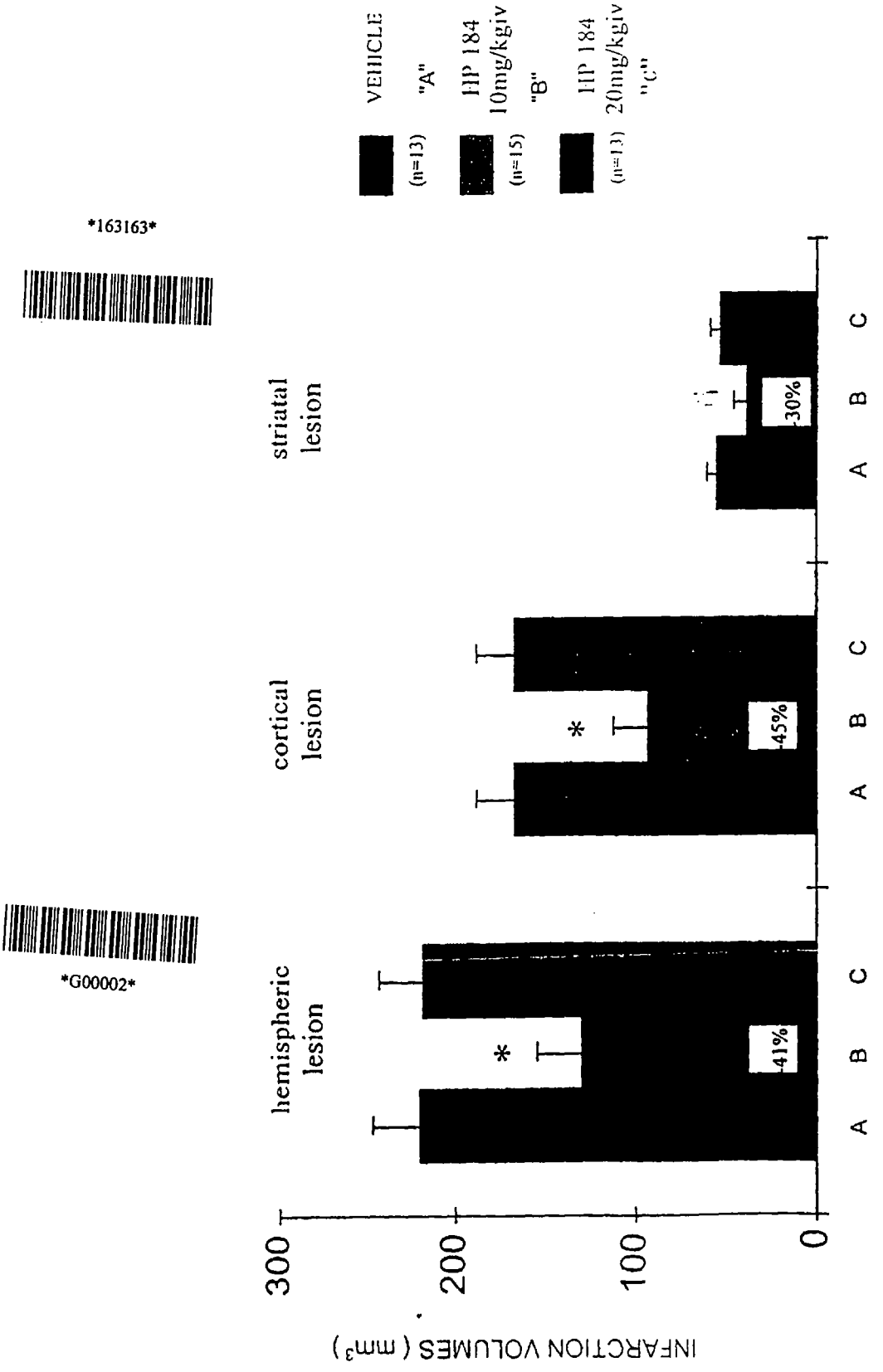


Fig. 1

163163

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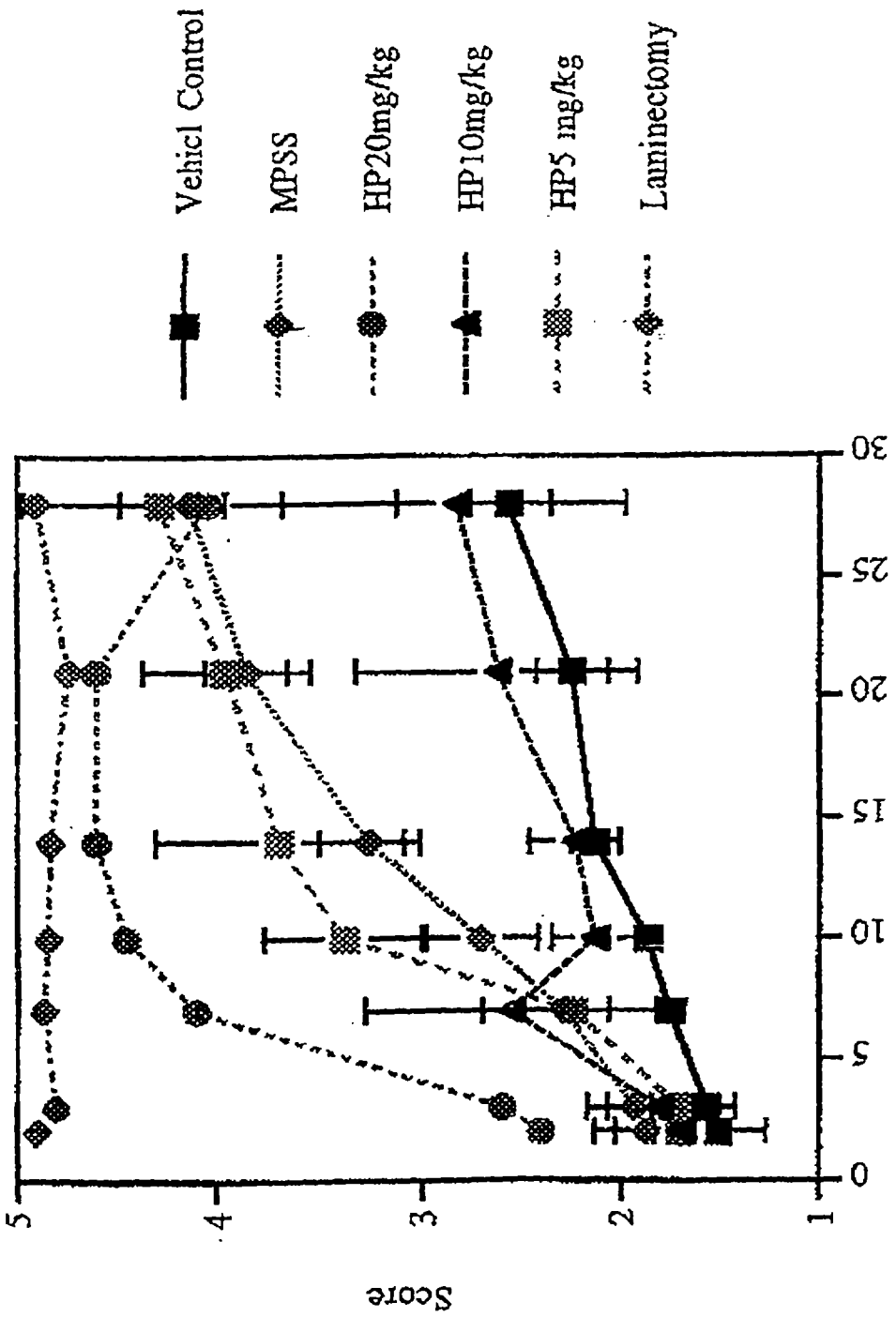

Vehicl Control
MPSS
HP20mg/kg
HP10mg/kg
HP5 mg/kg
Laminectomy
Score
5
4
3
2
1
0
5
10
15
20
25
30
Behaviour day

