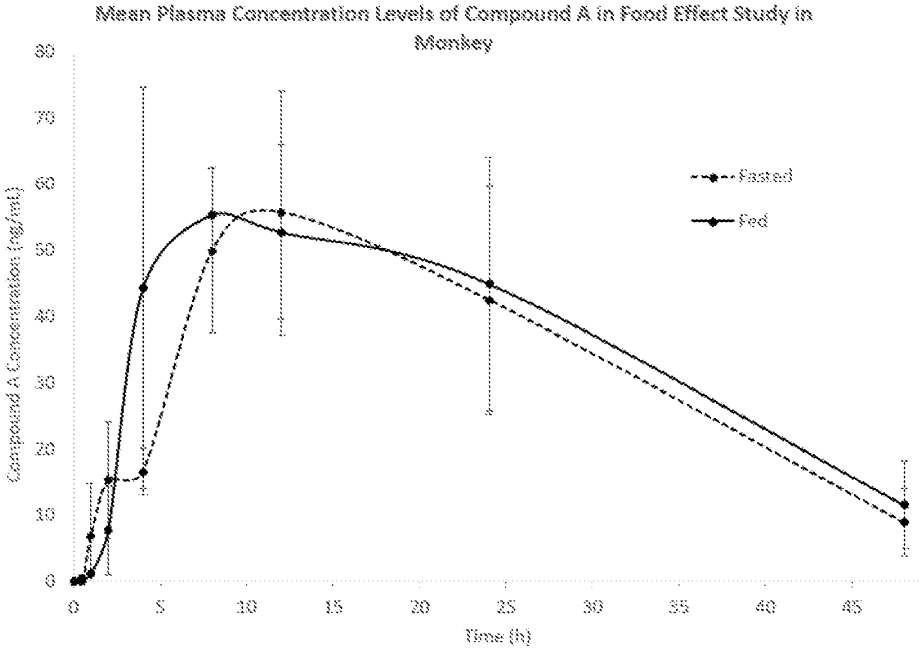

Mean Plasma Concentration Levels of Compound A in Food Effect Study in Monkey
Compound A Concentration (ng/mL)
Time (h)
Fasted
Fed
0
10
20
30
40
50
60
70
80
0
5
10
15
20
25
30
35
40
45

FIG. 1

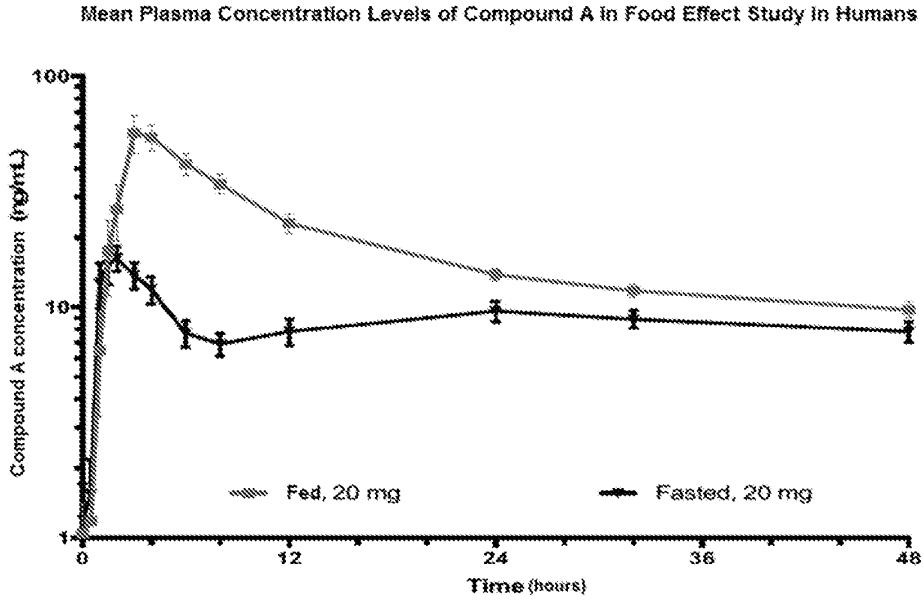
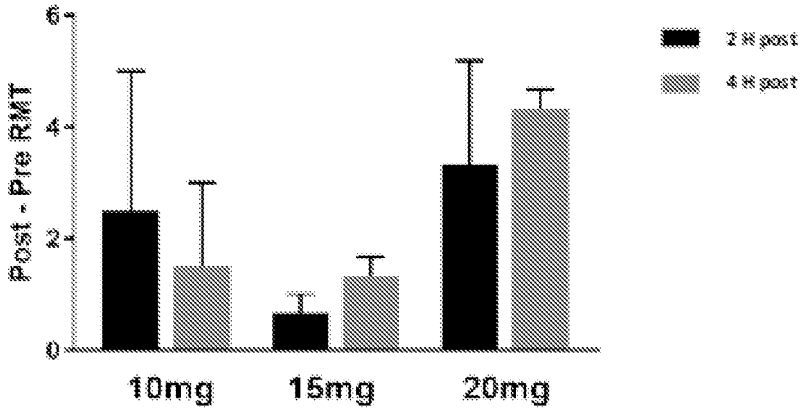

