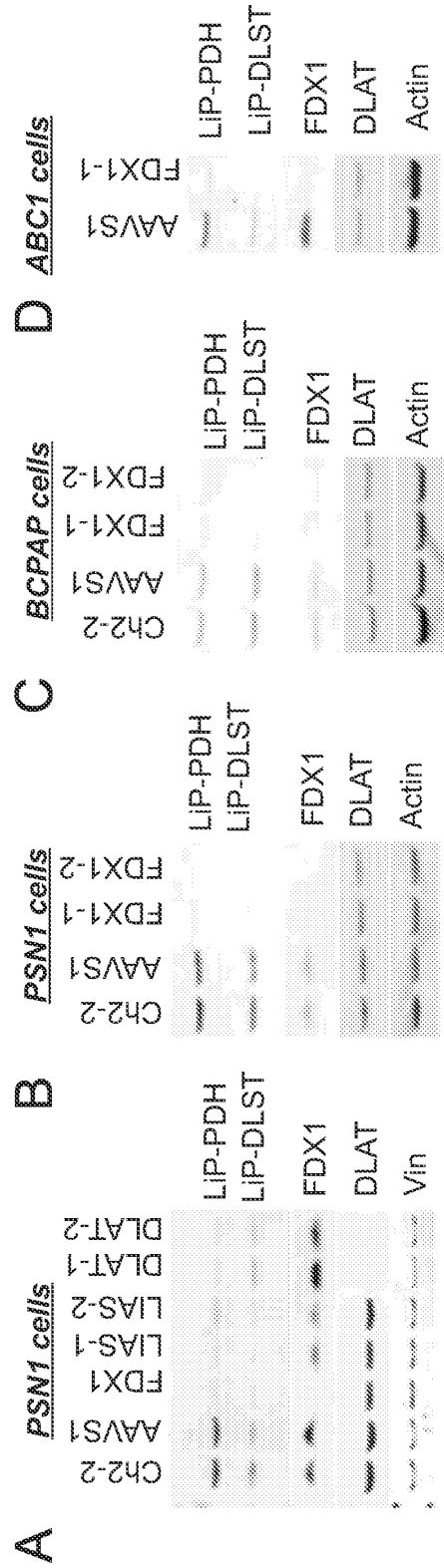
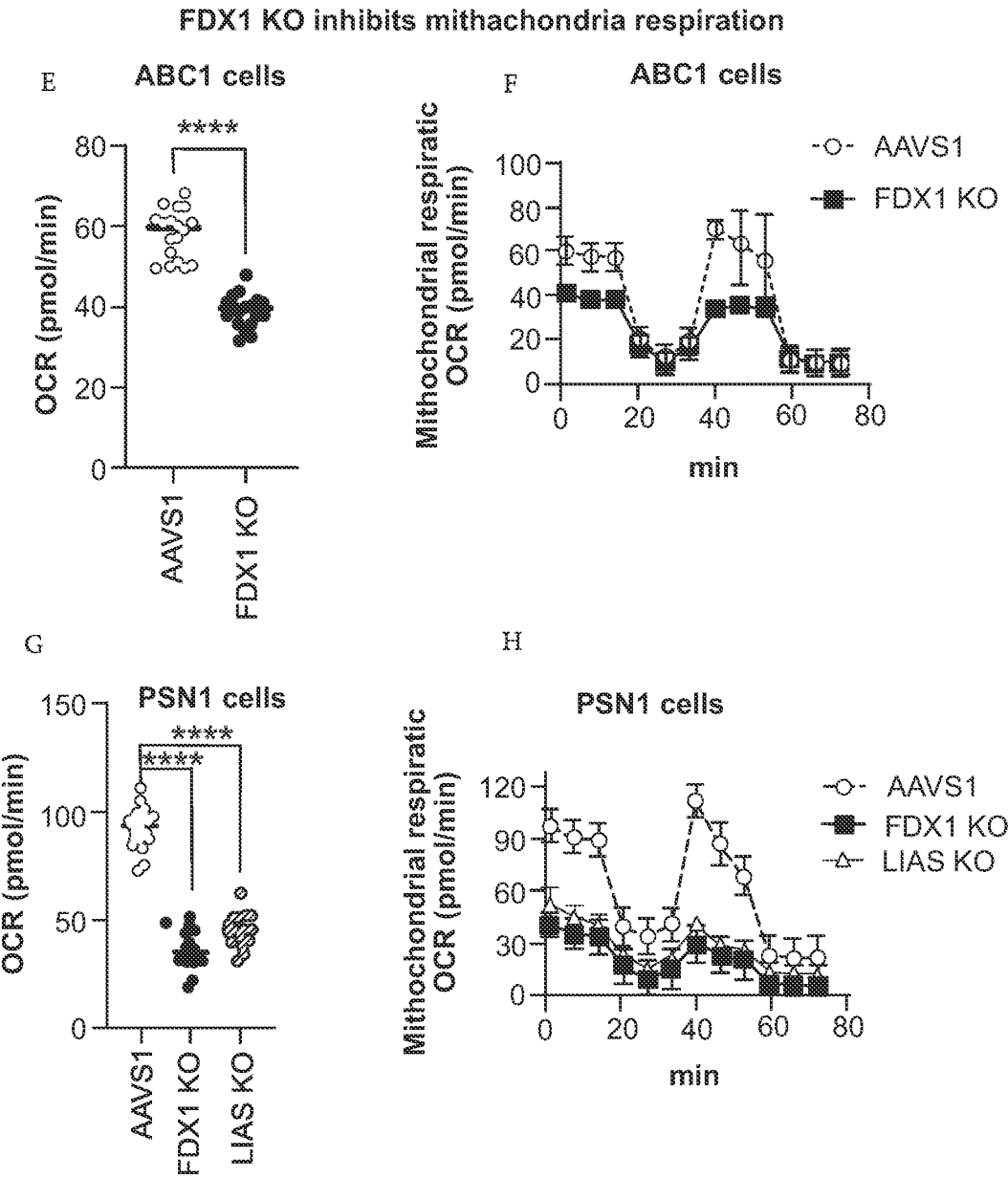


