

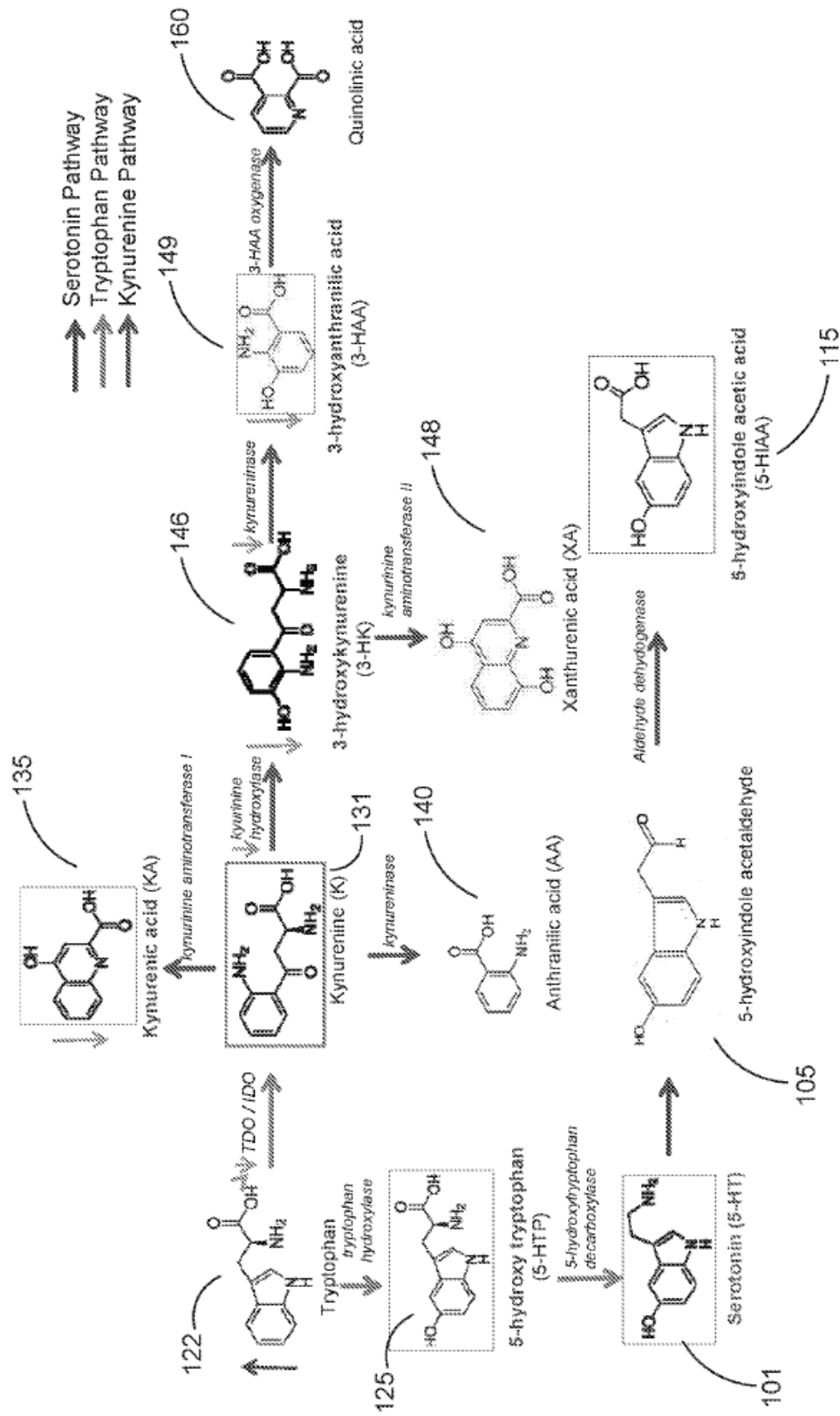


FIG. 1

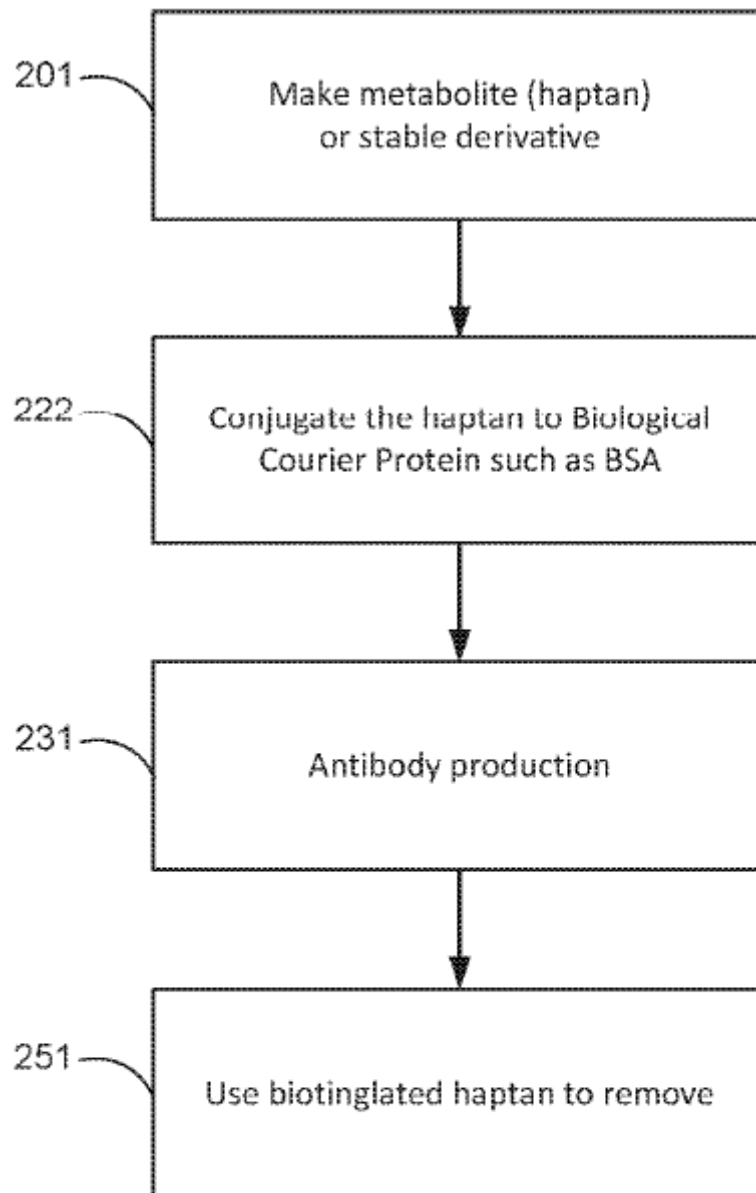


FIG. 2

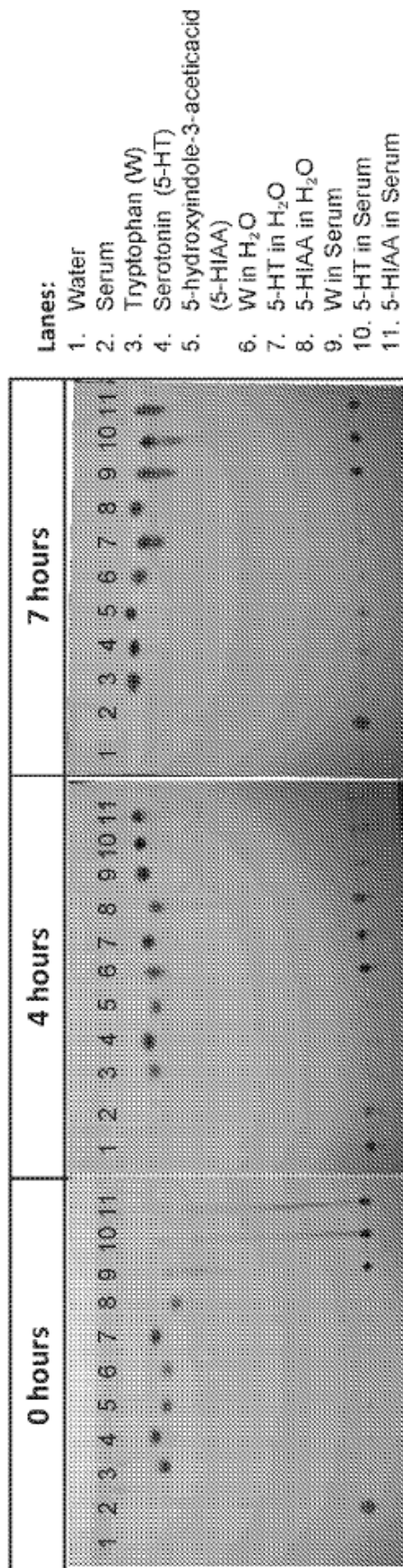
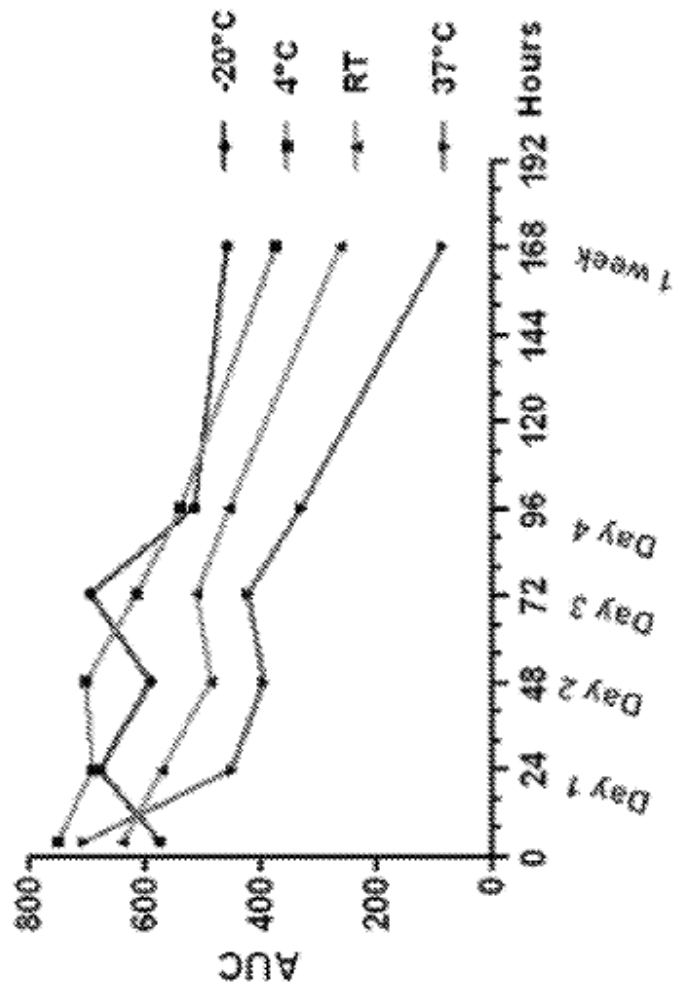


FIG. 3

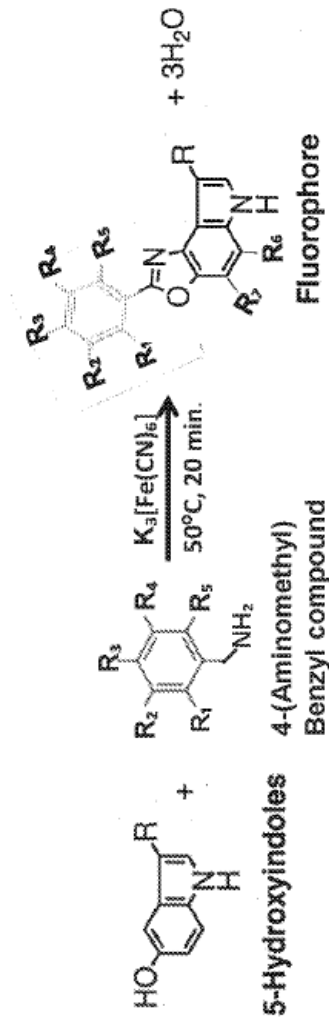
Stability of 5-HT



HPLC Data:
Loss of Signal at in a week various T

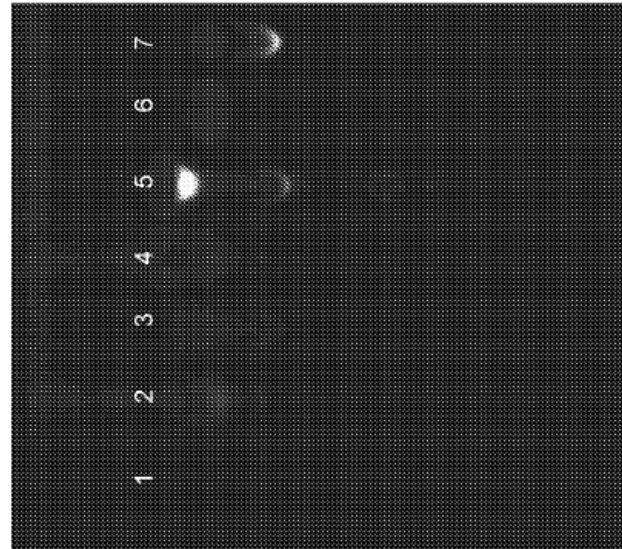
T°C	Loss of signal 1 week
-20	20%
4	50%
RT	58%
37	87%

FIG. 4



R = -CH₂CH₂NH₂ or CH₂COOH

R₁, R₂, R₃, R₄, R₅, R₆, R₇ = -X (halogen) or -H or alkyl or acid or aryl ester or alkyl ester or sulfonates and any combinations of these groups.



Lanes in TLC (under UV):

1. p-(aminomethyl)benzyl compound
2. Tryptophan
3. Derivatized Tryptophan (W)
4. Serotonin (5-HT, 5-hydroxytryptophan)
5. Derivatized 5-HT
6. 5-HIAA (5-hydroxyindole-3-acetic acid)
7. Derivatized 5-HIAA

