

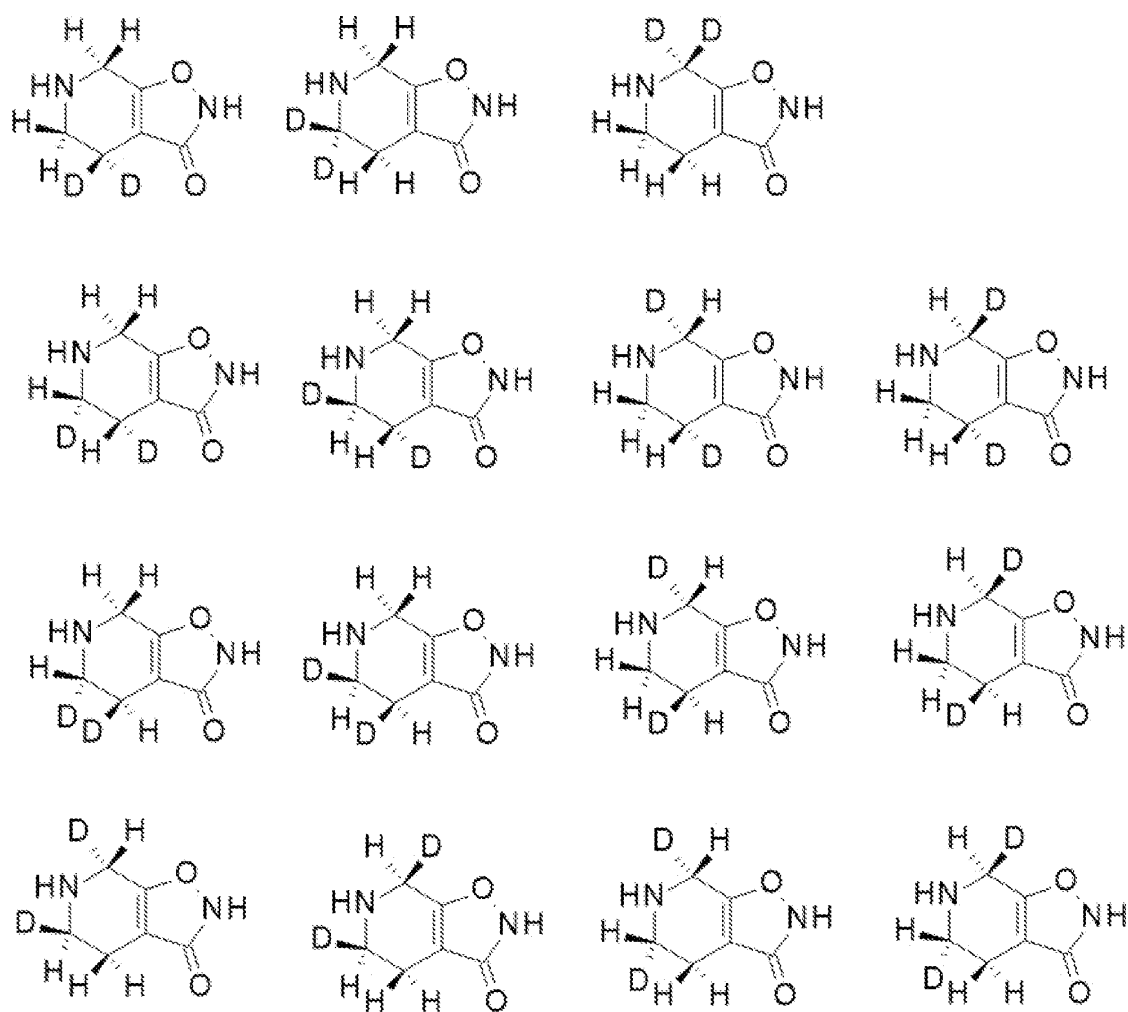


FIG.1B

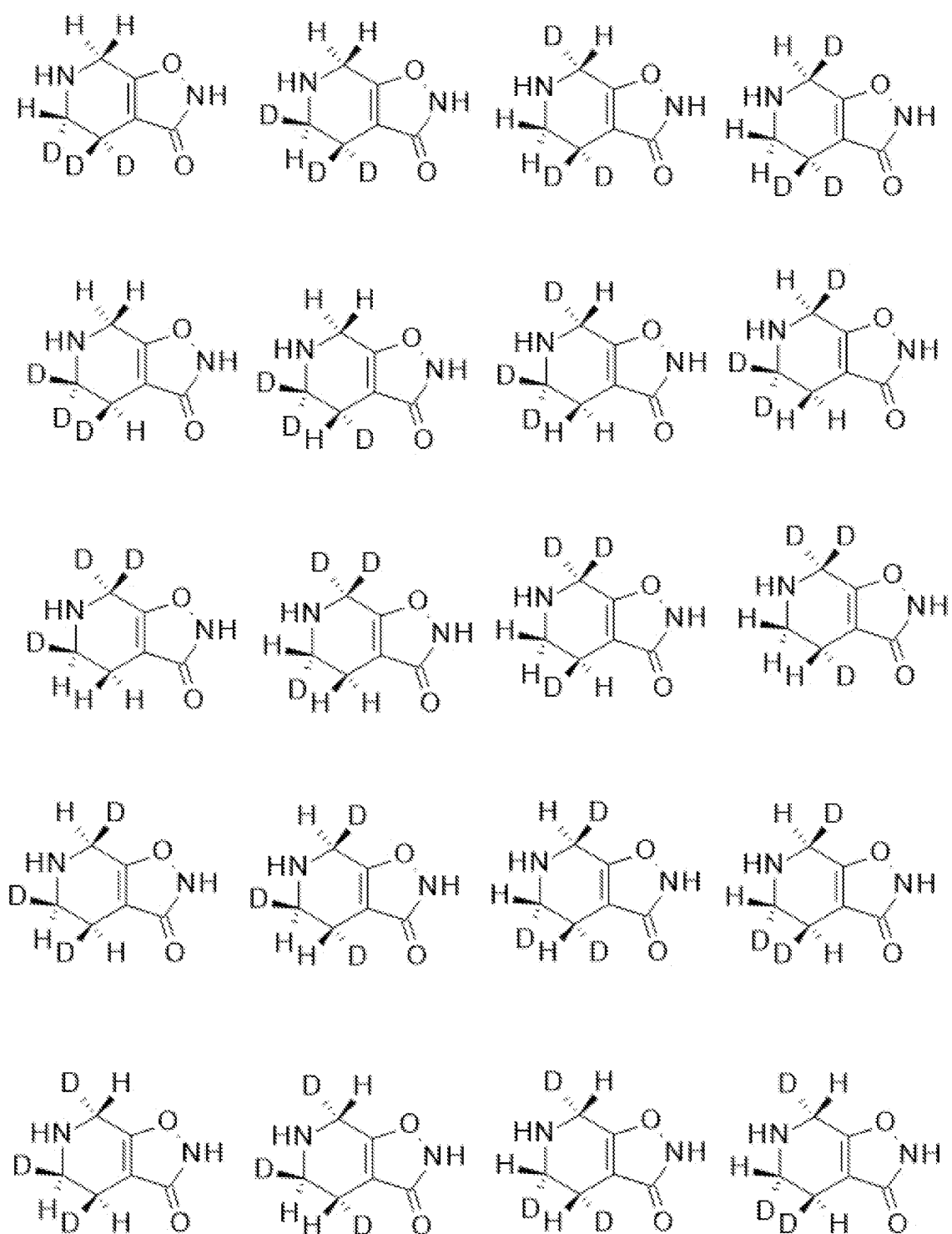


FIG.1C

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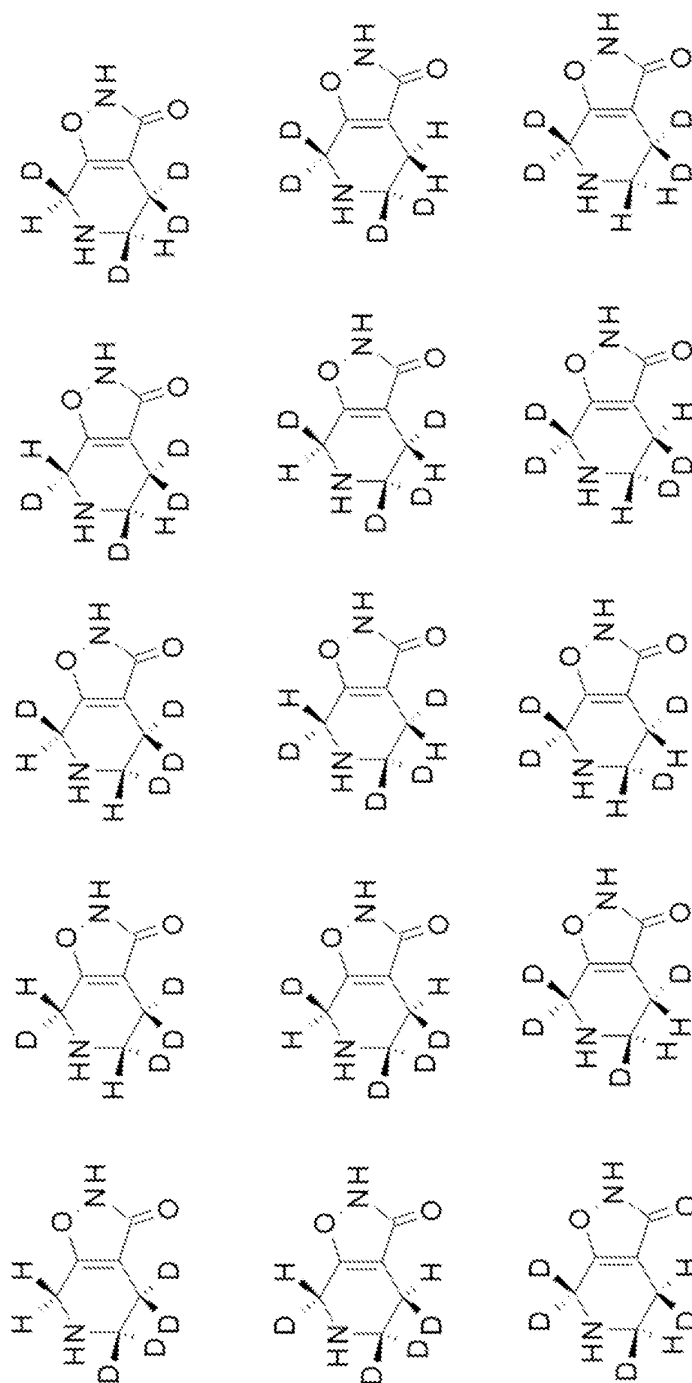


FIG.1D

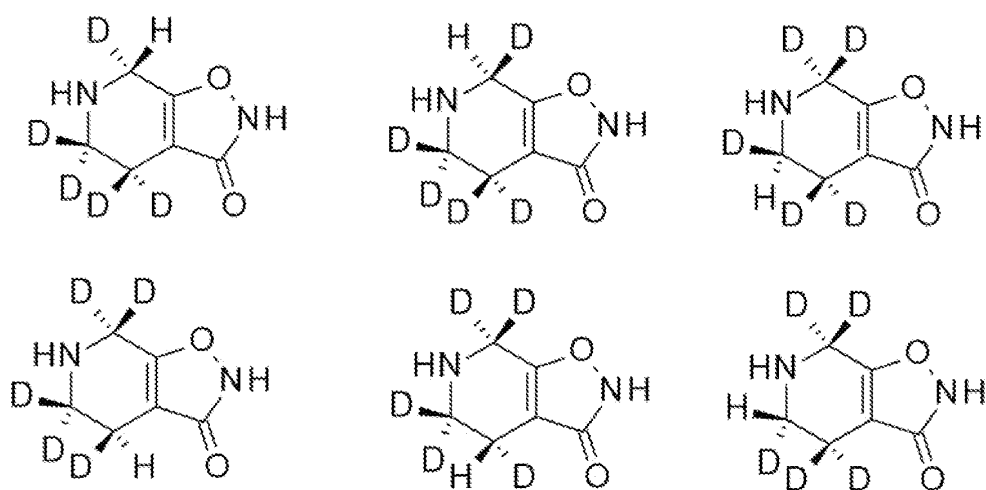


FIG. 1E

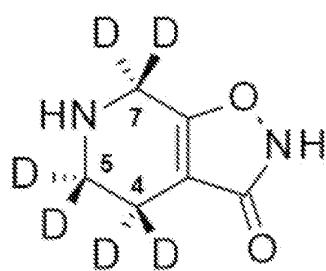
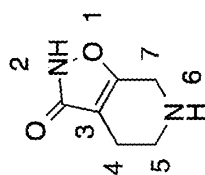
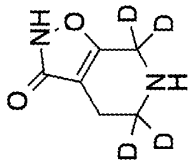


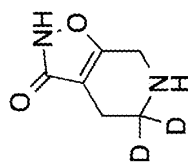
FIG. 1F



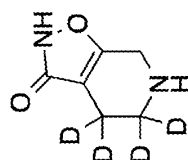
4,5,6,7-tetrahydroisoxazolo[5,4-c]pyridin-3(2H)-one-7,7- d_2



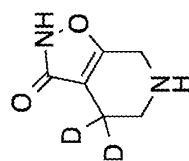
4,5,6,7-tetrahydroisoxazolo[5,4-c]pyridin-3(2H)-one-5,5,7,7- d_4



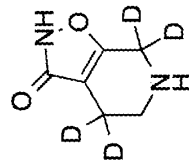
4,5,6,7-tetrahydroisoxazolo[5,4-c]pyridin-3(2H)-one-5,5- d_2



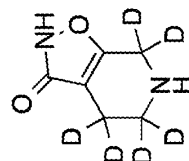
4,5,6,7-tetrahydroisoxazolo[5,4-c]pyridin-3(2H)-one-4,4,5,5- d_4



