FIG. 1

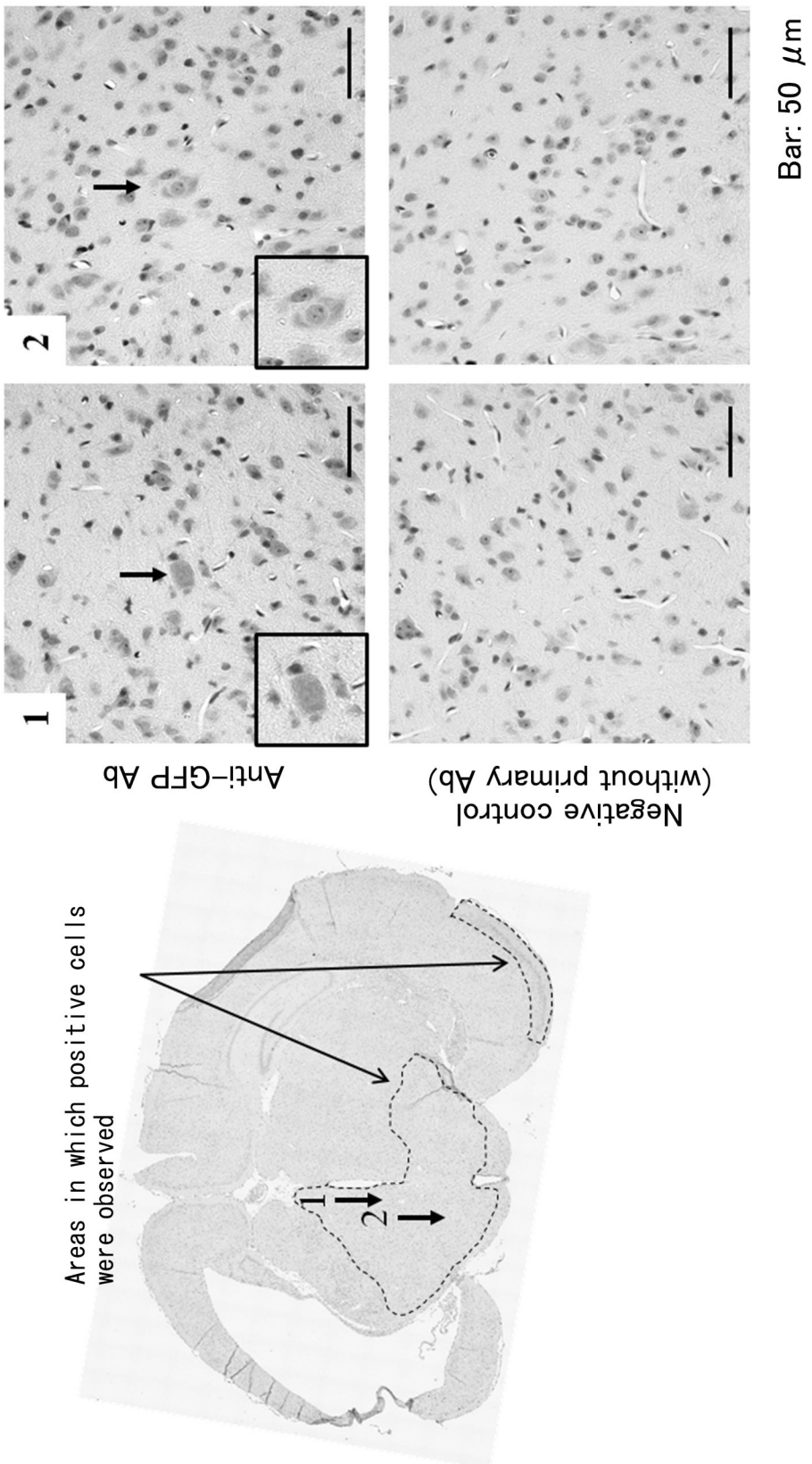

Areas in which positive cells were observed
1
2
Anti-GFP Ab
Negative control (without primary Ab)
Bar: 50 μm

