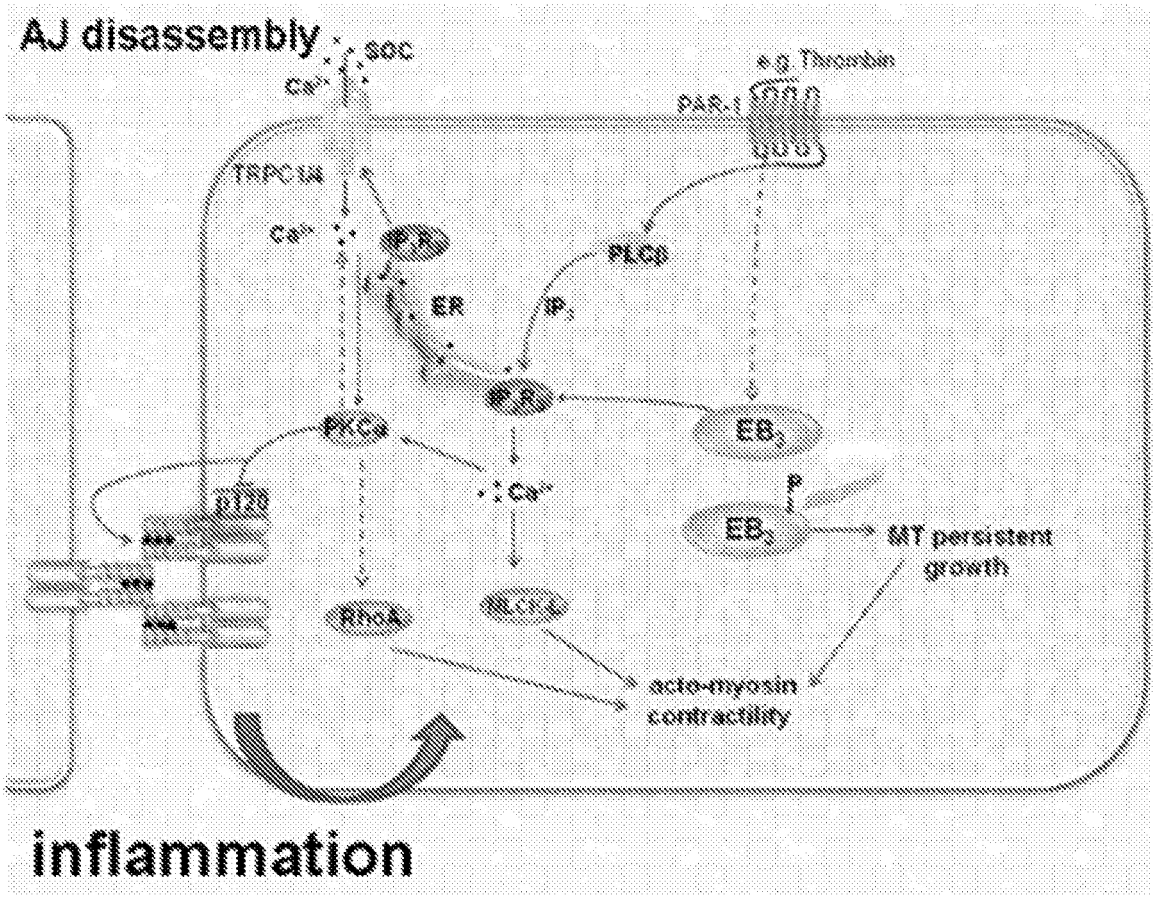

AJ disassembly
SOC
e.g. Thrombin
PAR-1
TRPC1/4
ER
PLCβ
PKCα
p120
RhoA
EB1
EB3
MT persistent growth
acto-myosin contractility
inflammation

FIGURE 1

IP_3R_1 isoform1	VTPVKYARLWSEIPSEIAIDD
IP_3R_1 isoform2	VTPVKYARLWSEIPSEIAIDD
IP_3R_2	VVPVRYARLWTEIPTKITIHE
IP_3R_3	VTPVKFARLWTEIPTAITIKD
EB binding	--------S/TxIP-------
SEQ ID NO: 1 IP_3R_3 peptide	KFARLWTEIPTAIT

