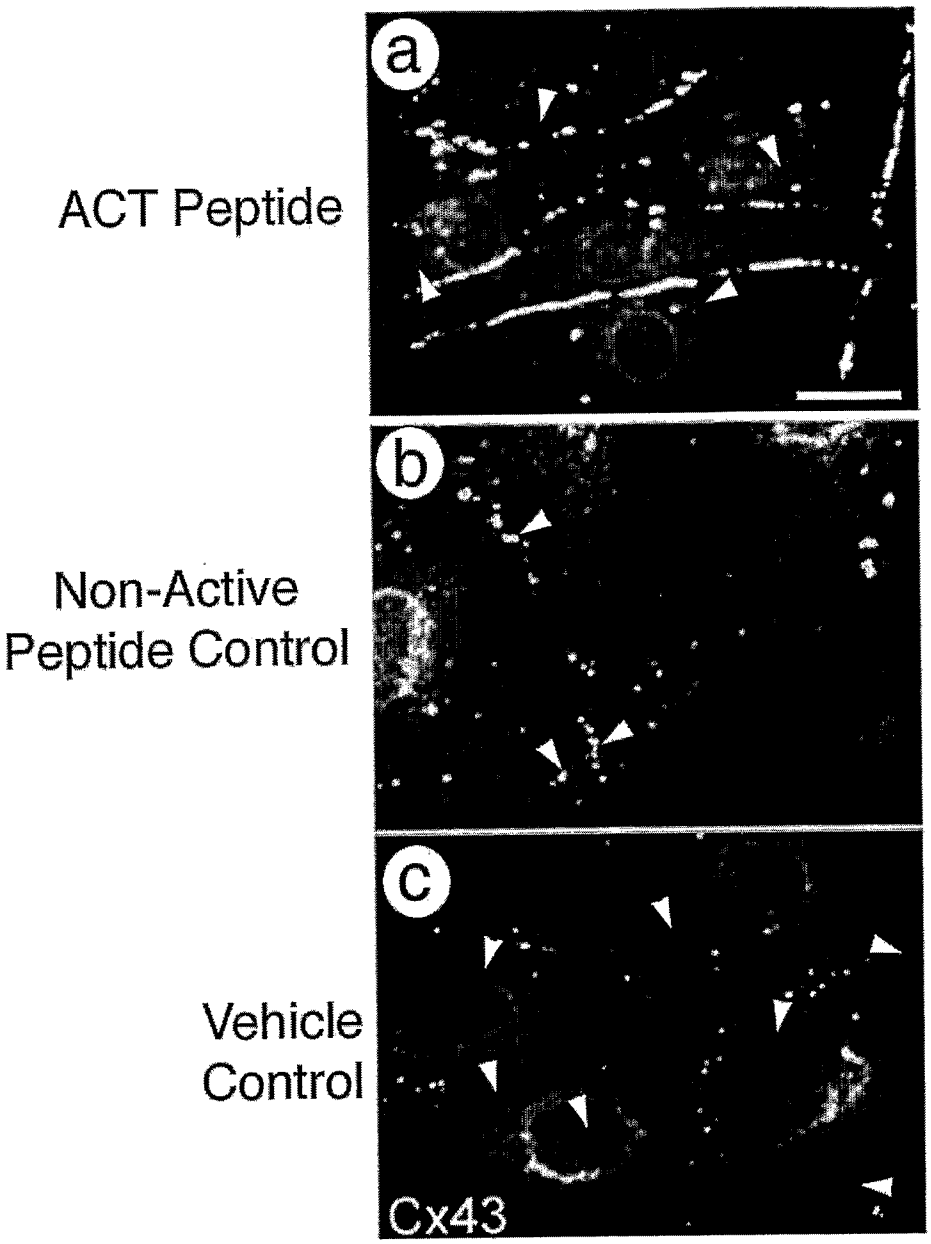

a
ACT Peptide
b
Non-Active
Peptide Control
c
Vehicle
Control
Cx43

Fig. 1

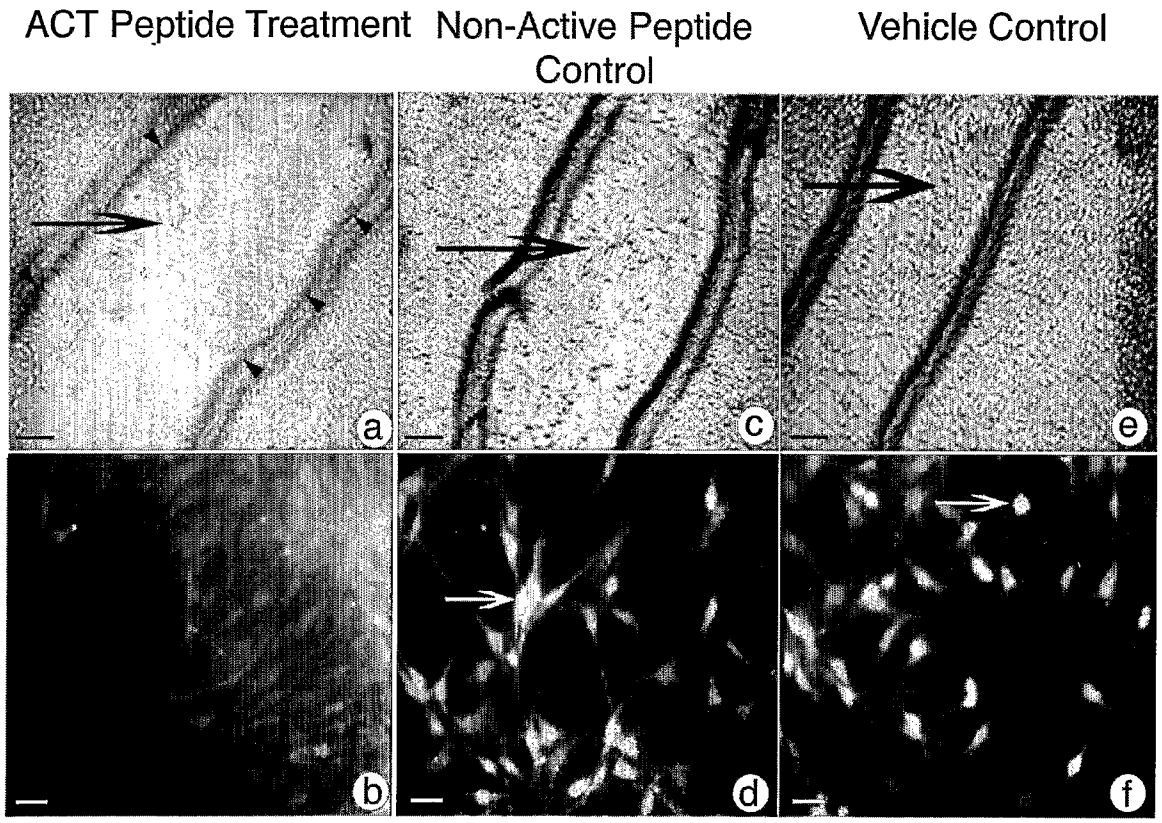

ACT Peptide Treatment
Non-Active Peptide Control
Vehicle Control
a
b
c
d
e
f
Scale bars (a,c,e) = 0.25 mm
Scale bars (b,d,f) = 0.0625mm