FIG. 2

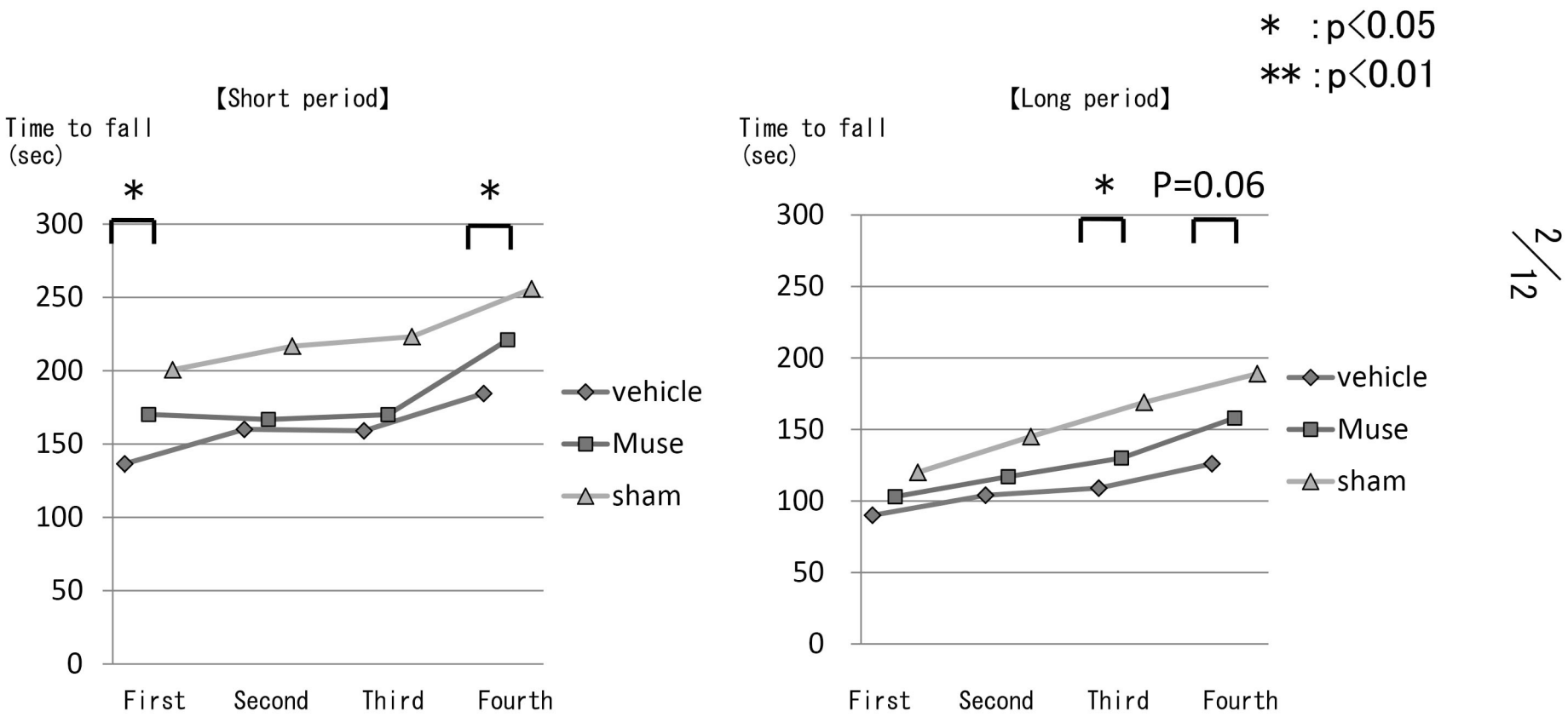

* :p<0.05
** :p<0.01
【Short period】
Time to fall
(sec)
*
*
300
250
200
150
100
50
0
First
Second
Third
Fourth
vehicle
Muse
sham
【Long period】
Time to fall
(sec)
* P=0.06
300
250
200
150
100
50
0
First