Mean Plasma Concentration Levels of Compound A in Food Effect Study in Humans
Compound A concentration (ng/mL)
Time (hours)
Fed, 20 mg
Fasted, 20 mg
100
10
1
0
12
24
36
48

FIG. 2

A Compound A Induced Modulation of Resting Motor Threshold



B Compound A Induced Modulation of Active Motor Threshold

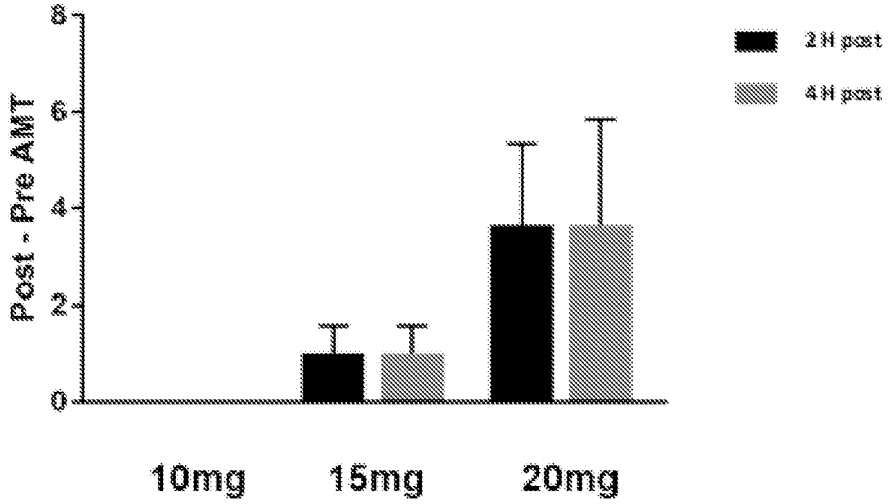


FIG. 3

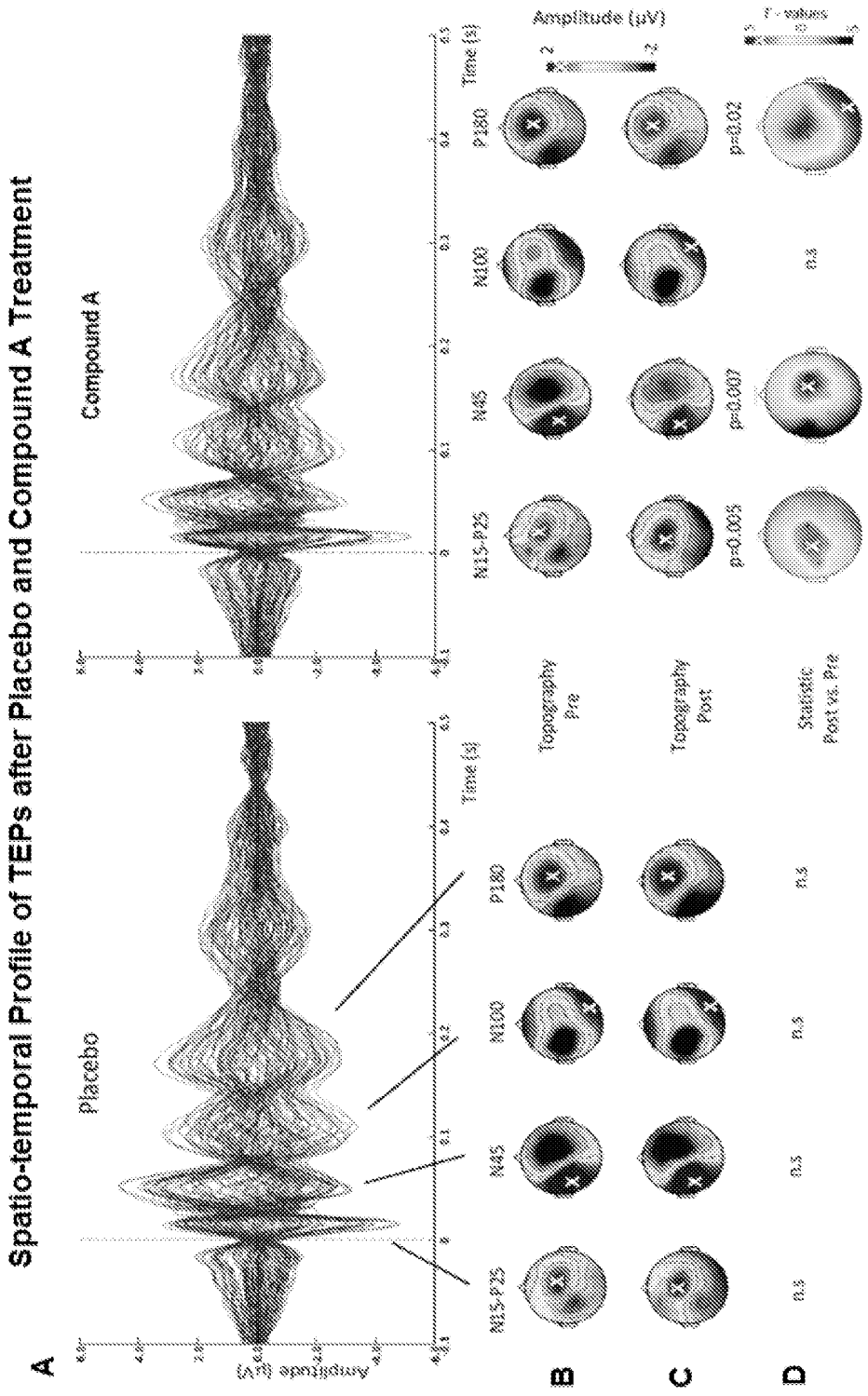

Spatio-temporal Profile of TEPs after Placebo and Compound A Treatment
A
Placebo
Compound A
Amplitude (µV)
Time (s)
B
C
D
N15-P25
N45
N100
P180
Topography Pre
Topography Post
Statistic Post vs. Pre
Amplitude (µV)
T - values
p=0.005
p=0.007
p=0.02
n.s