4,5,6,7-tetrahydroisoxazolo[5,4-c]pyridin-3(2H)-one-4,4- d_2

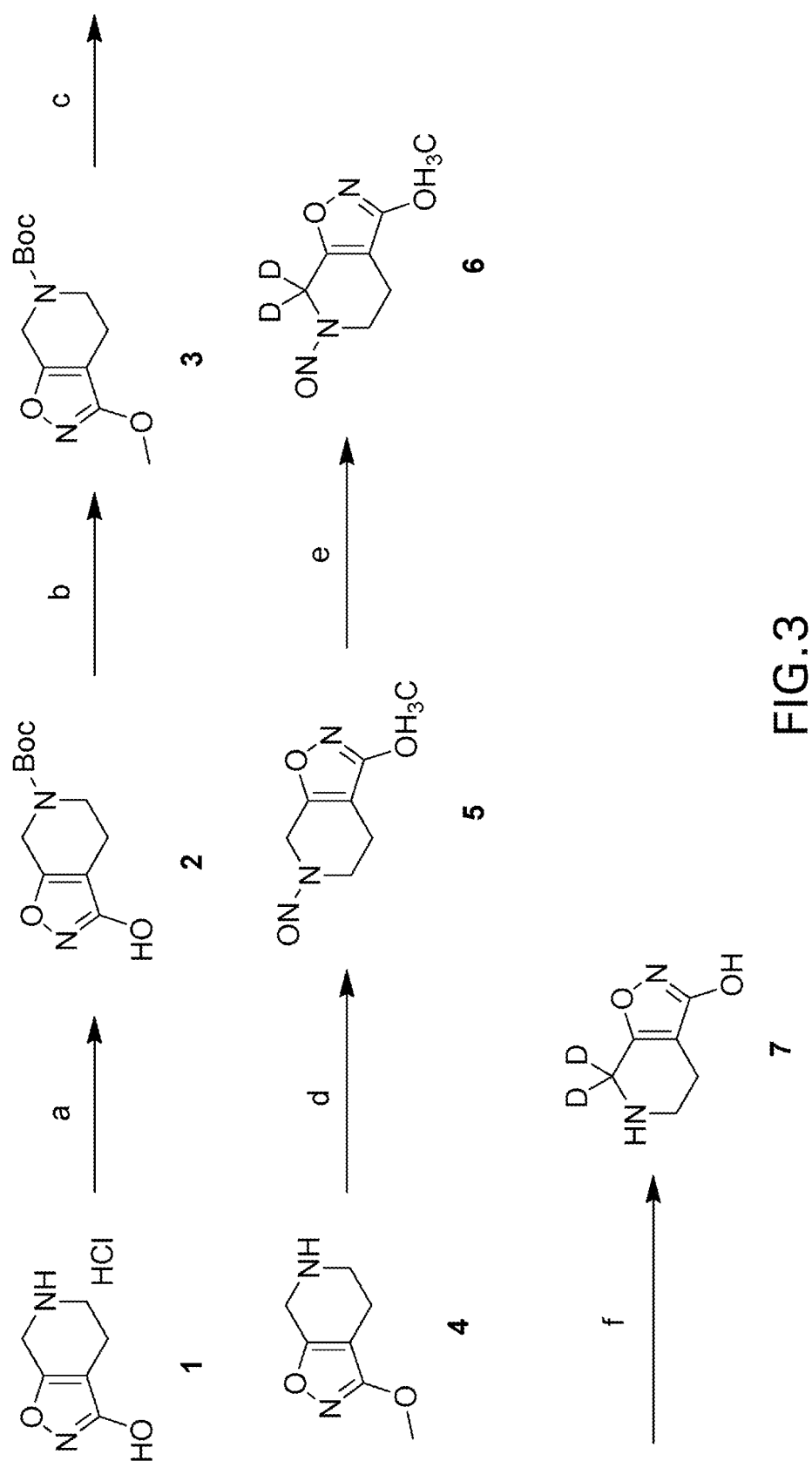


4,5,6,7-tetrahydroisoxazolo[5,4-c]pyridin-3(2H)-one-4,4,7,7- d_4



4,5,6,7-tetrahydroisoxazolo[5,4-c]pyridin-3(2H)-one-4,4,5,5,7,7- d_6

FIG.2



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FIG.3

Applicant Identification	Test Items	Test Result	Test Methods	Note
D2-THIP	Isotype abundance	91.35% d2-gaboxadol	ESI-MS, SCAN, ESI(+)	/

