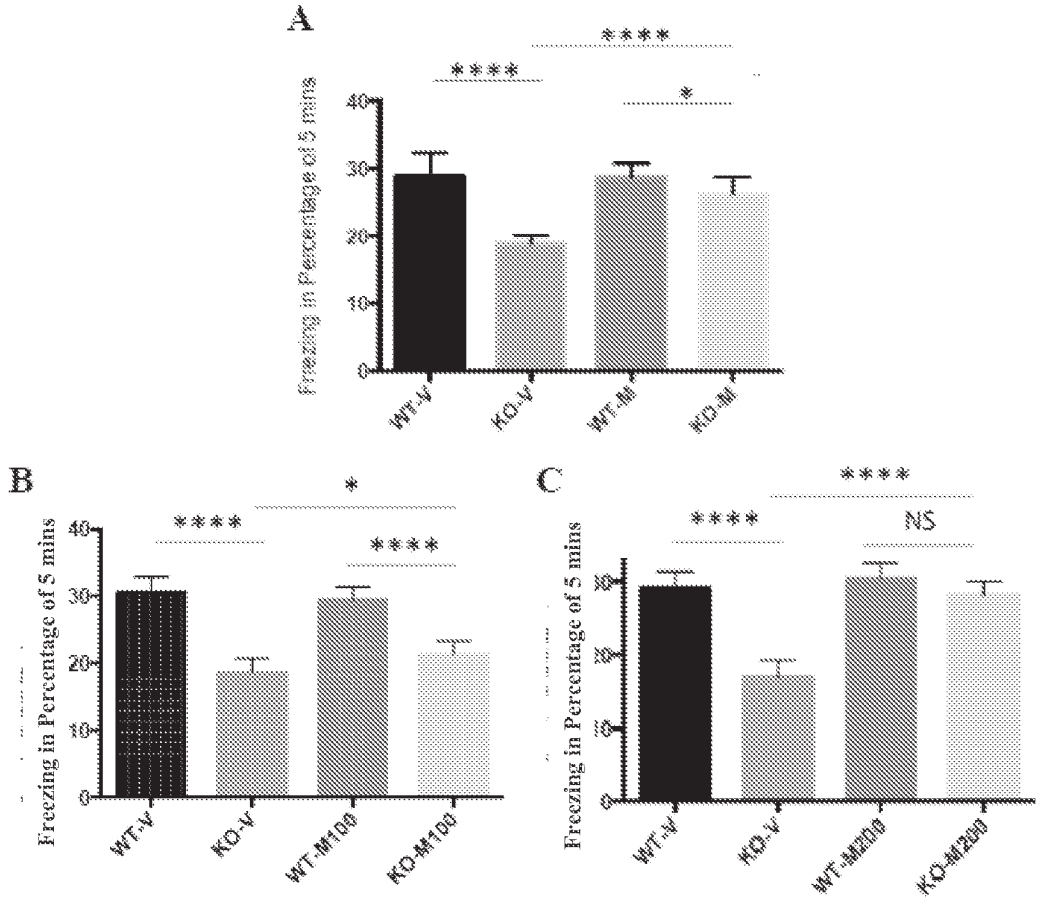

A
****
****
*
Freezing in Percentage of 5 mins
40
30
20
10
0
WT-V
KO-V
WT-M
KO-M
B
*
****
****
Freezing in Percentage of 5 mins
40
30
20
10
0
WT-V
KO-V
WT-M100
KO-M100
C
****
****
NS
Freezing in Percentage of 5 mins
WT-V
KO-V
WT-M200
KO-M200