Fig. 2

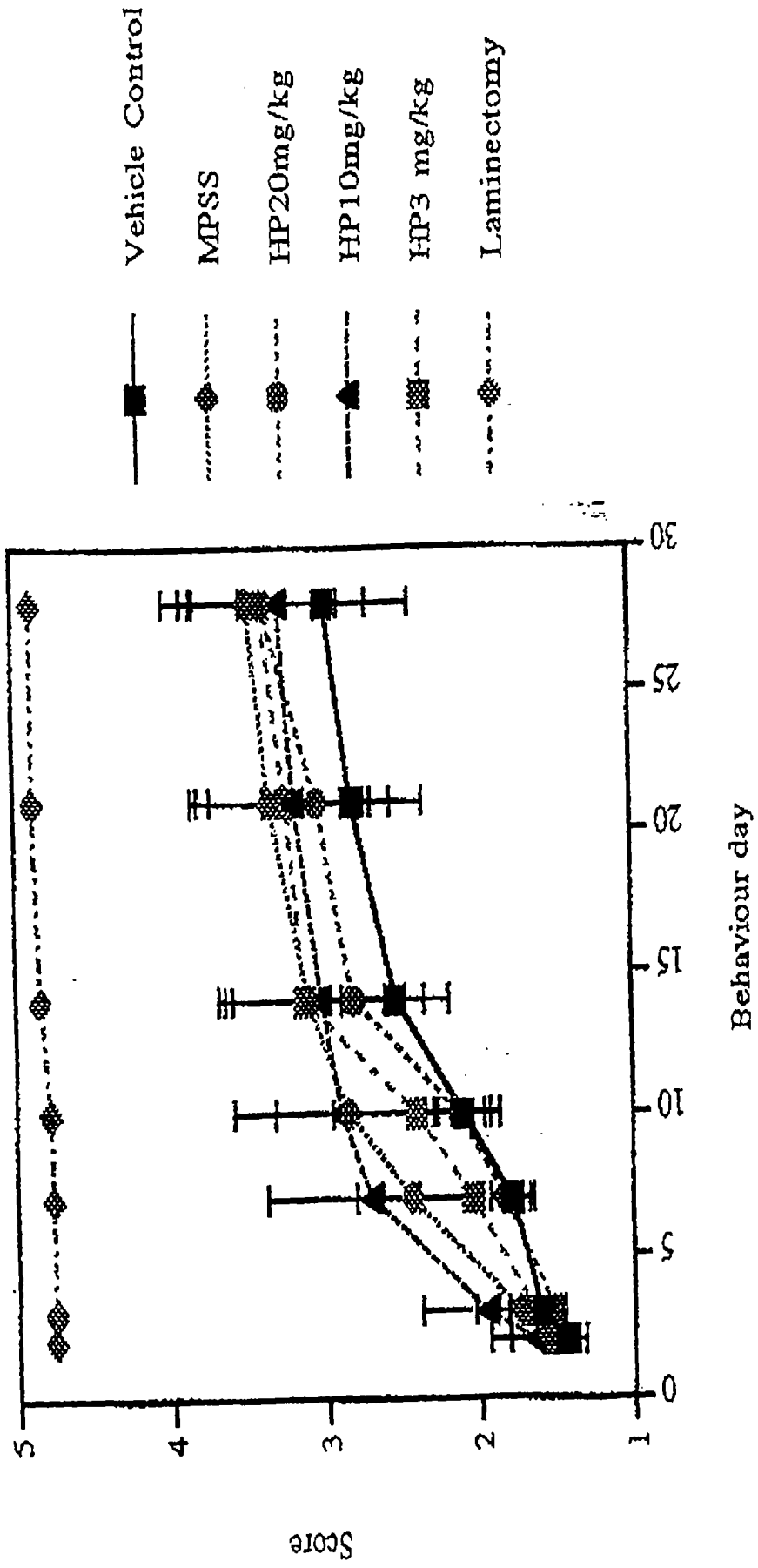

Vehicle Control
MPSS
HP20mg/kg
HP10mg/kg
HP3 mg/kg
Laminectomy
Score
Behaviour day
0
5
10
15
20
25
30
1
2
3
4
5

Fig. 3

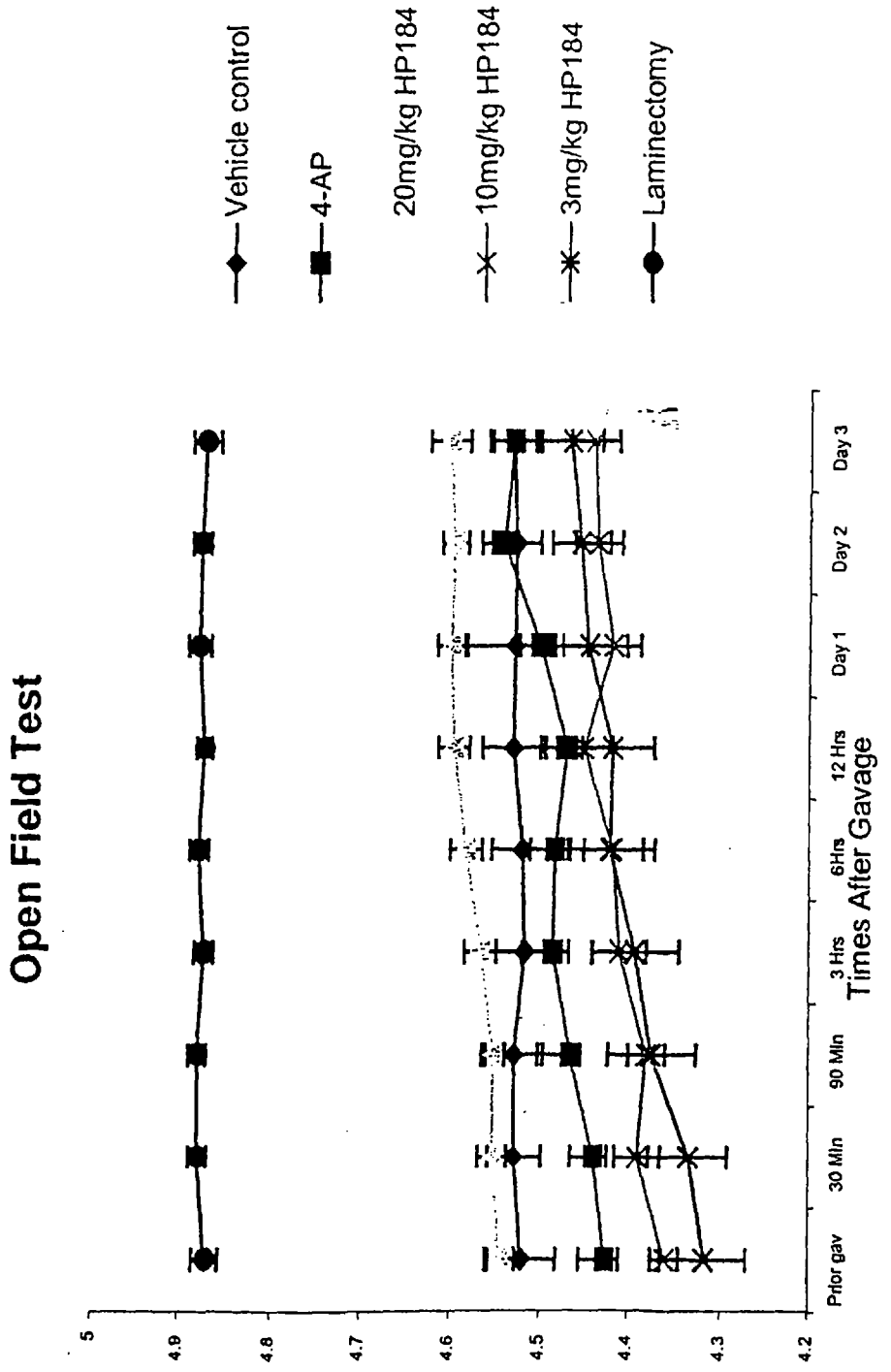

Open Field Test
Vehicle control
4-AP
20mg/kg HP184
10mg/kg HP184
3mg/kg HP184
Laminectomy
5
4.9
4.8
4.7
4.6
4.5
4.4
4.3
4.2
Prior gav
30 Min
90 Min
3 Hrs
6Hrs
12 Hrs
Day 1
Day 2
Day 3
Times After Gavage

