Figure 1

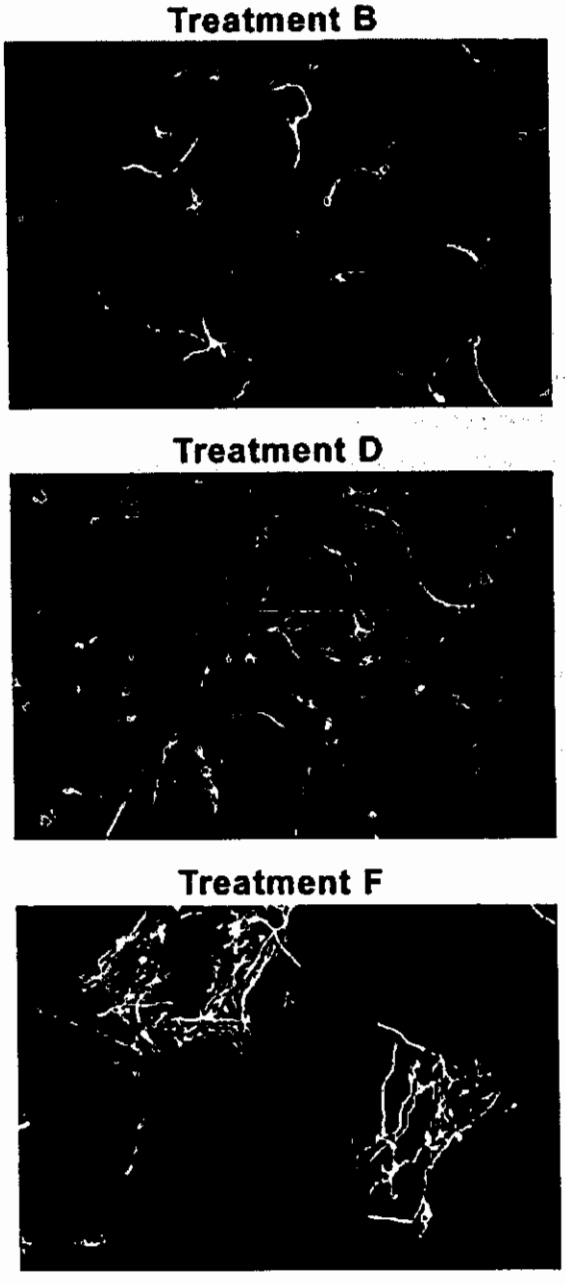


Figure 2

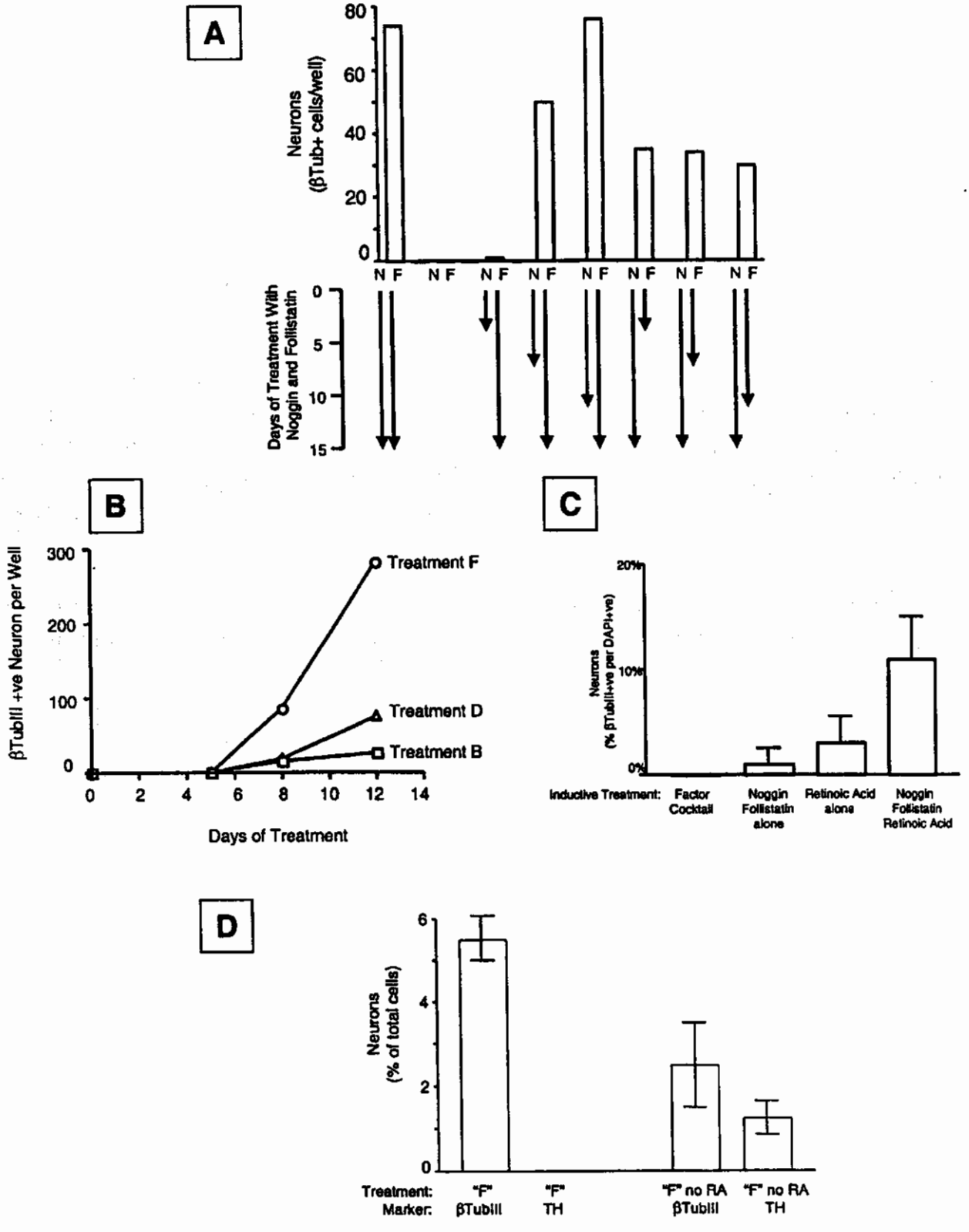
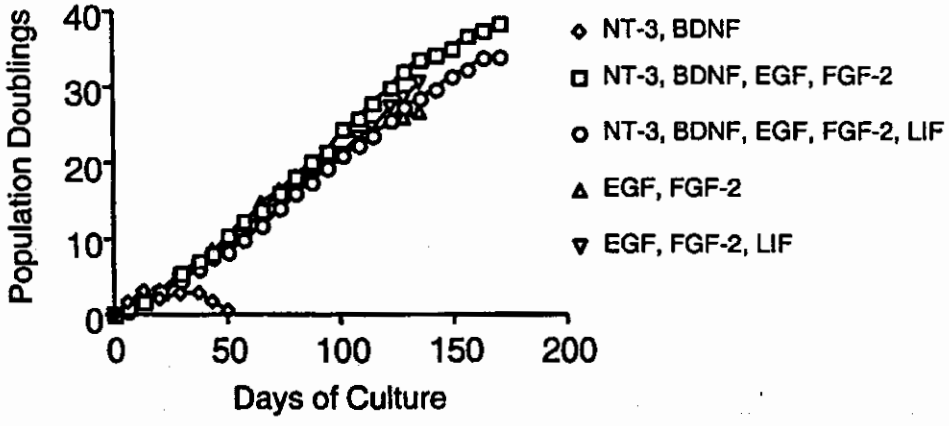

A
Neurons (βTub+ cells/well)
80
60
40
20
0
N F N F N F N F N F N F N F N F
Days of Treatment With Noggin and Follistatin
0
5
10
15
B
βTubIII +ve Neuron per Well
300
200
100
0
Treatment F
Treatment D
Treatment B
0 2 4 6 8 10 12 14
Days of Treatment
C
Neurons (% βTubIII+ve per DAPI+ve)
20%
10%
0%
Inductive Treatment:
Factor Cocktail
Noggin Follistatin alone
Retinoic Acid alone
Noggin Follistatin Retinoic Acid
D
Neurons (% of total cells)
6
4
2
0
Treatment:
Marker:
"F" βTubIII
"F" TH
"F" no RA βTubIII
"F" no RA TH

Figure 3

A


Population Doublings
40
30
20
10
0
0
50
100
150
200
Days of Culture
NT-3, BDNF
NT-3, BDNF, EGF, FGF-2
NT-3, BDNF, EGF, FGF-2, LIF
EGF, FGF-2
EGF, FGF-2, LIF