FIG. 1

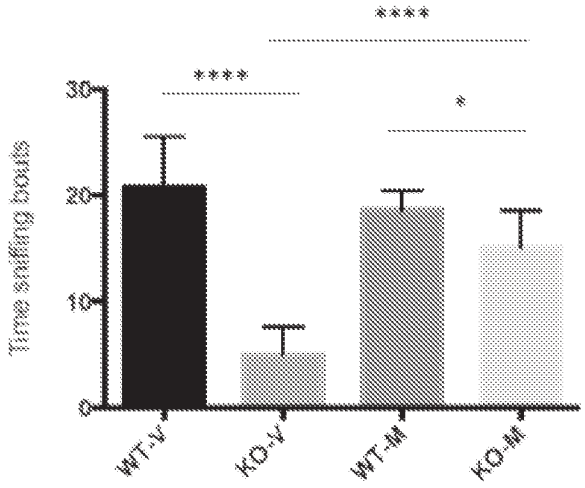


Fig. 2

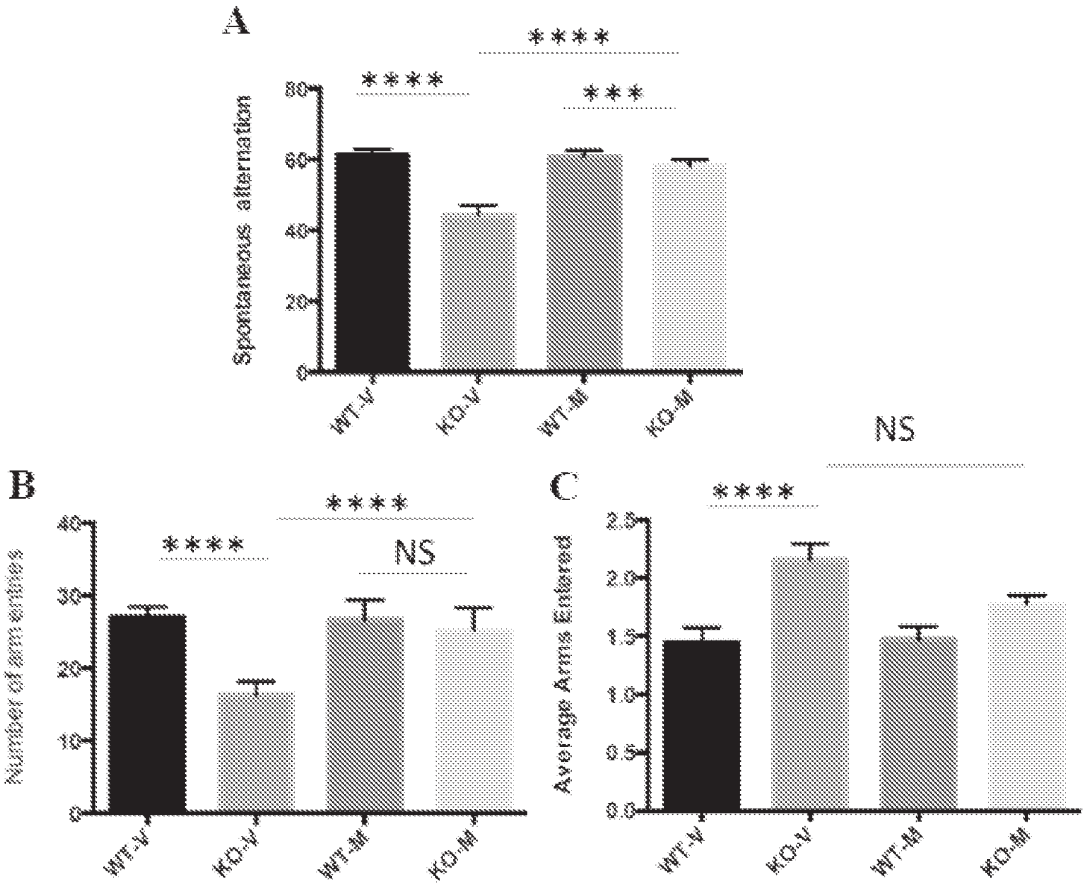

A
****
****
***
Spontaneous alternation
80
60
40
20
0
WT-V
KO-V
WT-M
KO-M
B
****
****
NS
Number of arm entries
40
30
20
10
0
WT-V
KO-V
WT-M
KO-M
C
NS
****
Average Arms Entered
2.5
2.0
1.5
1.0
0.5
0.0
WT-V
KO-V
WT-M
KO-M