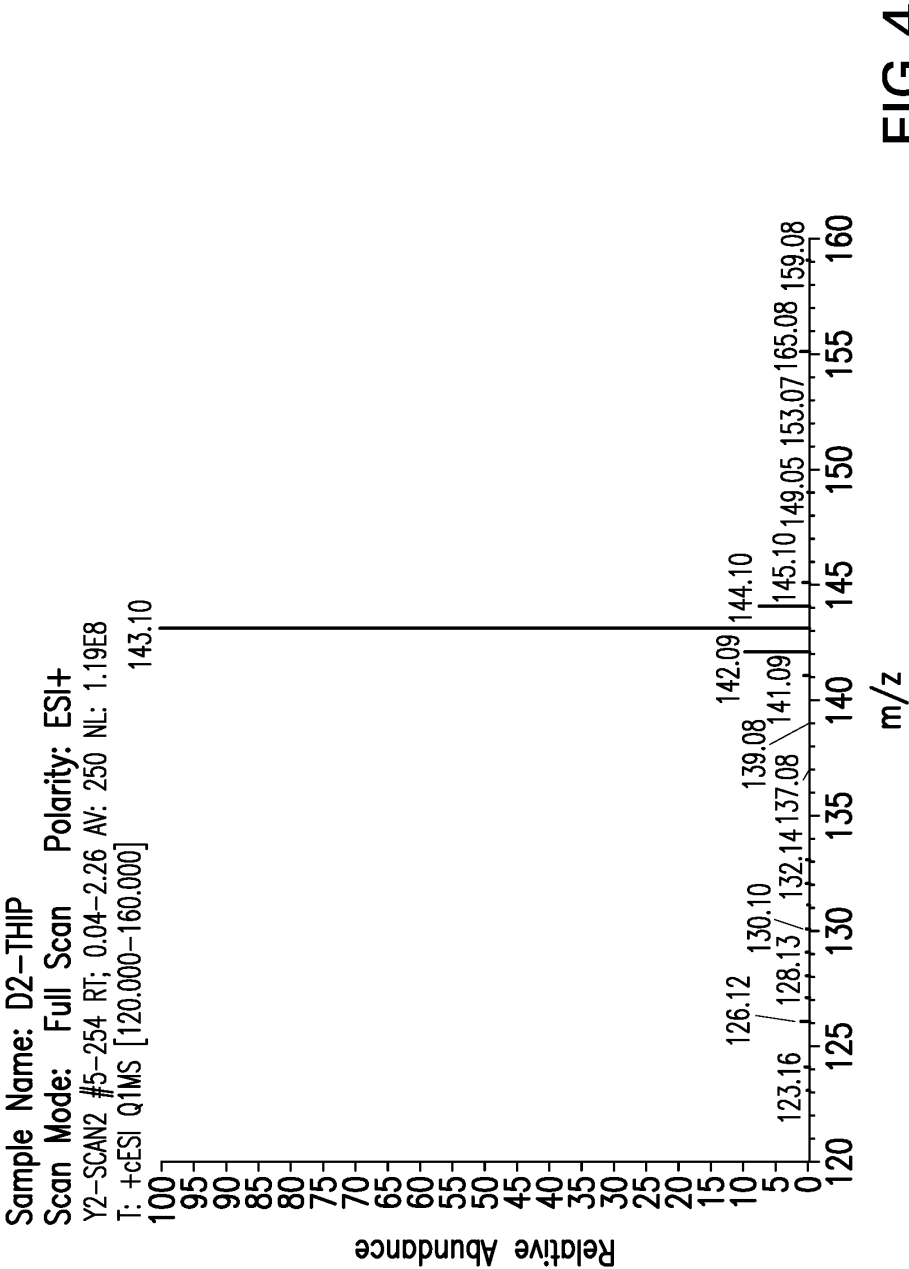


FIG.4

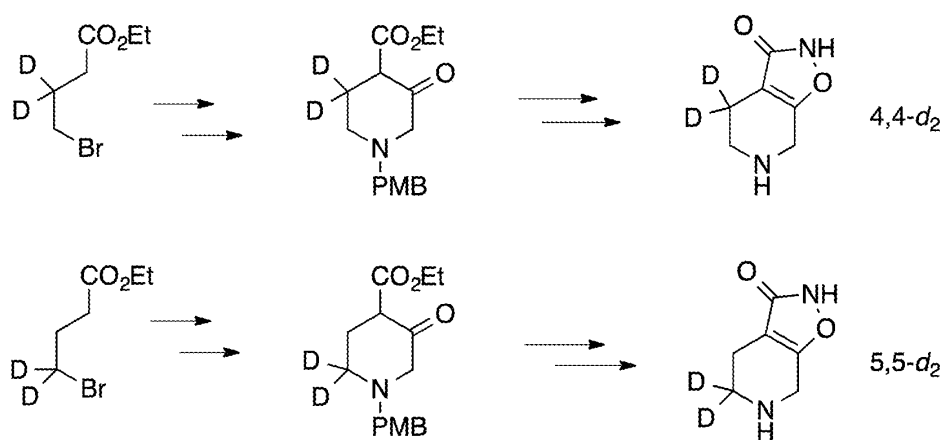


FIG.5

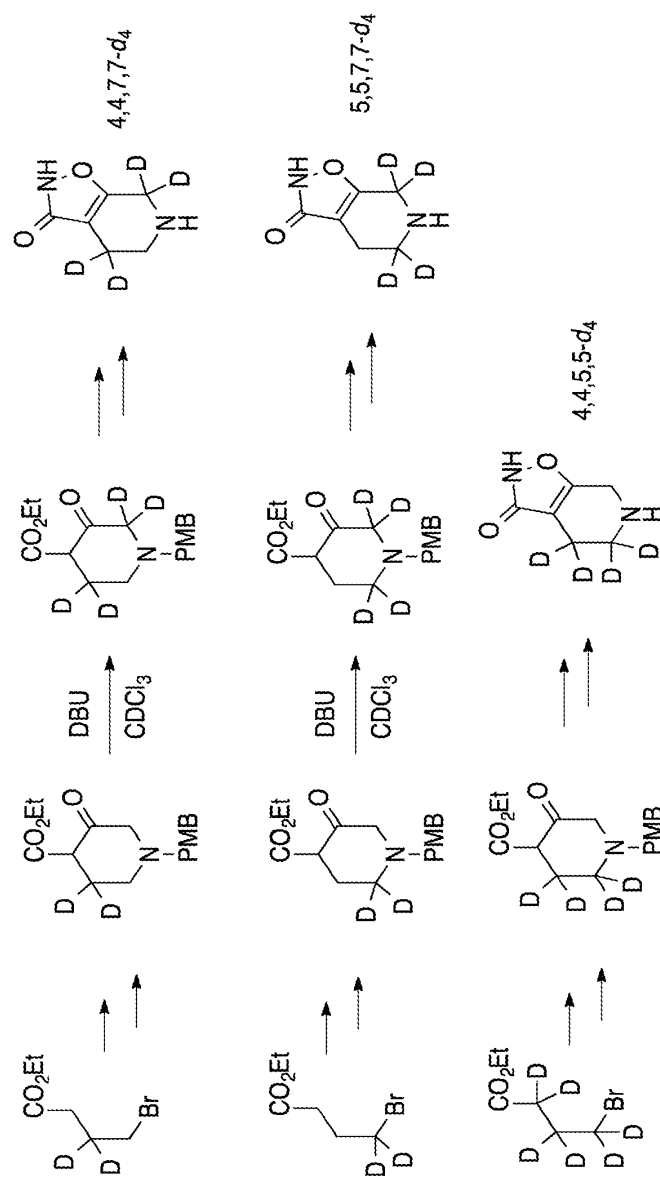


FIG.6

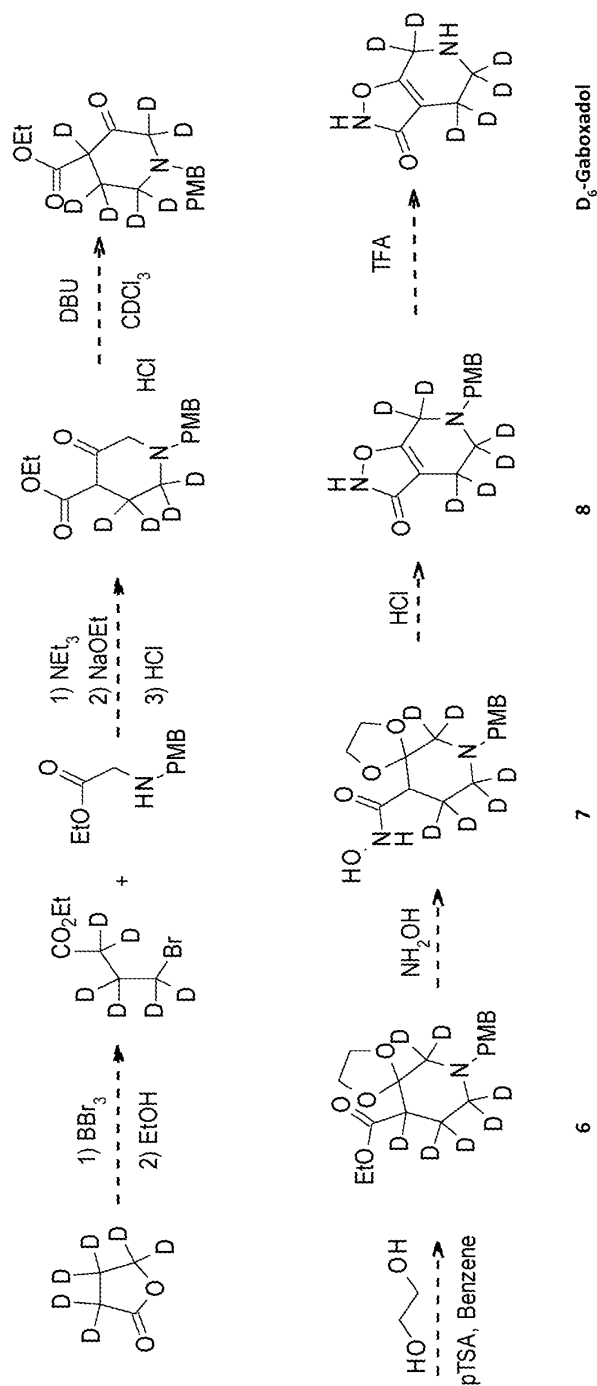


FIG. 7

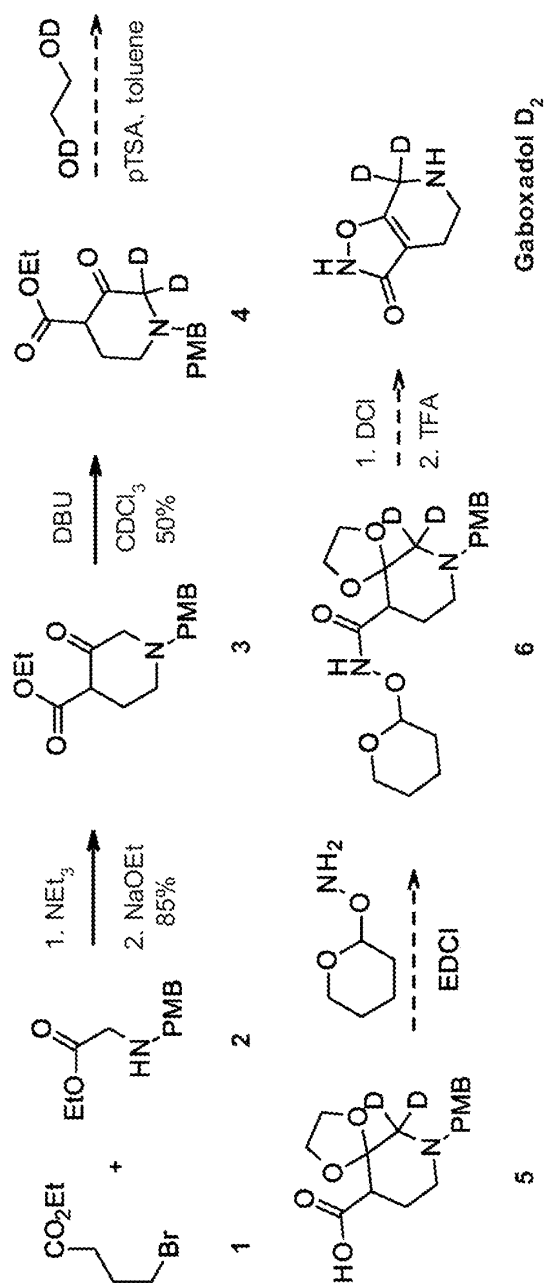
Synthesis of Gaboxadol-d₂

FIG.8

Synthesis of Gaboxadol-d4