Second
Third
Fourth
vehicle
Muse
sham

FIG. 3

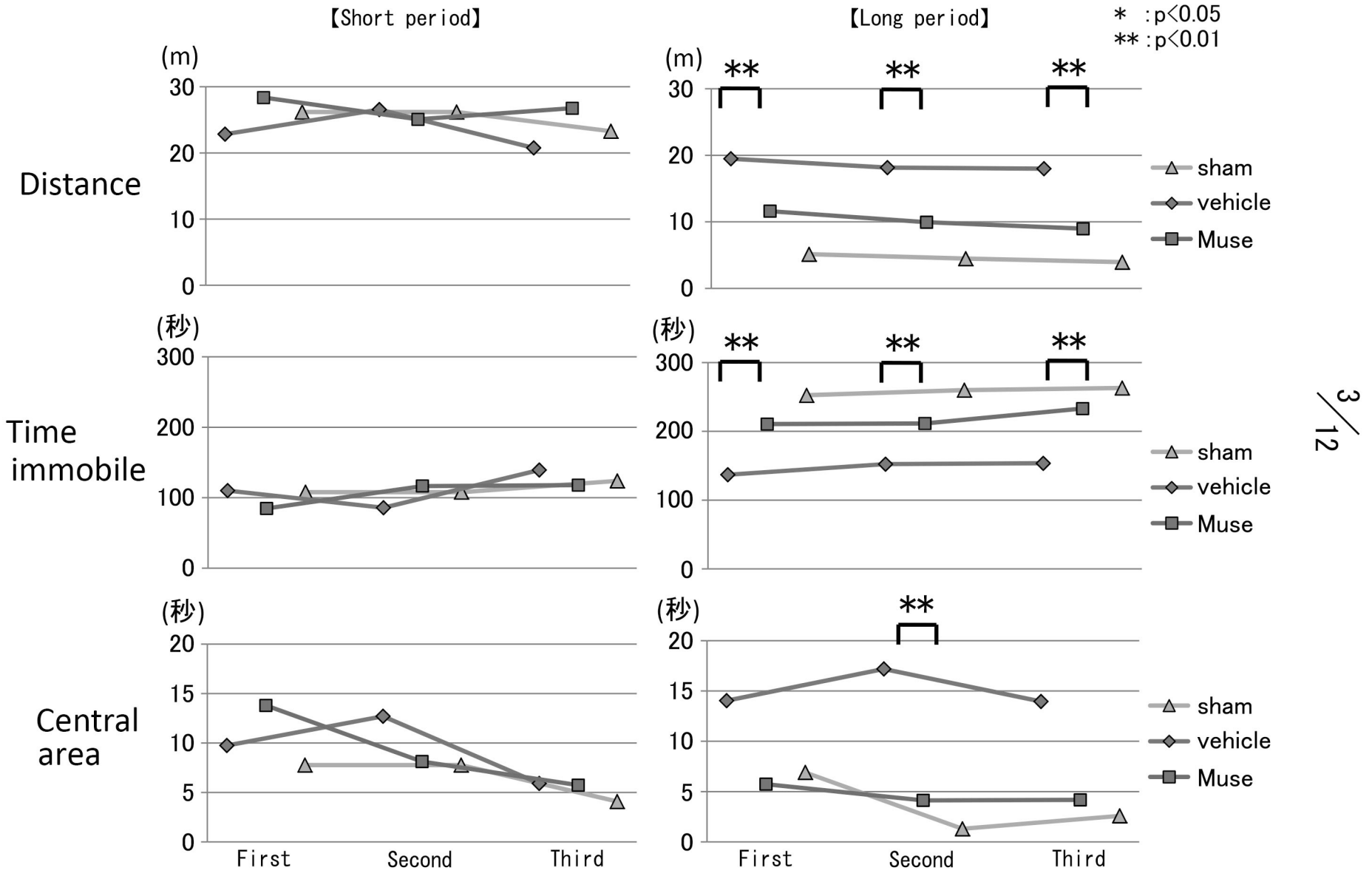

【Short period】
【Long period】
* :p<0.05
** :p<0.01
Distance
Time immobile
Central area
(m)
(秒)
30
20
10
0
300
200
100
15
5
**
sham
vehicle
Muse
First
Second
Third