Fig. 3

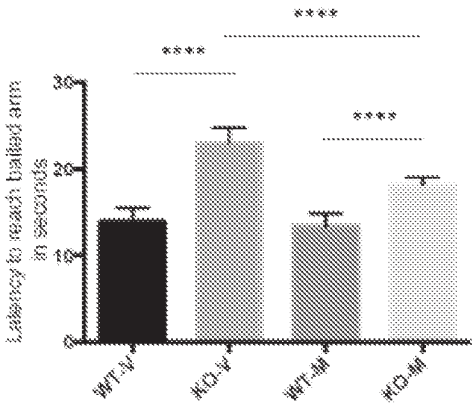

****
****
****
Latency to reach ballast arm in seconds
30
20
10
0
WT-M
KO-M
WT-F
KO-F

Fig. 4

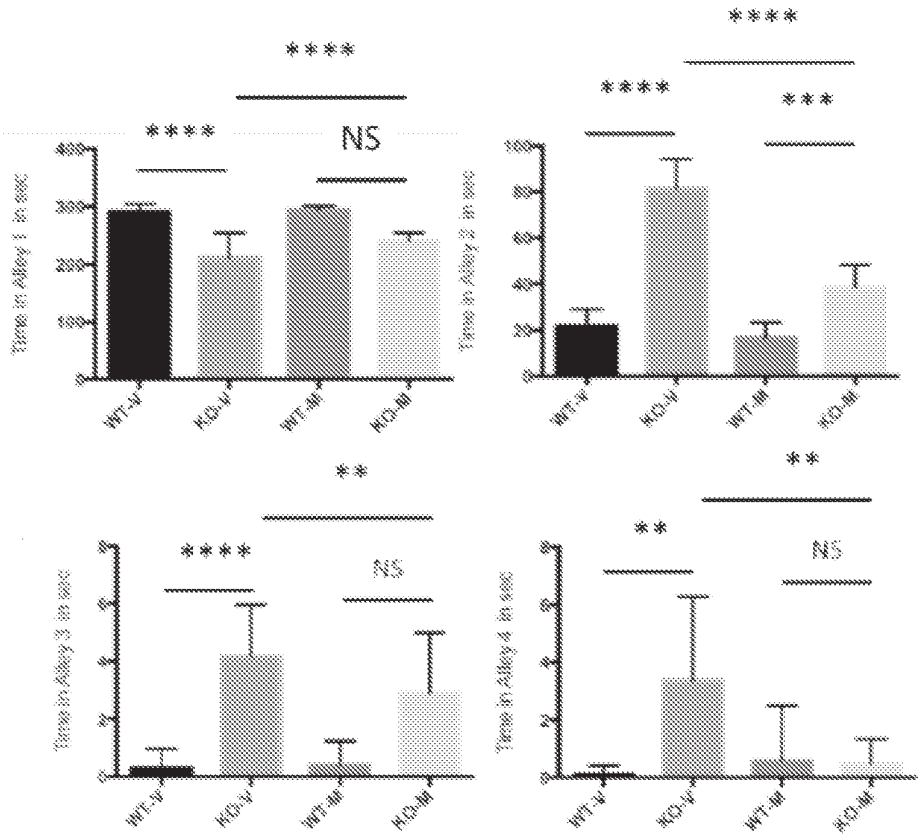

****
****
NS
Time in Alley 1 in sec
WT-V
KO-V
WT-M
KO-M
****
****
***
Time in Alley 2 in sec
**
****
NS
Time in Alley 3 in sec
**
**
NS
Time in Alley 4 in sec