Fig. 2

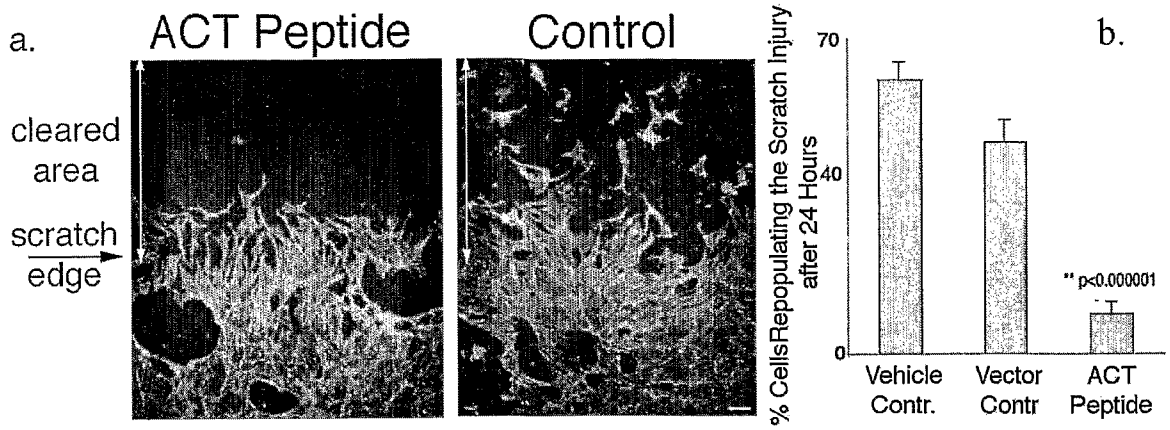

a.
ACT Peptide
Control
cleared area
scratch edge
b.
% CellsRepopulating the Scratch Injury after 24 Hours
70
40
0
** p<0.000001
Vehicle Contr.
Vector Contr
ACT Peptide

Fig. 3

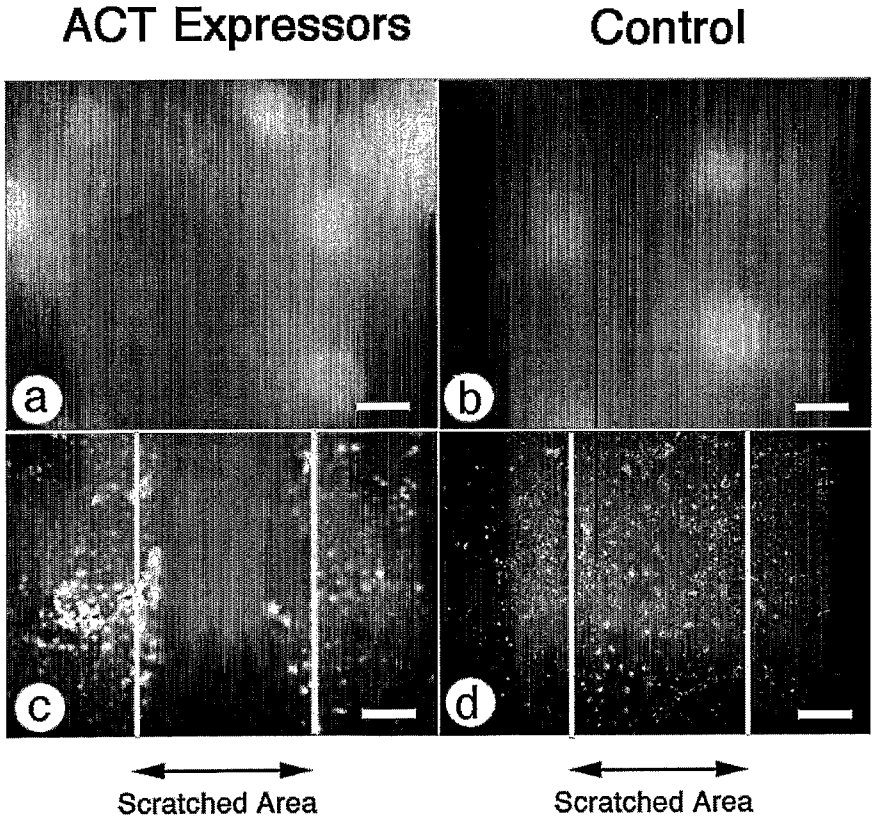

ACT Expressors
Control
a
b
c
d
Scratched Area
Scratched Area
Scale bars (a,b,c,d) = 10 microns
Scale bars (e,f) = 62.5 microns