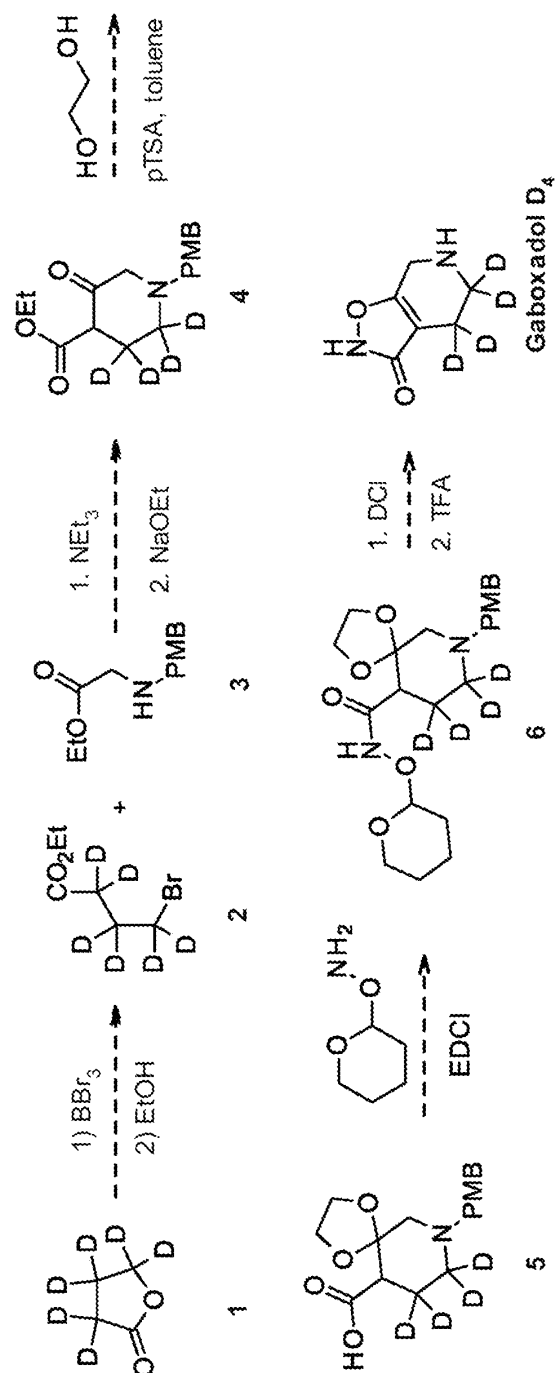


FIG.9

Synthesis of Gaboxadol-d6

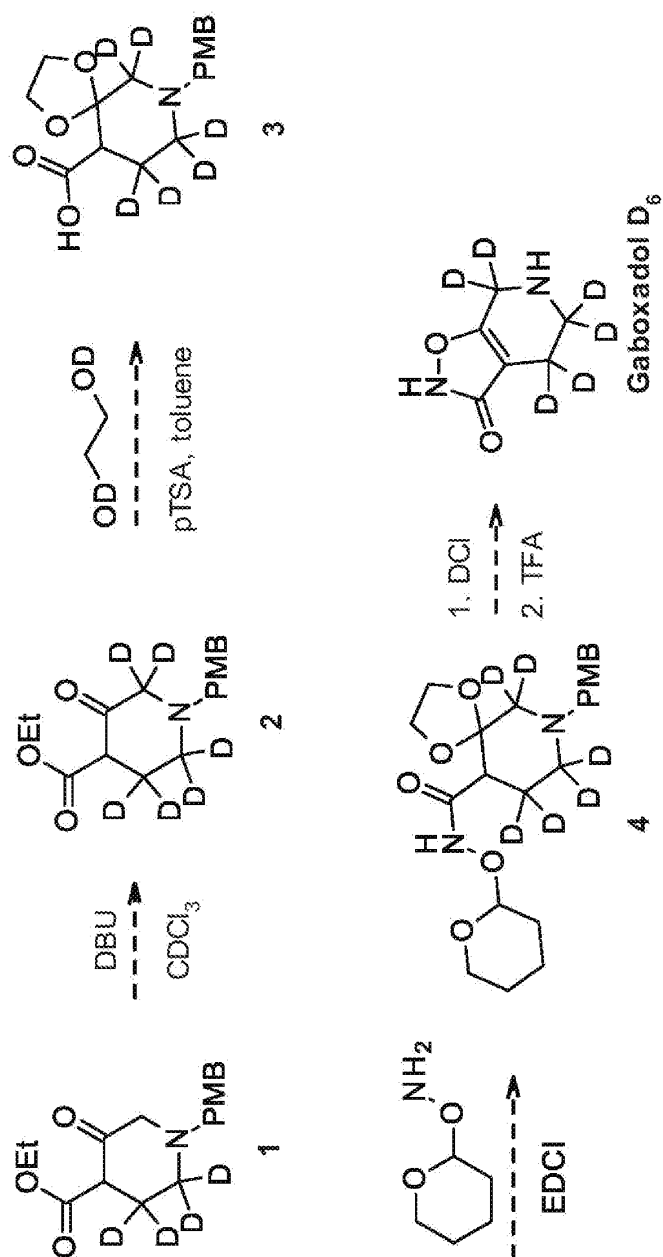


FIG. 10

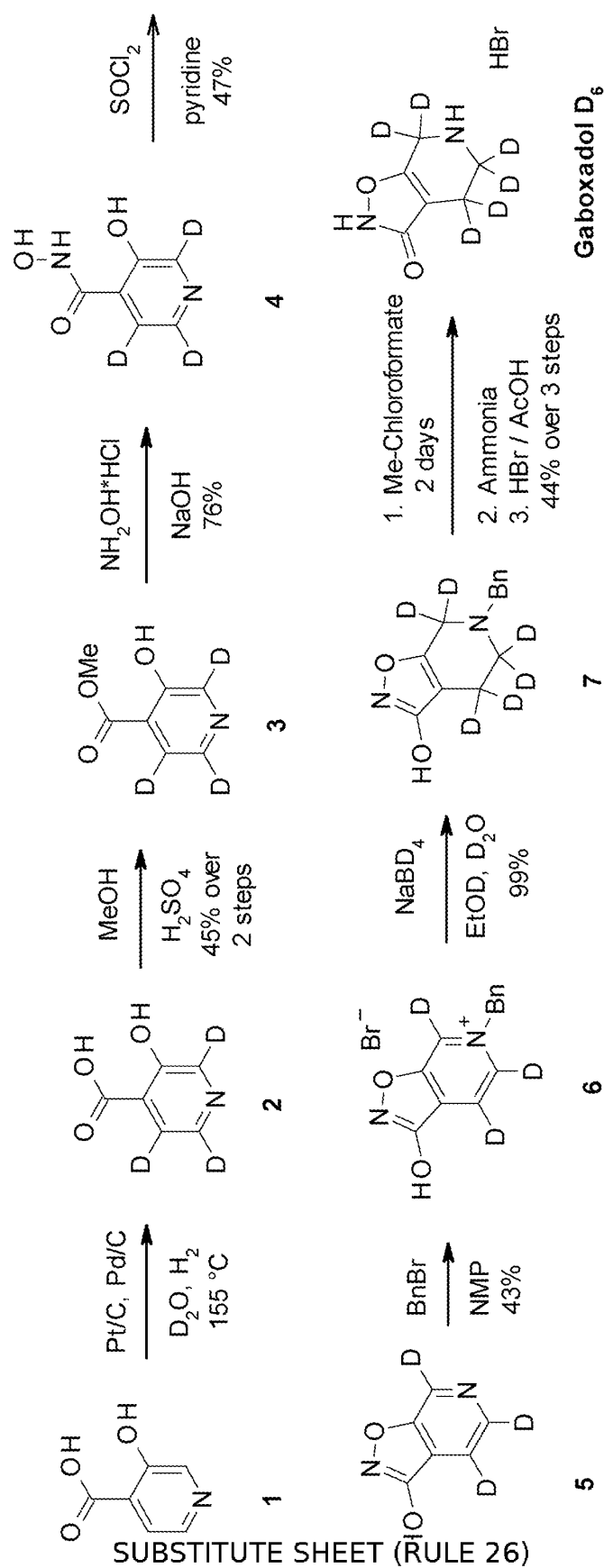


FIG.11

FIG. 12

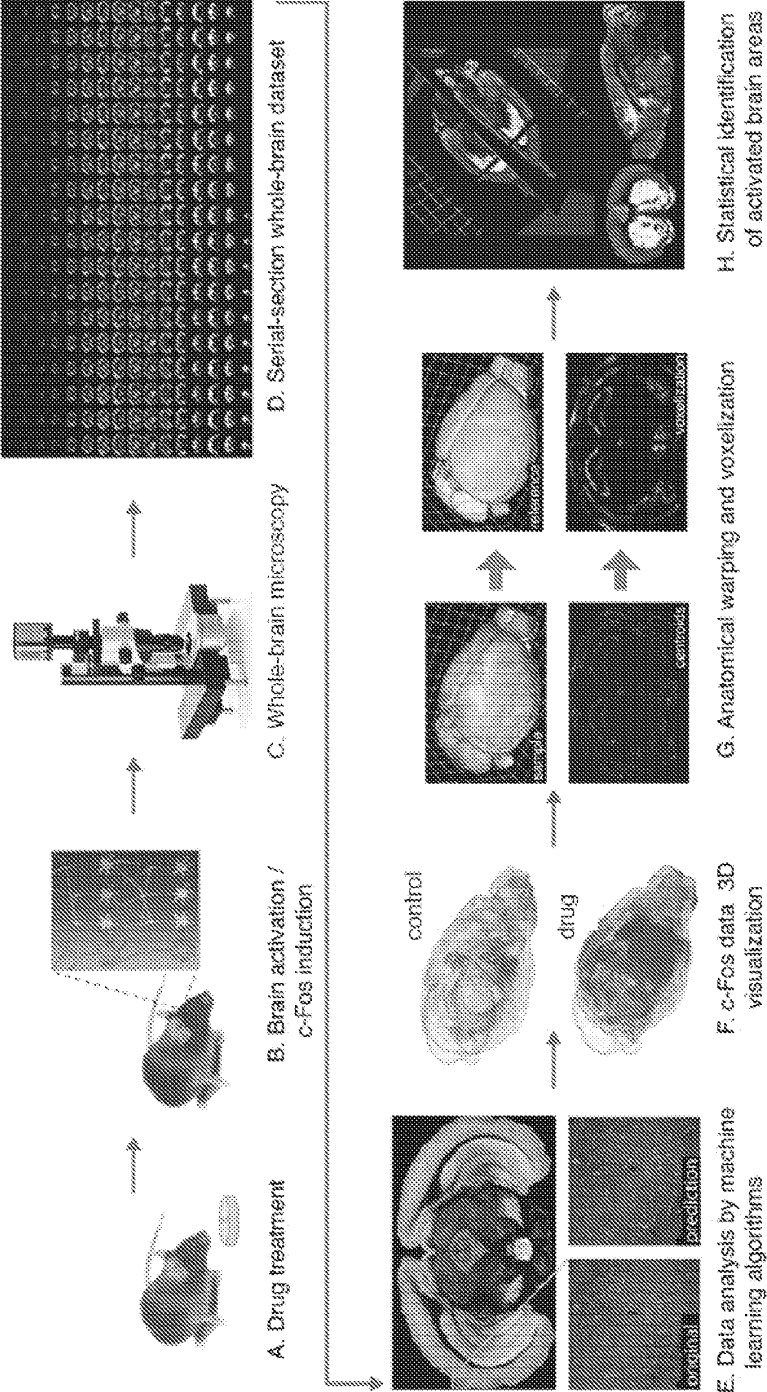


FIG. 13

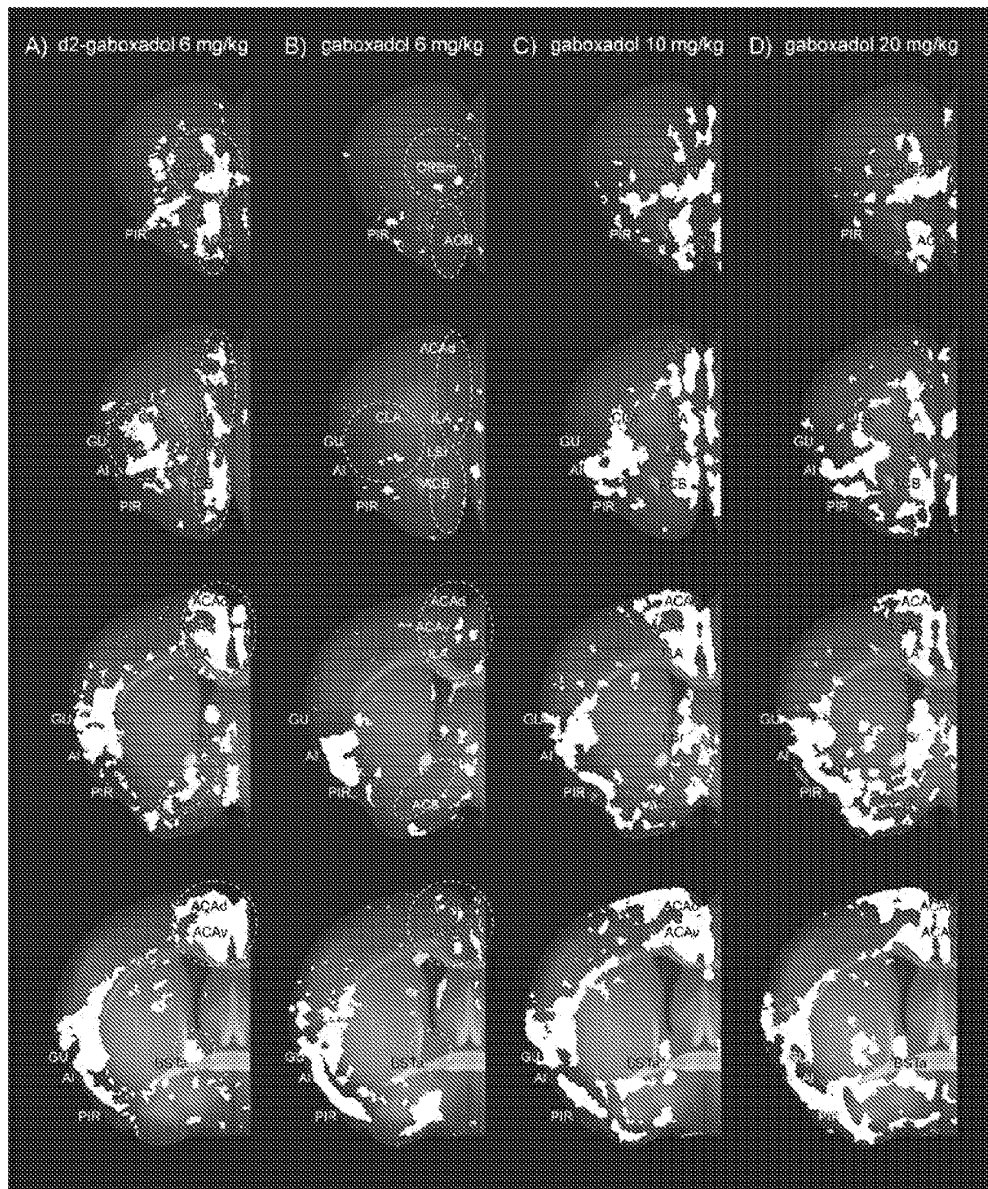


FIG. 14

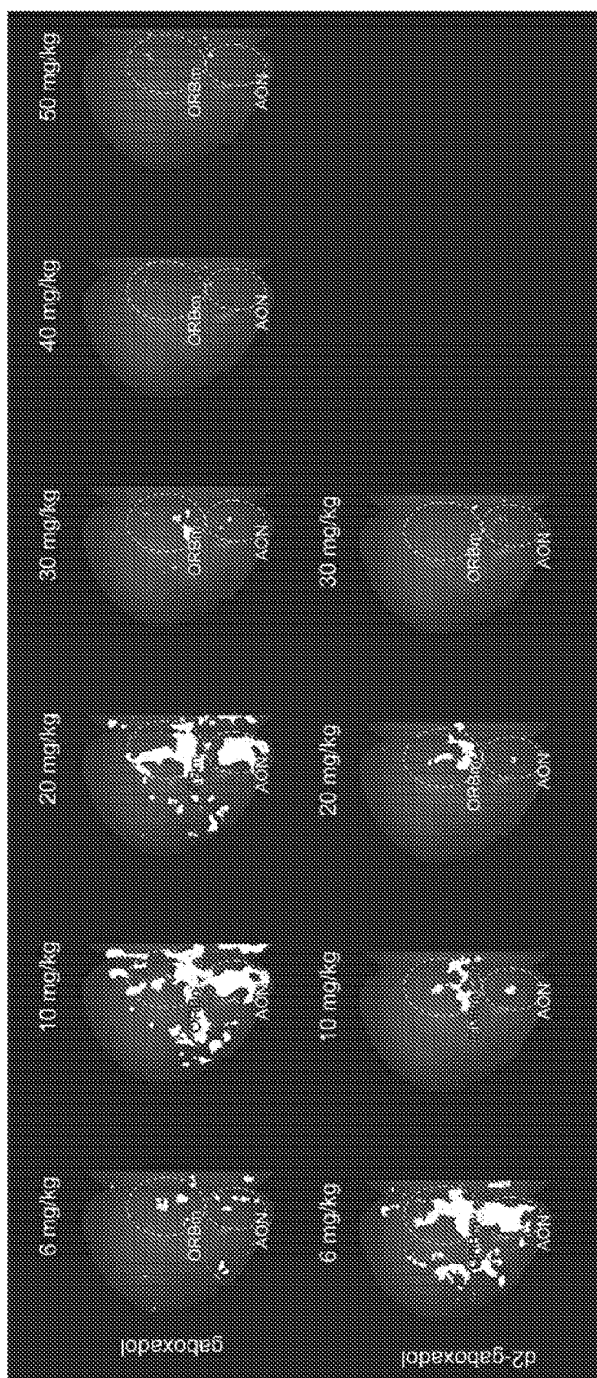