FIG. 4

＊ :p<0.05
＊＊:p<0.01

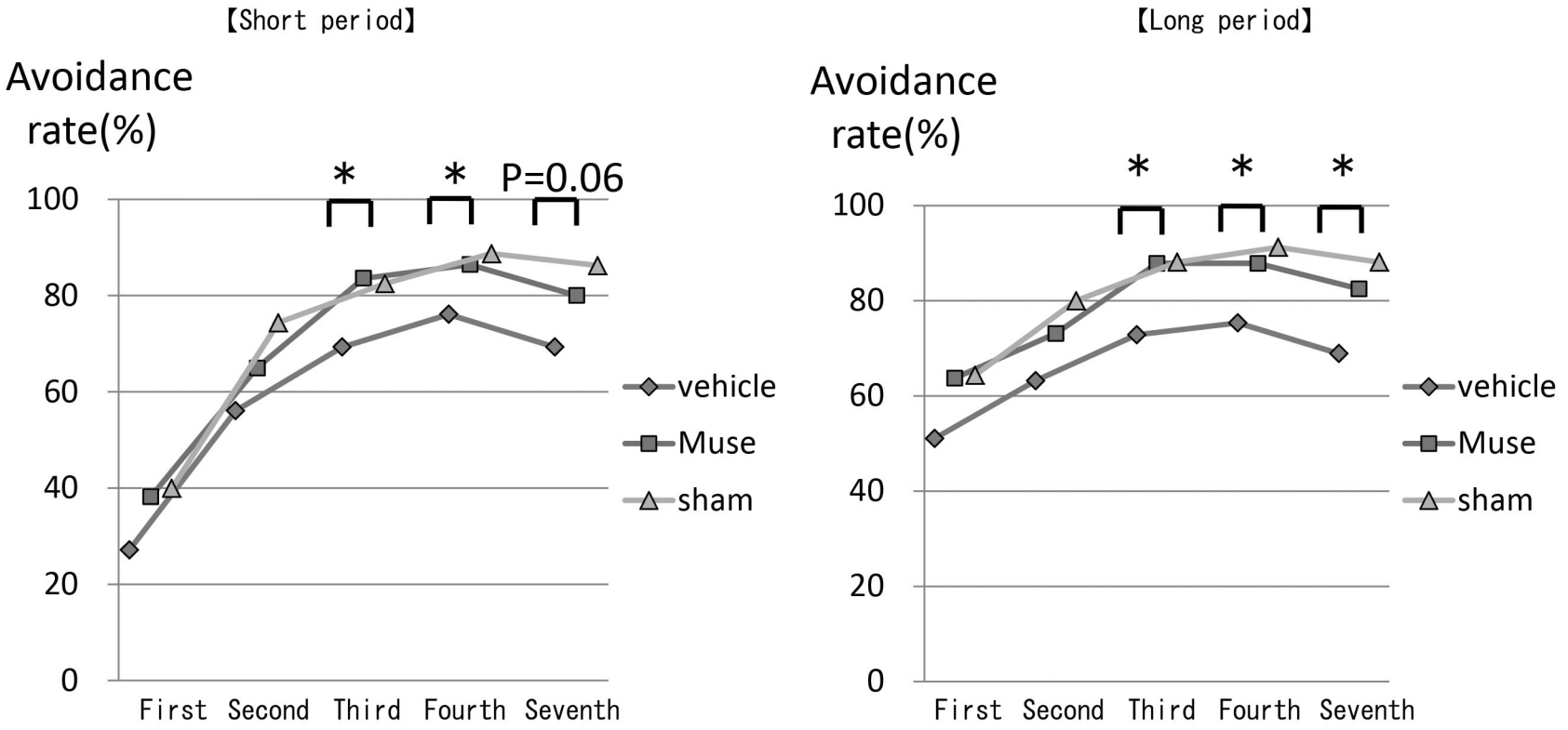


FIG. 5

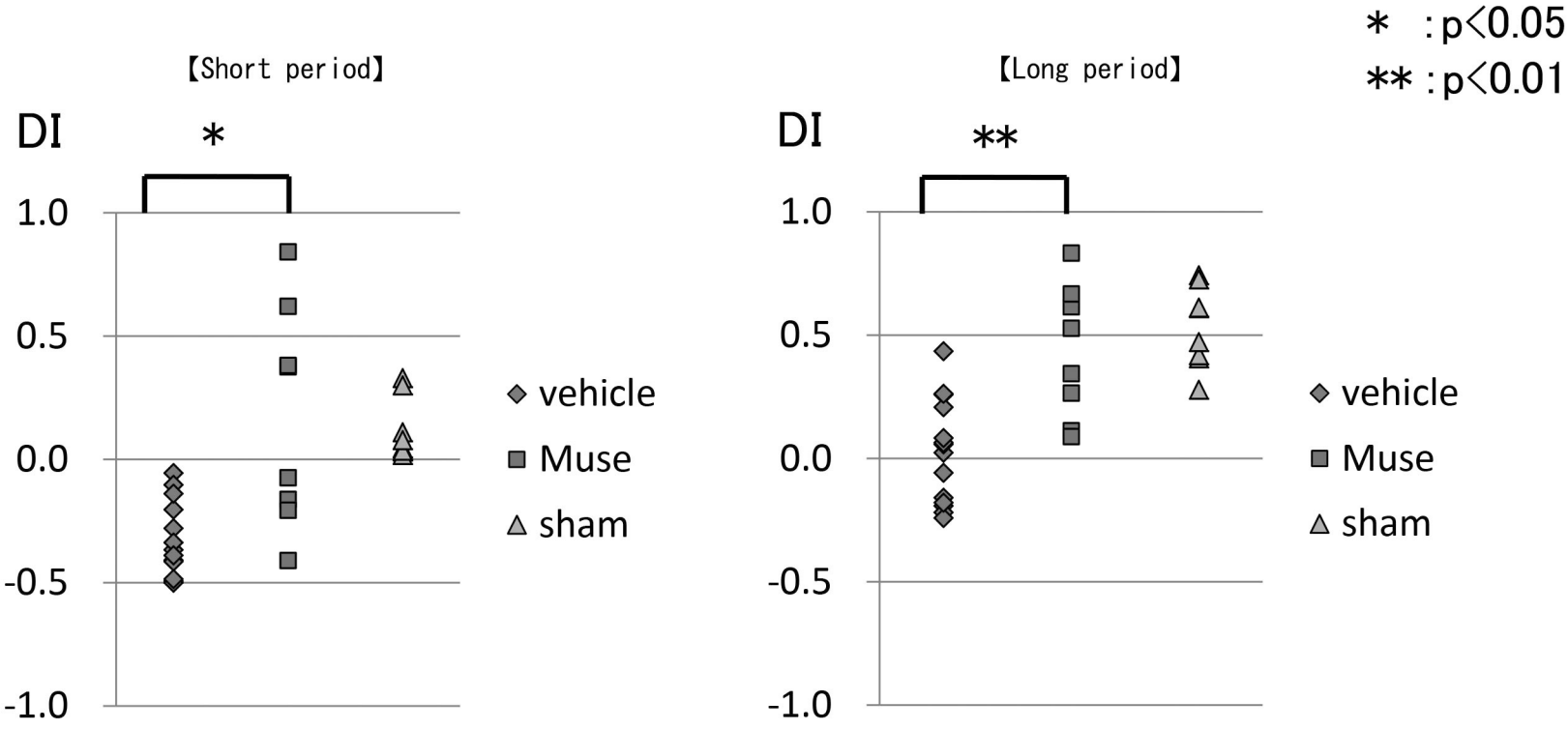

【Short period】
DI
*
1.0
0.5
0.0
-0.5
-1.0
vehicle
Muse
sham
【Long period】
DI
**
1.0
0.5
0.0
-0.5
-1.0
vehicle
Muse
sham
* :p<0.05
** :p<0.01