Fig. 4

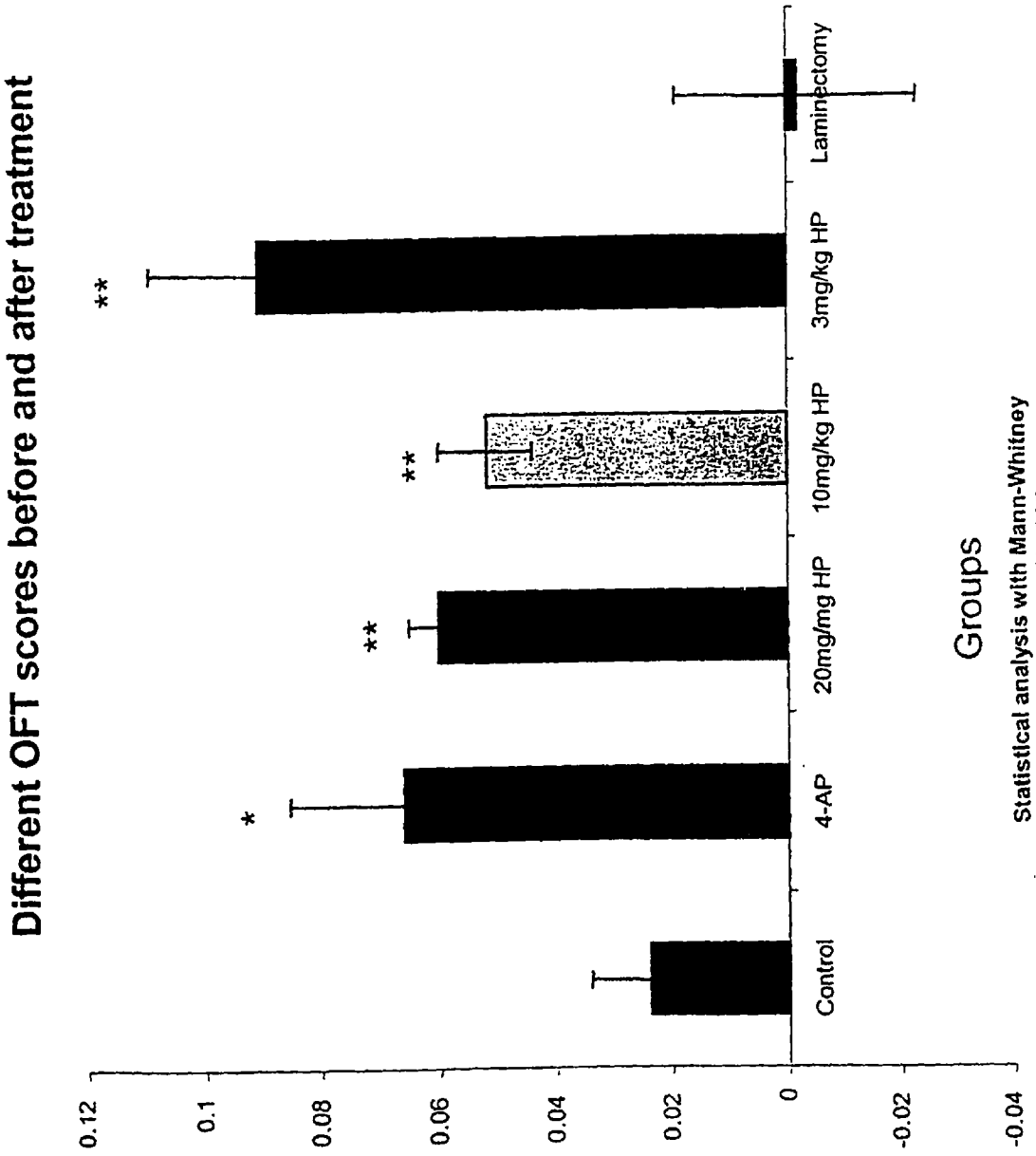

Different OFT scores before and after treatment
0.12
0.1
0.08
0.06
0.04
0.02
0
-0.02
-0.04
*
**
**
**
Control
4-AP
20mg/mg HP
10mg/kg HP
3mg/kg HP
Laminectomy
Groups
Statistical analysis with Mann-Whitney
U-Test *p<.05, **<.005