FIG. 5

FIG. 6

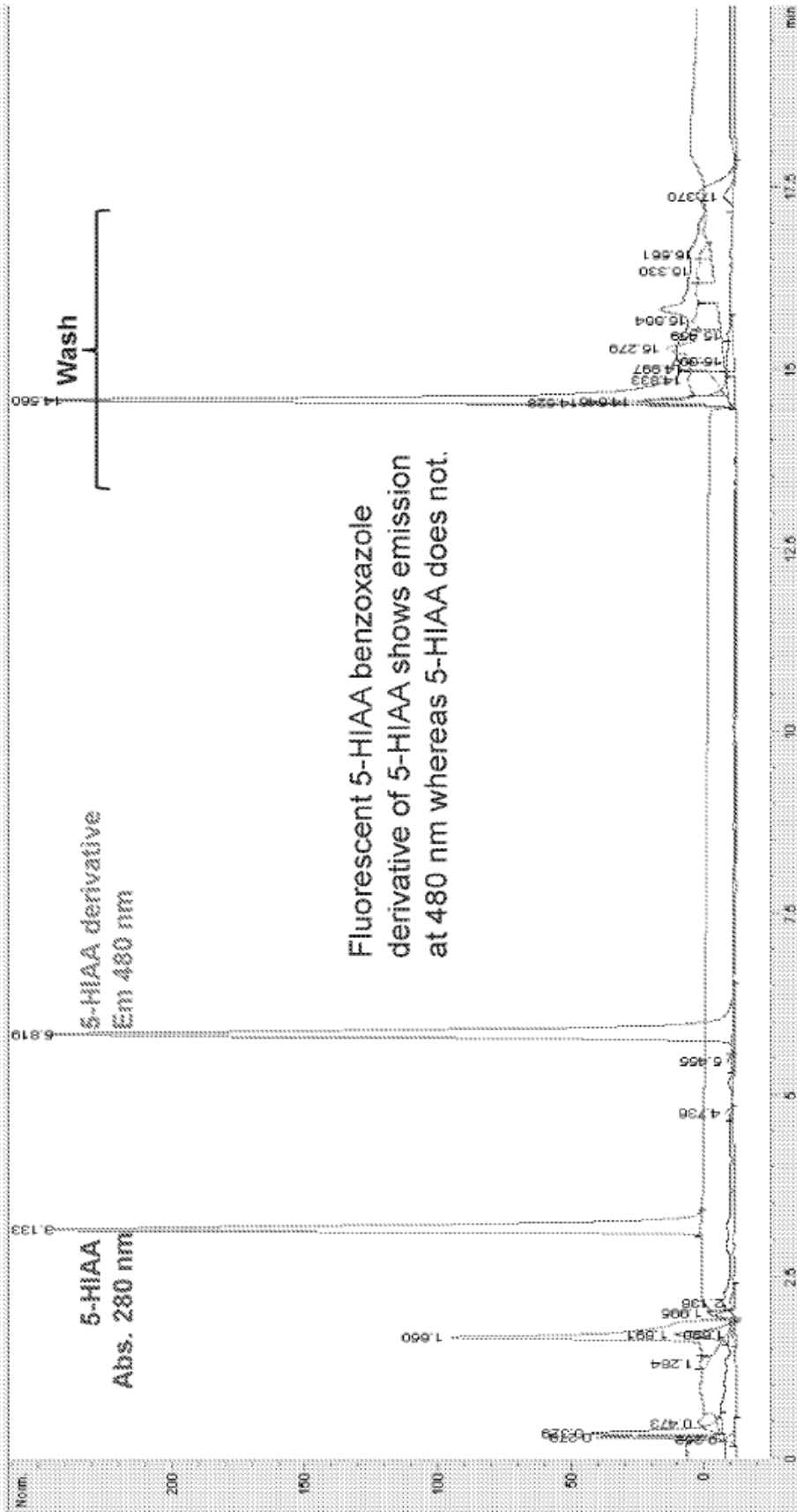


FIG. 7

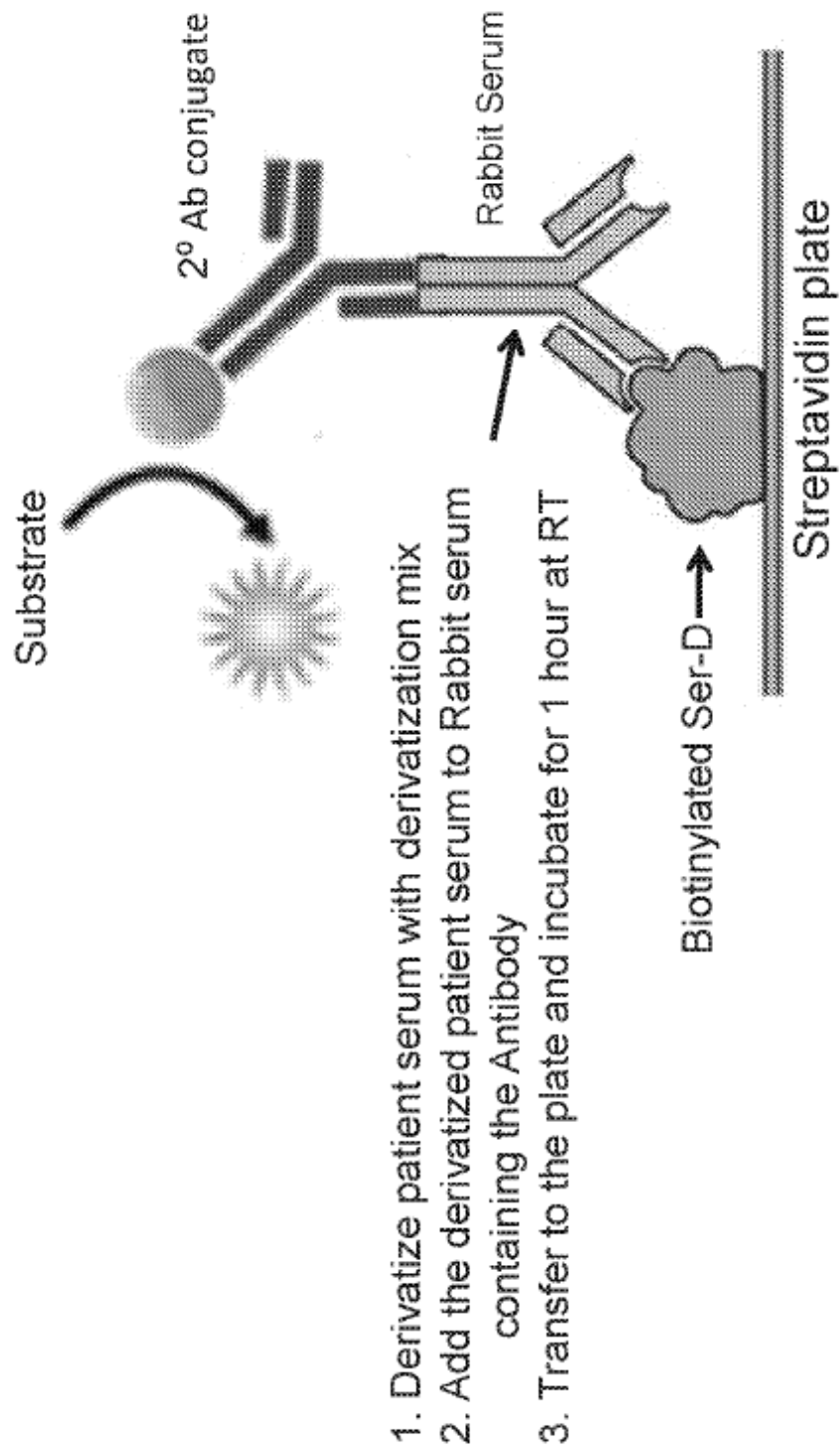


FIG. 8

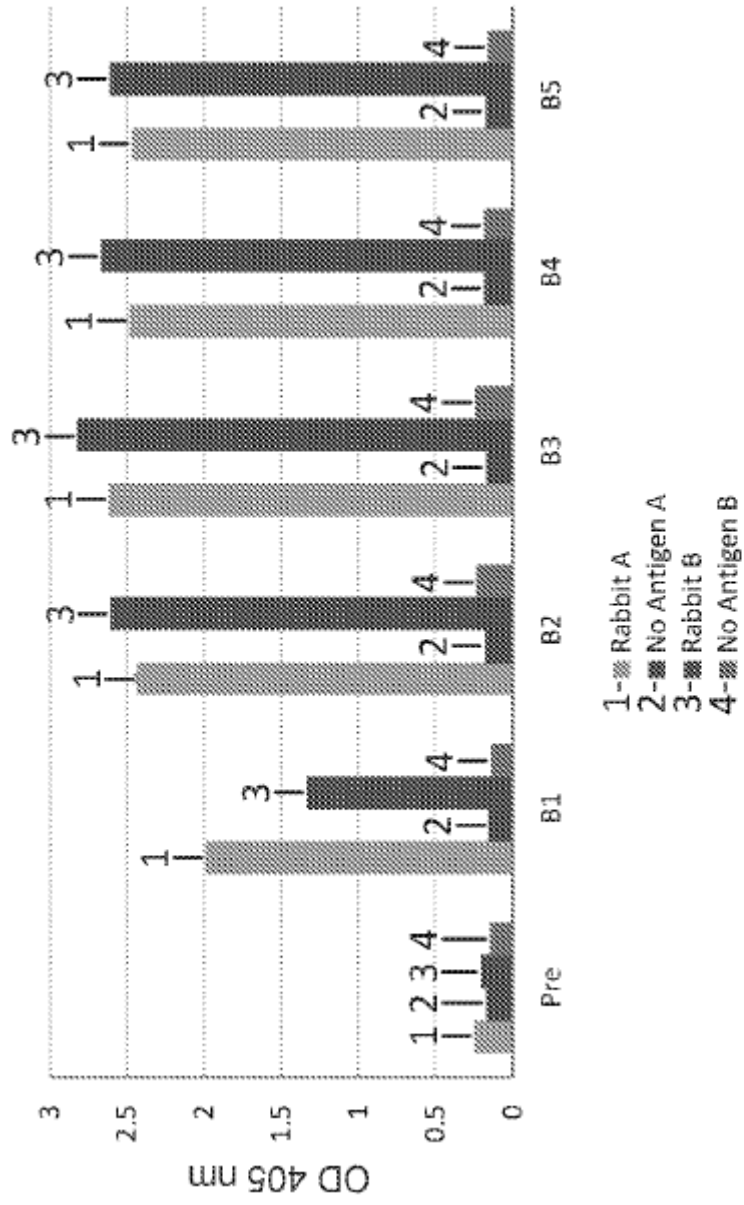


FIG. 9

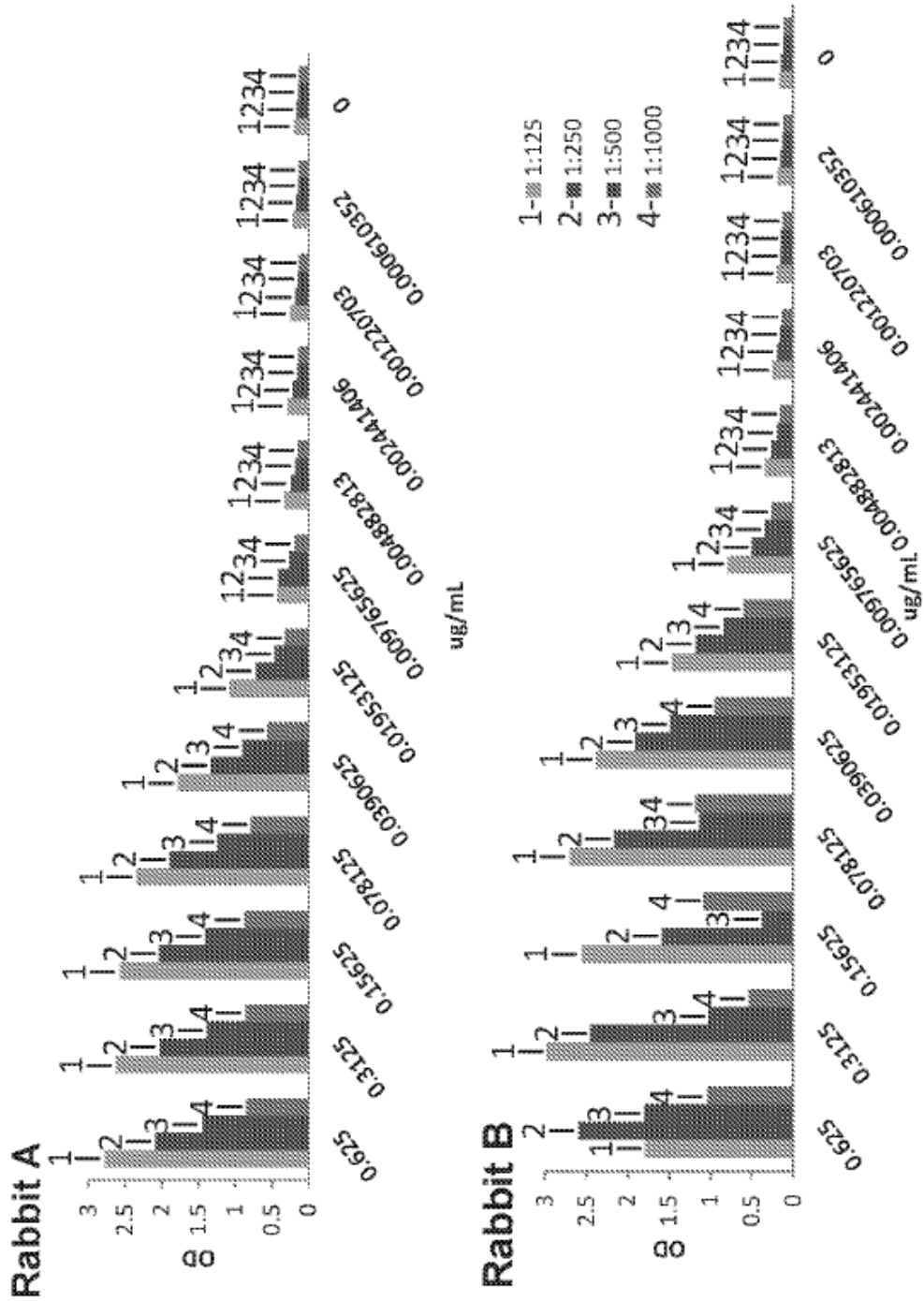


FIG. 10

FIG. 11A

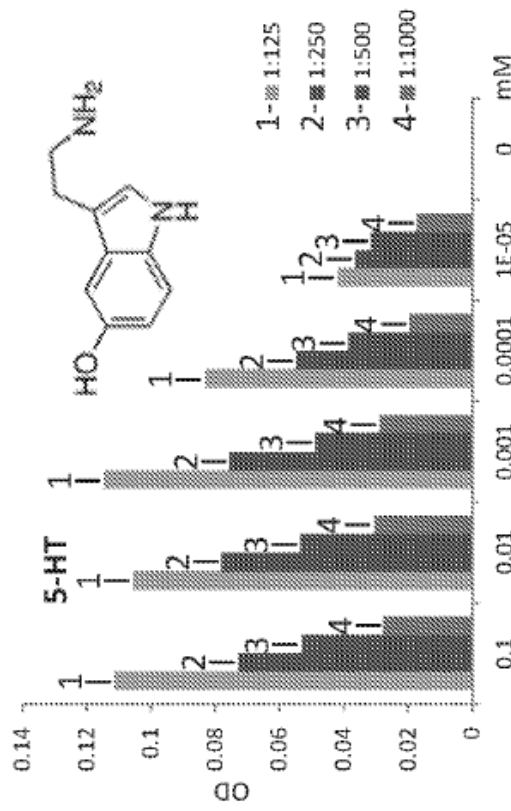