FIG. 6A

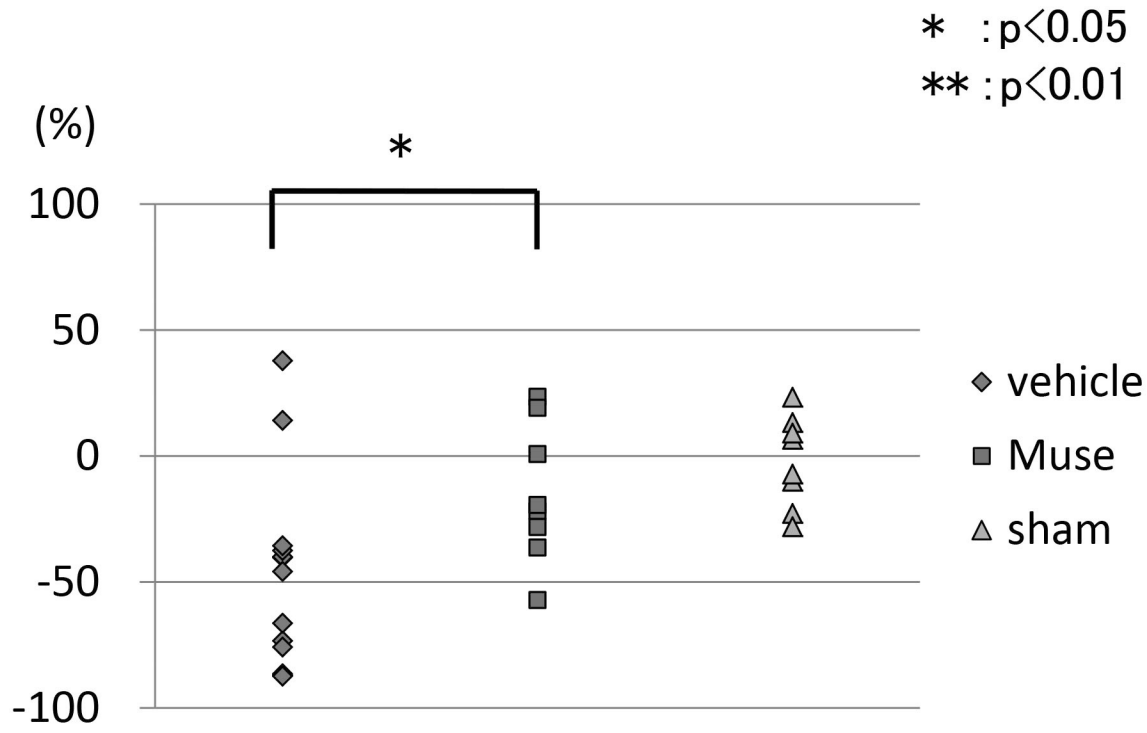

* :p<0.05
** :p<0.01
(%)
*
100
50
0
-50
-100
vehicle
Muse
sham

FIG. 6B

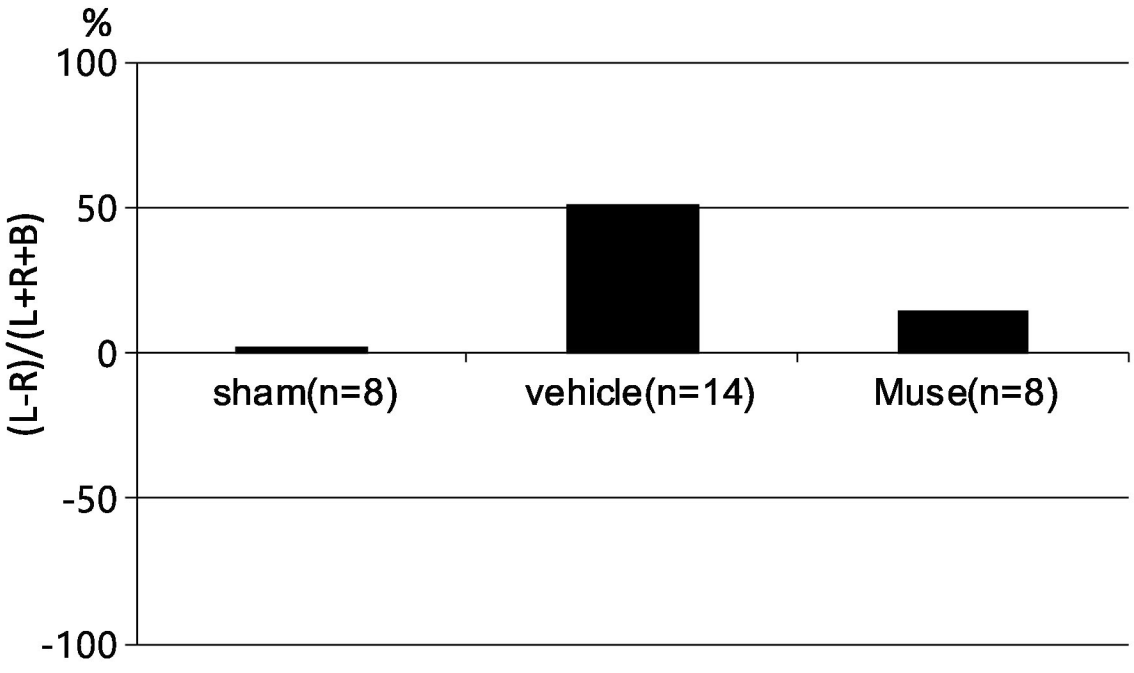

%
100
50
0
-50
-100
(L-R)/(L+R+B)
sham(n=8)
vehicle(n=14)
Muse(n=8)