FIGURE 2

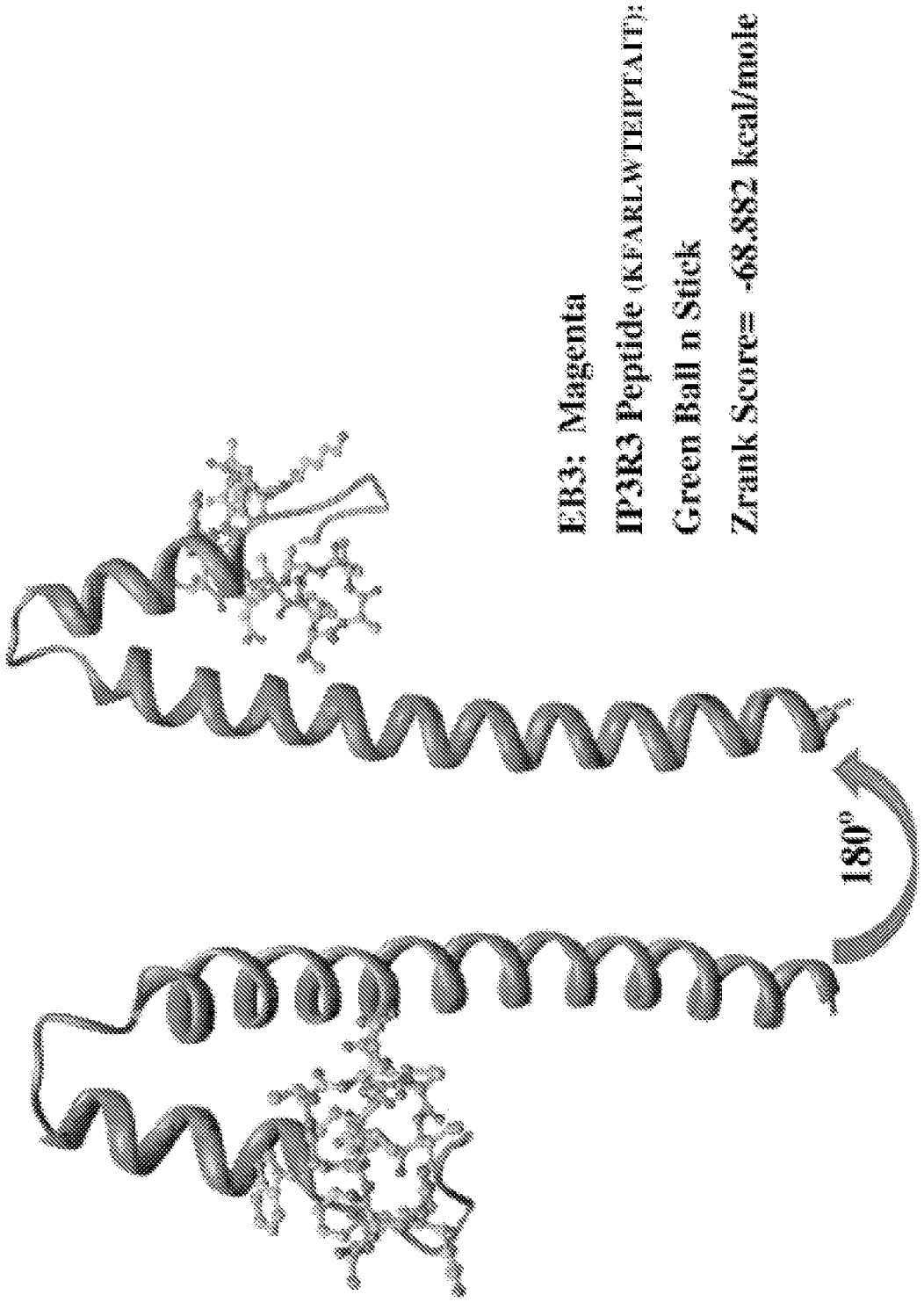

EB3: Magenta
IP3R3 Peptide (KFARLWTEIPTAIT):
Green Ball n Stick
Zrank Score= -68.882 kcal/mole
180°

