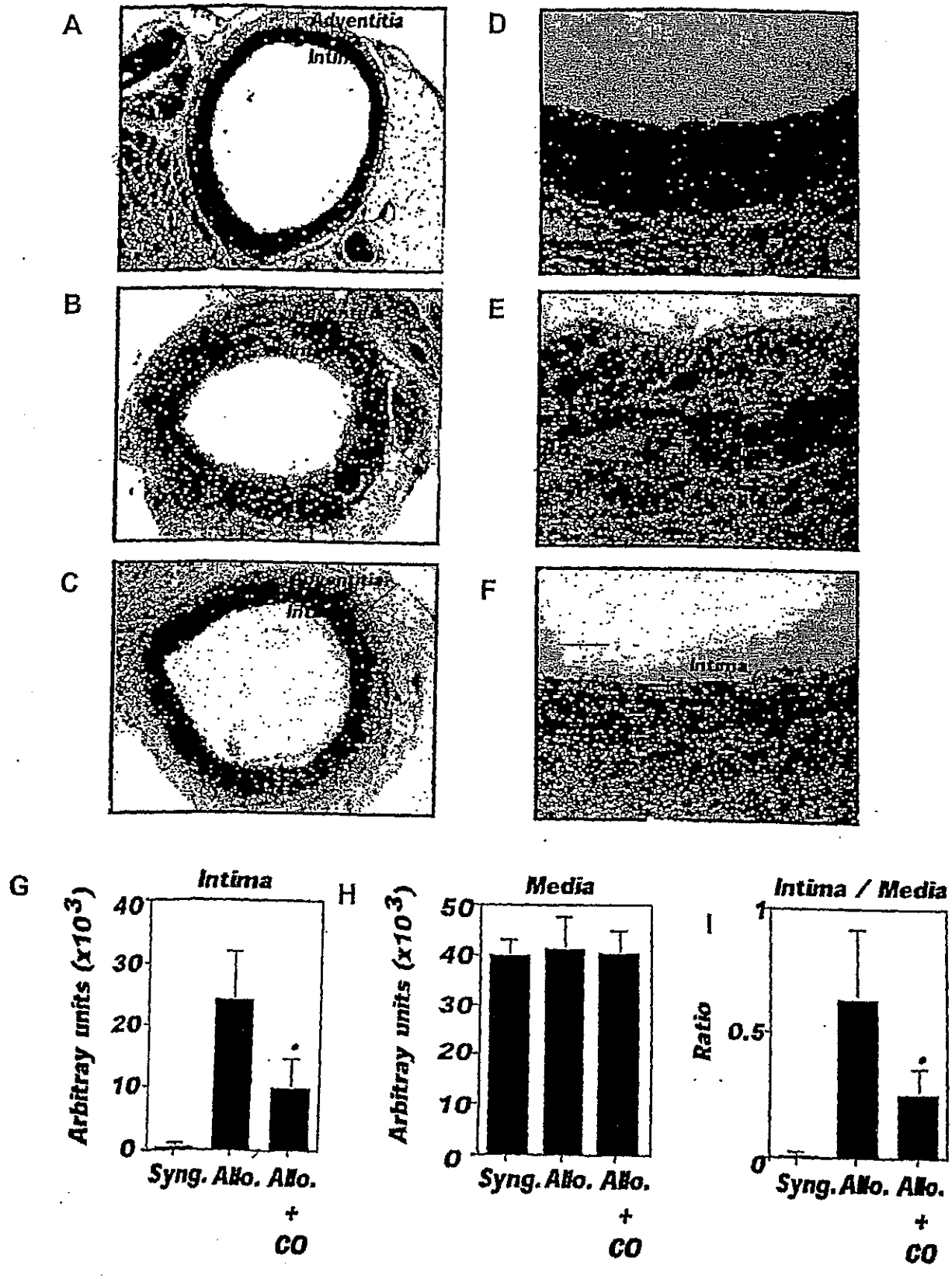
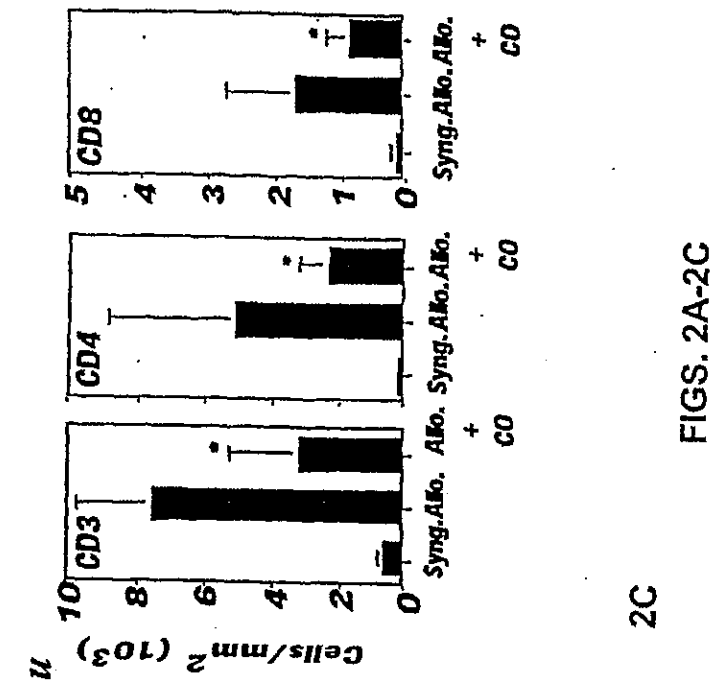
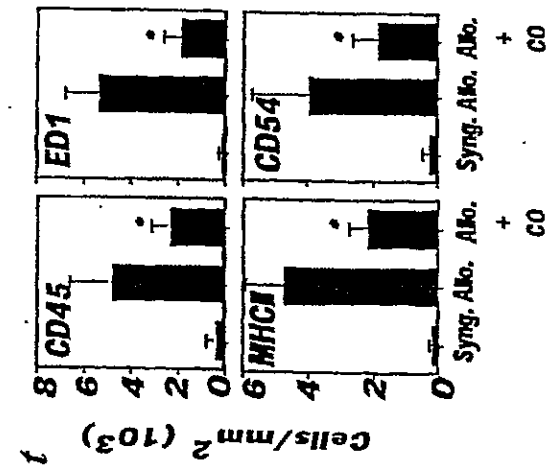

A
Adventitia
Intima
D
B
E
C
F
Intima
G
Intima
Arbitray units (x10^3)
40
30
20
10
0
Syng.
Allo.
Allo. + CO
H
Media
Arbitray units (x10^3)
50
40
30
20
10
0
Syng.
Allo.
Allo. + CO
I
Intima / Media
Ratio
1
0.5
0
Syng.
Allo.
Allo. + CO