Fig. 5

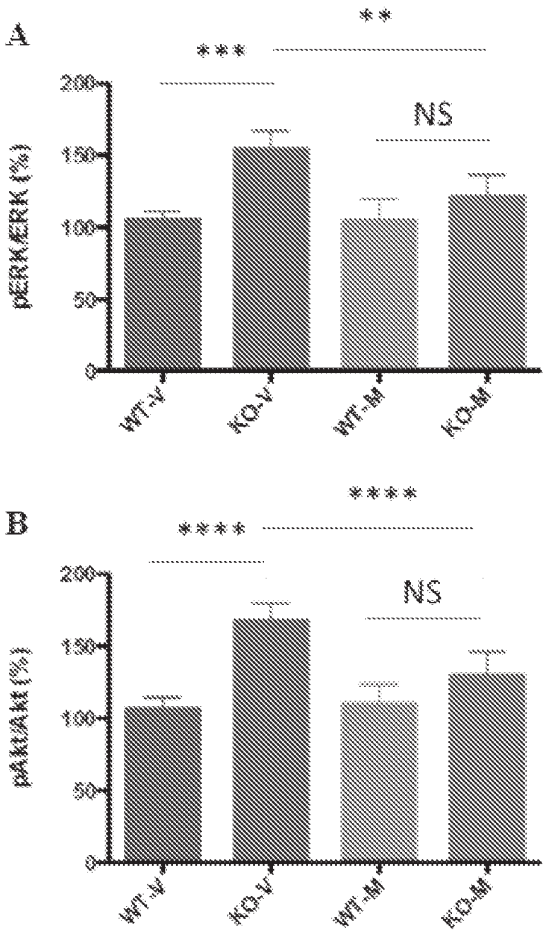

A
**
***
NS
pERK/ERK (%)
200
150
100
50
0
WT-V
KO-V
WT-M
KO-M
B
****
****
NS
pAkt/Akt (%)
200
150
100
50
0
WT-V
KO-V
WT-M
KO-M