Fig. 5

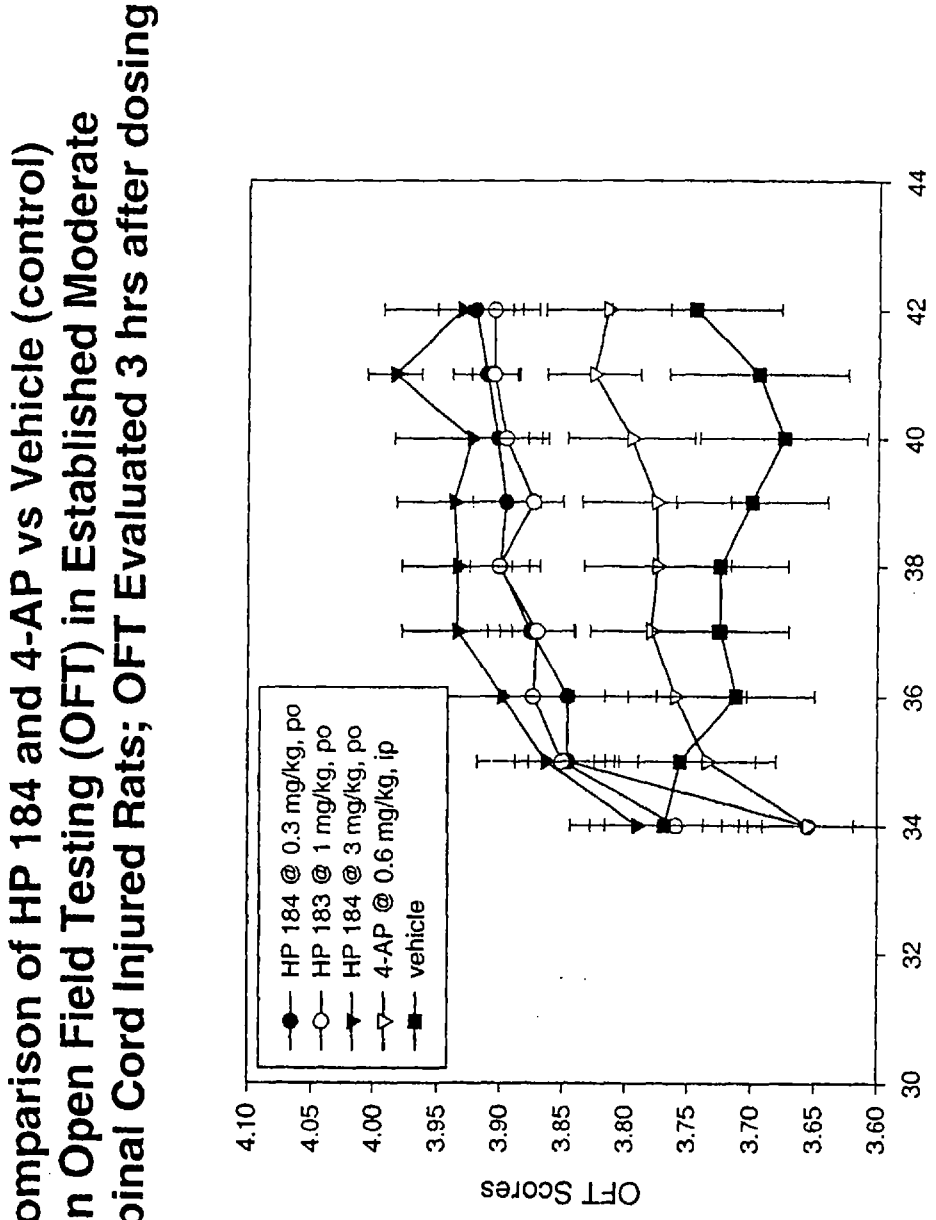

Comparison of HP 184 and 4-AP vs Vehicle (control)
on Open Field Testing (OFT) in Established Moderate
Spinal Cord Injured Rats; OFT Evaluated 3 hrs after dosing
OFT Scores
4.10
4.05
4.00
3.95
3.90
3.85
3.80
3.75
3.70
3.65
3.60
30
32
34
36
38
40
42
44
HP 184 @ 0.3 mg/kg, po
HP 183 @ 1 mg/kg, po
HP 184 @ 3 mg/kg, po
4-AP @ 0.6 mg/kg, ip
vehicle