FIG. 11B

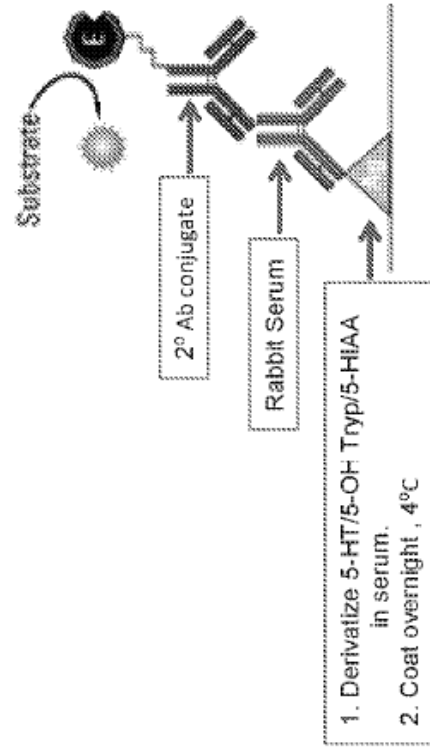


FIG. 11C

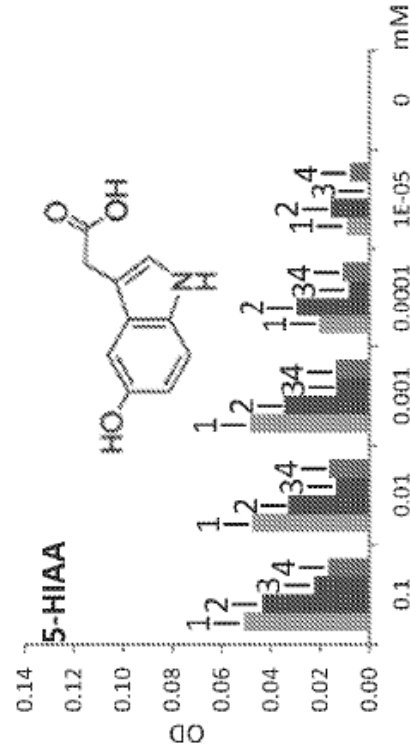


FIG. 11D

FIG. 12A

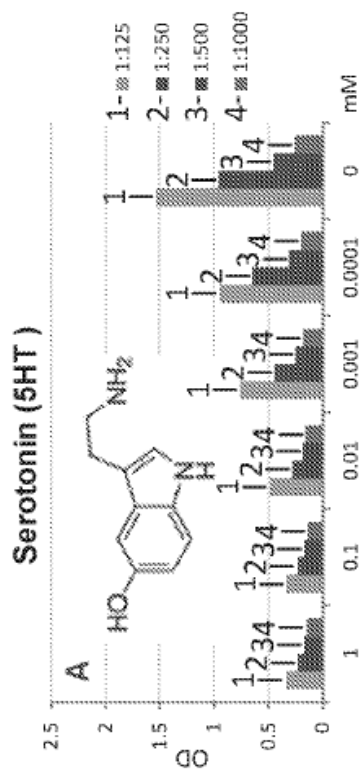


FIG. 12B

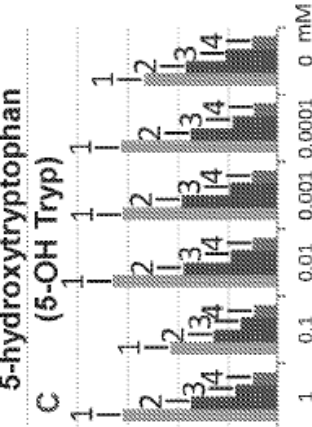
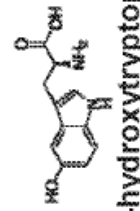