FIG. 15

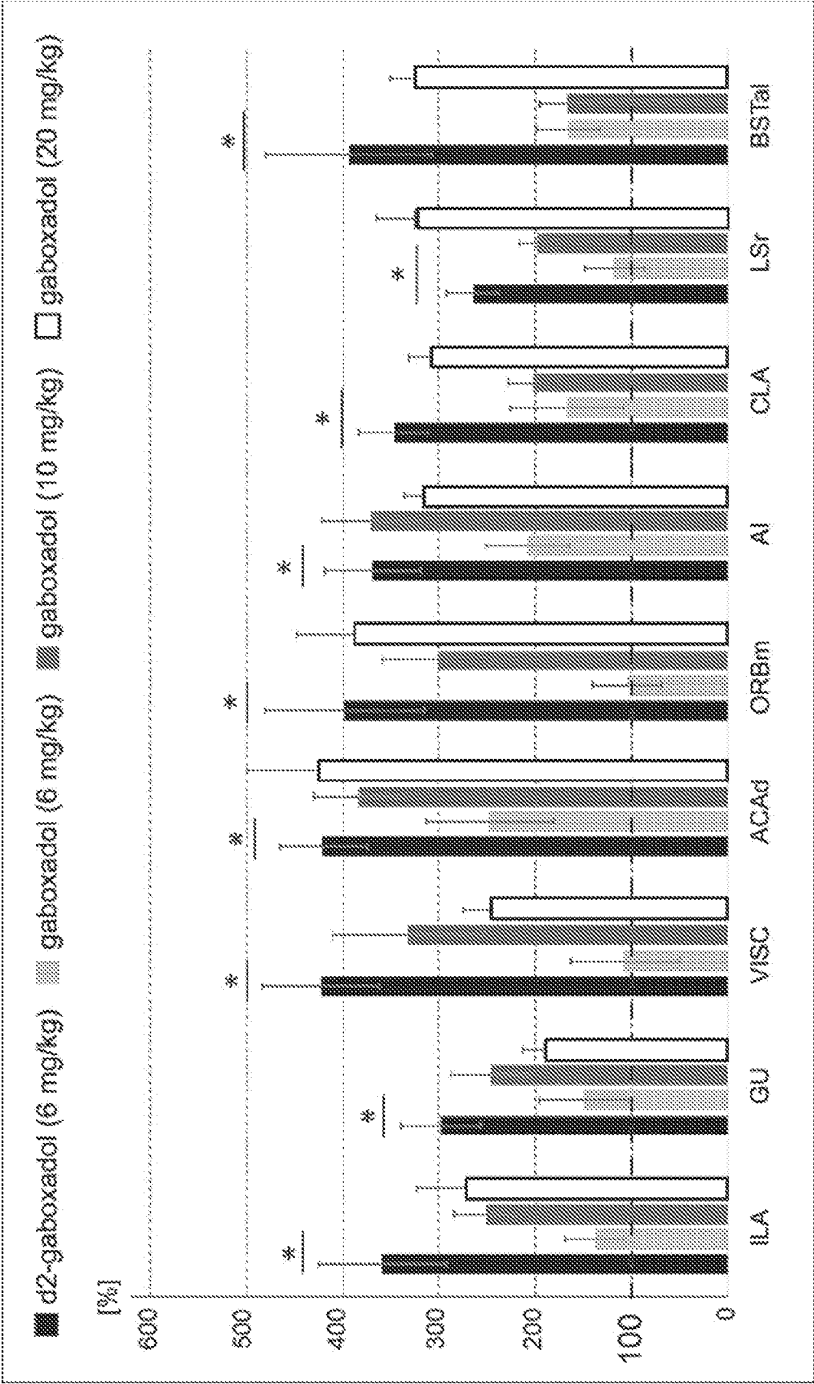


FIG. 16

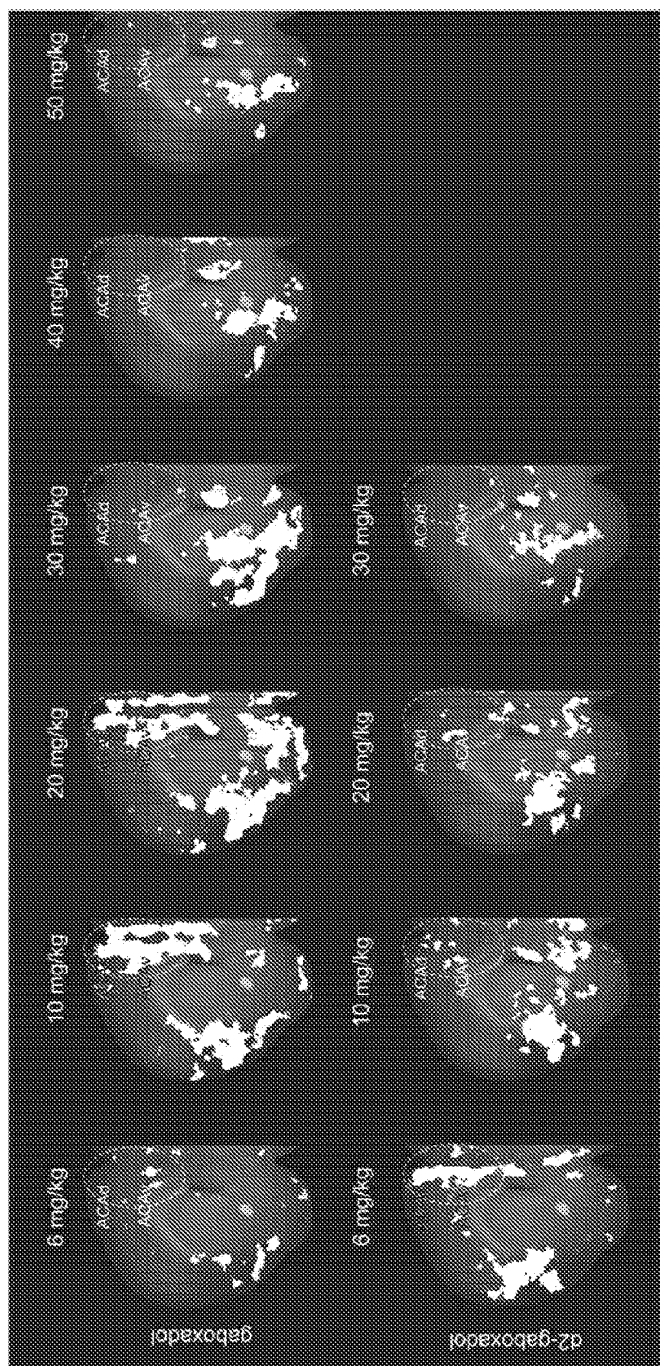


FIG. 17

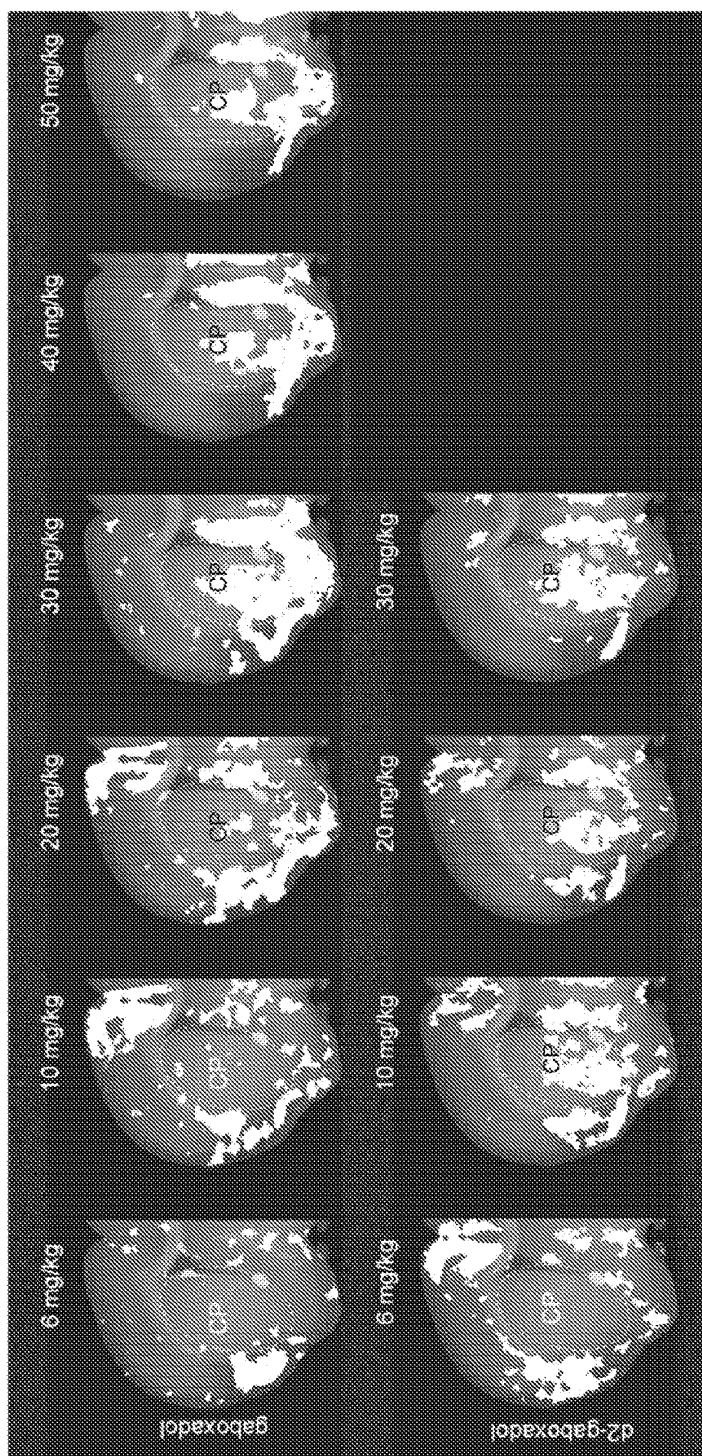


FIG. 18

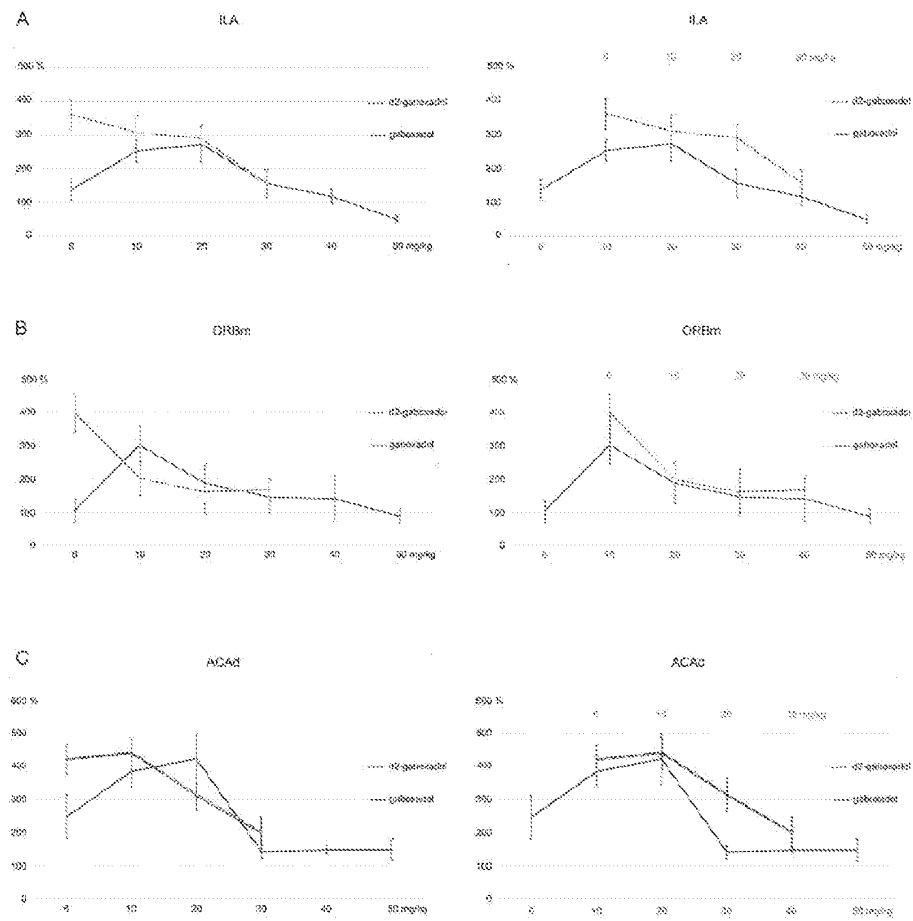


FIG. 19

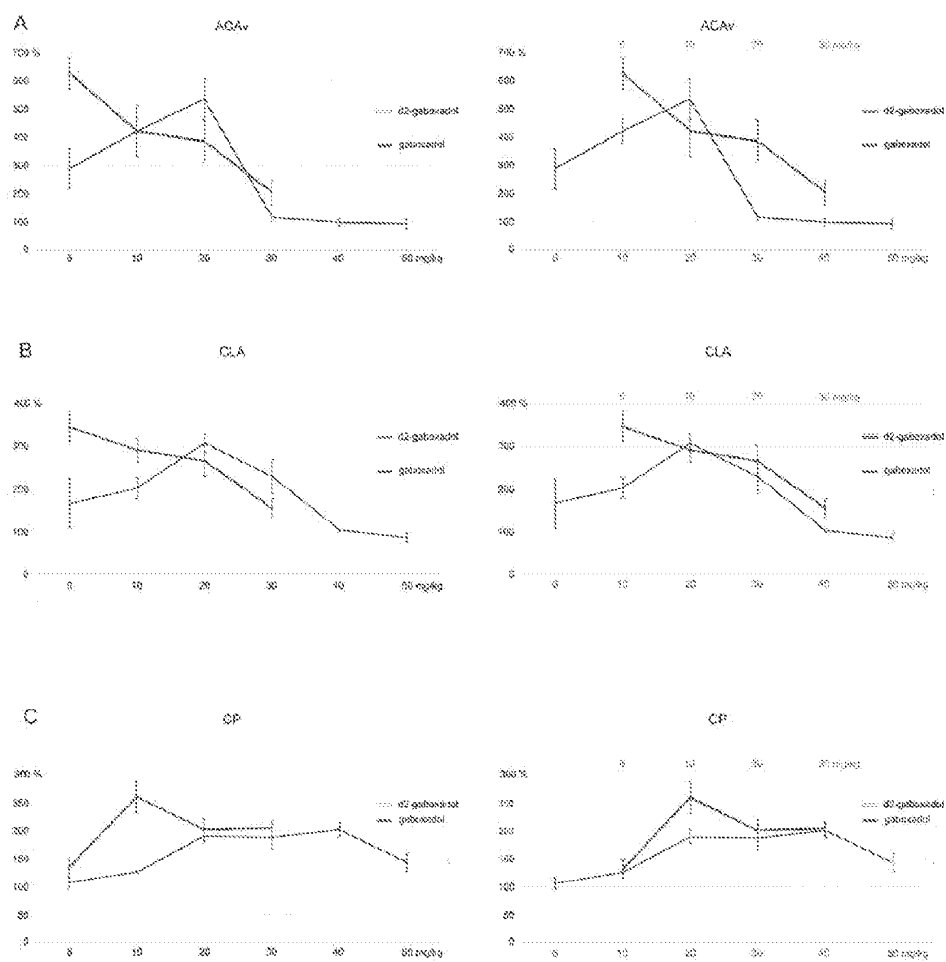


FIG. 20

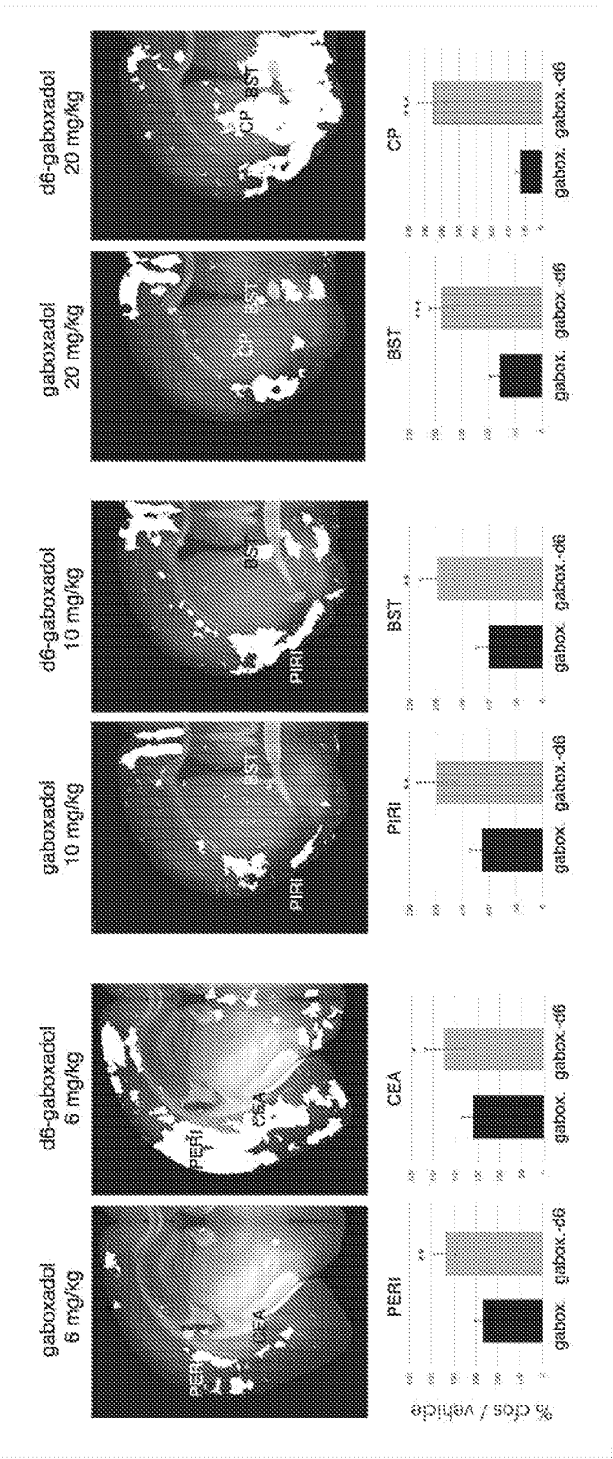