FIG. 4

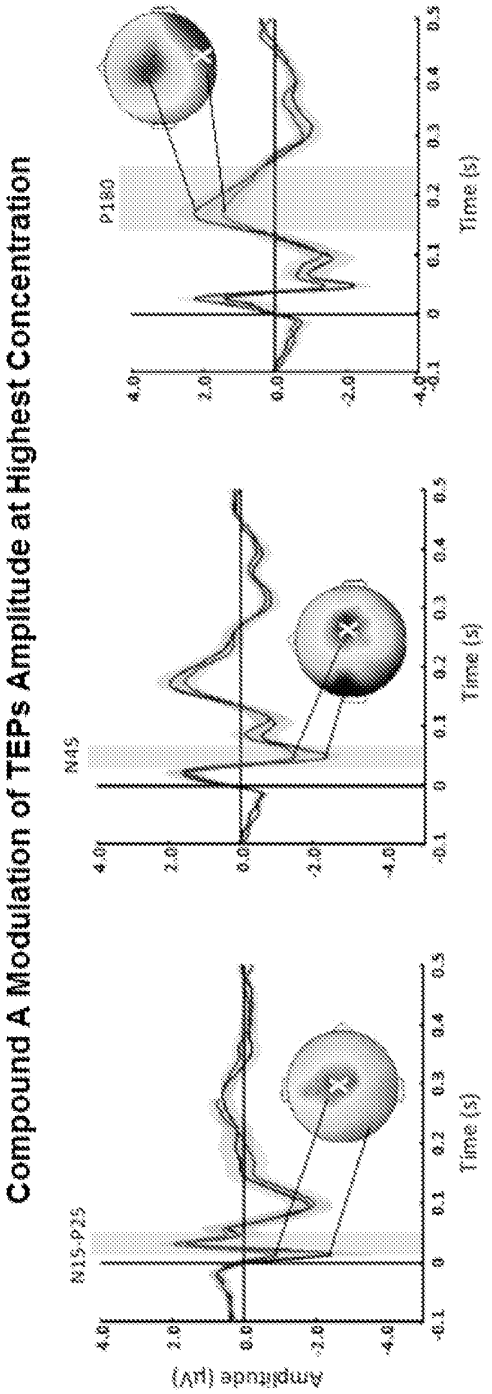

Compound A Modulation of TEPs Amplitude at Highest Concentration
N15-P25
N45
P180
Amplitude (μV)
Time (s)

FIG. 5

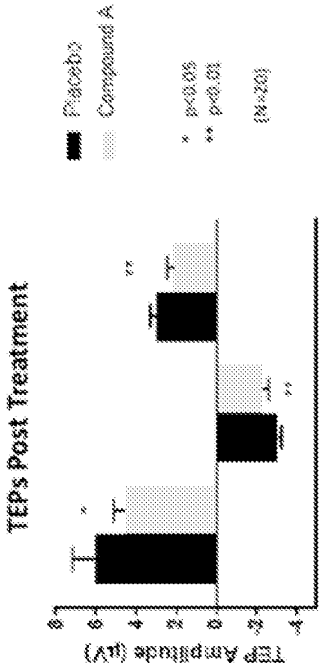

TEPs Post Treatment
Placebo
Compound A
* p<0.05
** p<0.01
(N=20)
TEP Amplitude (μV)
N15-P25
N45
P180