FIG. 53 (cont.)



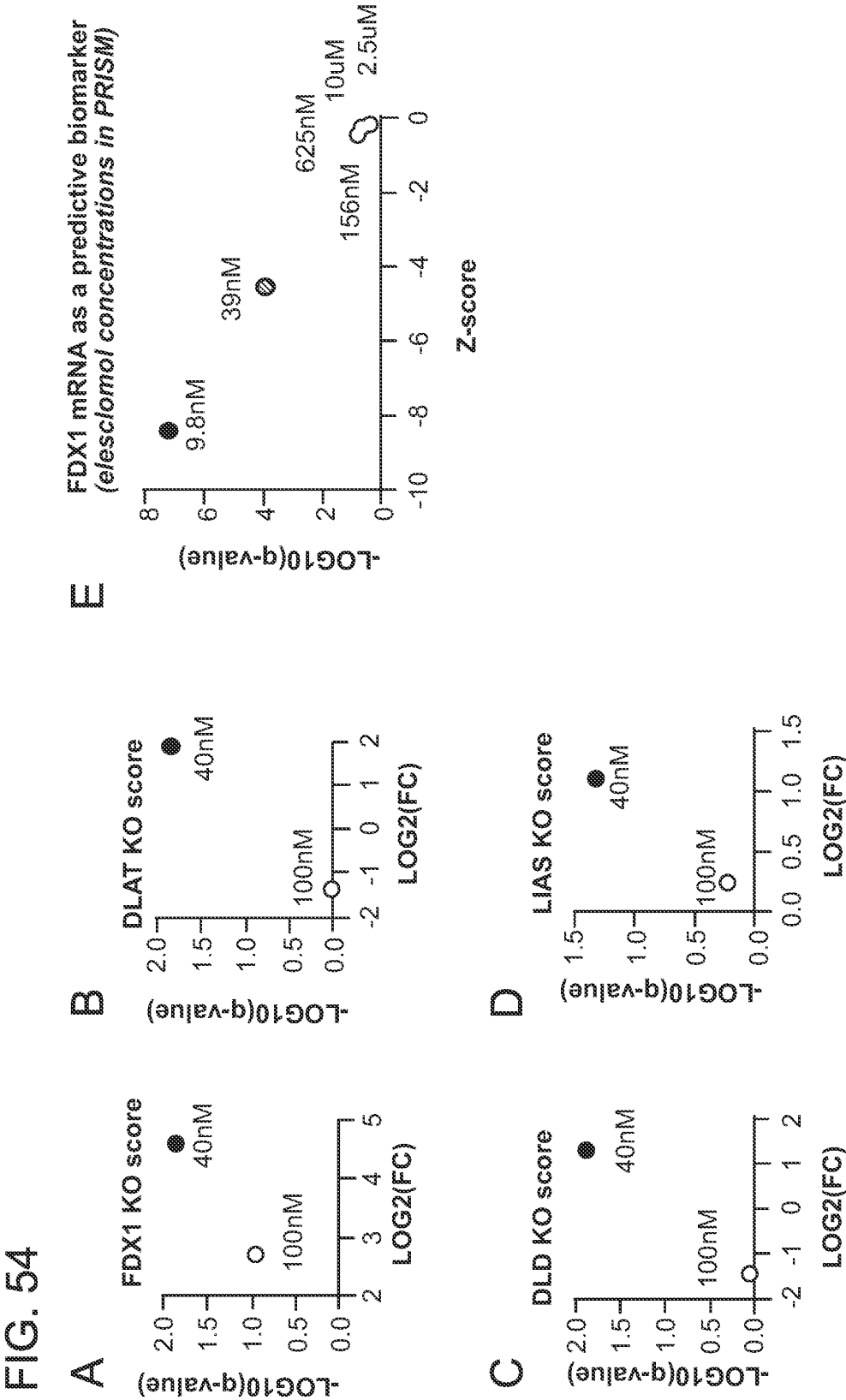