Fig. 4

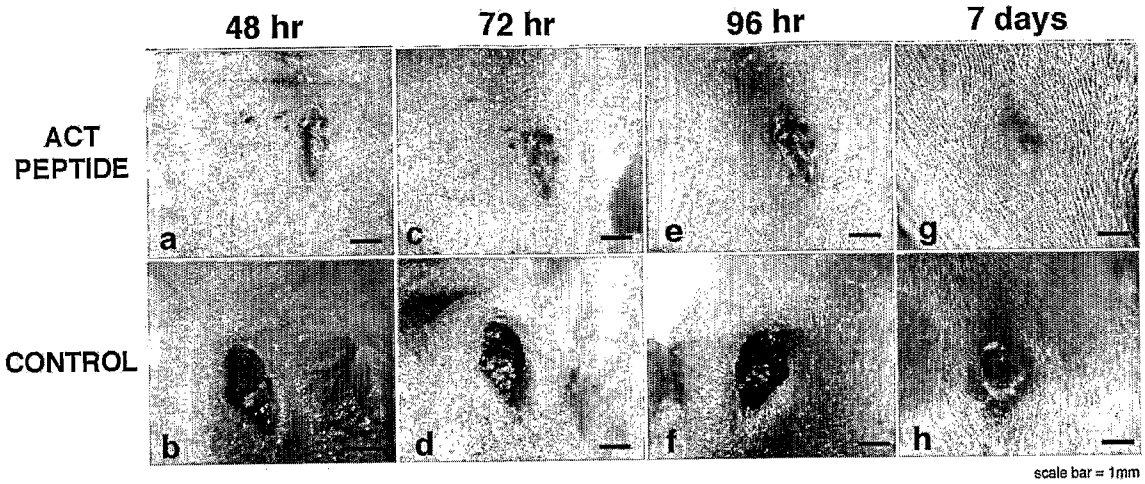

48 hr
72 hr
96 hr
7 days
ACT PEPTIDE
CONTROL
a
b
c
d
e
f
g
h
scale bar = 1mm

Fig. 5

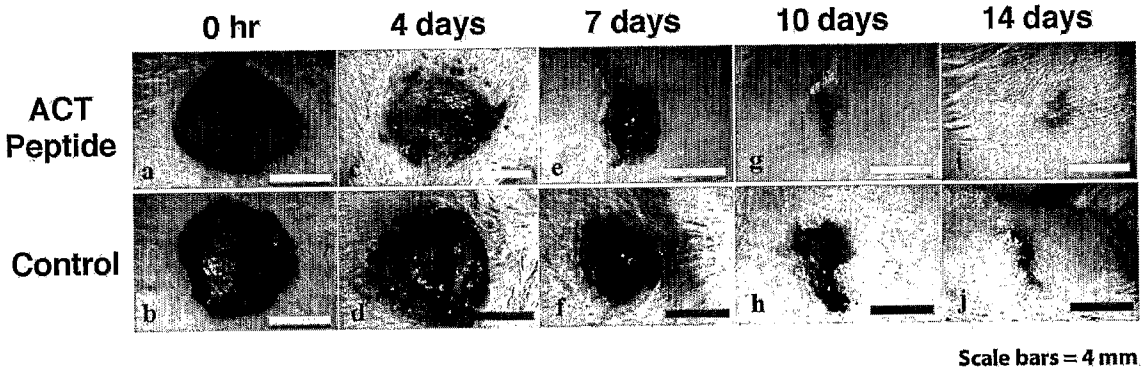

0 hr
4 days
7 days
10 days
14 days
ACT Peptide
Control
a
b
c
d
e
f
g
h
i
j
Scale bars = 4 mm