FIG. 7

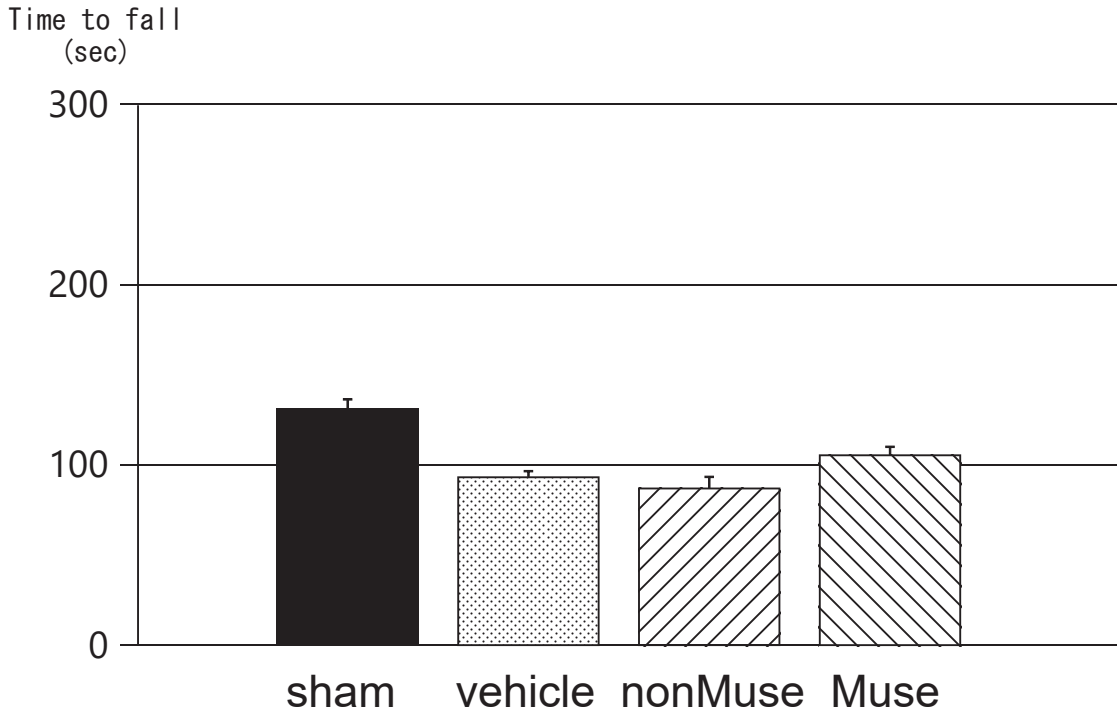


FIG. 8

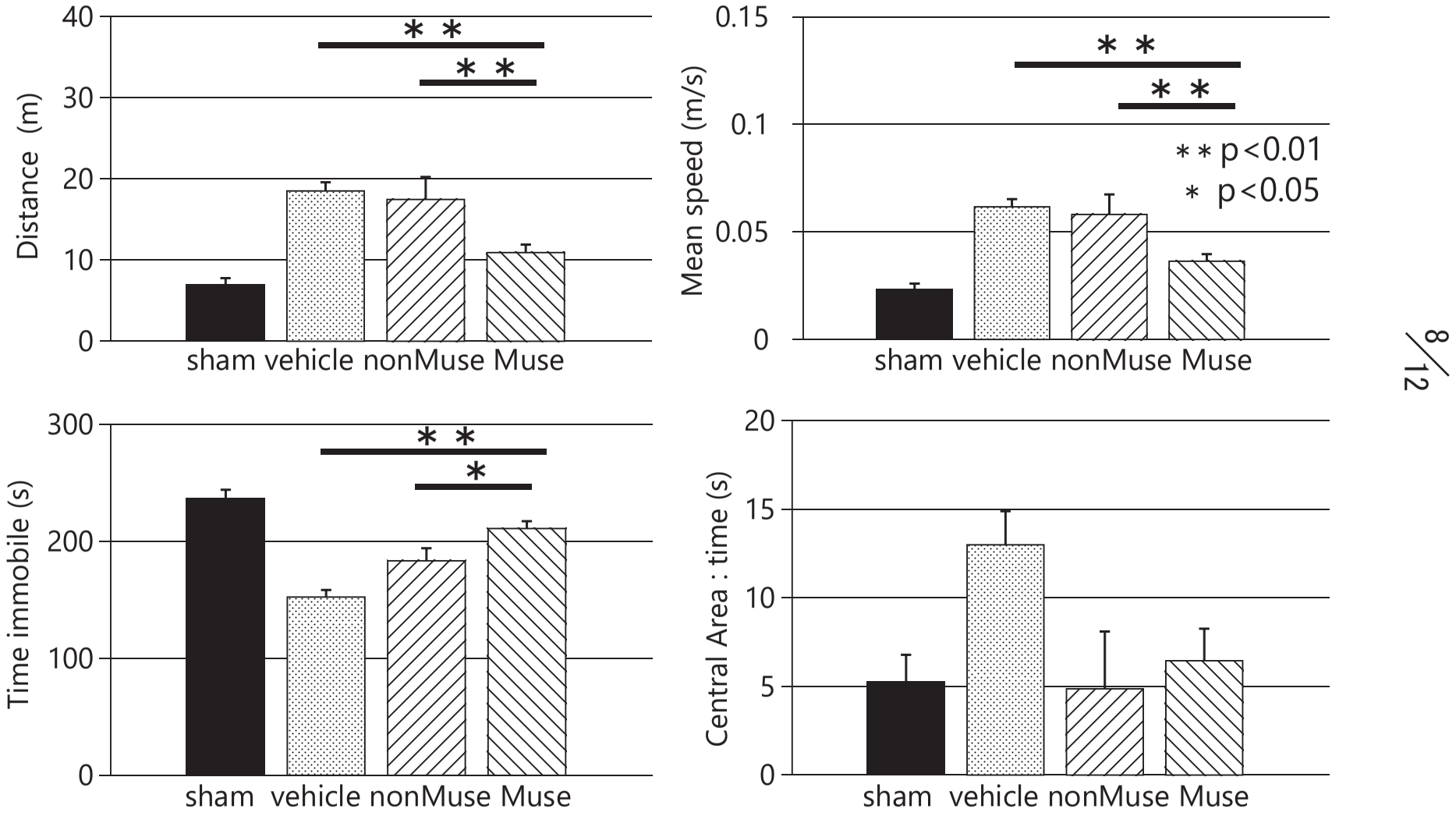

Distance (m)
40
30
20
10
0
* *
* *
sham vehicle nonMuse Muse
Mean speed (m/s)
0.15
0.1
0.05
0
* * p<0.01
* p<0.05
Time immobile (s)
300
200
100
0
* *
*
Central Area : time (s)
20
15
10
5