B

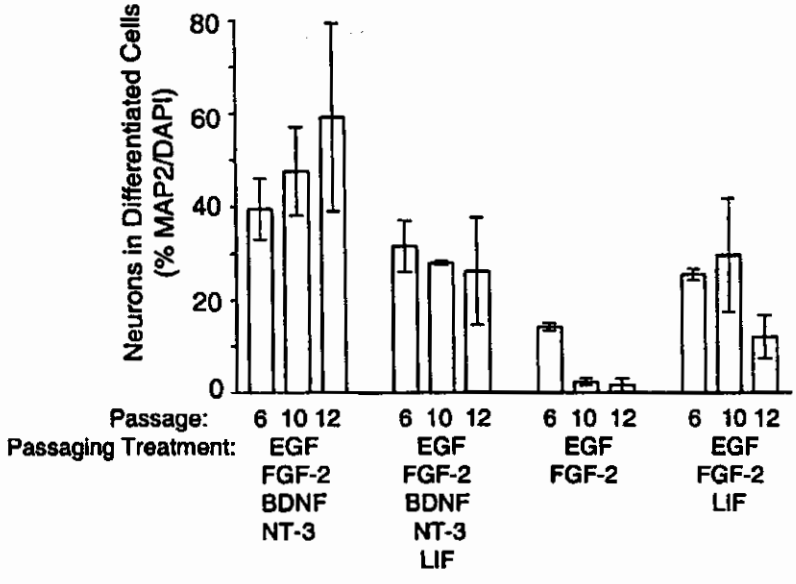
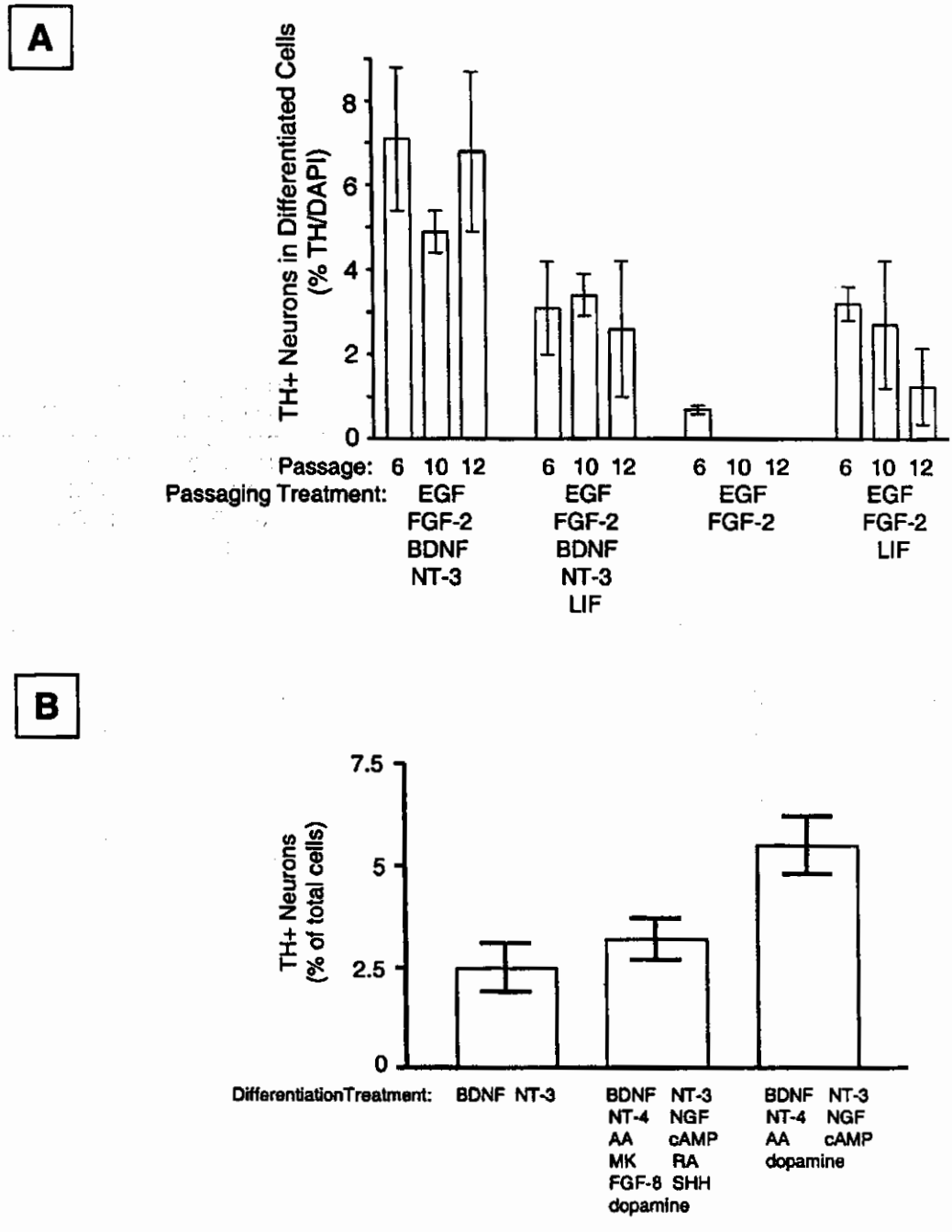

Neurons in Differentiated Cells
(% MAP2/DAPI)
80
60
40
20
0
Passage: 6 10 12 6 10 12 6 10 12 6 10 12
Passaging Treatment:
EGF
FGF-2
BDNF
NT-3
EGF
FGF-2
BDNF
NT-3
LIF
EGF
FGF-2
EGF
FGF-2
LIF

Figure 4


A
TH+ Neurons in Differentiated Cells (% TH/DAPI)
0
2
4
6
8
Passage: 6 10 12 6 10 12 6 10 12 6 10 12
Passaging Treatment:
EGF FGF-2 BDNF NT-3
EGF FGF-2 BDNF NT-3 LIF
EGF FGF-2
EGF FGF-2 LIF
B
TH+ Neurons (% of total cells)
0
2.5
5
7.5
DifferentiationTreatment:
BDNF NT-3
BDNF NT-3 NT-4 NGF AA cAMP MK RA FGF-8 SHH dopamine
BDNF NT-3 NT-4 NGF AA cAMP dopamine