Fig. 6

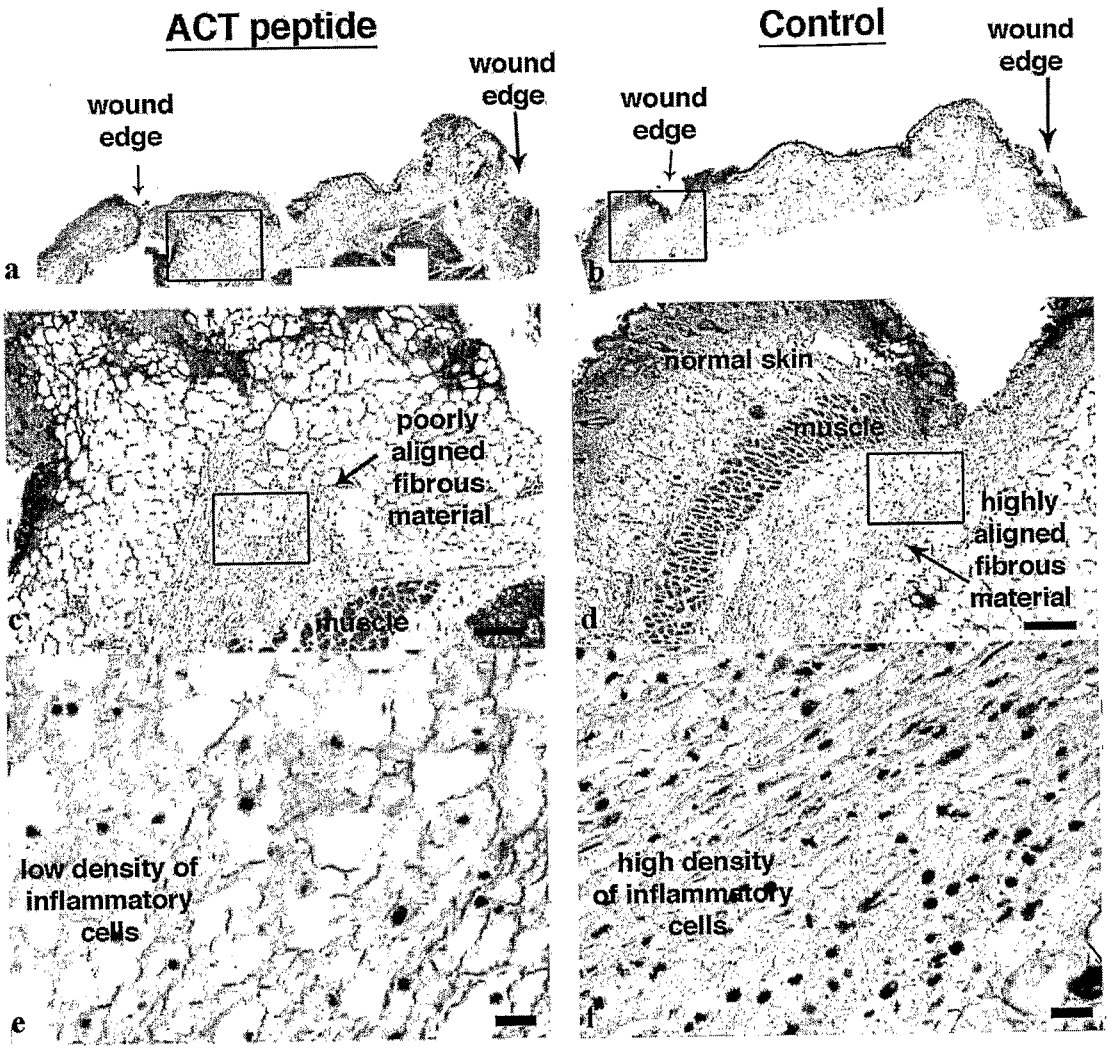

ACT peptide
wound edge
wound edge
a
Control
wound edge
wound edge
b
poorly aligned fibrous material
muscle
c
normal skin
muscle
highly aligned fibrous material
d
low density of inflammatory cells
e
high density of inflammatory cells
f
Scale bars (c,d) = 0.25 mm
Scale bars (e,f) = 10 microns