FIG. 21

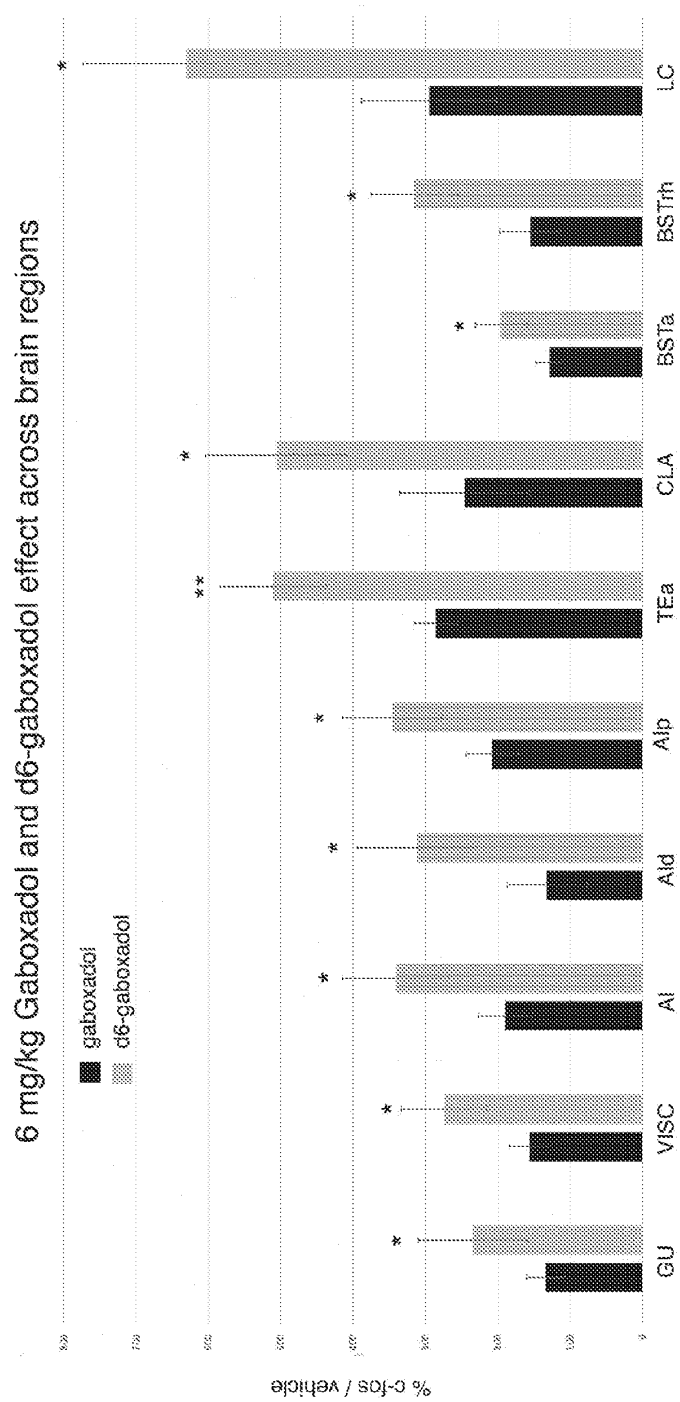


FIG. 22

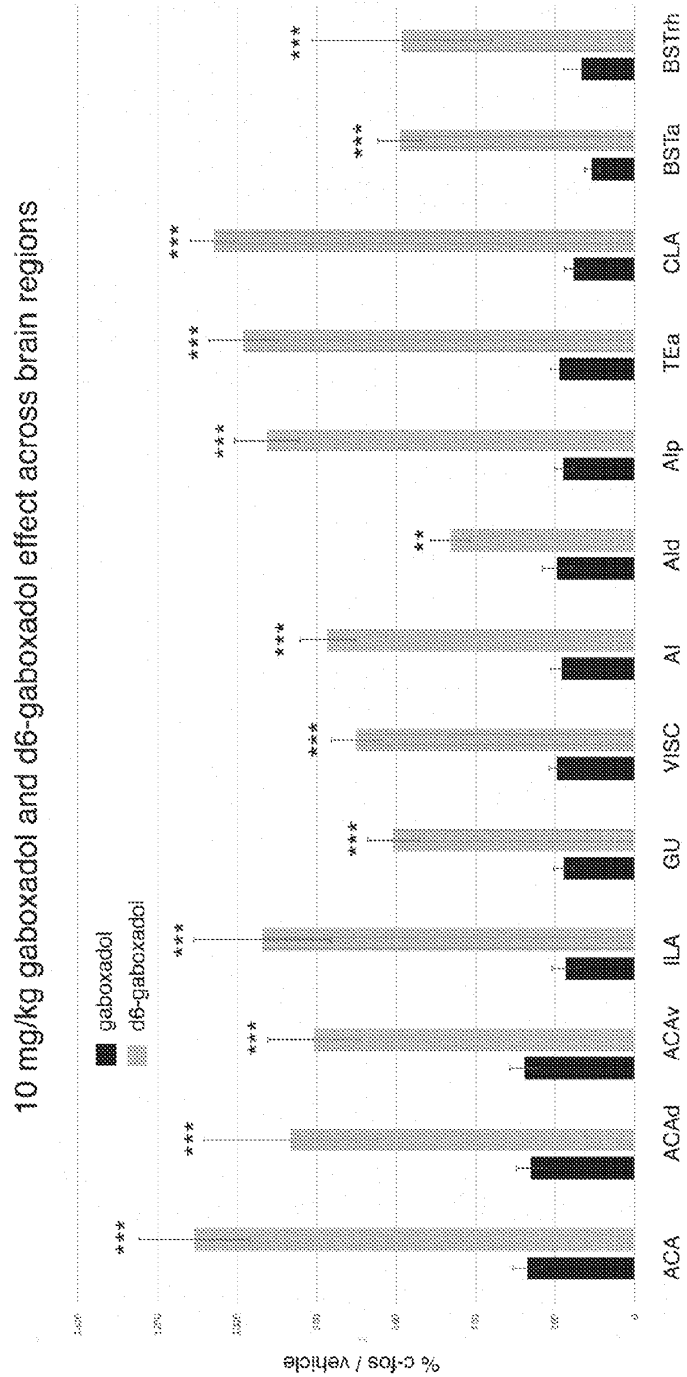
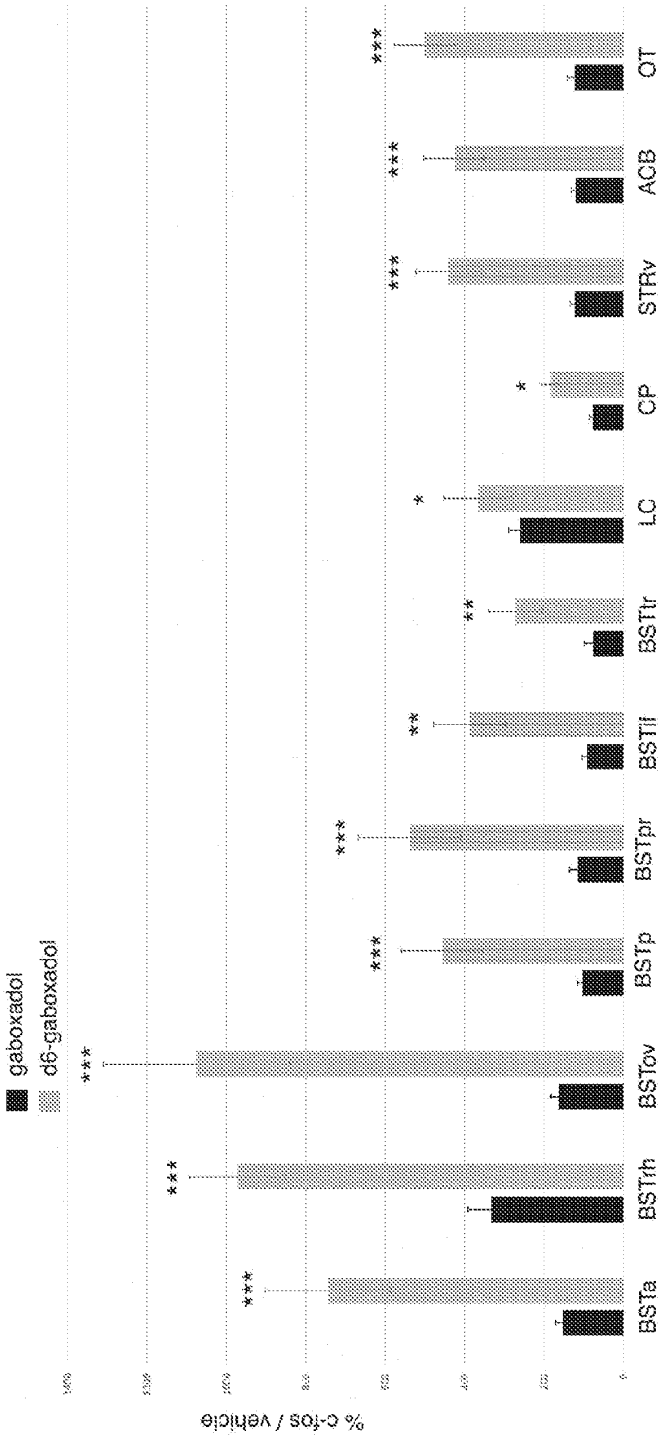


FIG. 23

20 mg/kg gaboxadol and d6-gaboxadol effect across brain regions



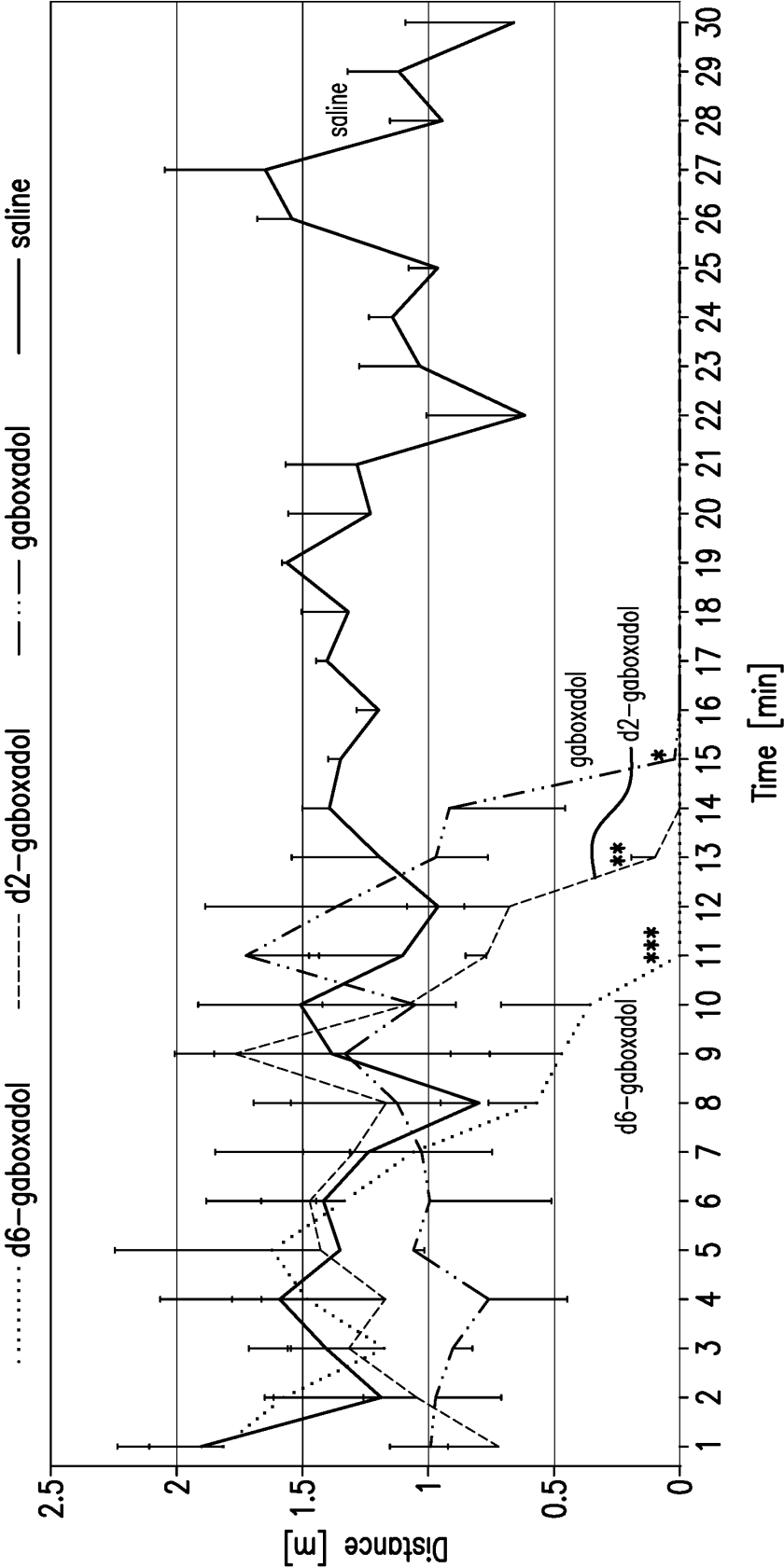


FIG.24

Figure 25: Ketamine dose-curve pharmacomaps.