FIG. 9

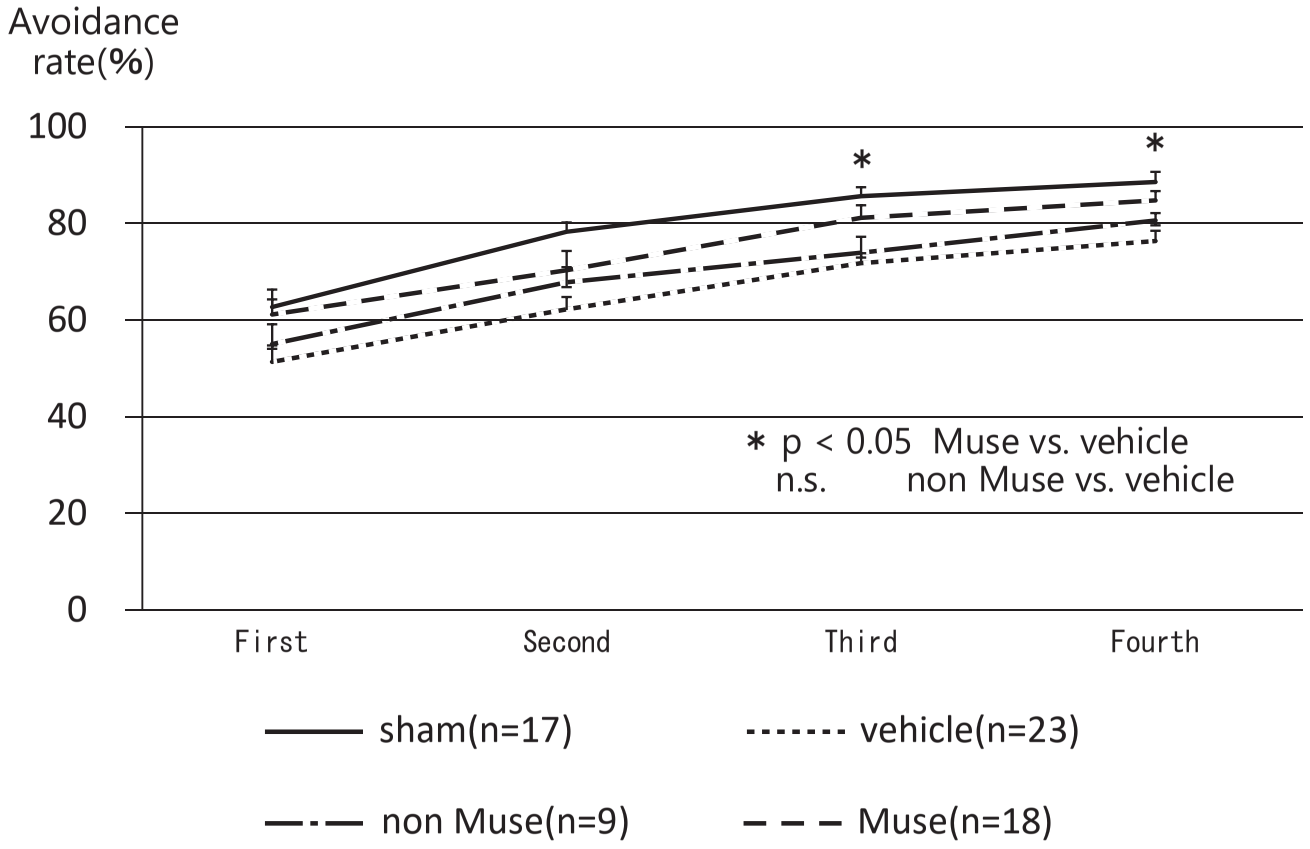

Avoidance rate(%)
100
80
60
40
20
0
First
Second
Third
Fourth
* p < 0.05 Muse vs. vehicle
n.s. non Muse vs. vehicle
sham(n=17)
vehicle(n=23)
non Muse(n=9)
Muse(n=18)

FIG. 10

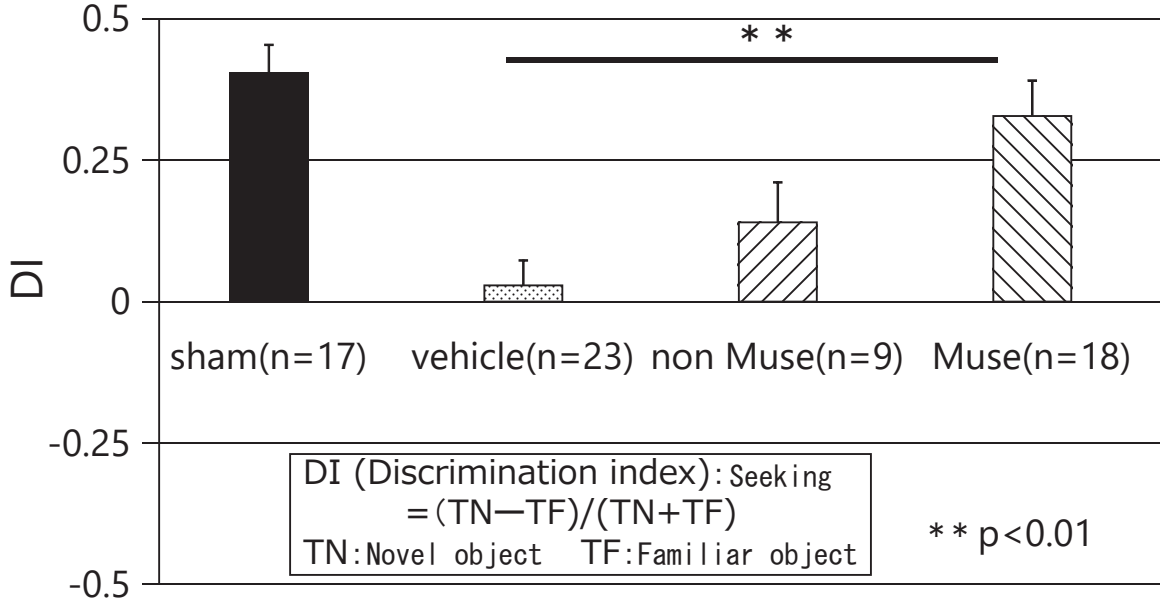

0.5
0.25
0
-0.25
-0.5
DI
* *
sham(n=17)
vehicle(n=23)
non Muse(n=9)
Muse(n=18)
DI (Discrimination index): Seeking
=(TN−TF)/(TN+TF)
TN: Novel object TF: Familiar object
** p<0.01