FIGURE 3

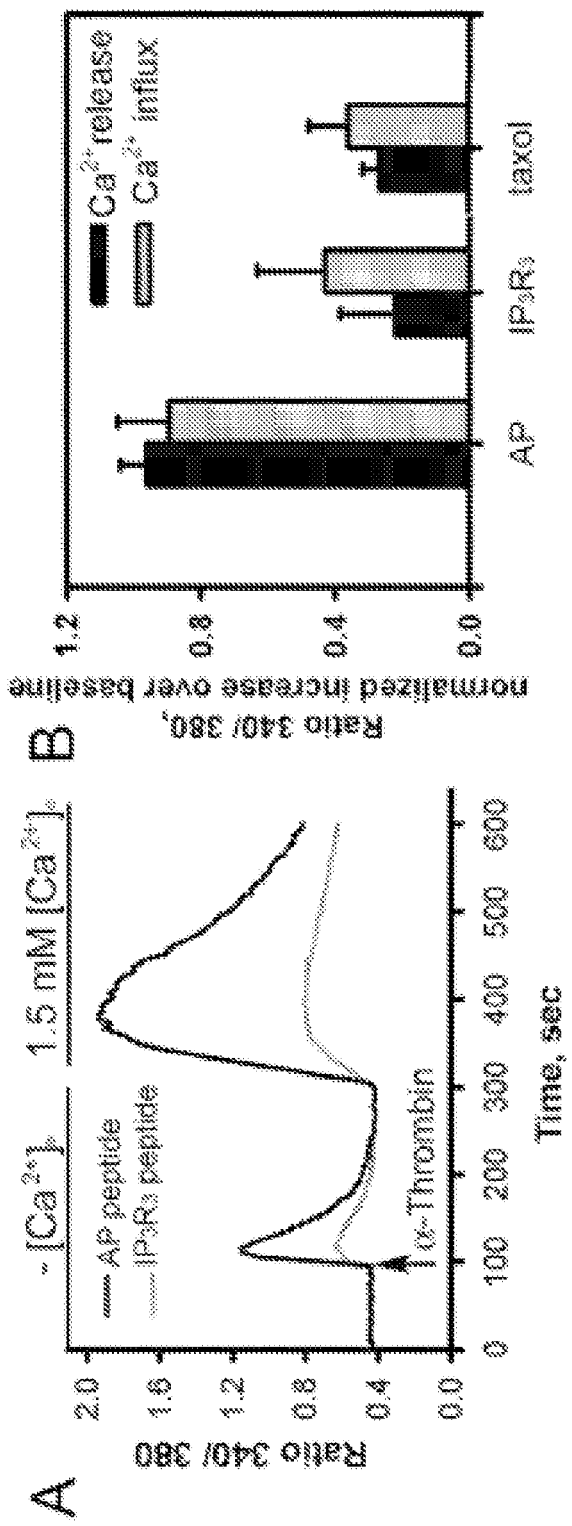

A
Ratio 340/ 380
2.0
1.6
1.2
0.8
0.4
0.0
- [Ca2+]o
1.5 mM [Ca2+]o
AP peptide
IP3R3 peptide
α-Thrombin
0
100
200
300
400
500
600
Time, sec
B
Ratio 340/ 380, normalized increase over baseline
1.2
0.8
0.4
0.0
Ca2+ release
Ca2+ influx
AP
IP3R3
taxol