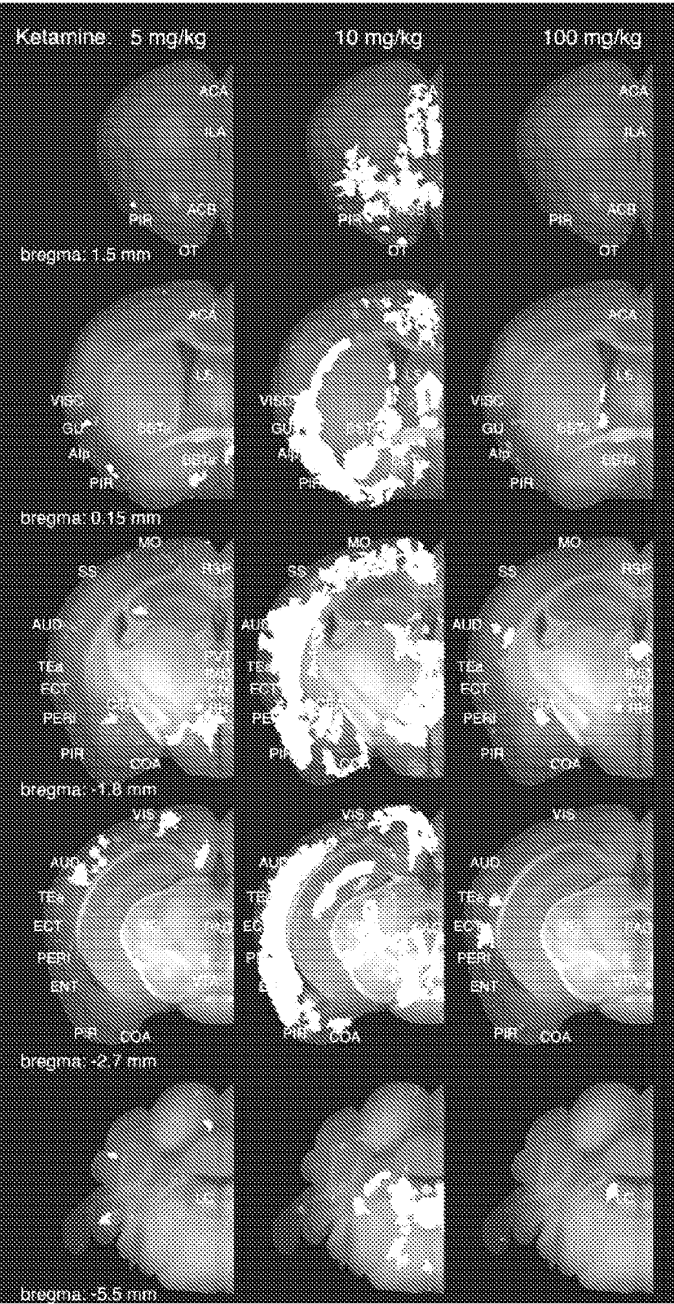


Figure 26: Gaboxadol and Ketamine side-by-side pharmacomap comparison

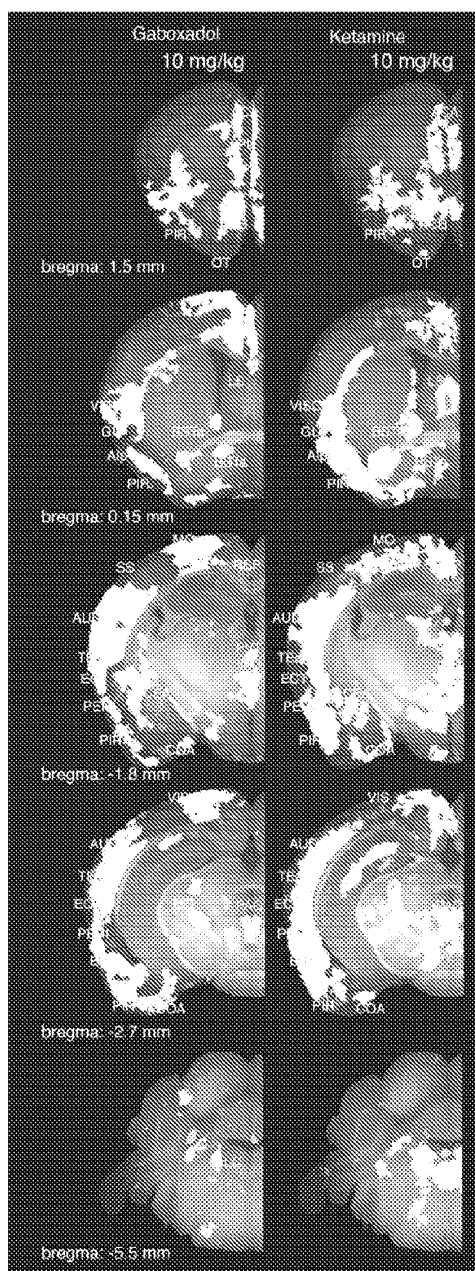
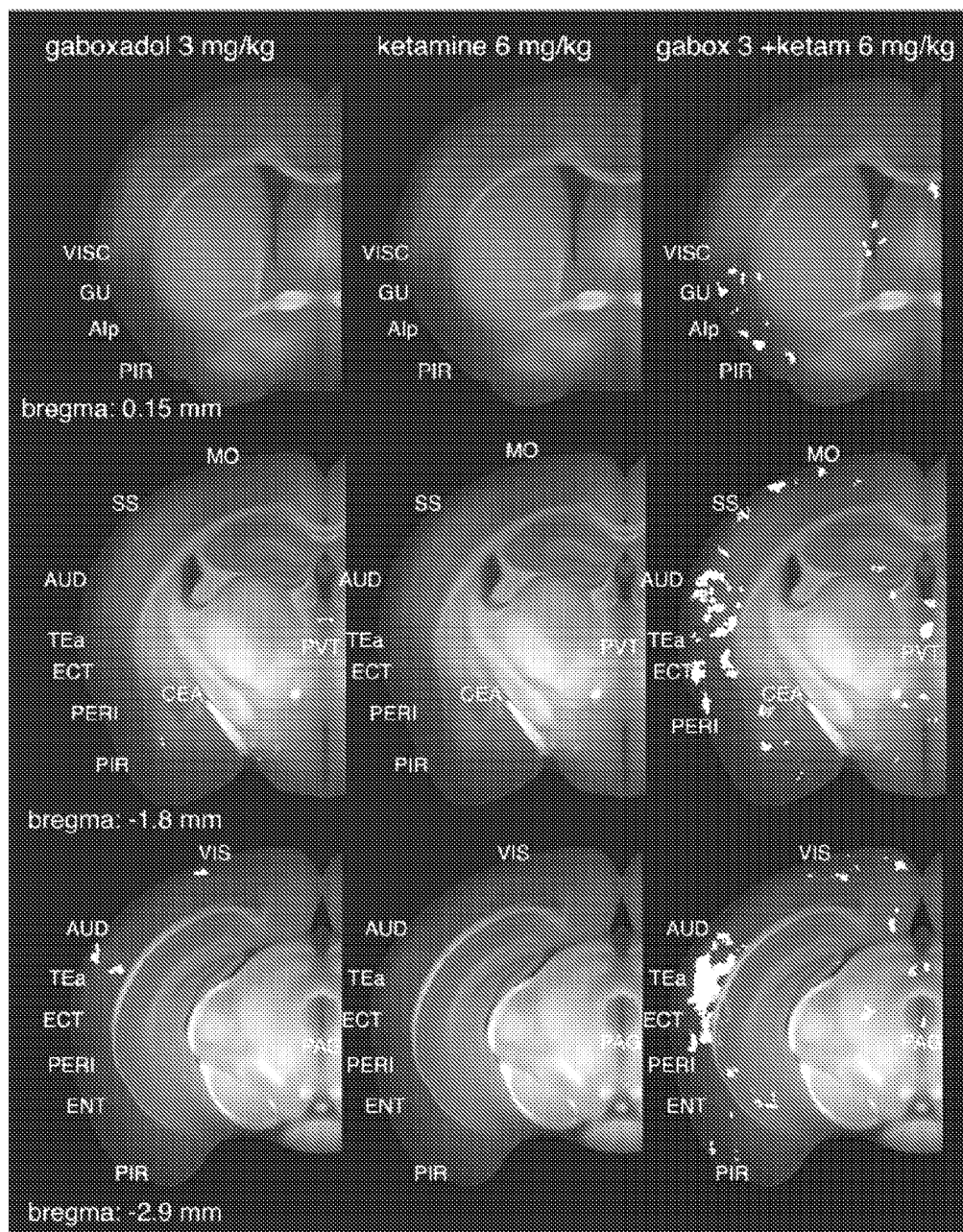
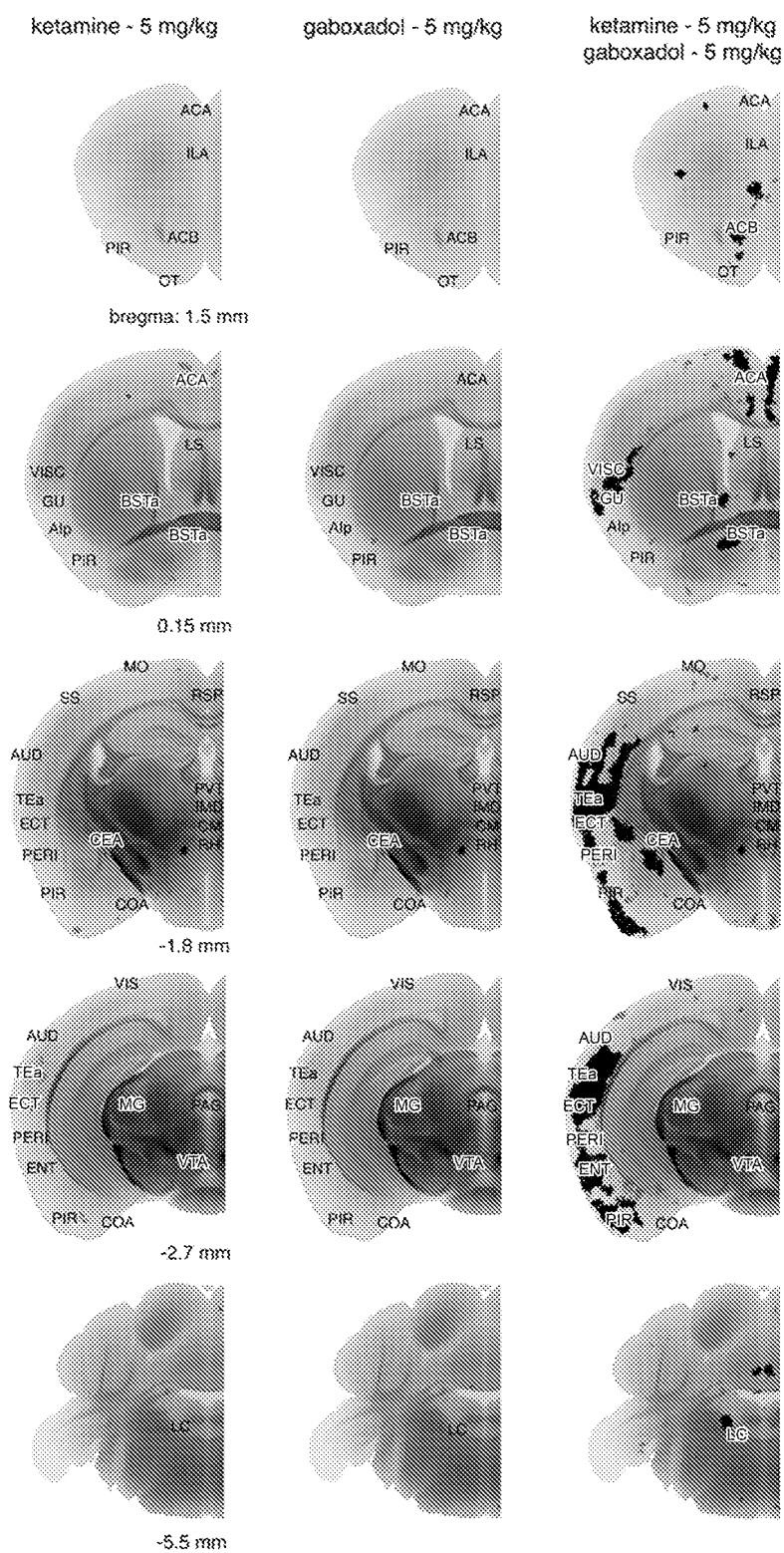


Figure 27A: Synergistic effect of co-application of gaboxadol and ketamine at sub-threshold doses