FIG. 6

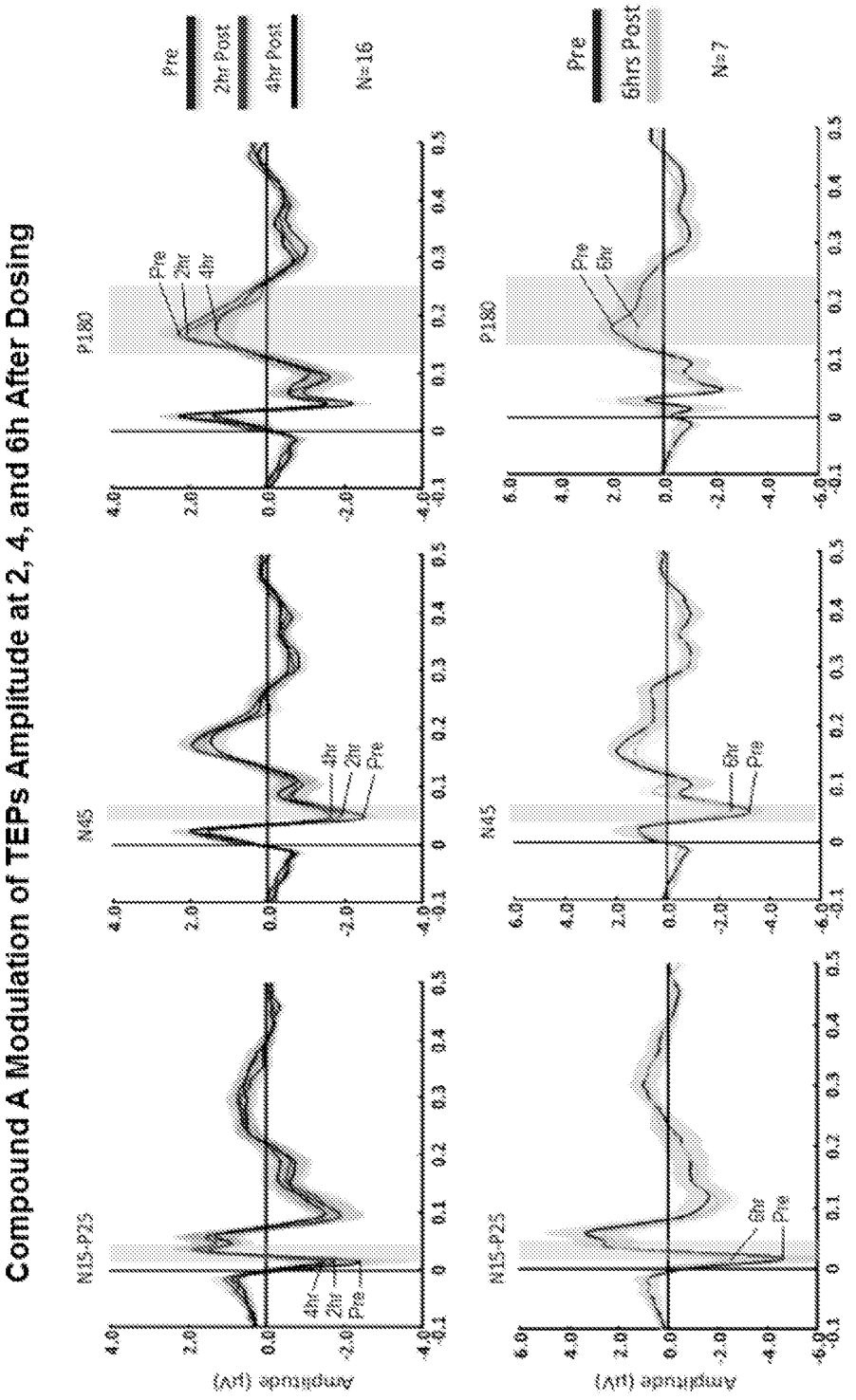

Compound A Modulation of TEPs Amplitude at 2, 4, and 6h After Dosing
N15-P25
N45
P180
Amplitude (uV)
Pre
2hr Post
4hr Post
N=16
Pre
6hrs Post
N=7
Pre
2hr
4hr
6hr

FIG. 7

Drug-induced Modulations of Spontaneous Brain Oscillations Before and After Treatment with Compound A