Fig. 6

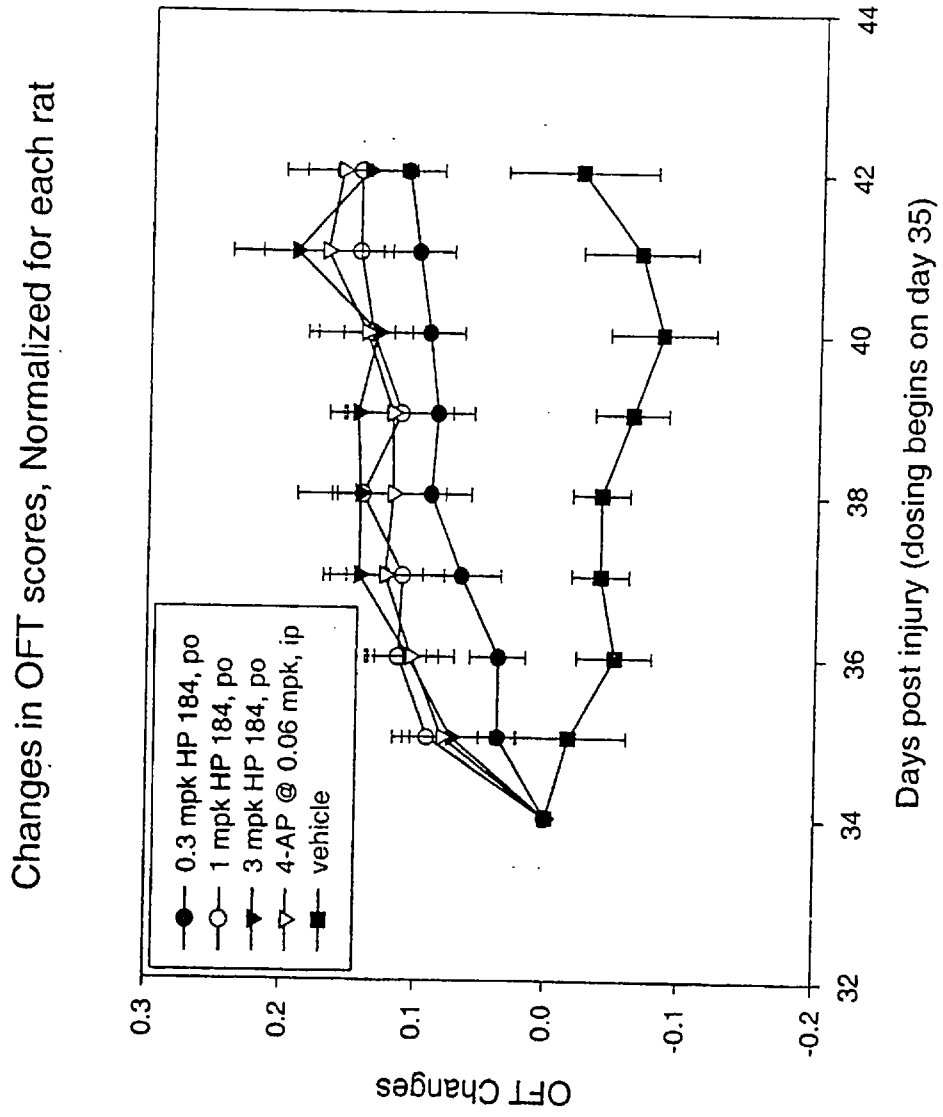

Changes in OFT scores, Normalized for each rat
0.3 mpk HP 184, po
1 mpk HP 184, po
3 mpk HP 184, po
4-AP @ 0.06 mpk, ip
vehicle
OFT Changes
0.3
0.2
0.1
0.0
-0.1
-0.2
32
34
36
38
40
42
44
Days post injury (dosing begins on day 35)

Fig. 7

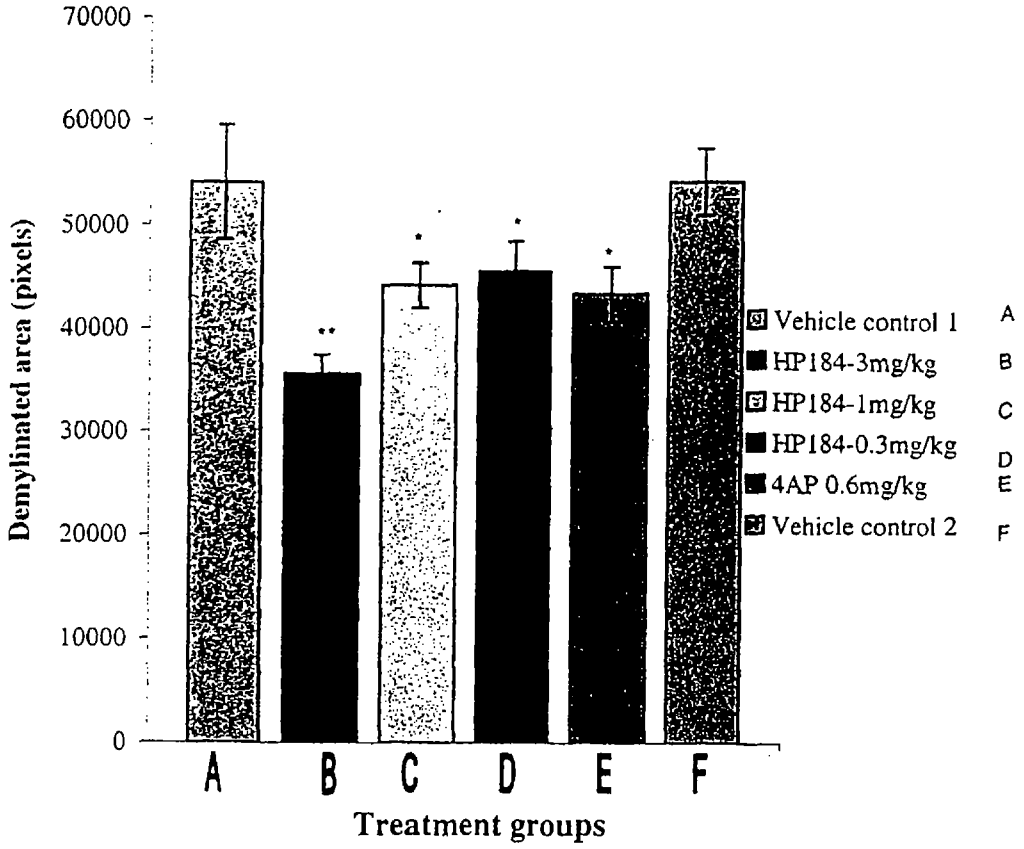

70000
60000
50000
40000
30000
20000
10000
0
Demylinated area (pixels)
**
*
*
*
A
B
C
D
E
F
Treatment groups
Vehicle control 1 A
HP184-3mg/kg B
HP184-1mg/kg C
HP184-0.3mg/kg D
4AP 0.6mg/kg E
Vehicle control 2 F

Fig. 8

The Effect of Intravenous HP-184 on Bladder Contraction Frequency following Bladder Irritation (n=4/group)