Fig. 7

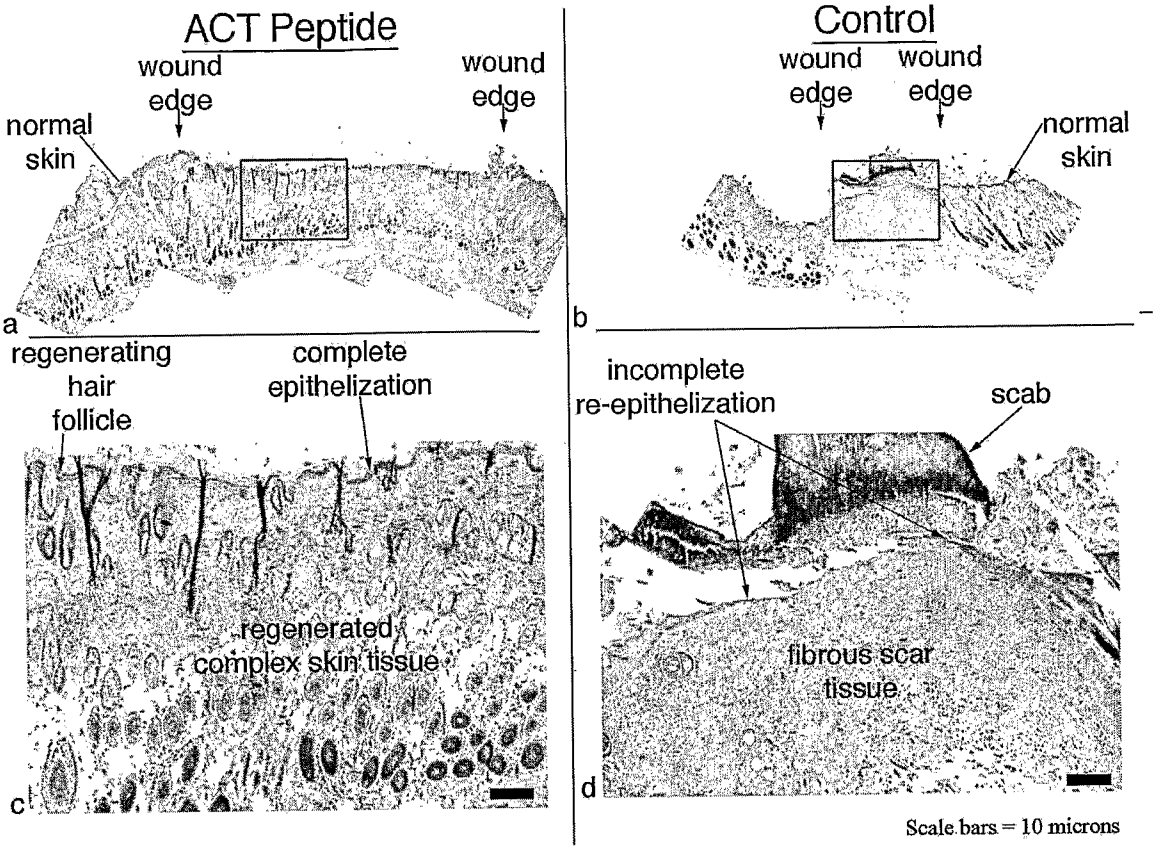

ACT Peptide
wound edge
wound edge
normal skin
a
regenerating hair follicle
complete epithelization
regenerated complex skin tissue
c
Control
wound edge
wound edge
normal skin
b
incomplete re-epithelization
scab
fibrous scar tissue
d
Scale bars = 10 microns