**Synergistic effect of co-application of gaboxadol
and ketamine at sub-threshold doses****FIG.27B**

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Figure 28: Forced Swim Test

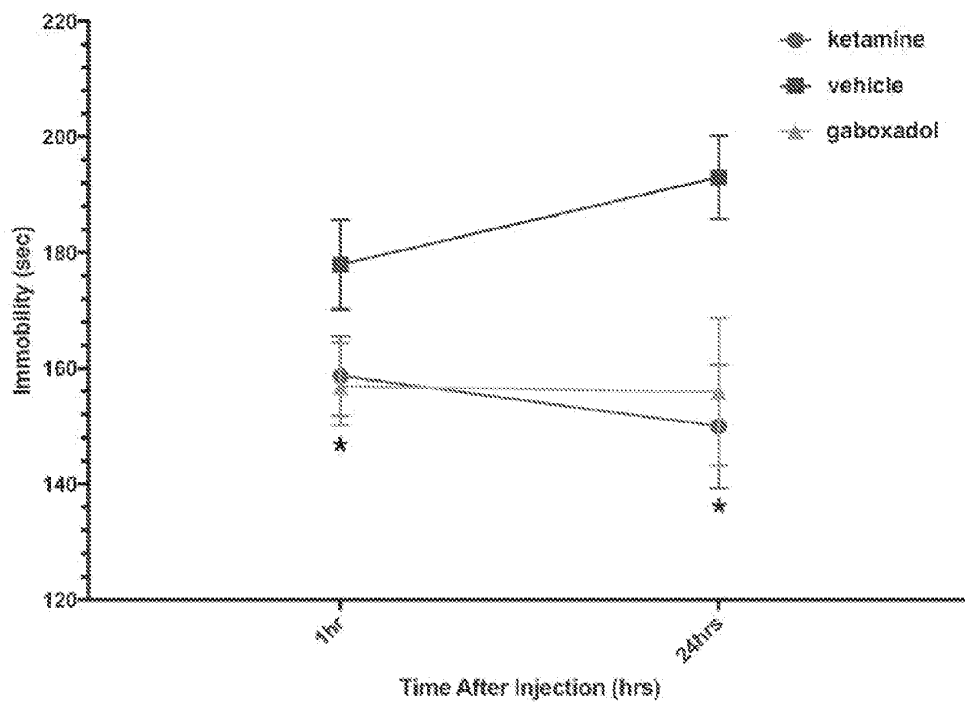


FIG. 29

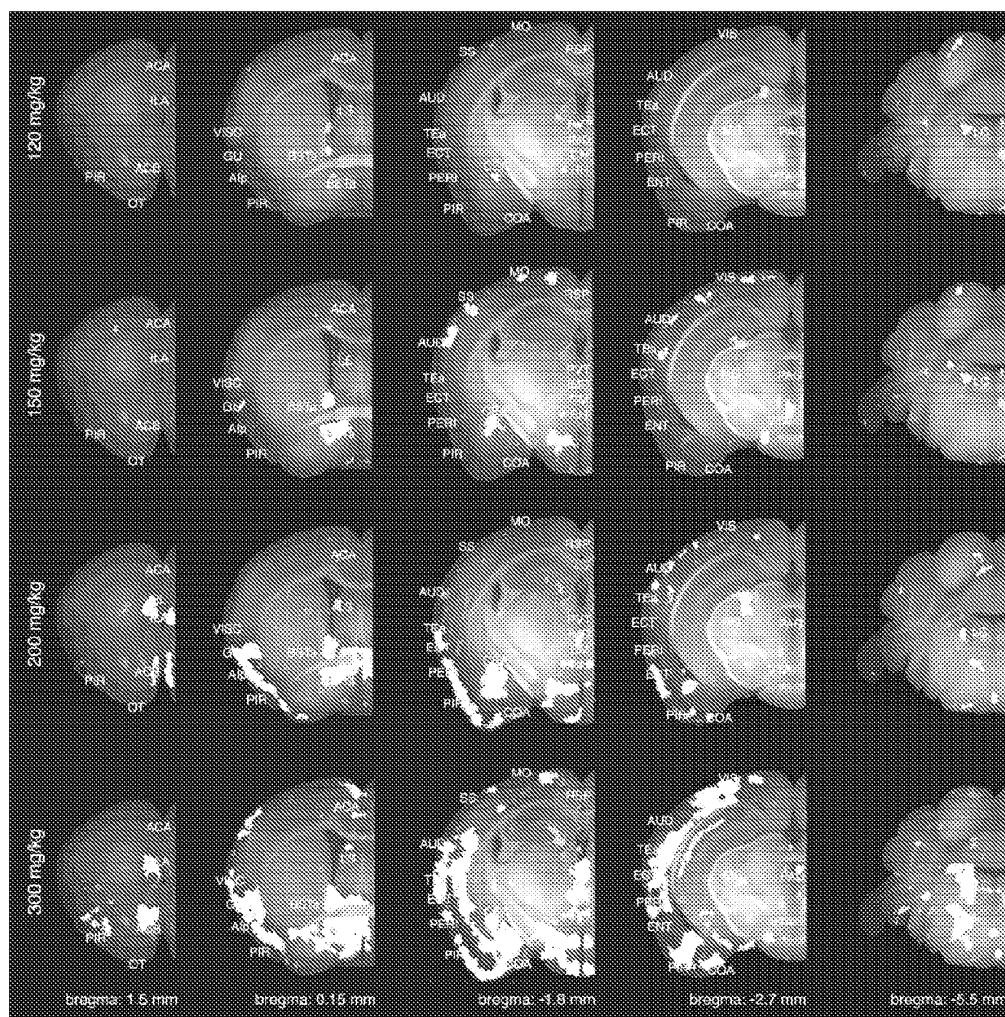


FIG. 31

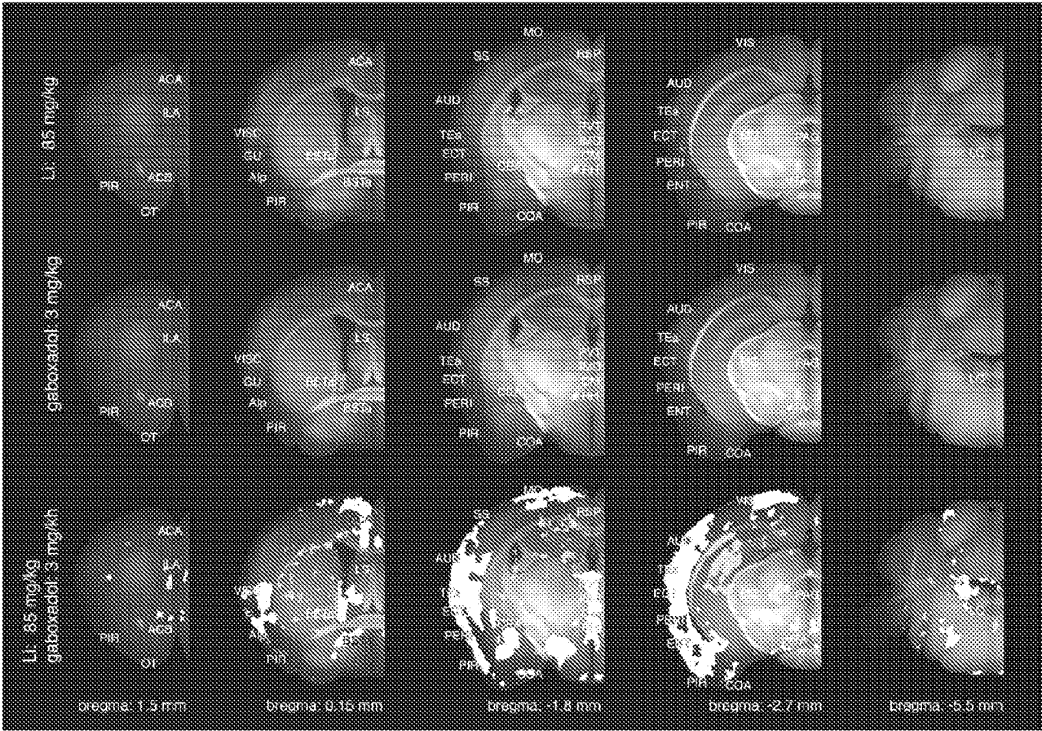


FIG. 32A

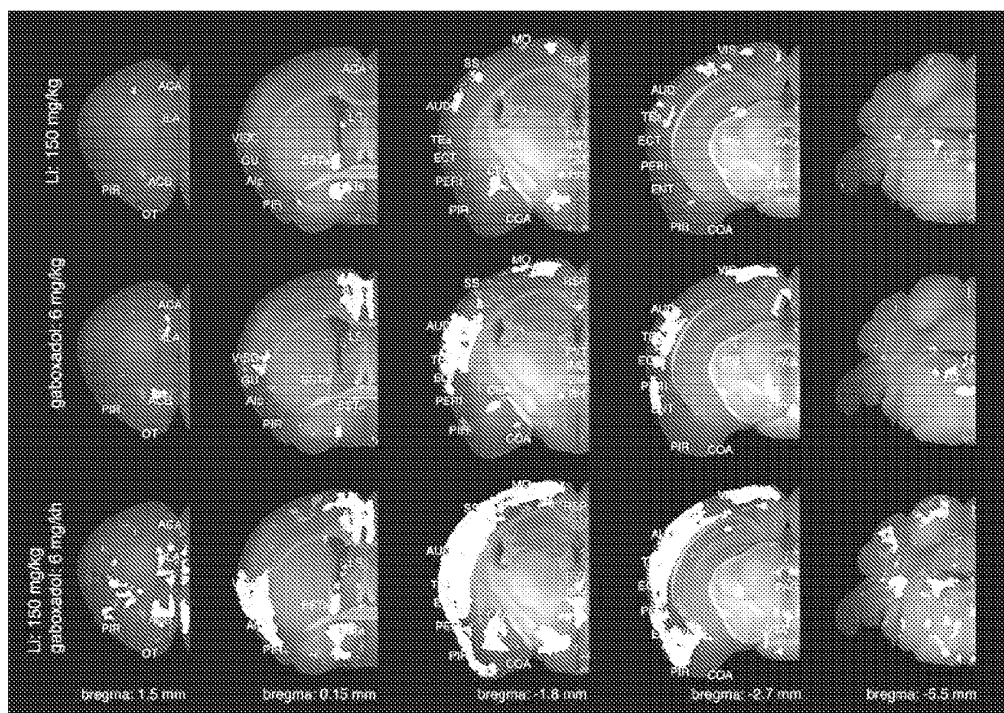


FIG. 32B

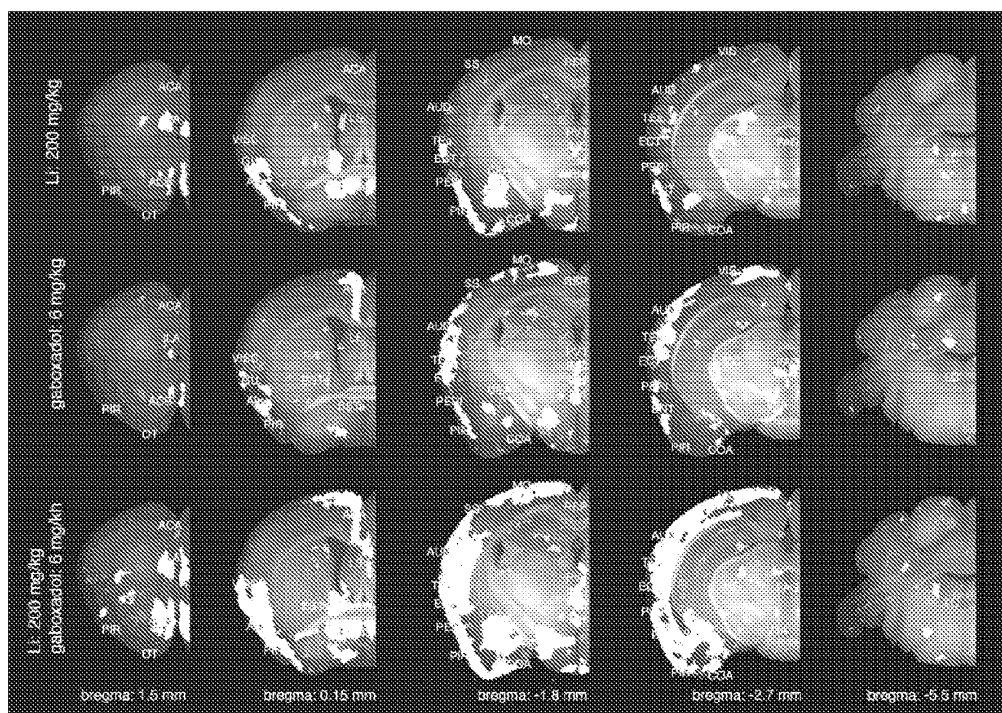


FIG. 33

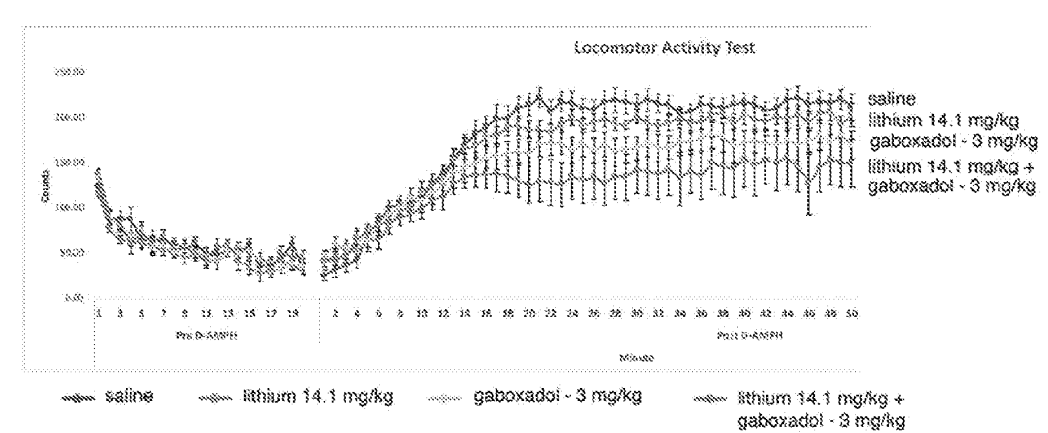


FIG. 34

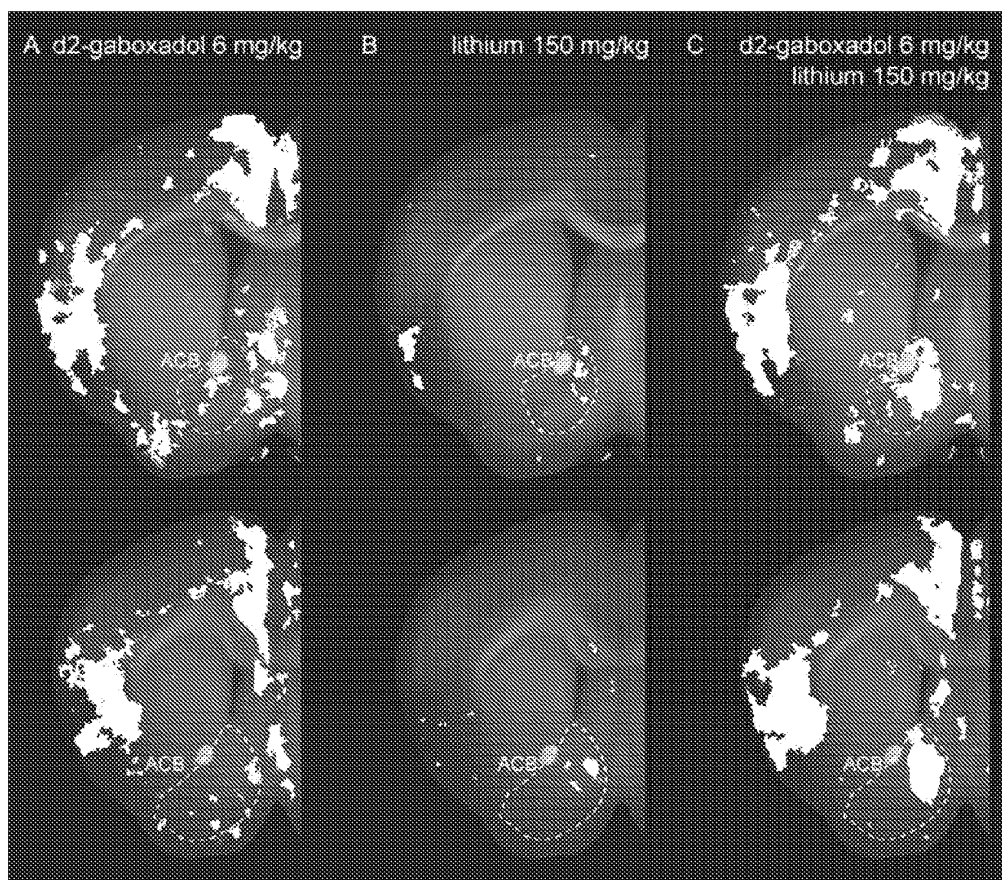


FIG. 35

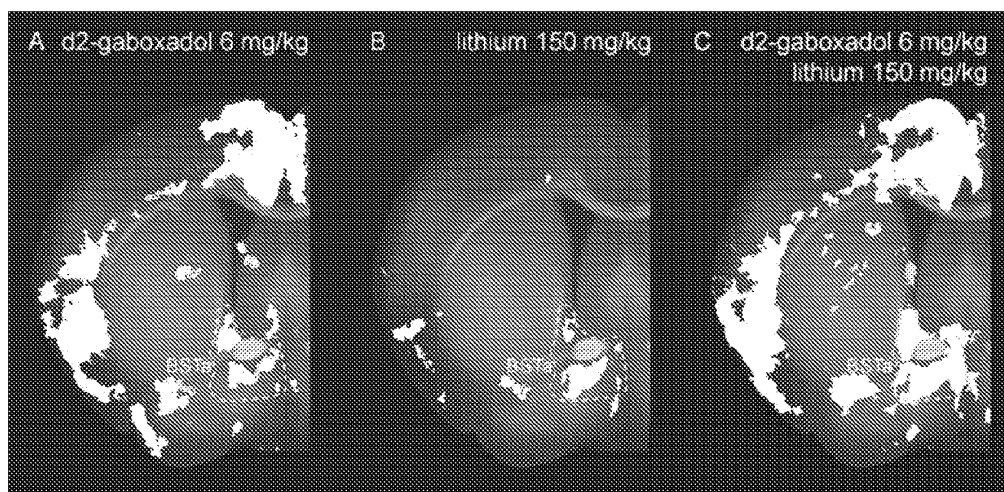


FIG. 36

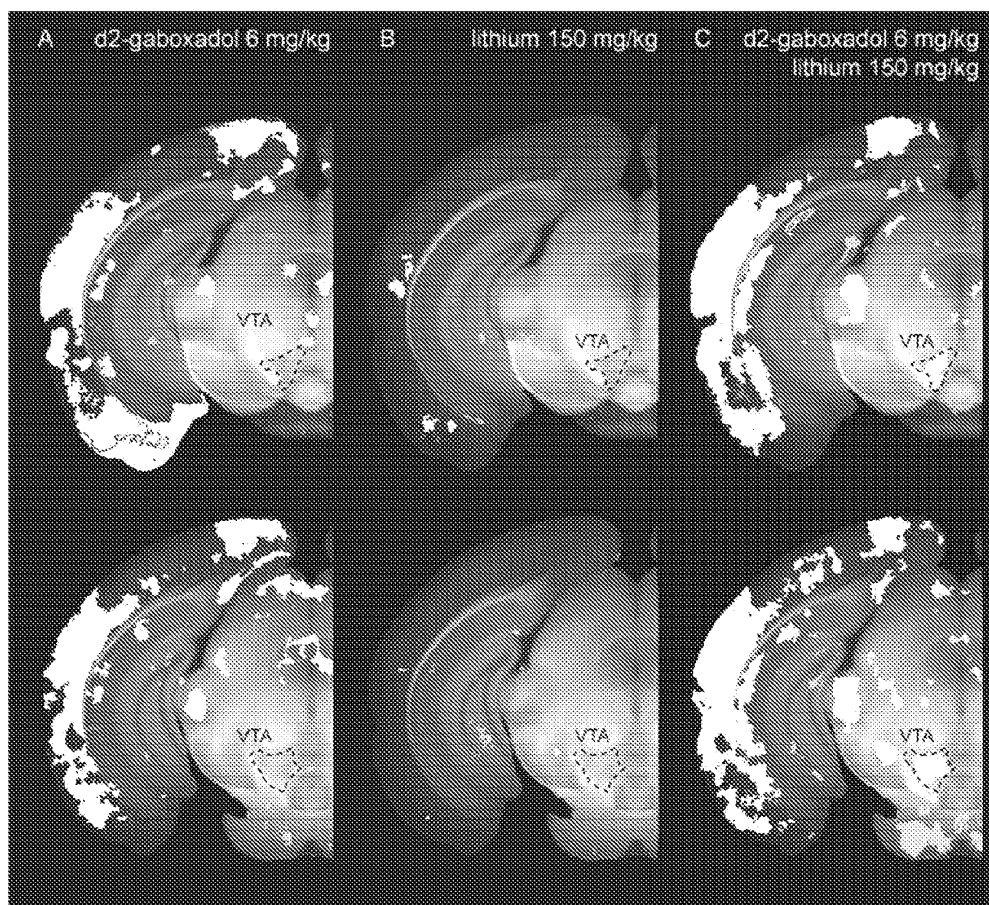


FIG. 37

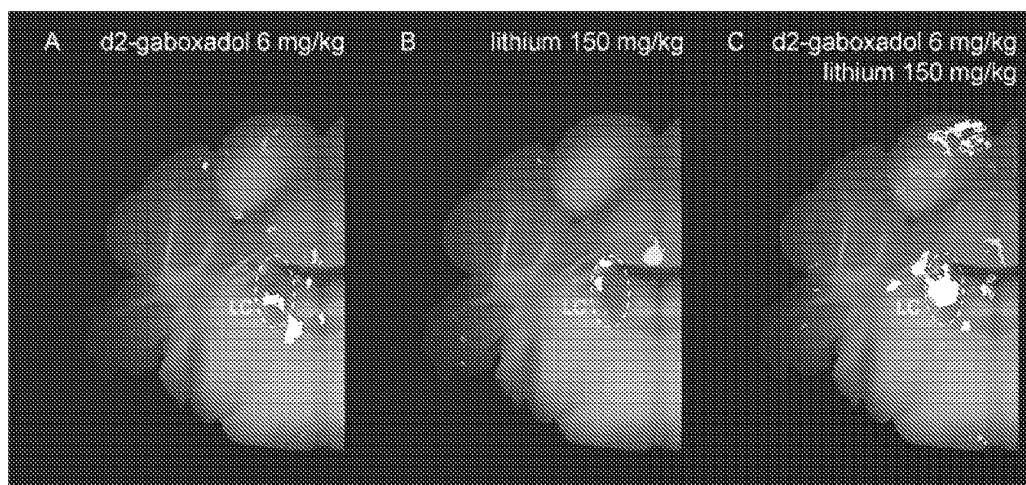


FIG. 38