FIG. 55

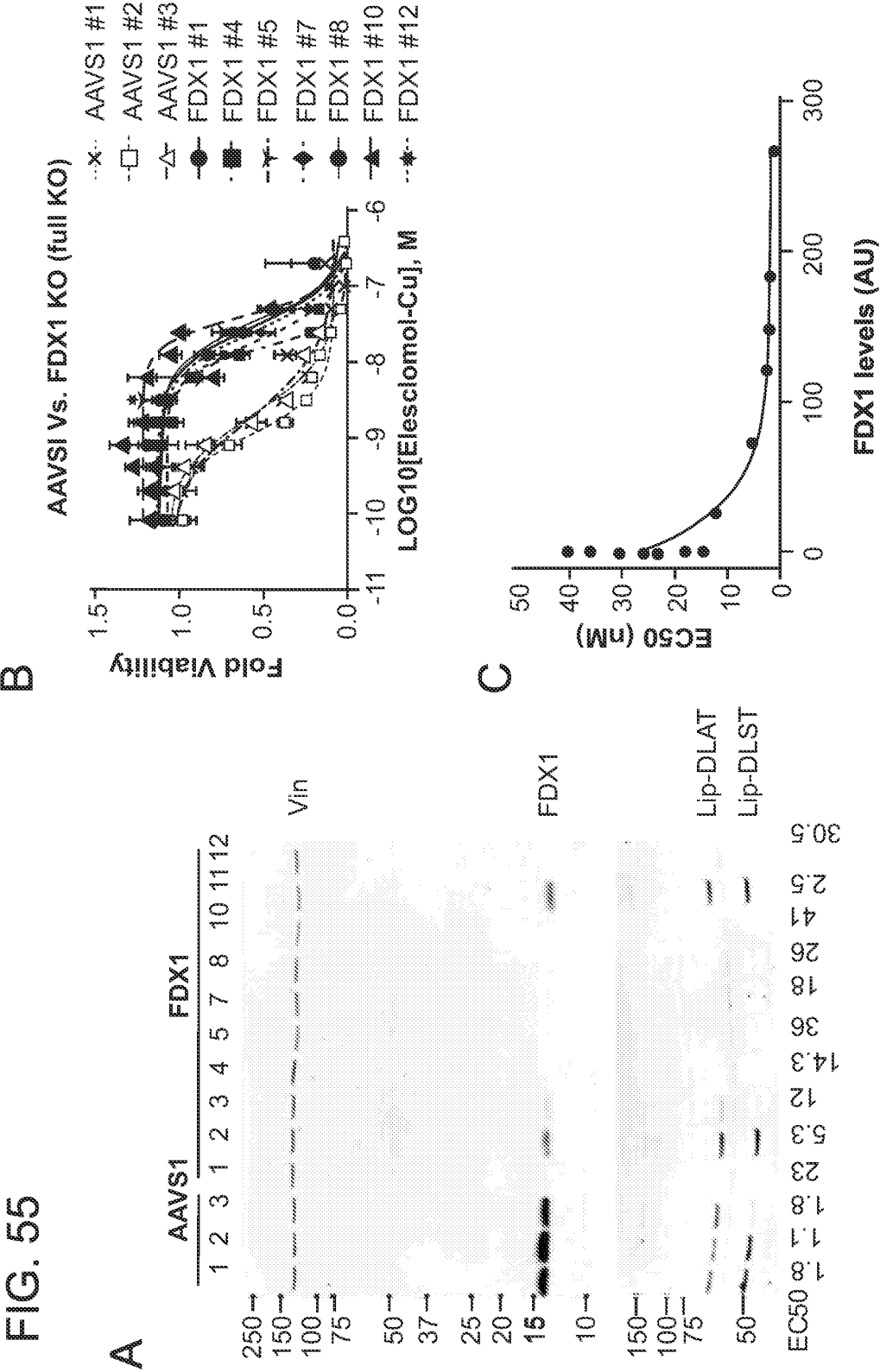


FIG. 56