Fig. 8

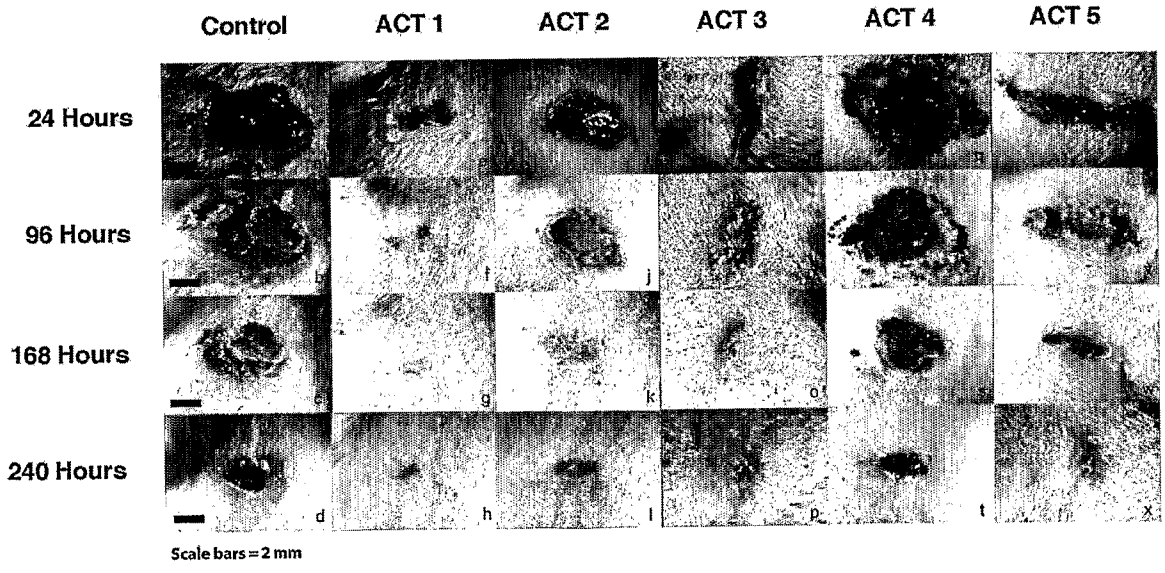
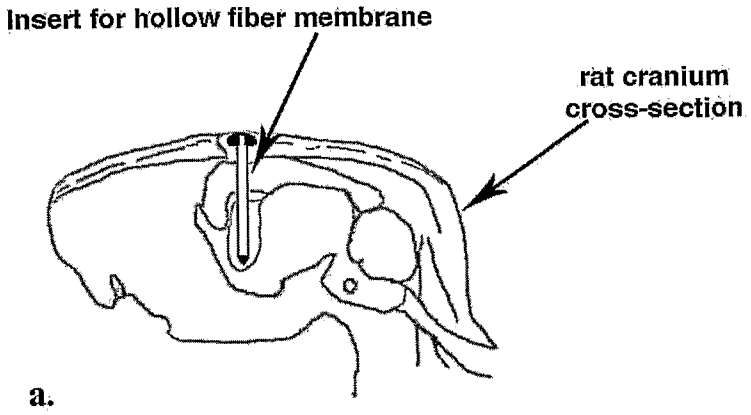
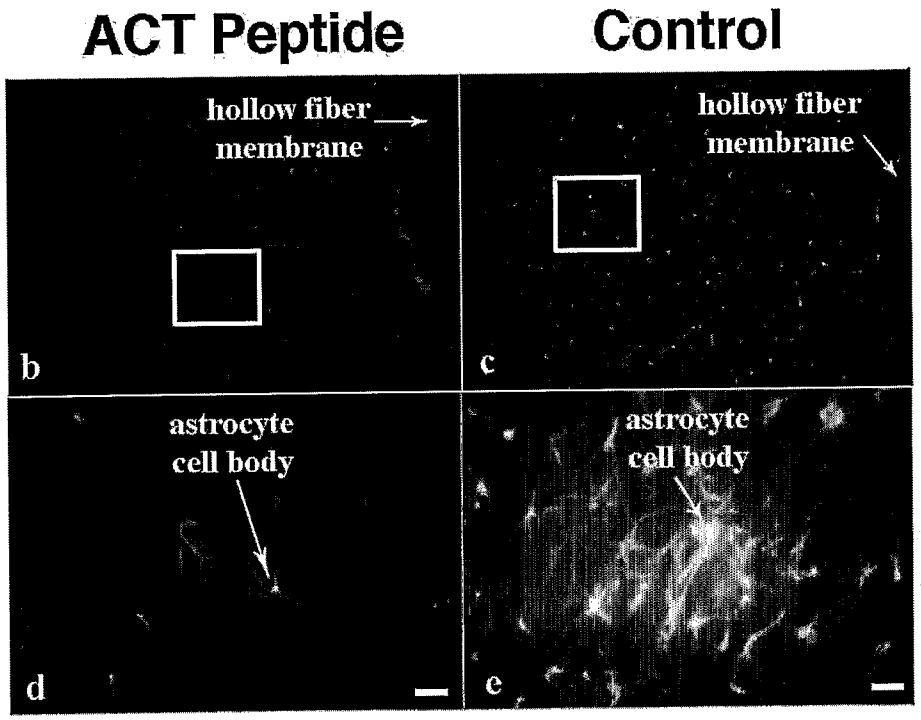