Fig. 6

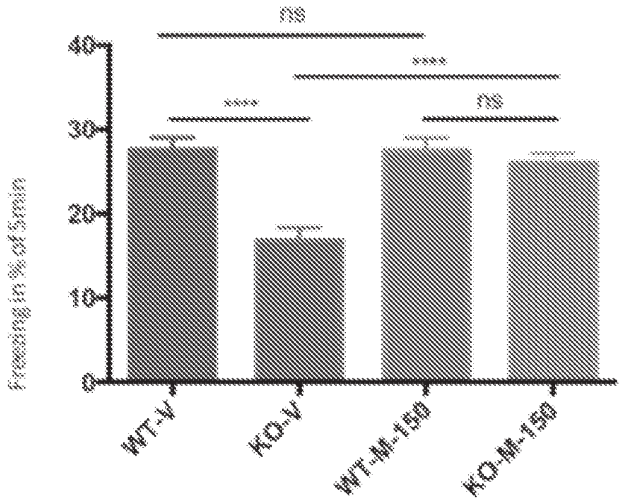


Fig. 7

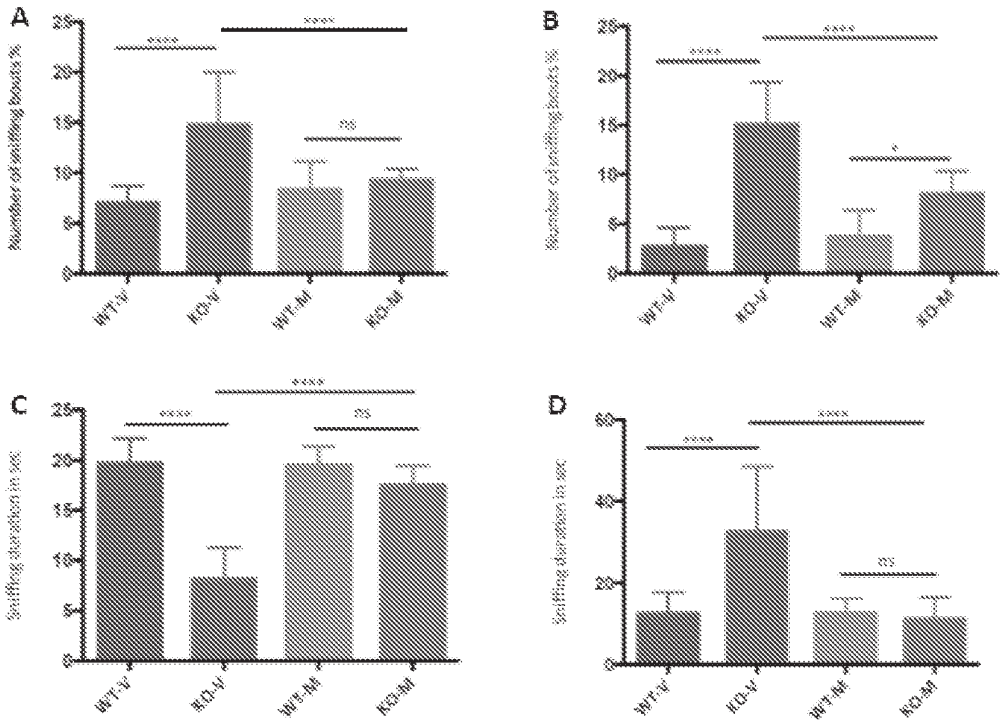


Fig. 8

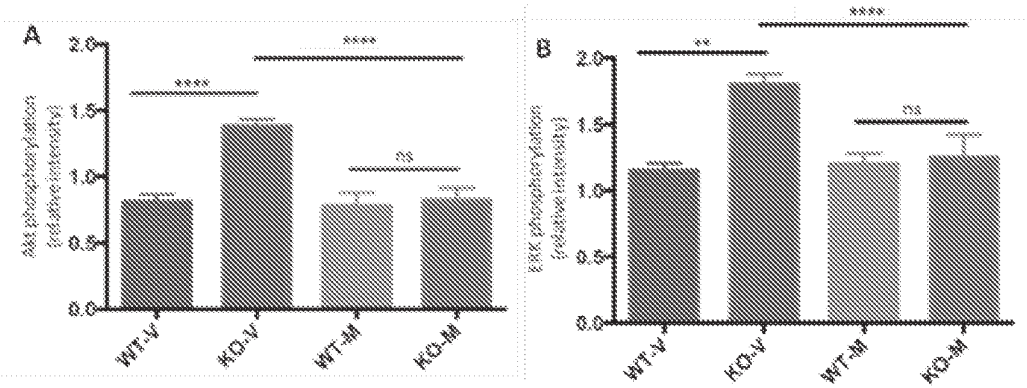


Fig. 9

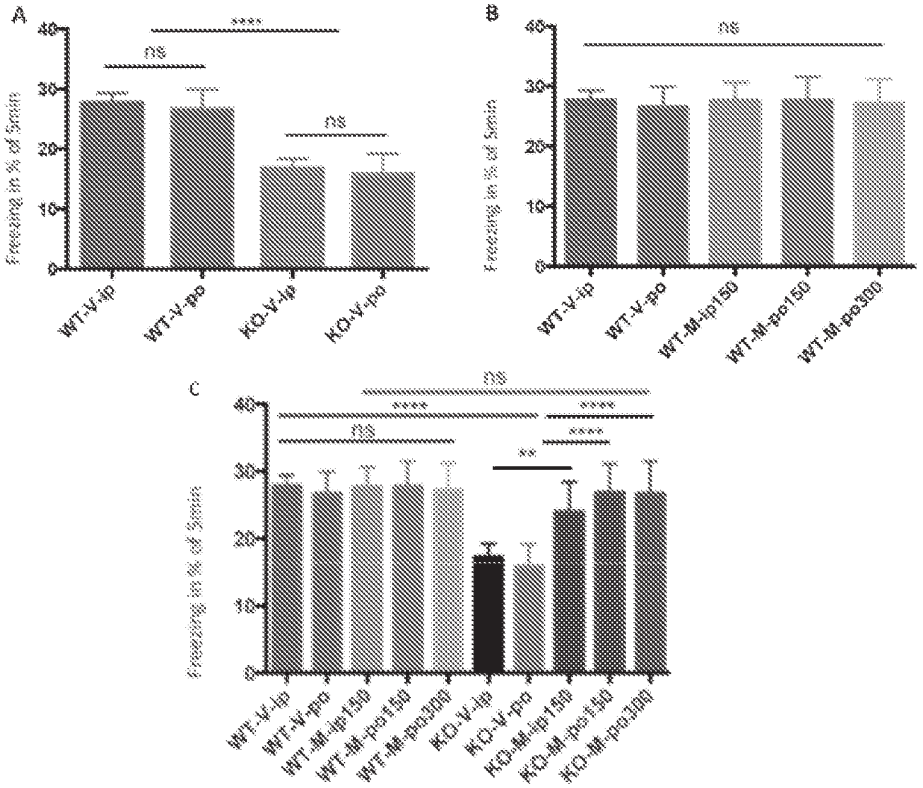

A
B
C
Freezing in % of 5min
ns
****
**
WT-V-ip