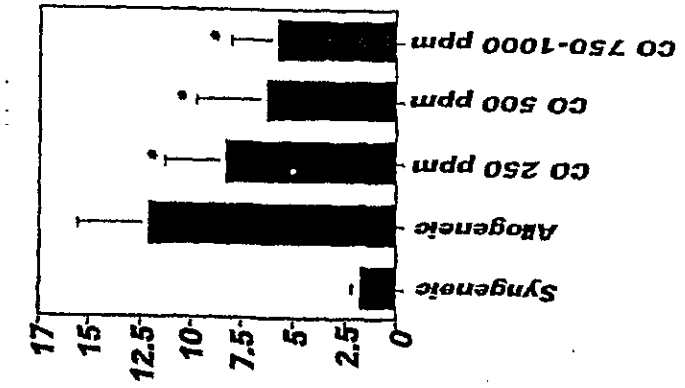
FIGS. 1A-1I



2C

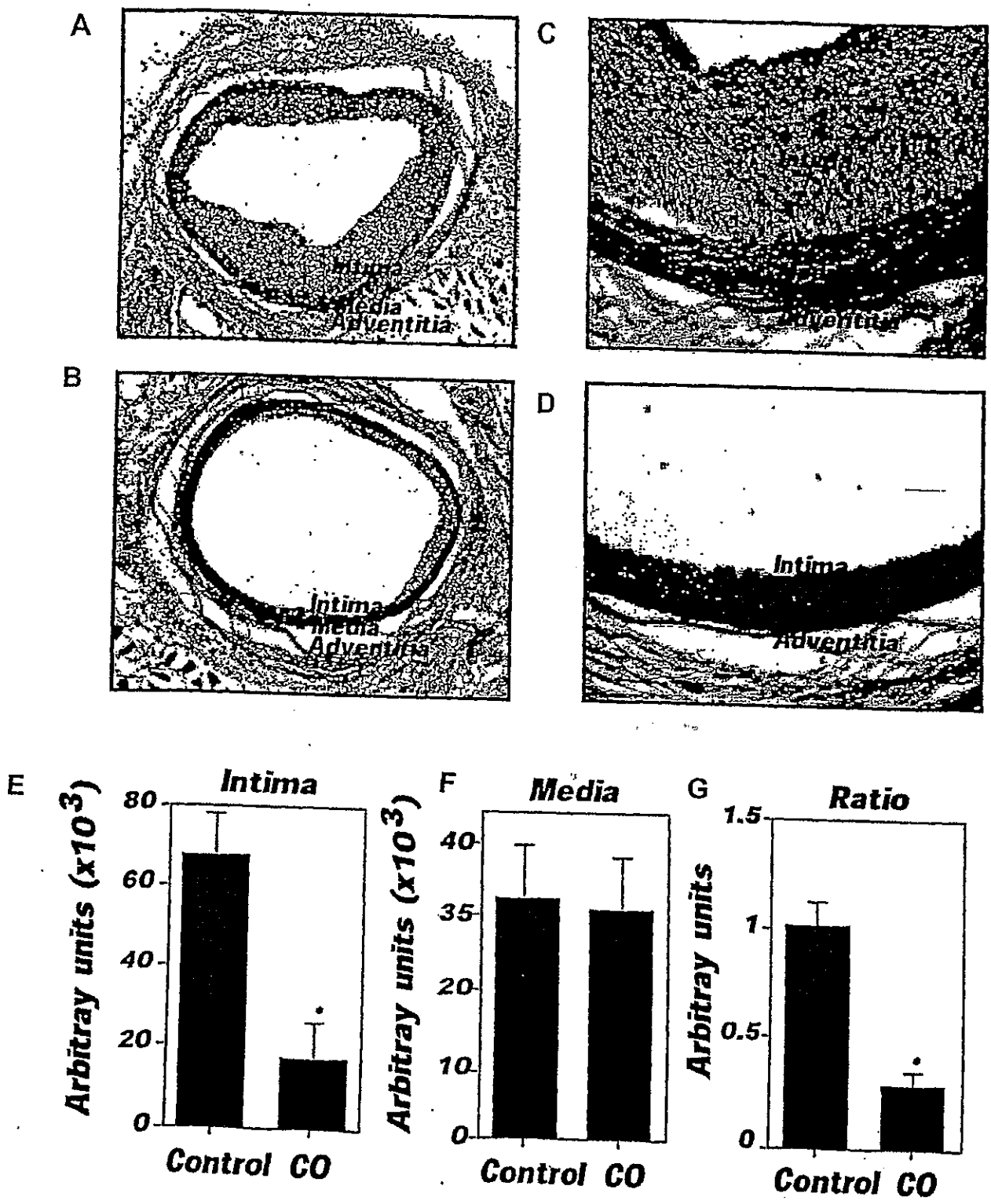


2B

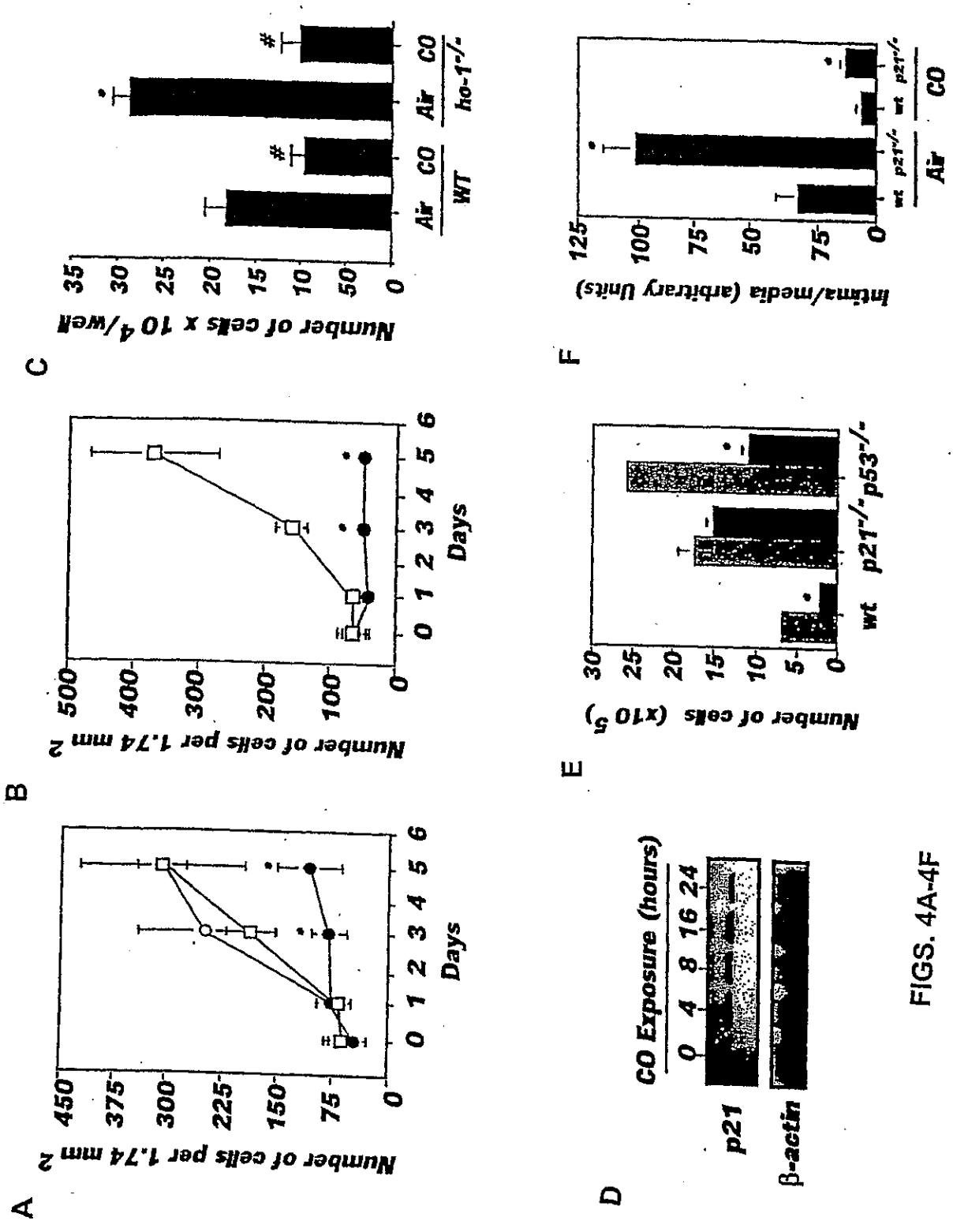


2A

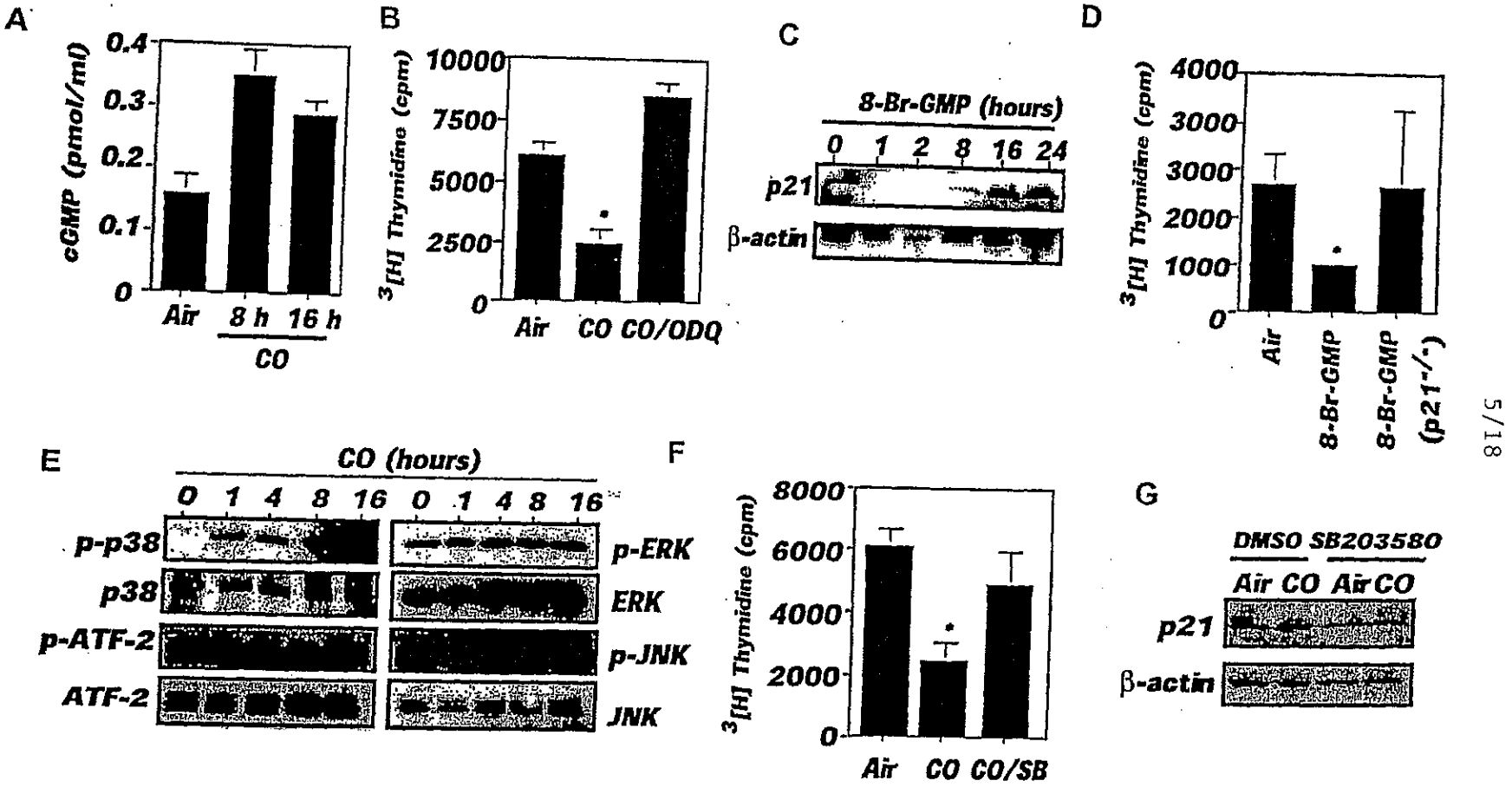
FIGS. 2A-2C


A
Intima
Media
Adventitia
C
Adventitia
B
Intima
Media
Adventitia
D
Intima
Adventitia
E
Intima
Arbitray units (x10^3)
80
60
40
20
0
Control
CO
F
Media
Arbitray units (x10^3)
40
35
20
10
0
Control
CO
G
Ratio
Arbitray units
1.5
1
0.5
0
Control
CO