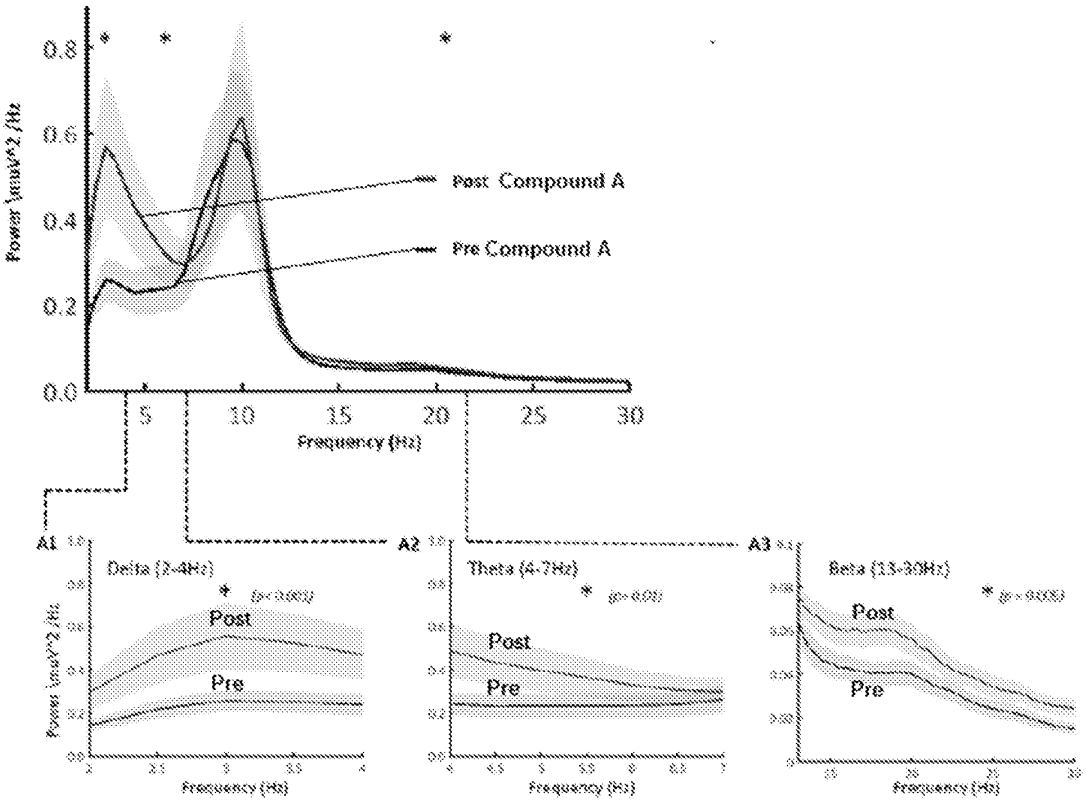


FIG. 8

Drug-induced Modulations of Spontaneous Brain Oscillations Over Time After Compound A Intake