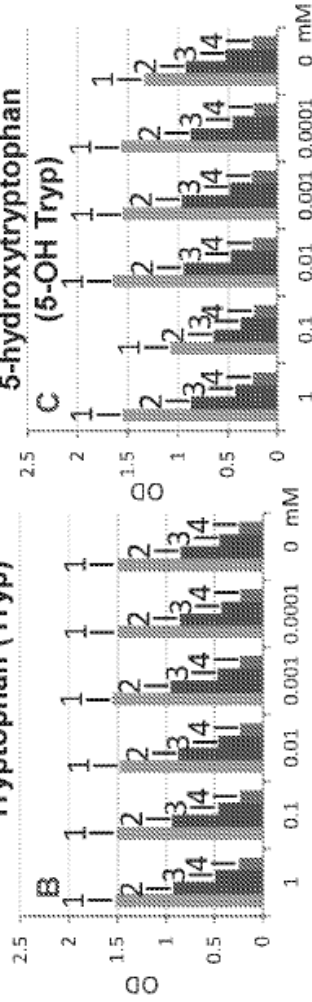
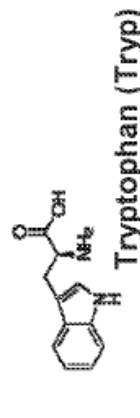
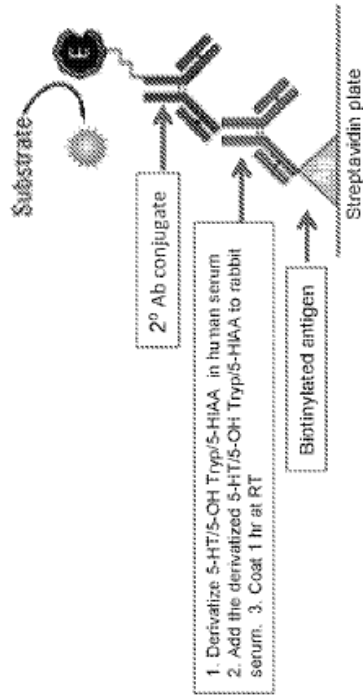


FIG. 12C

FIG. 12D

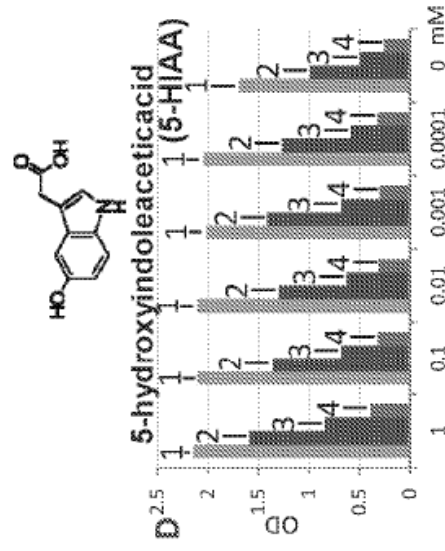
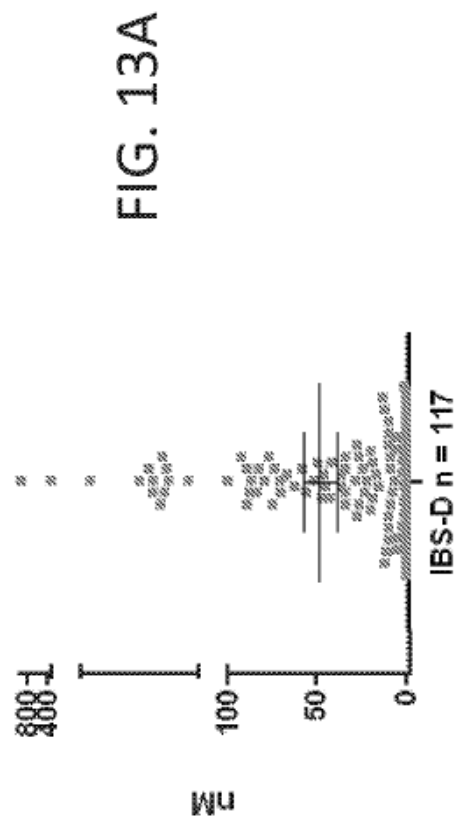


FIG. 12E

FIG. 12

ELISA:



	Number of subjects	Mean 5 HT in nM
Healthy	122	23 ± 10
IBS-D	117	50 ± 20

FIG. 13B

IBS - D	5-HT in nM
Q 1	10.34
Q 2	33.96
Q 3	75.32
Q 4	198.64

Indicates Serotonin dysfunction

FIG. 13C

FIG. 13

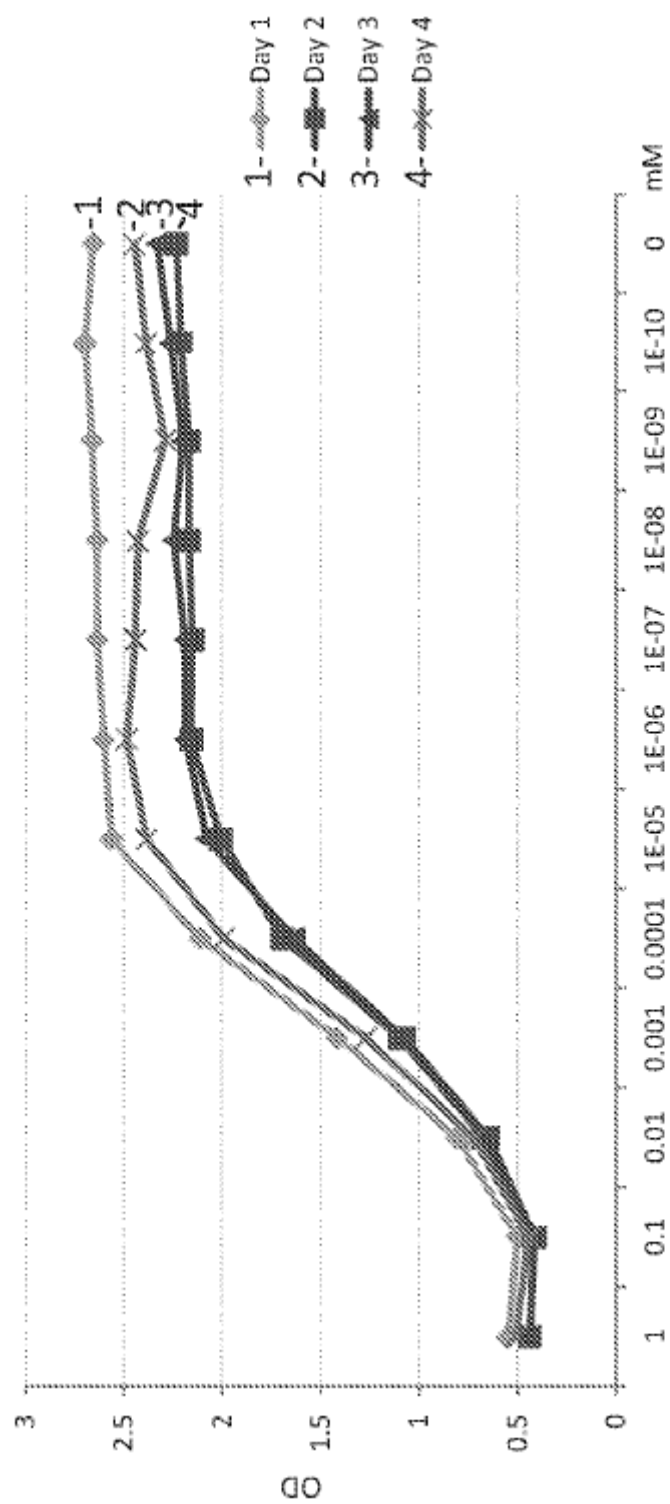


FIG. 14

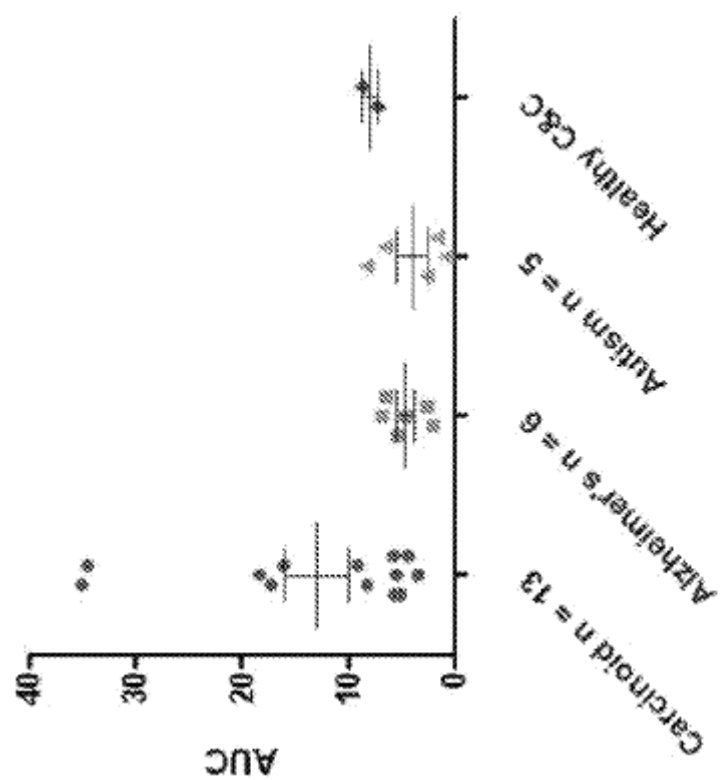


FIG. 15

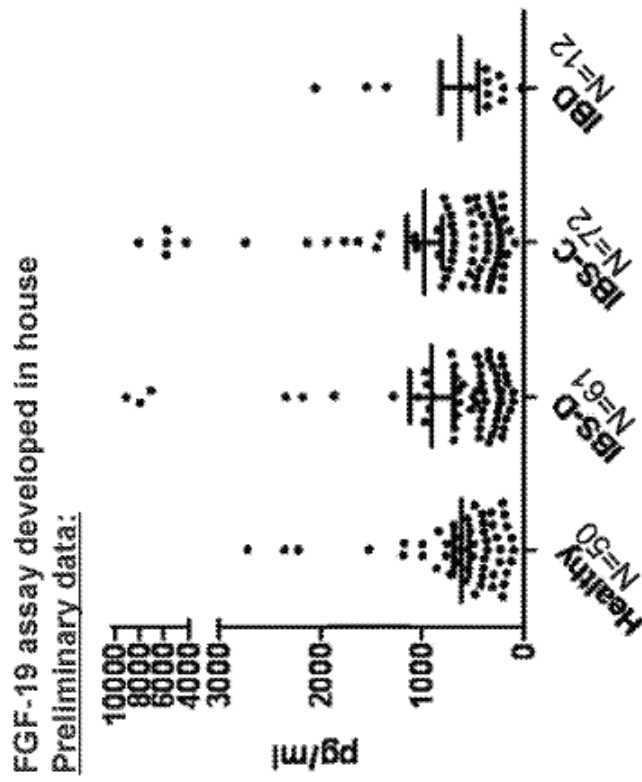


FIG. 16B