FIG. 11

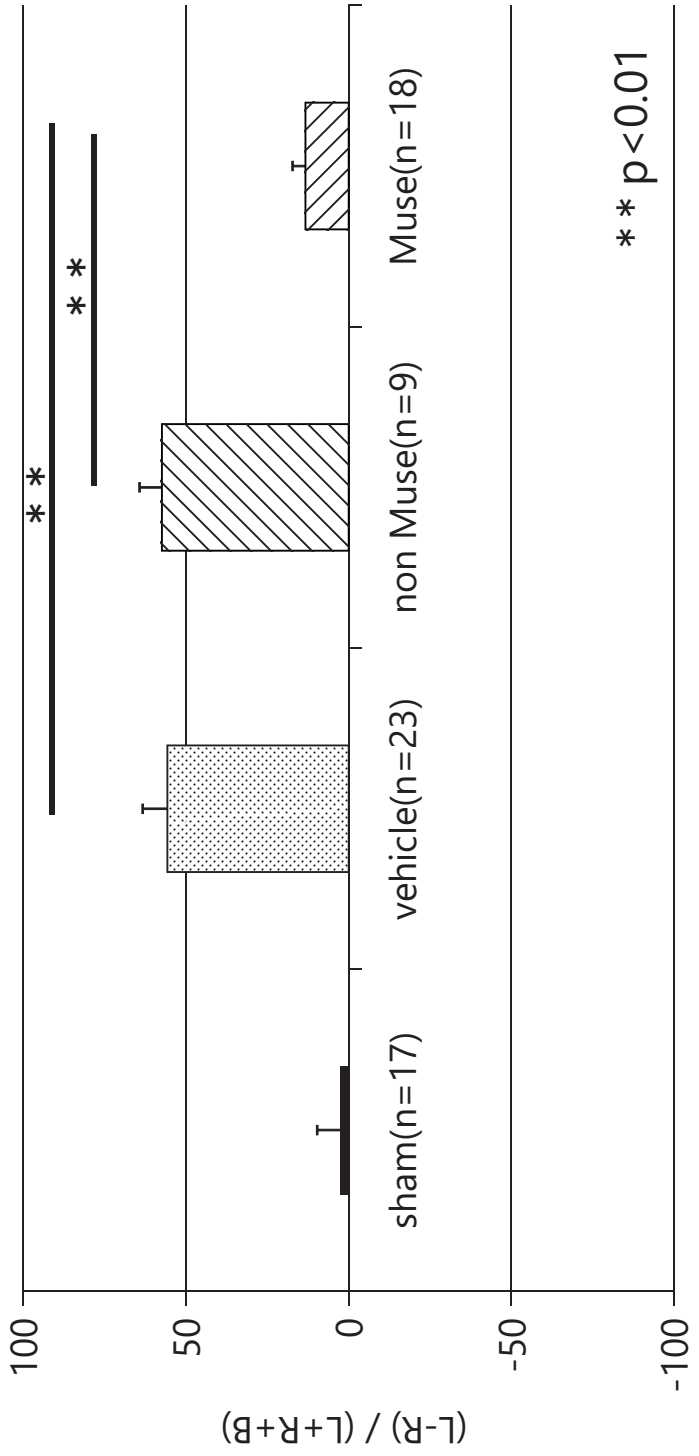
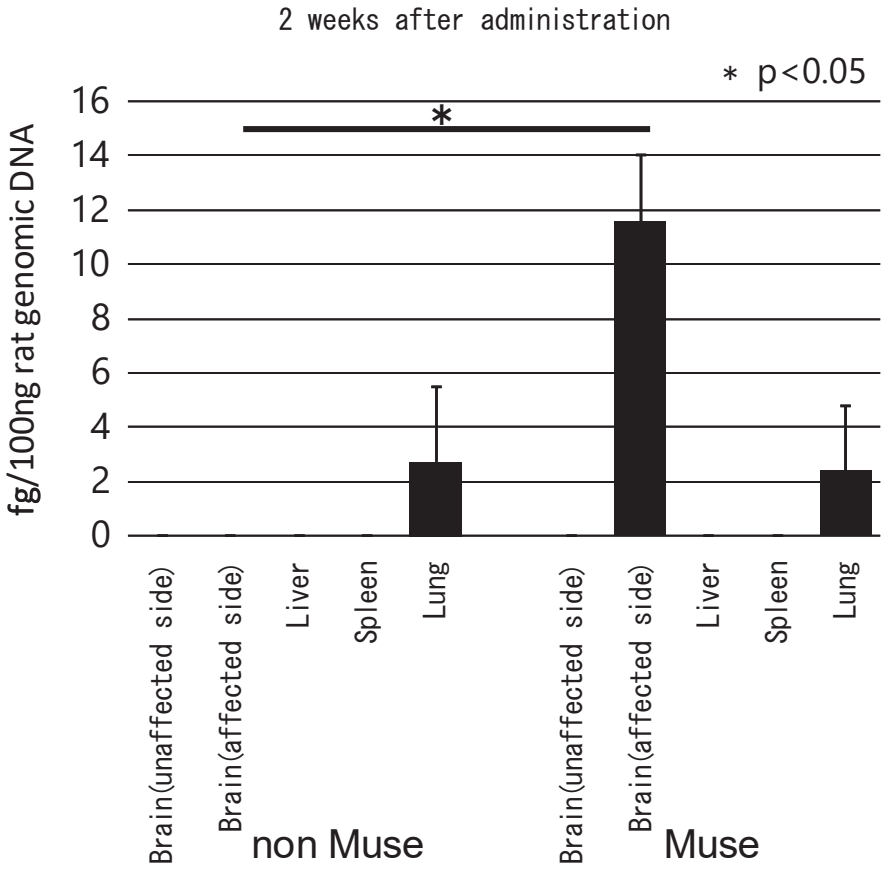

100
50
0
-50
-100
(L-R) / (L+R+B)
sham(n=17)
vehicle(n=23)
non Muse(n=9)
Muse(n=18)
**
**
**
** p<0.01

FIG. 12


2 weeks after administration
* p<0.05
fg/100ng rat genomic DNA
16
14
12
10
8
6
4
2
0
*
Brain(unaffected side)
Brain(affected side)
Liver
Spleen
Lung
Brain(unaffected side)
Brain(affected side)
Liver
Spleen
Lung
non Muse
Muse