WT-V-po
KO-V-ip
KO-V-po
WT-M-ip150
WT-M-po150
WT-M-po300
KO-M-ip150
KO-M-po150
KO-M-po300

Fig. 10

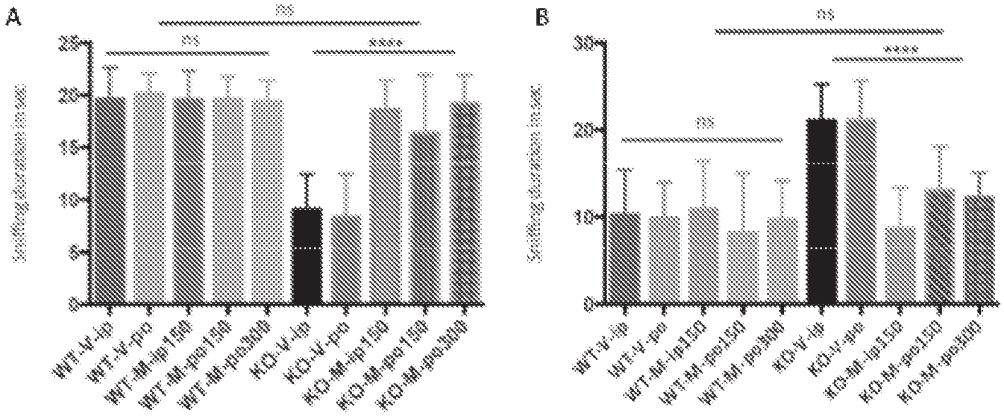

A
B
ns
****
WT-V-ip
WT-V-po
WT-M-ip150
WT-M-po150
WT-M-po300
KO-V-ip
KO-V-po
KO-M-ip150
KO-M-po150
KO-M-po300