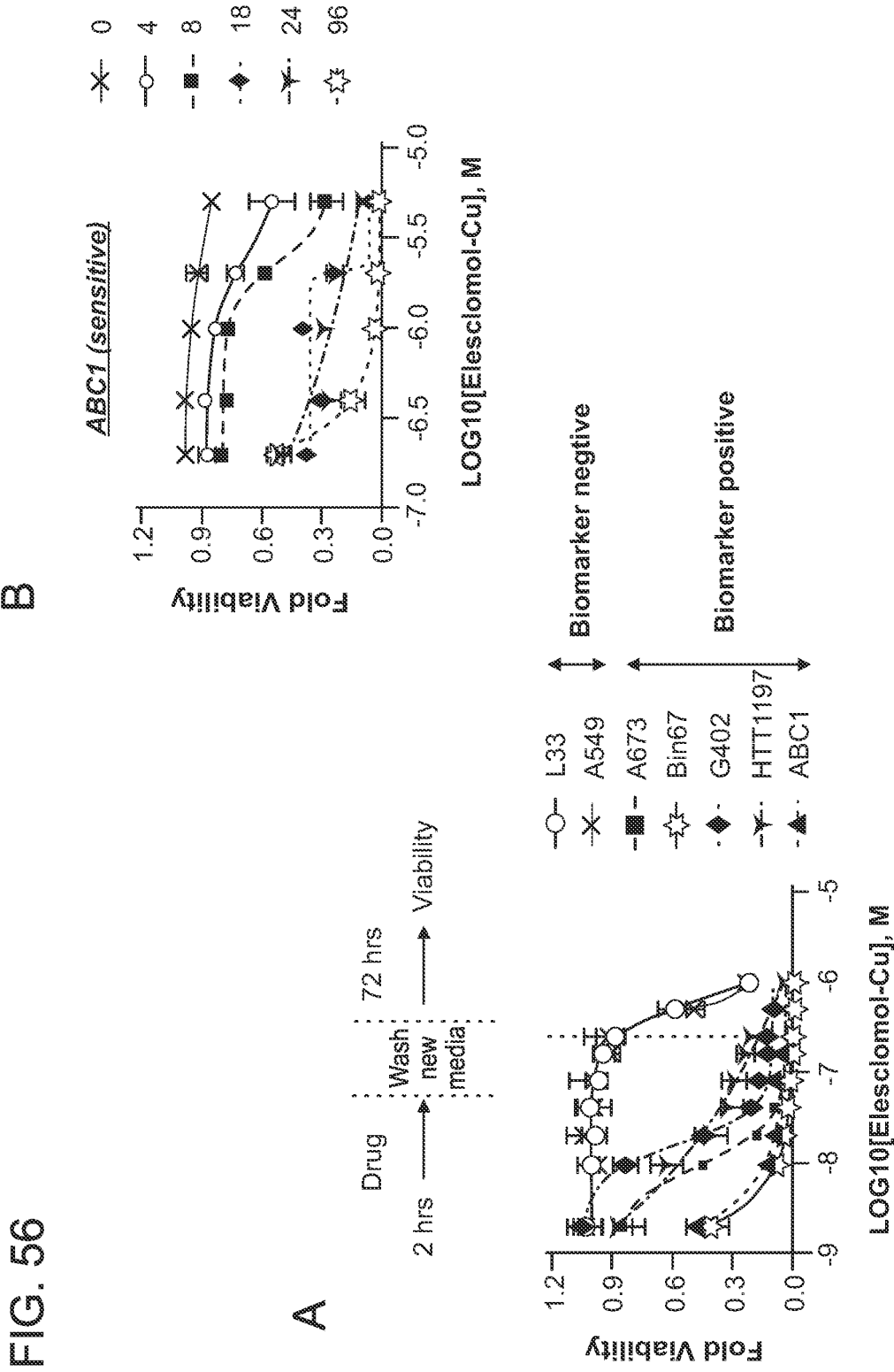


FIG. 56 (cont.)