Control
ACT 1
ACT 2
ACT 3
ACT 4
ACT 5
24 Hours
96 Hours
168 Hours
240 Hours
Scale bars = 2 mm

Fig. 9





Green = GFAP astrocyte marker, red = nuclei
Scale bars = 10 microns

Fig. 10

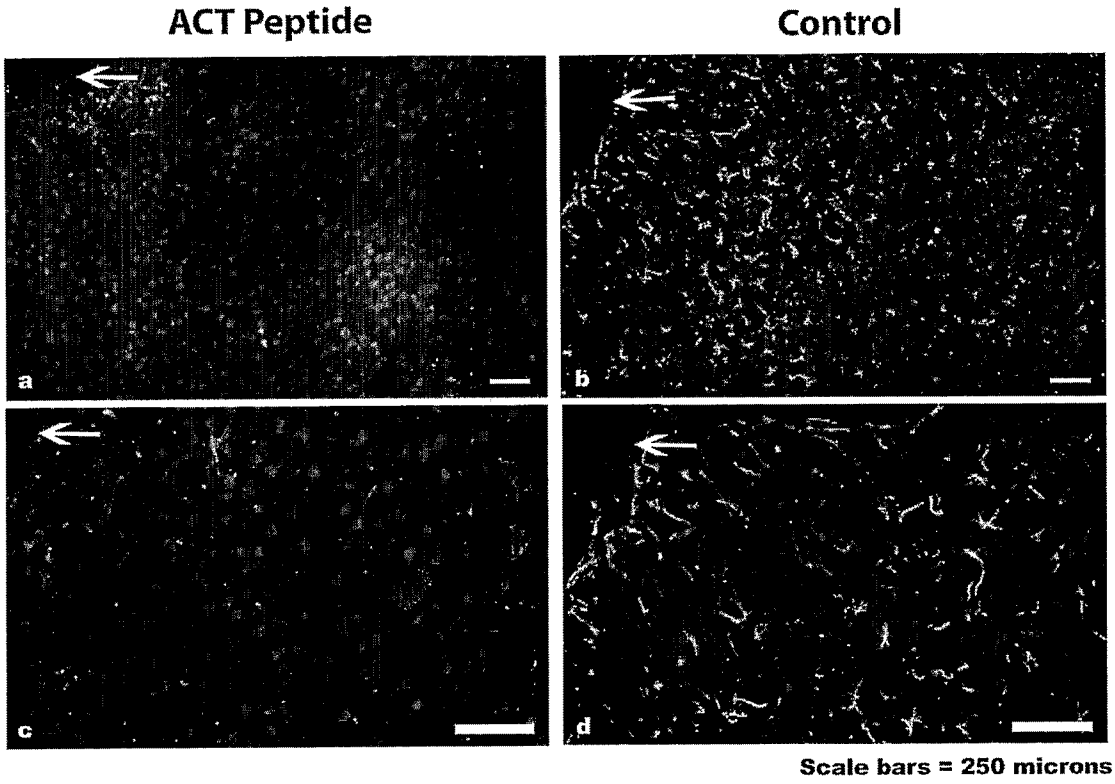


Fig. 11