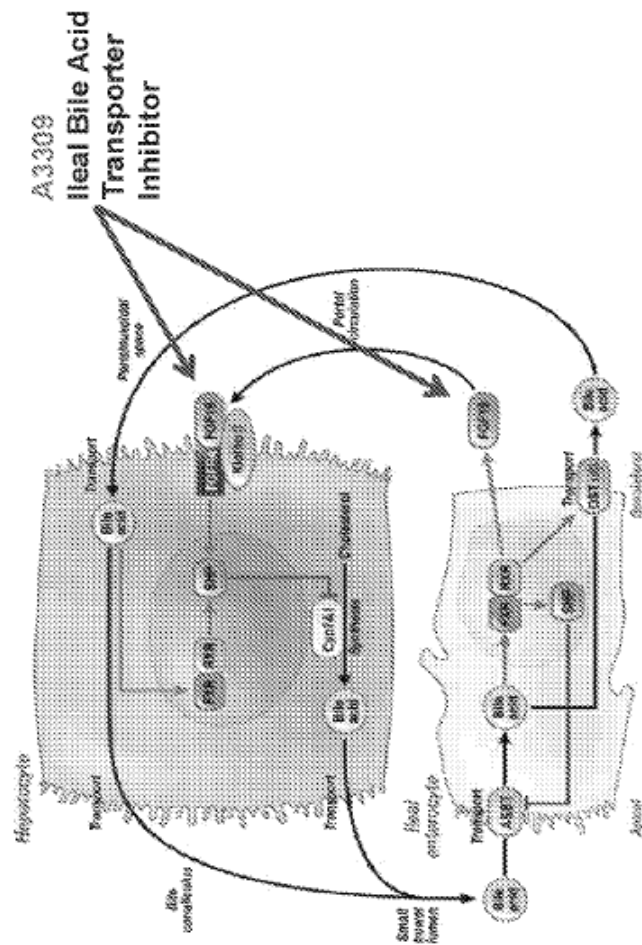


FIG. 16A

FIG. 16

FIG. 17A

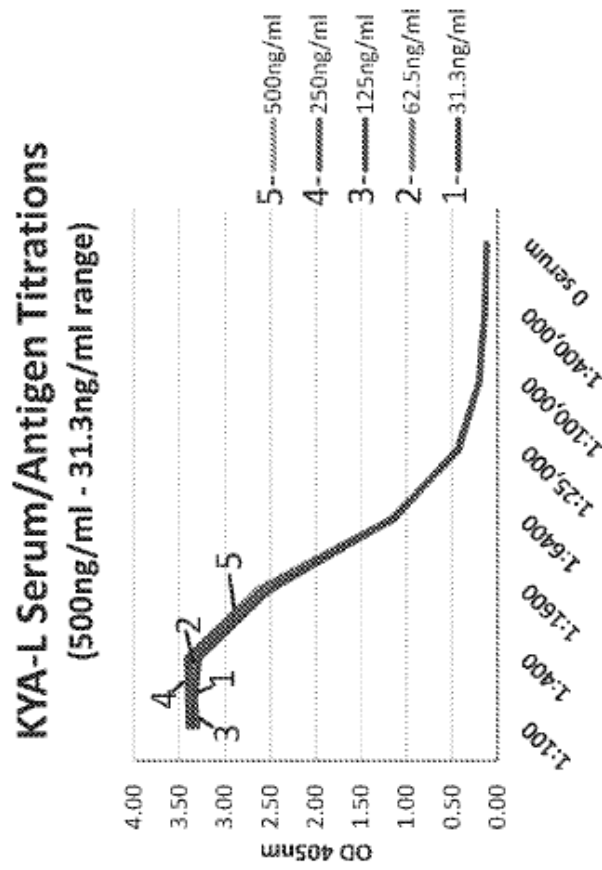


FIG. 17B

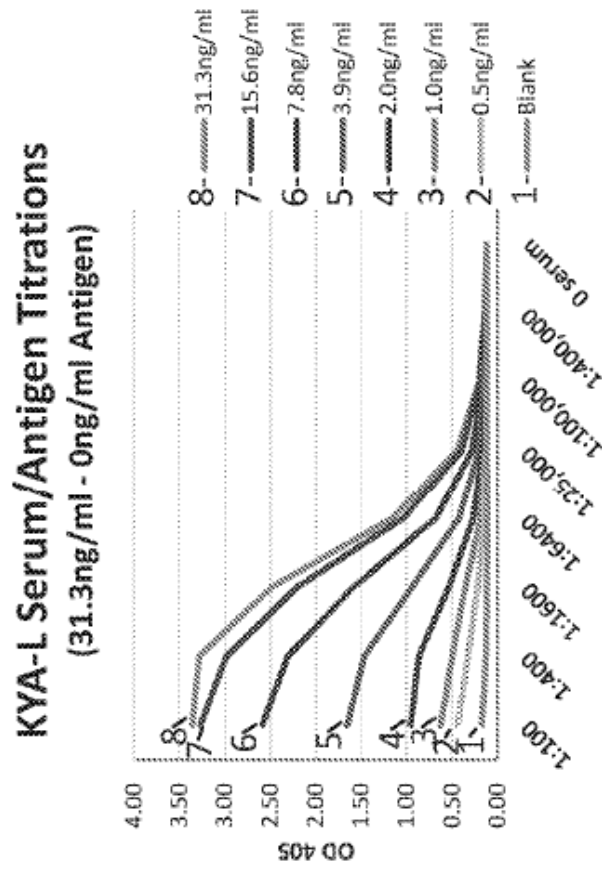


FIG. 17

FIG. 18A

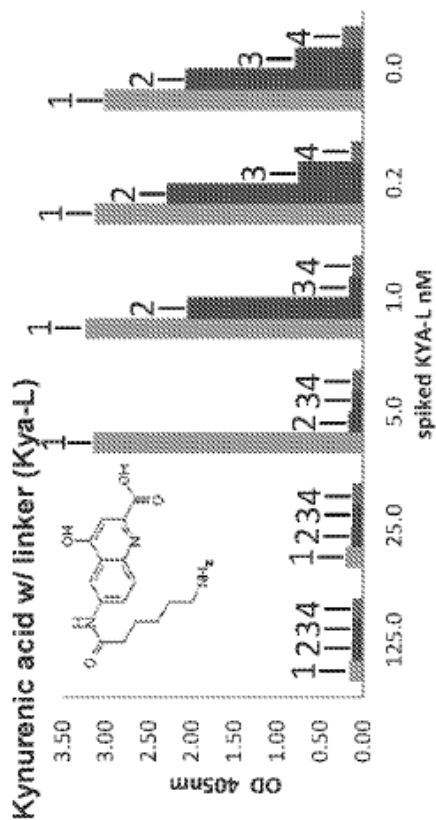


FIG. 18B

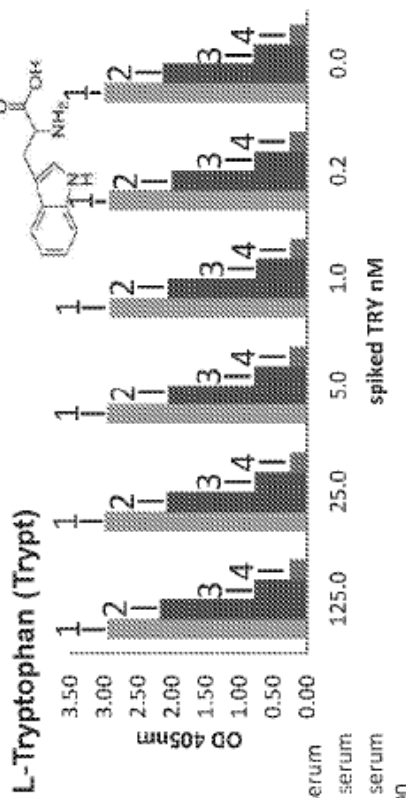
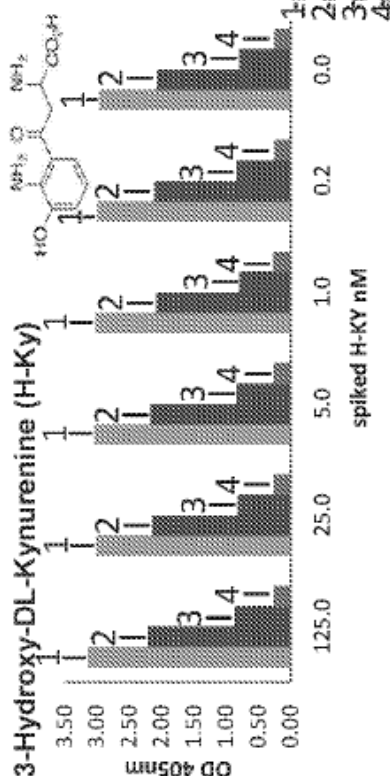
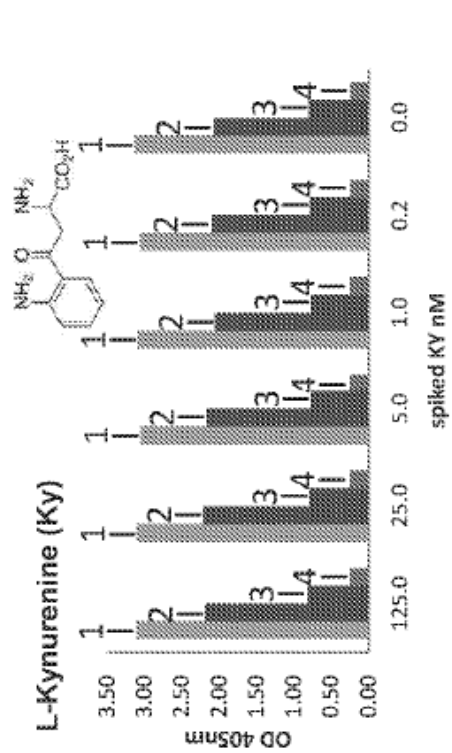