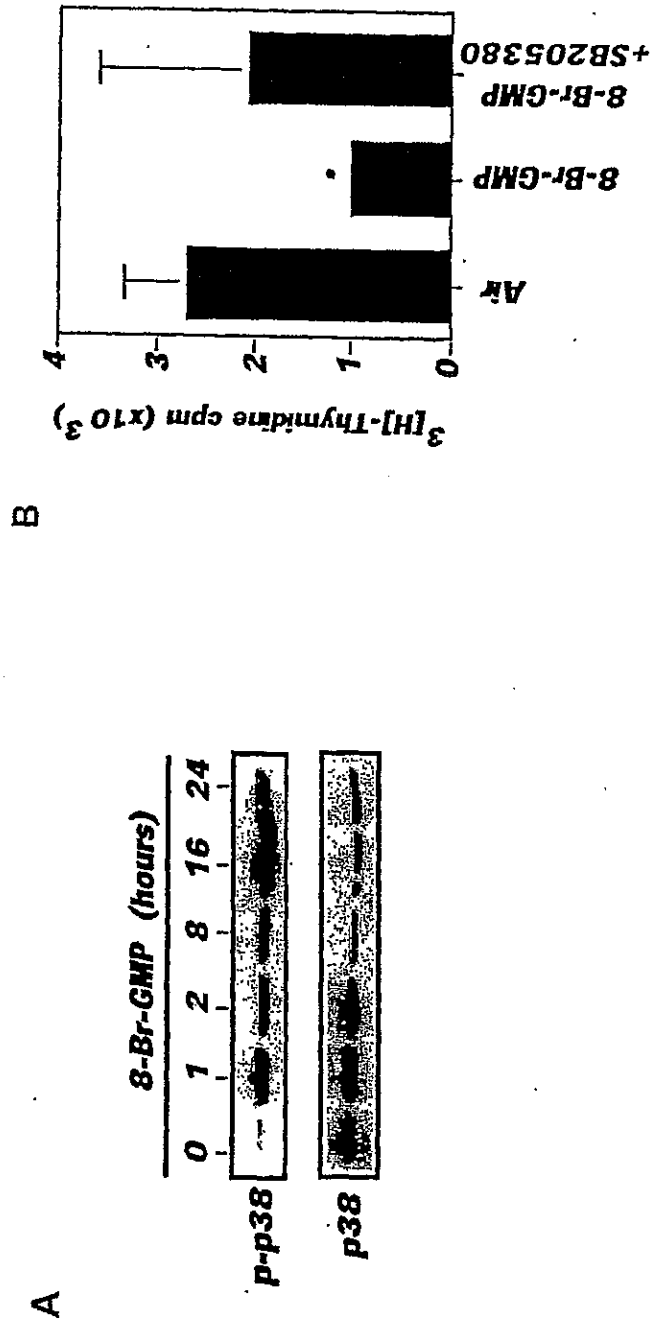
FIGS. 3A-3G


A
Number of cells per 1.74 mm 2
Days
B
Number of cells per 1.74 mm 2
Days
C
Number of cells x 10 4/well
Air CO Air CO
WT ho-1-/-
D
CO Exposure (hours)
0 4 8 16 24
p21
β-actin
E
Number of cells (x10 5)
wt p21-/- p53-/-
F
Intima/media (arbitrary Units)
wt p21-/- wt p21-/-
Air CO

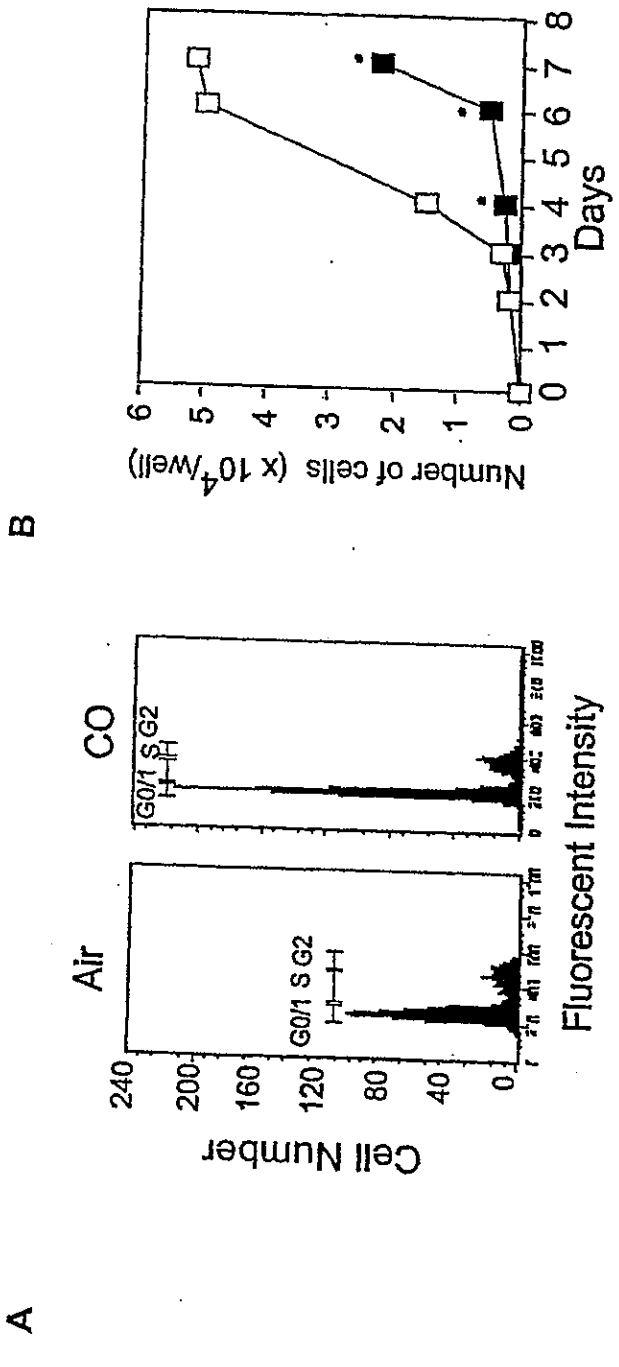
FIGS. 4A-4F


A
cGMP (pmol/ml)
0.4
0.3
0.2
0.1
0
Air
8 h
16 h
CO
B
3[H] Thymidine (cpm)
10000
7500
5000
2500
0
Air
CO
CO/ODQ
C
8-Br-GMP (hours)
0 1 2 8 16 24
p21
β-actin
D
3[H] Thymidine (cpm)
4000
3000
3000
2000
1000
0
Air
8-Br-GMP
8-Br-GMP
(p21-/-)
E
CO (hours)
0 1 4 8 16 0 1 4 8 16
p-p38
p38
p-ATF-2
ATF-2
p-ERK
ERK
p-JNK
JNK
F
3[H] Thymidine (cpm)
8000
6000
4000
2000
0
Air
CO
CO/SB
G
DMSO SB203580
Air CO Air CO
p21
β-actin

FIGS. 5A-5G


A
8-Br-GMP (hours)
0
1
2
8
16
24
p-p38
p38
B
^{3}[H]-Thymidine cpm (x10 ^{3})
0
1
2
3
4
Air
8-Br-cGMP
8-Br-cGMP
+SB203580

FIGS. 6A-6B


A
Air
CO
G0/1 S G2
G0/1 S G2
Cell Number
240
200
160
120
80
40
0
Fluorescent Intensity
B
Number of cells (x 10⁴/well)
6
5
4
3
2
1
0
0 1 2 3 4 5 6 7 8
Days