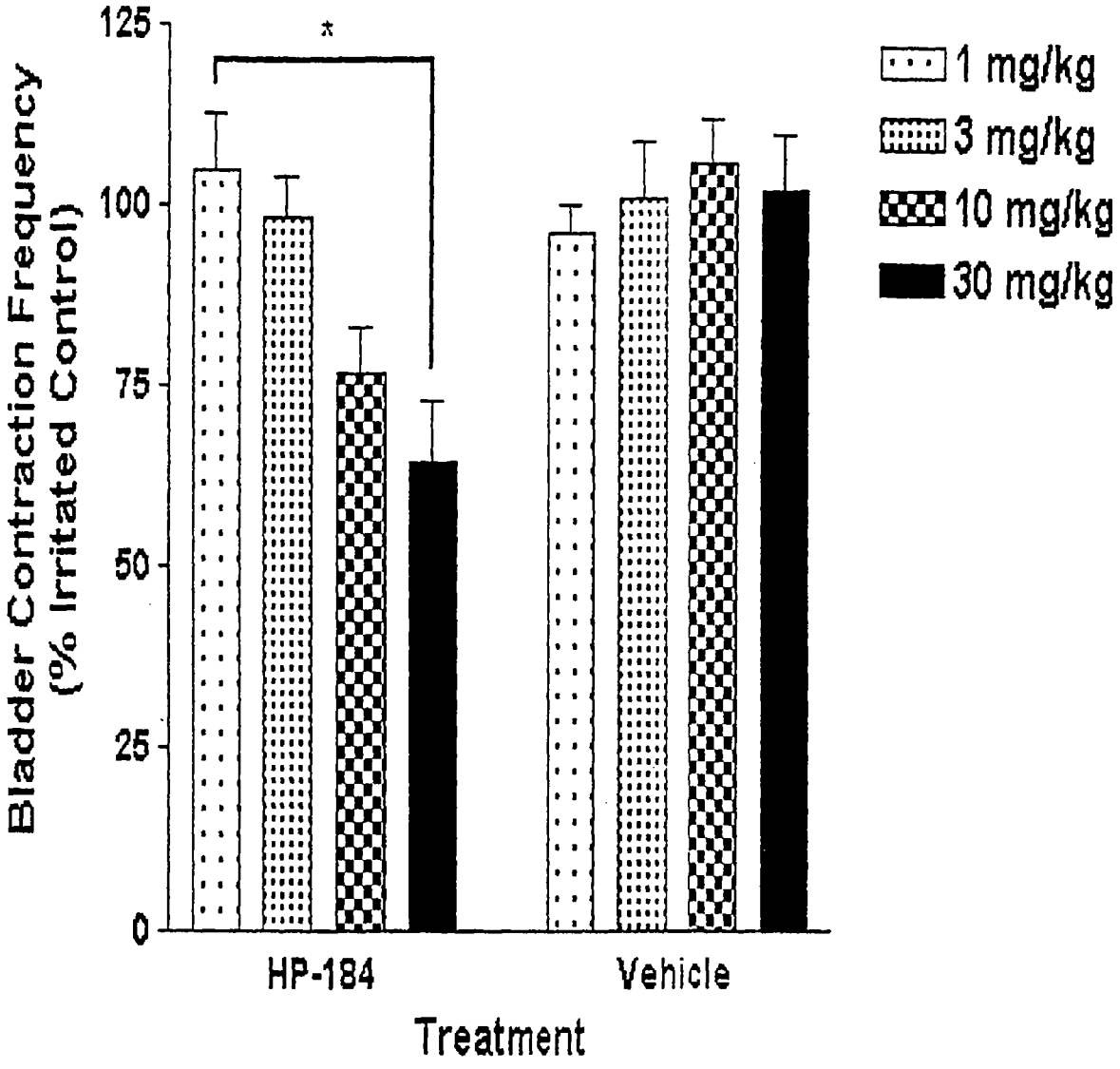


Fig. 9

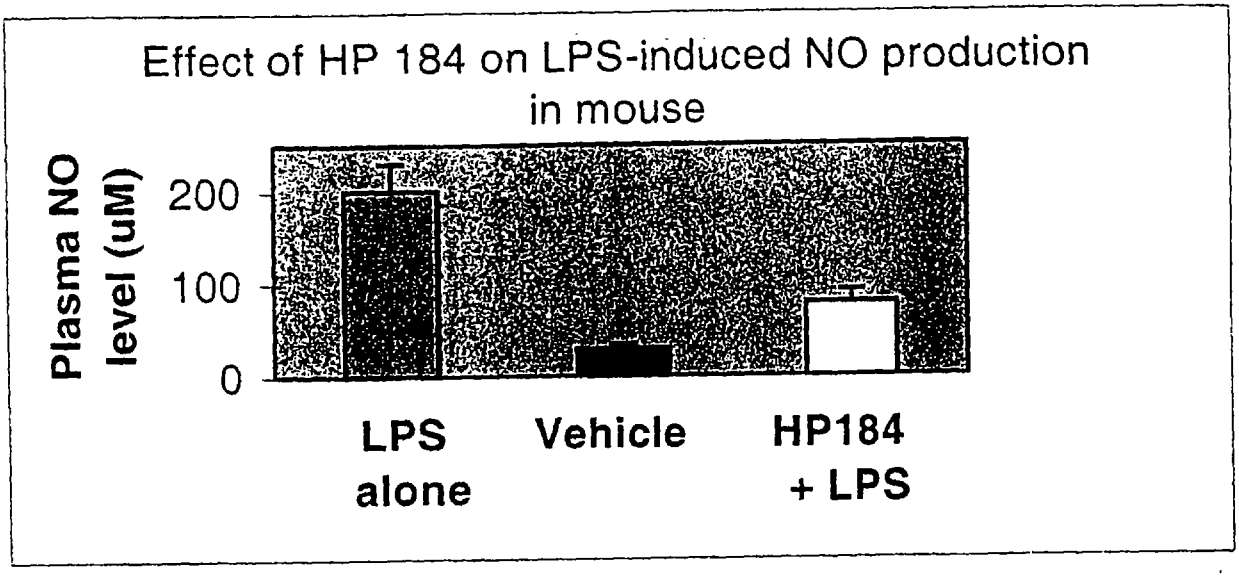

Effect of HP 184 on LPS-induced NO production in mouse
Plasma NO level (uM)
200
100
0
LPS alone
Vehicle
HP184 + LPS

Fig. 10

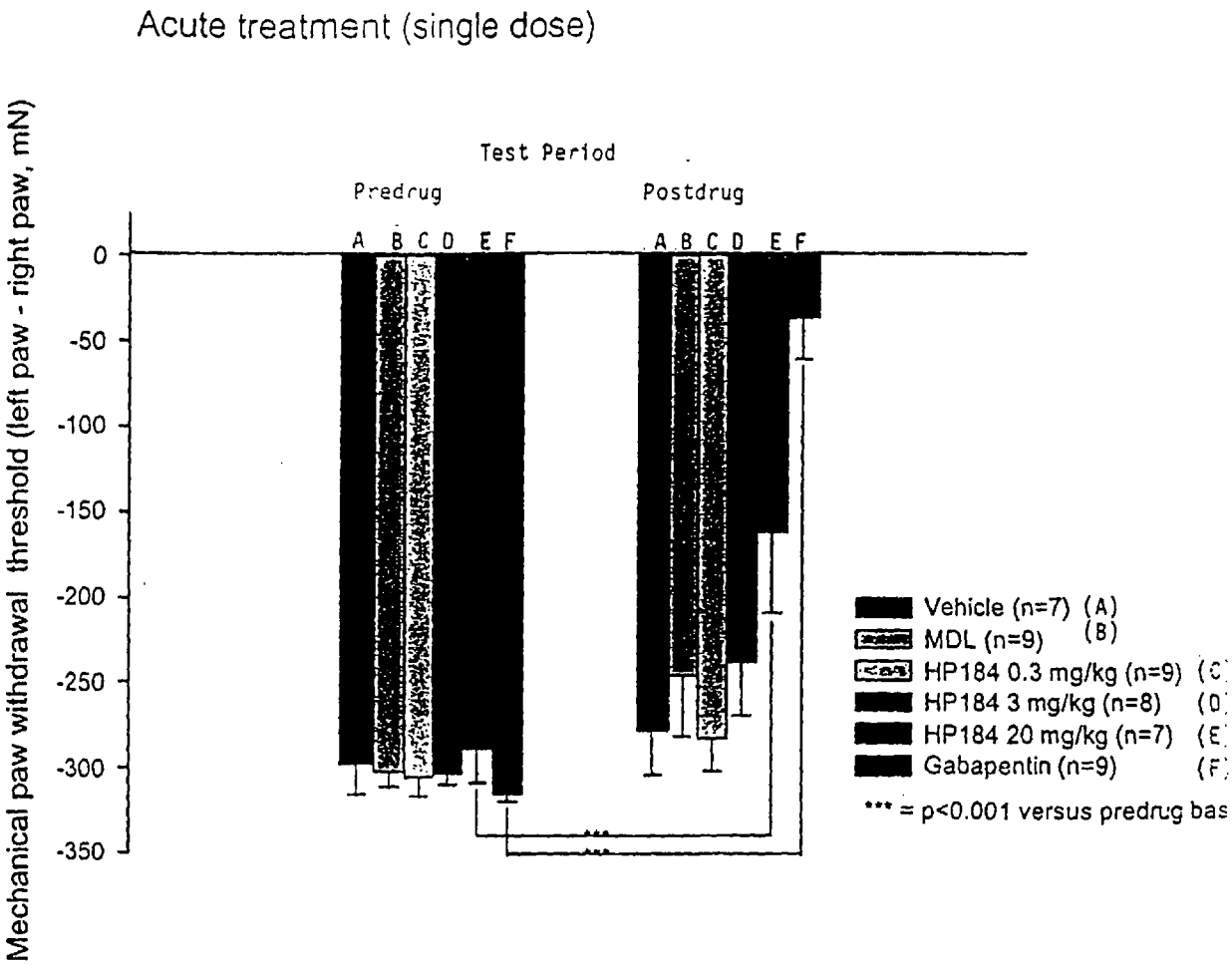

Acute treatment (single dose)
Test Period
Predrug
Postdrug
A B C D E F
A B C D E F
Mechanical paw withdrawal threshold (left paw - right paw, mN)
0
-50
-100
-150
-200
-250
-300
-350
Vehicle (n=7) (A)
MDL (n=9) (B)
HP184 0.3 mg/kg (n=9) (C)
HP184 3 mg/kg (n=8) (D)
HP184 20 mg/kg (n=7) (E)
Gabapentin (n=9) (F)
*** = p<0.001 versus predrug bas

Fig. 11