Fig. 11

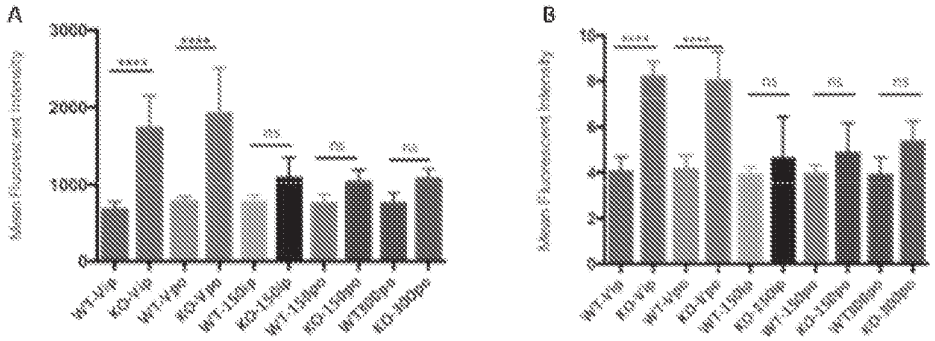


Fig. 12

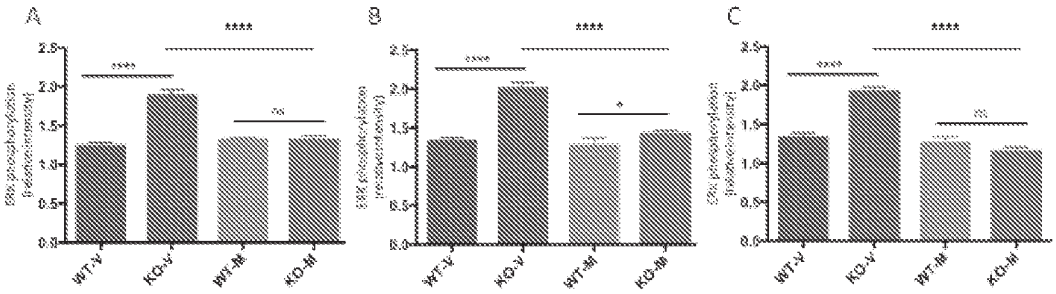


Fig. 13

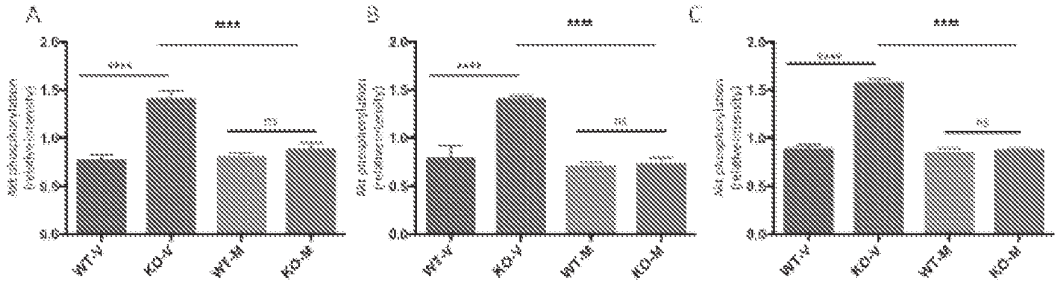


Fig. 14

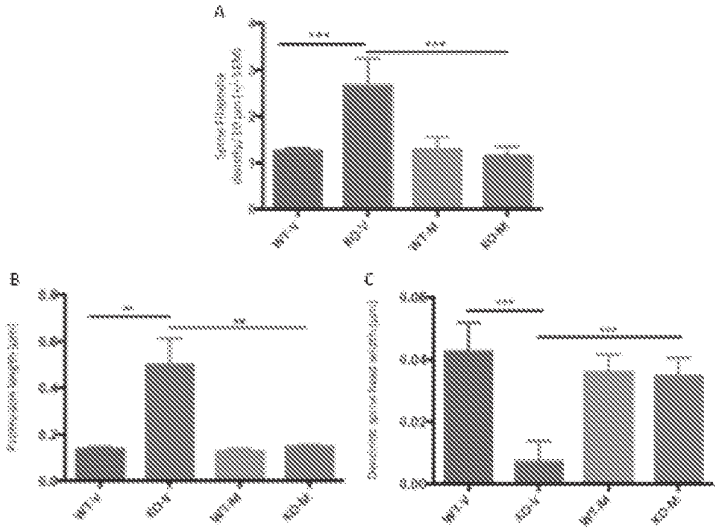


Fig. 15

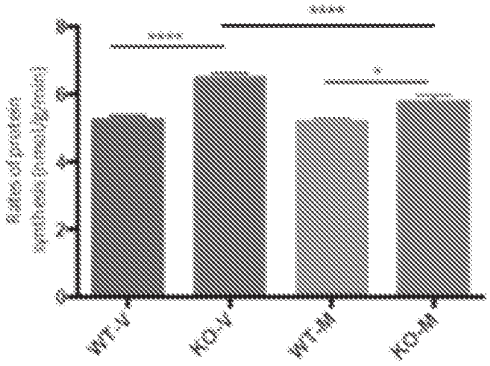


Fig. 16