FIGS. 7A-7B

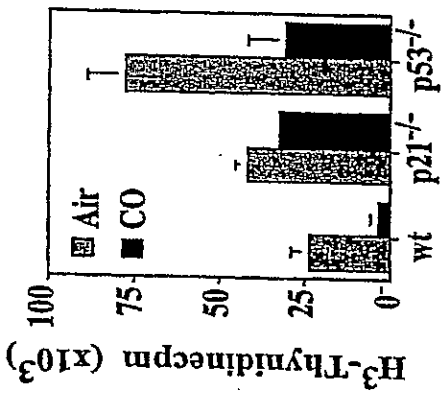
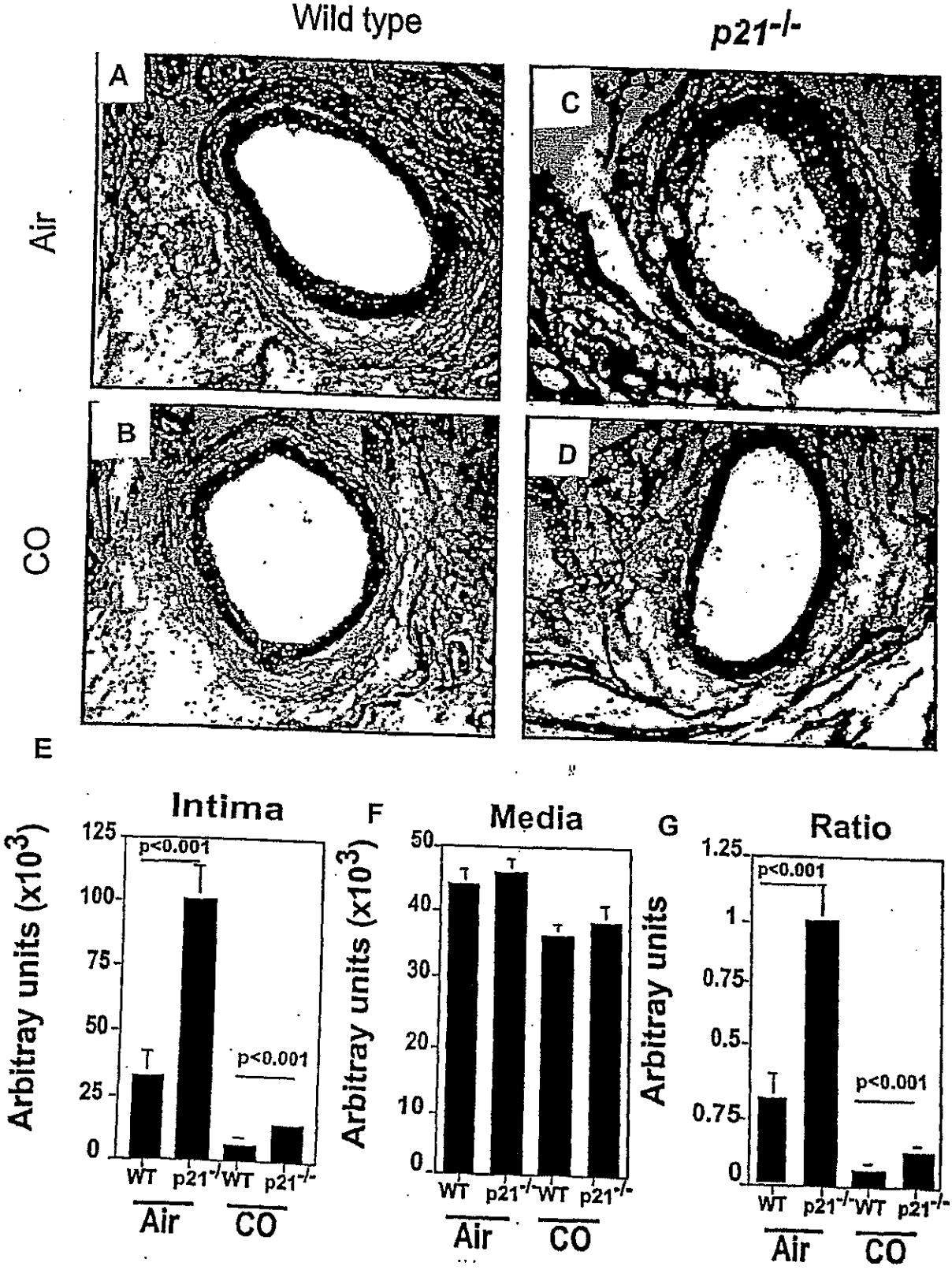


FIG. 8


Wild type
p21-/-
A
C
B
D
Air
CO
E
Intima
Arbitray units (x10^3)
125
100
75
50
25
0
p<0.001
p<0.001
WT
p21-/-
WT
p21-/-
Air
CO
F
Media
Arbitray units (x10^3)
50
40
30
20
10
0
WT
p21-/-
WT
p21-/-
Air
CO
G
Ratio
Arbitray units
1.25
1
0.75
0.5
0.75
0
p<0.001
p<0.001
WT
p21-/-
WT
p21-/-
Air
CO

FIGS. 9A-9G

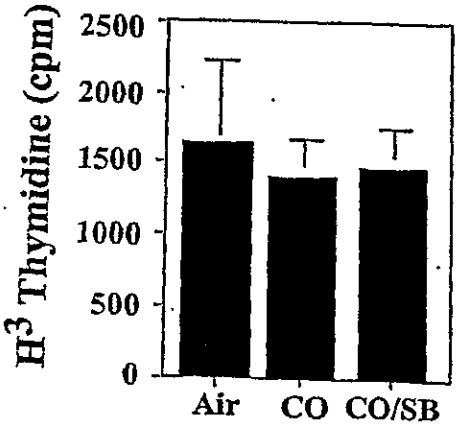
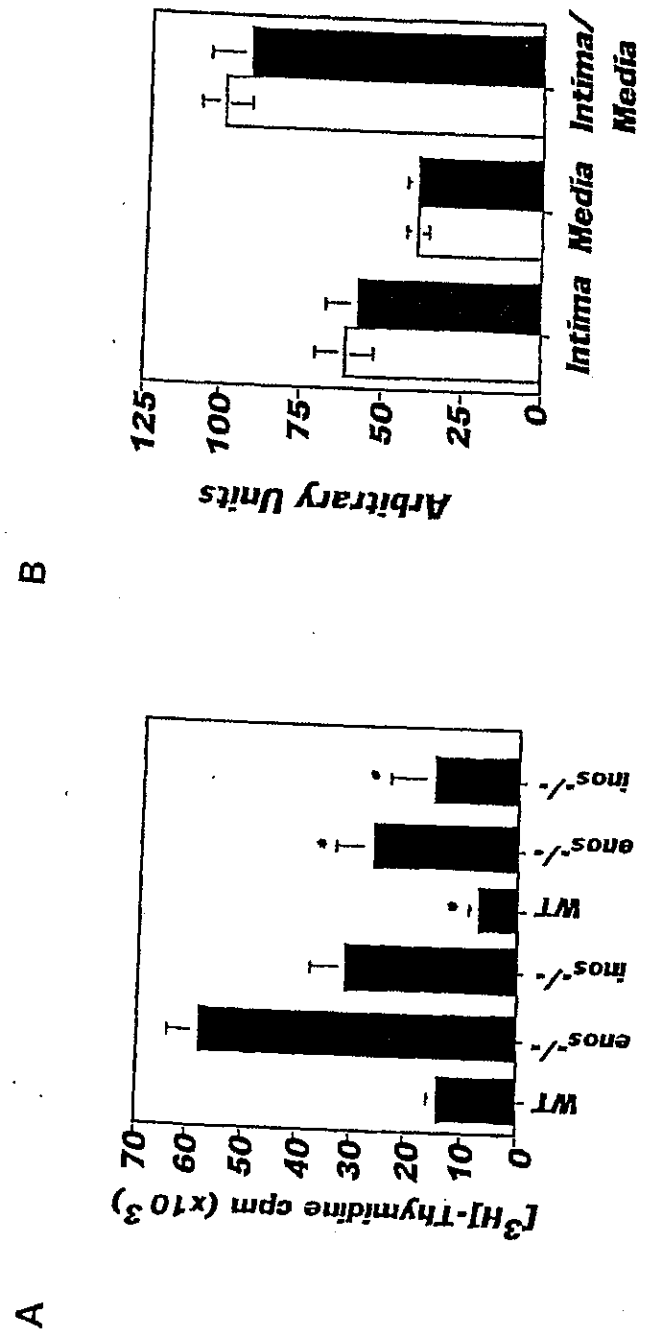
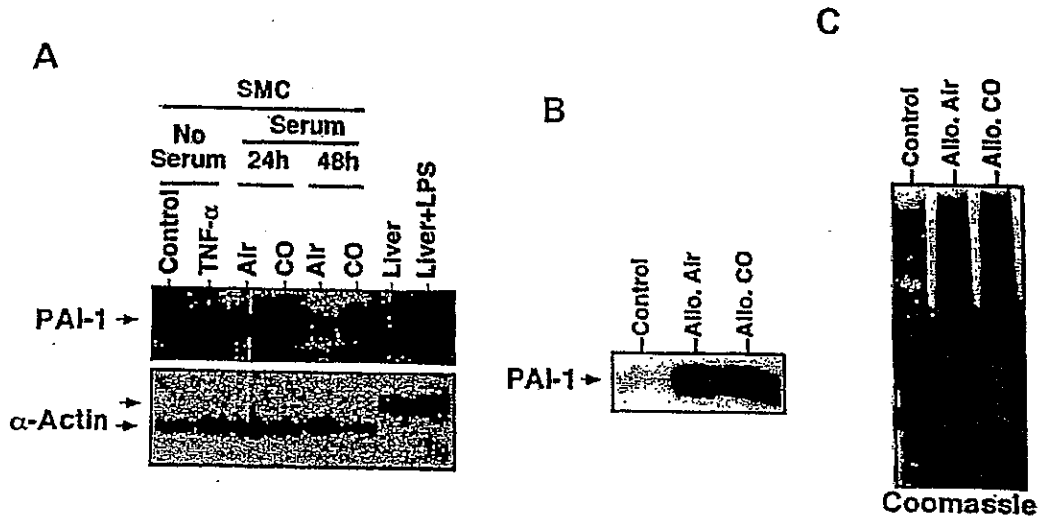