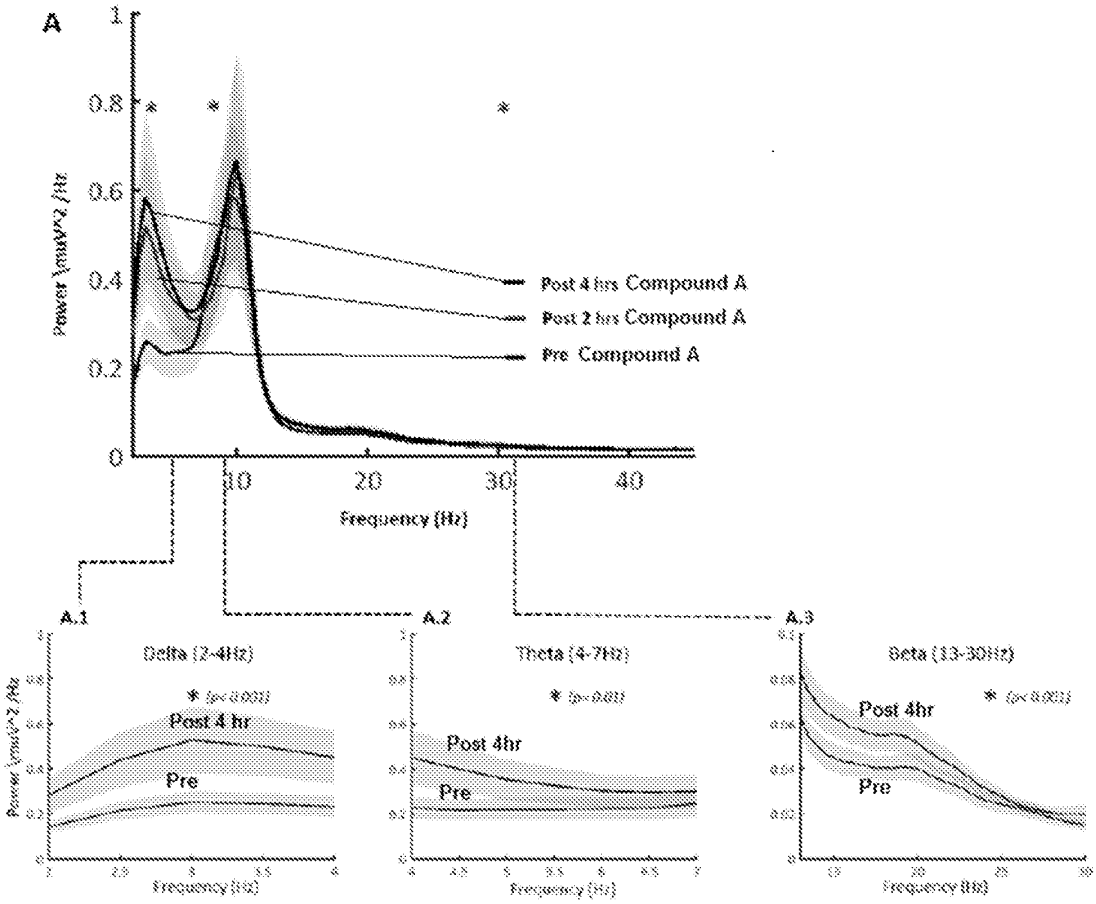


FIG. 9

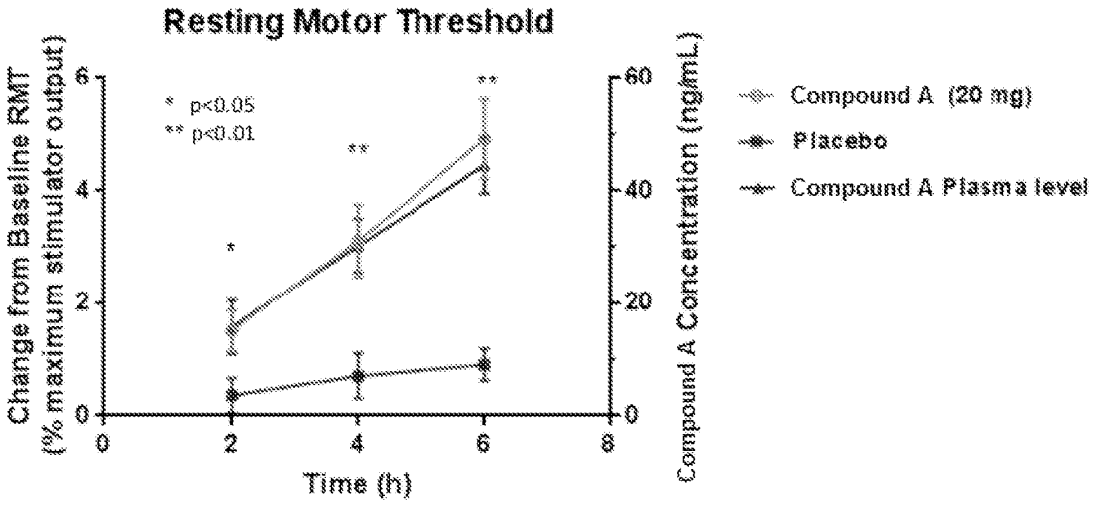

Resting Motor Threshold
* p<0.05
** p<0.01
Change from Baseline RMT (% maximum stimulator output)
Compound A Concentration (ng/mL)
Time (h)
Compound A (20 mg)
Placebo
Compound A Plasma level