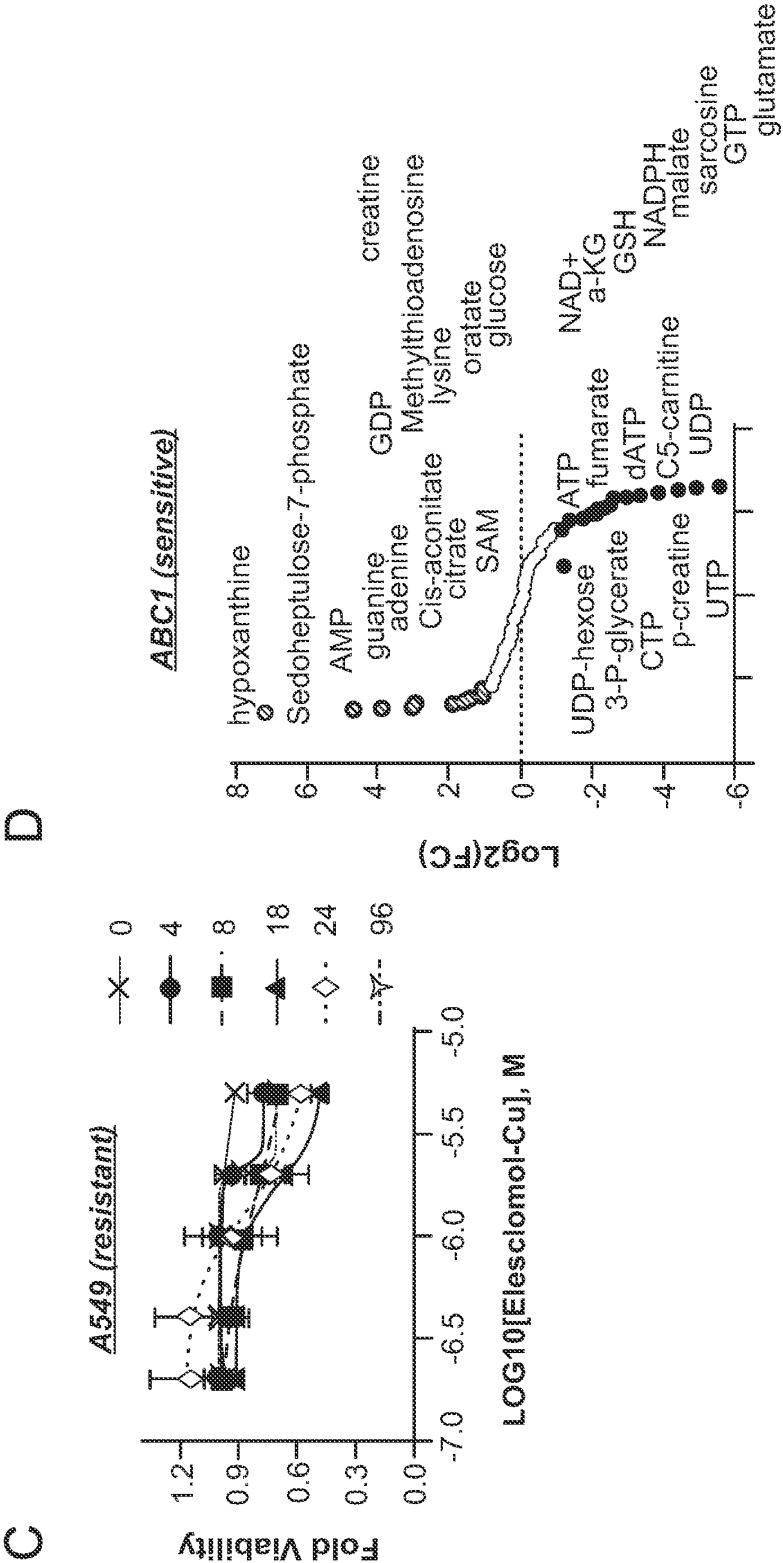


FIG. 56 (cont.)