FIG. 10


A
B
[3H]-Thymidine cpm (x10 3)
70
60
50
40
30
20
10
0
WT
enos-/-
inos-/-
WT
enos-/-
inos-/-
Air
CO
Arbitrary Units
125
100
75
50
25
0
Intima
Media
Intima/
Media

FIGS. 11A-11B


A
SMC
No Serum
Serum
24h
48h
Control
TNF-α
Air
CO
Air
CO
Liver
Liver+LPS
PAI-1
α-Actin
B
Control
Allo. Air
Allo. CO
PAI-1
C
Control
Allo. Air
Allo. CO
Coomassie

FIGS. 12A-12C

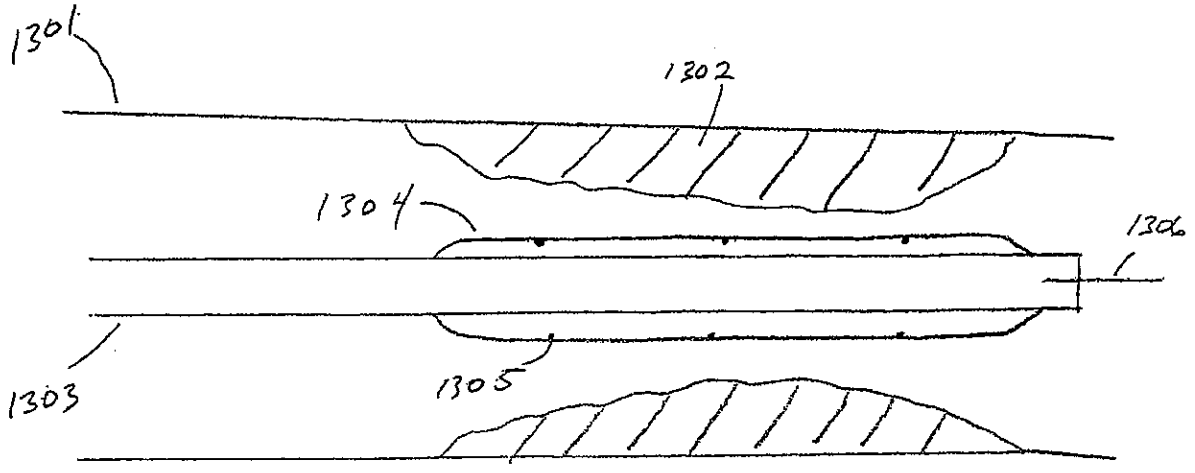


FIG. 13A

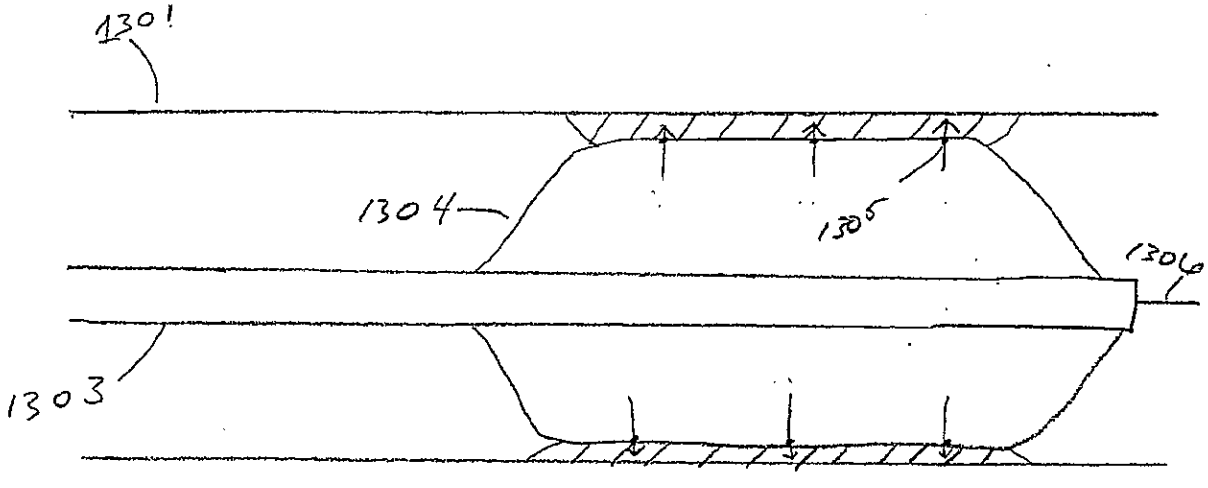


FIG 13B

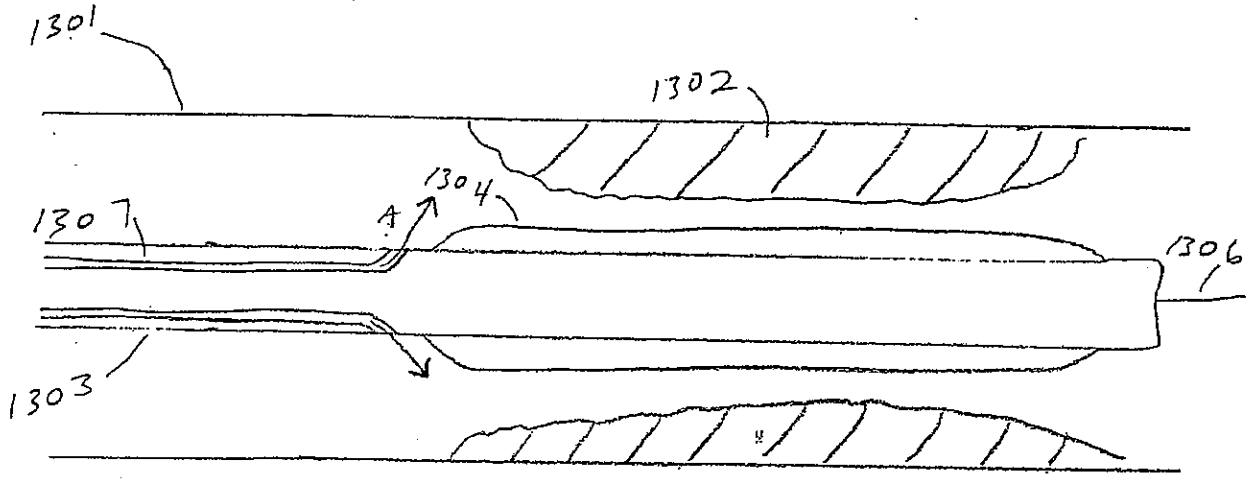


FIG. 13C