FIG. 10

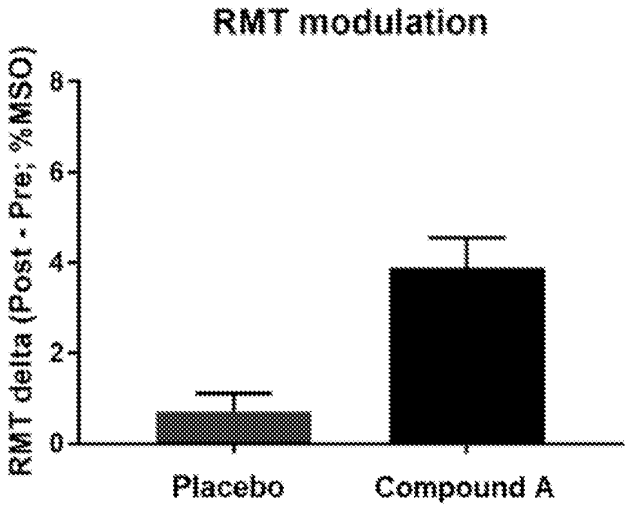

RMT modulation
RMT delta (Post - Pre; %MSO)
Placebo
Compound A

FIG. 11

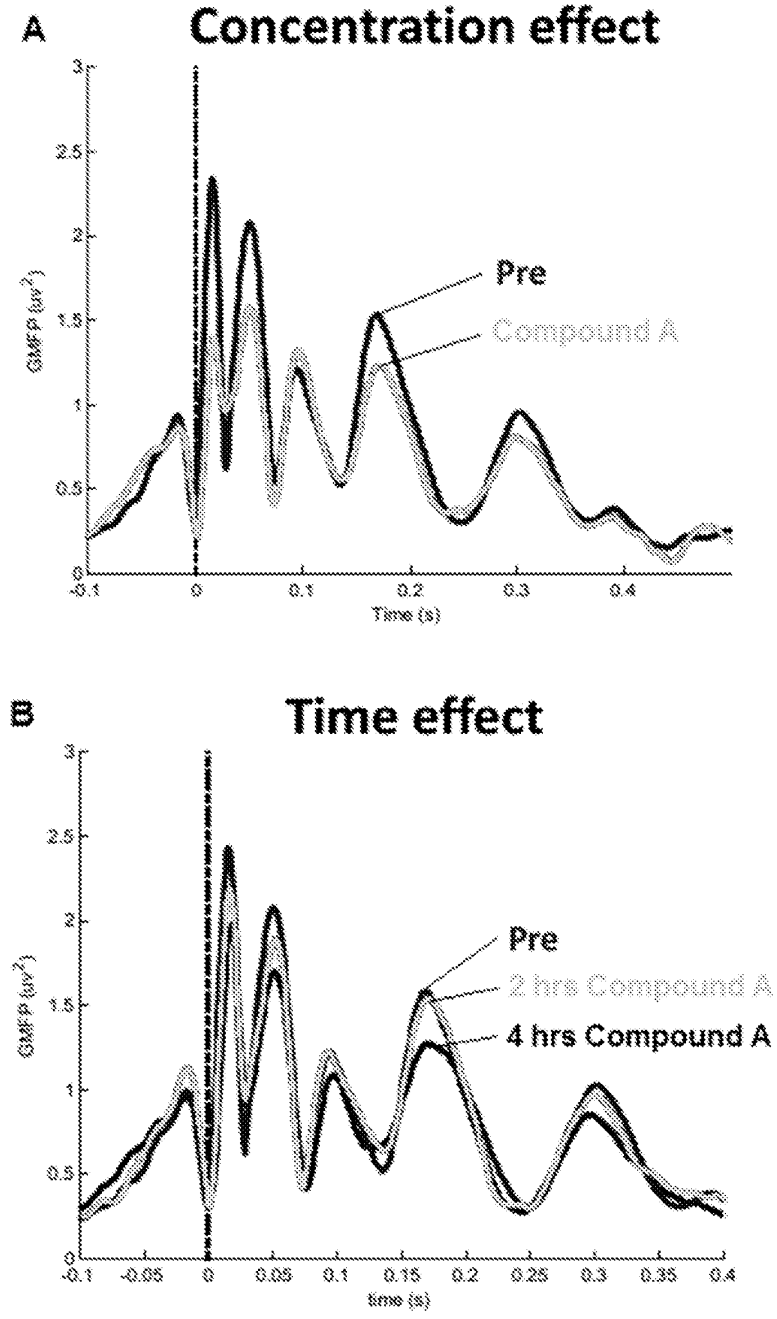

A
Concentration effect
GMFP (uv²)
Pre
Compound A
Time (s)
B
Time effect
GMFP (uv²)
Pre
2 hrs Compound A
4 hrs Compound A
time (s)

FIG. 12