FIG. 18C

FIG. 18D

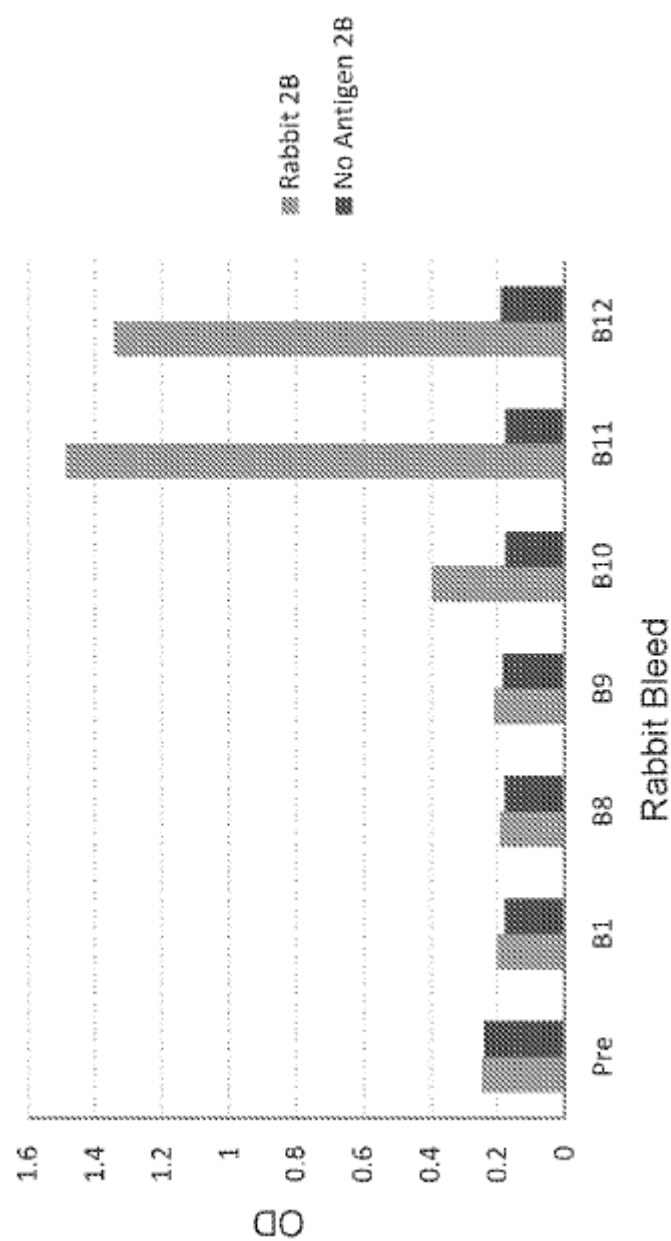


FIG. 19

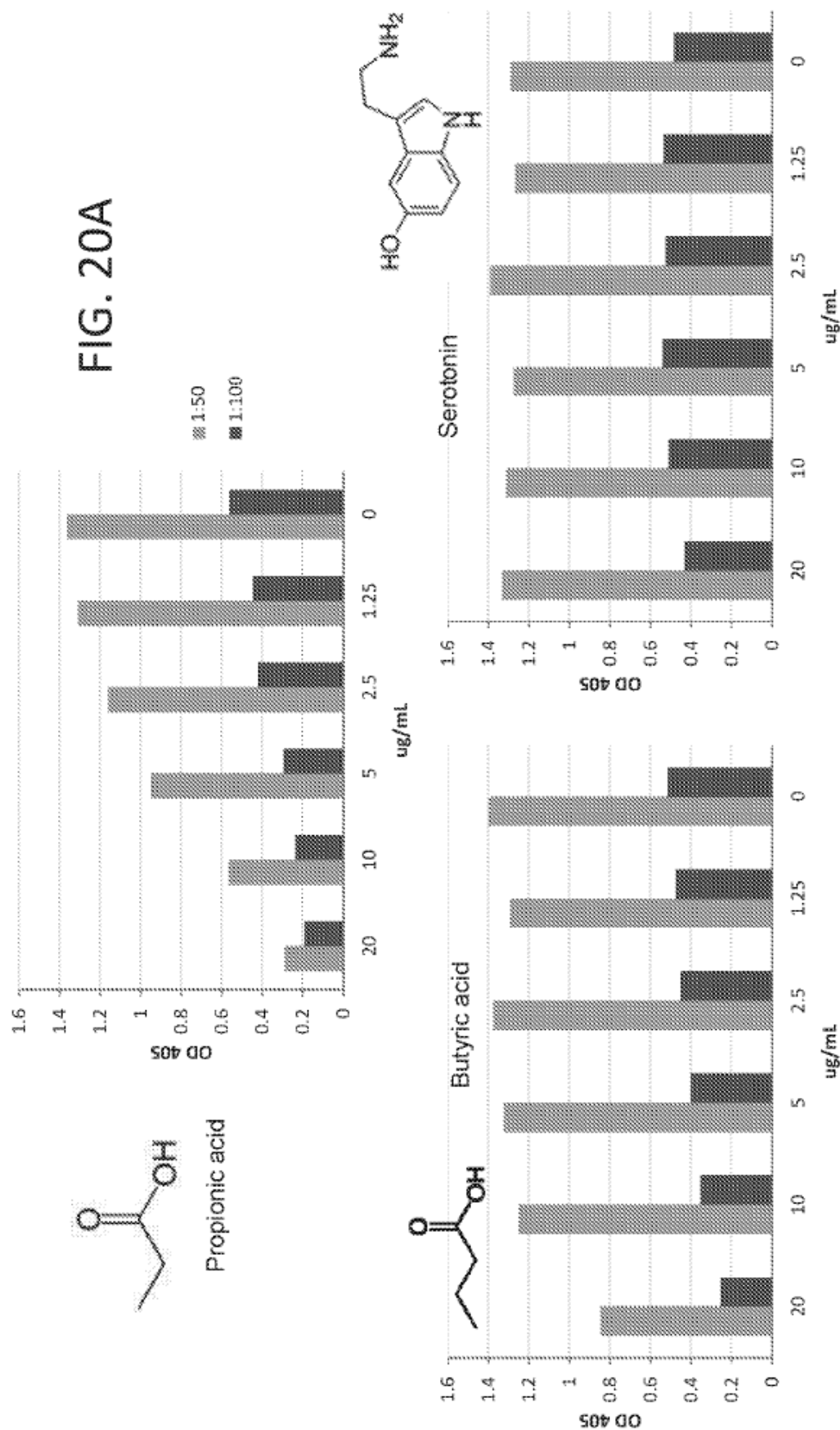


FIG. 20