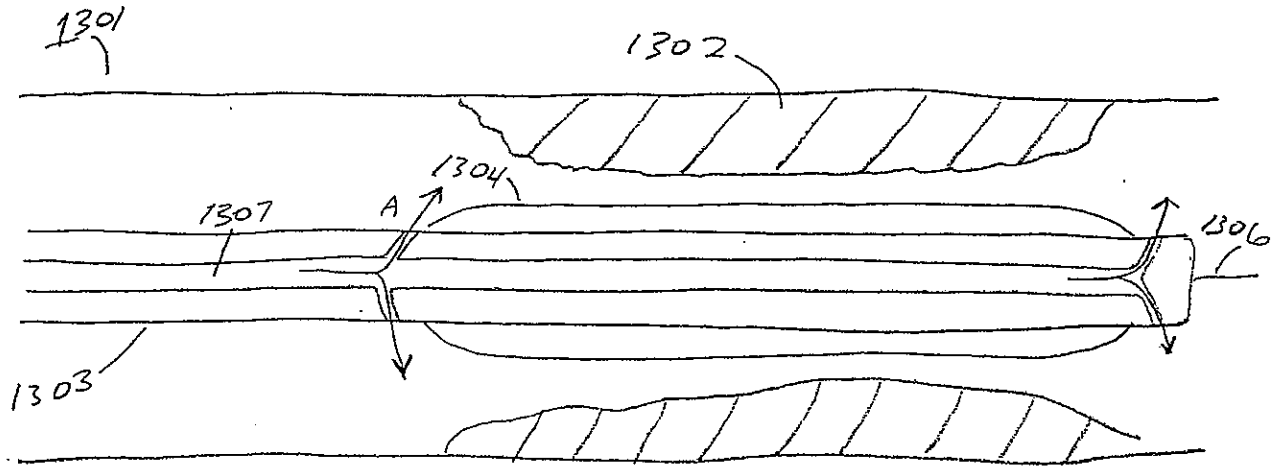


FIG. 13D

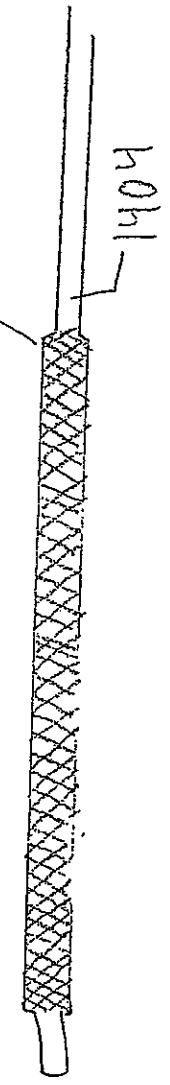


Figure 14a

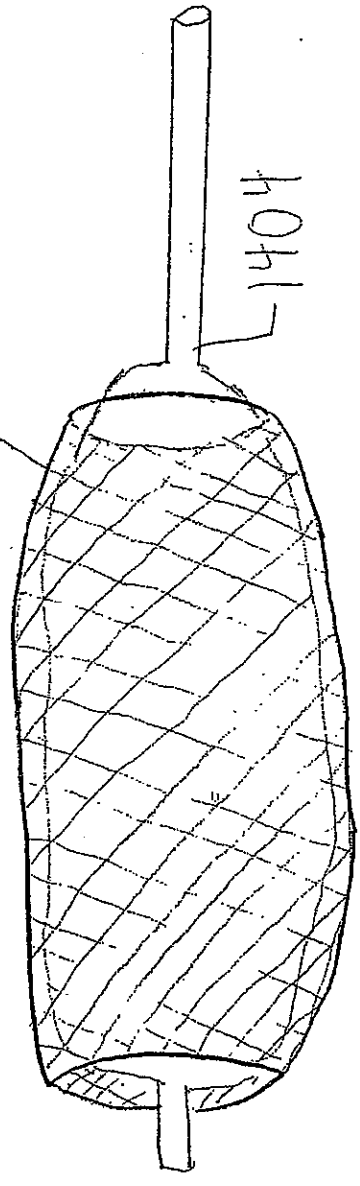


Figure 14b

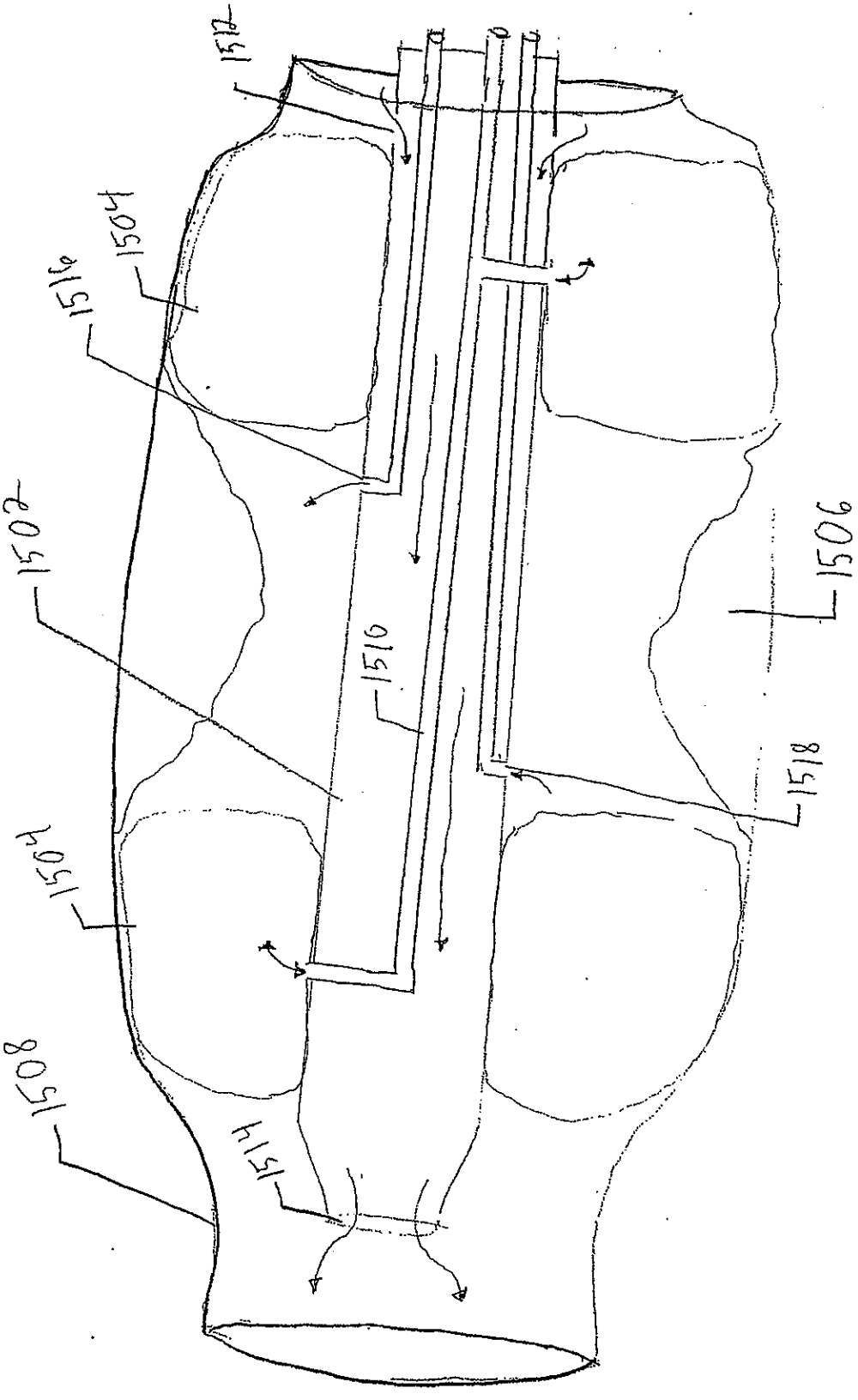


Figure 15

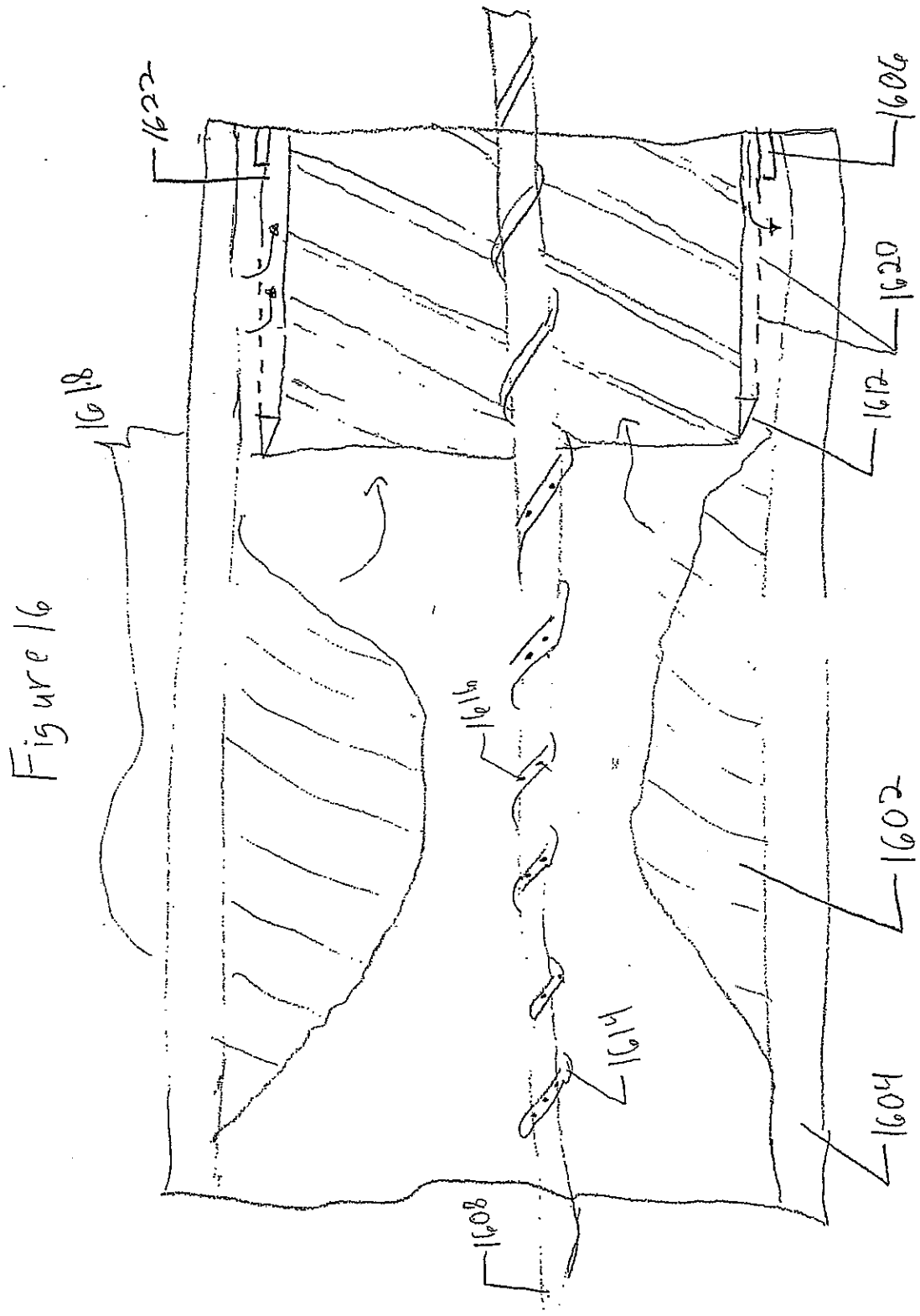


Figure 16