FIGURE 4

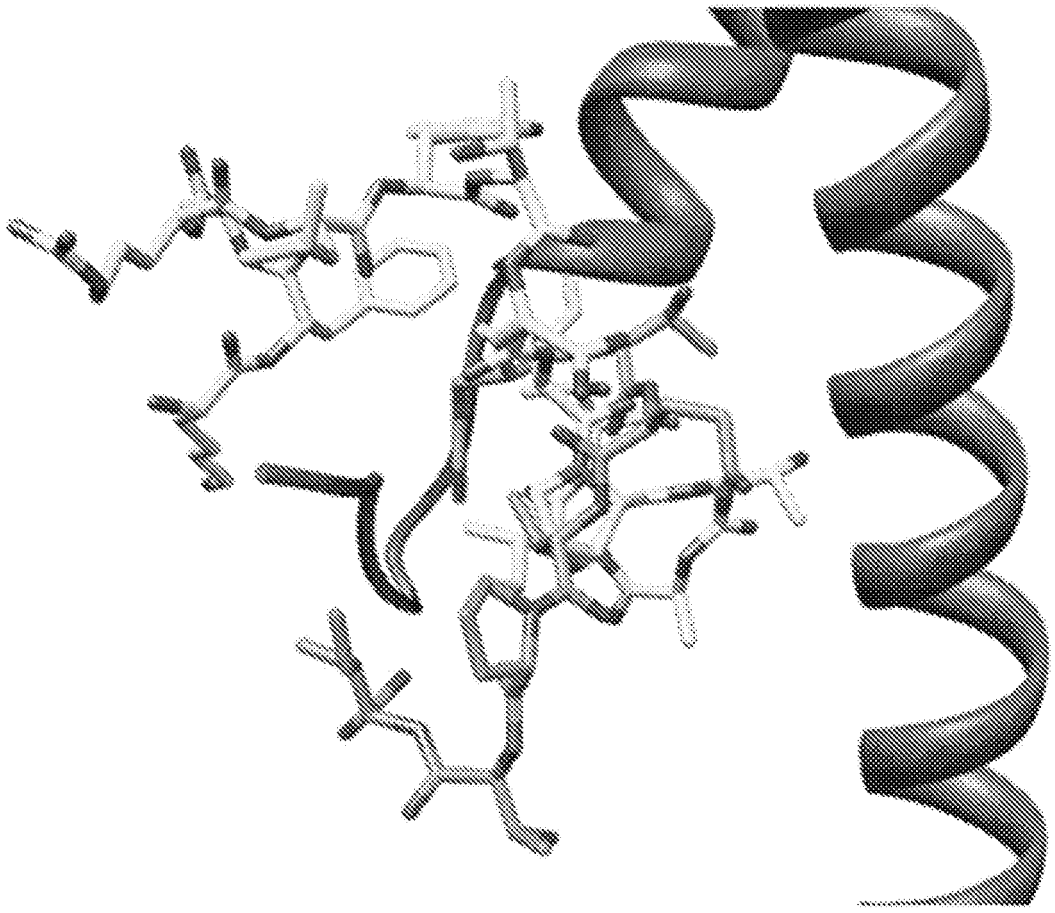


FIGURE 5

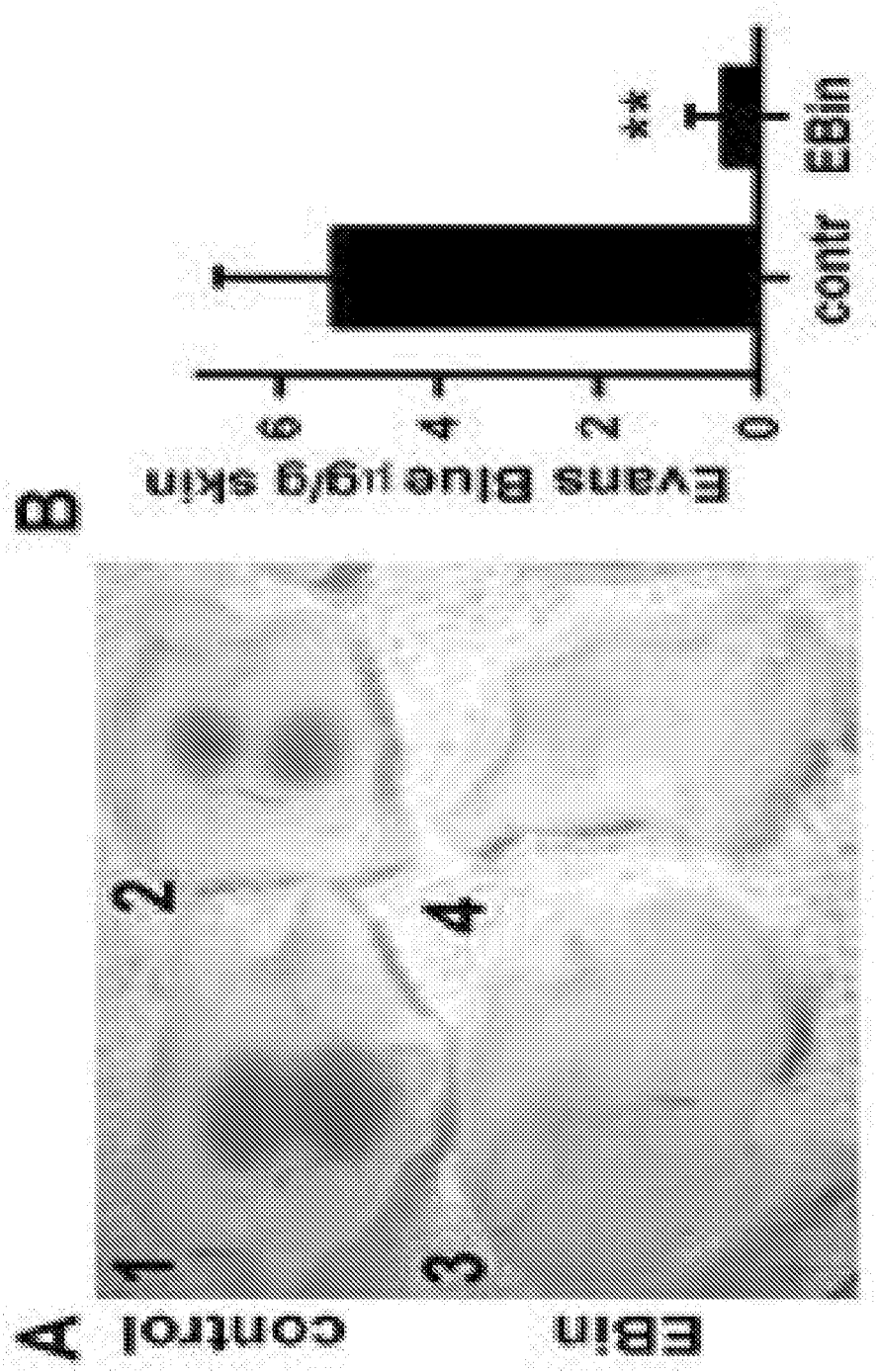


FIGURE 6

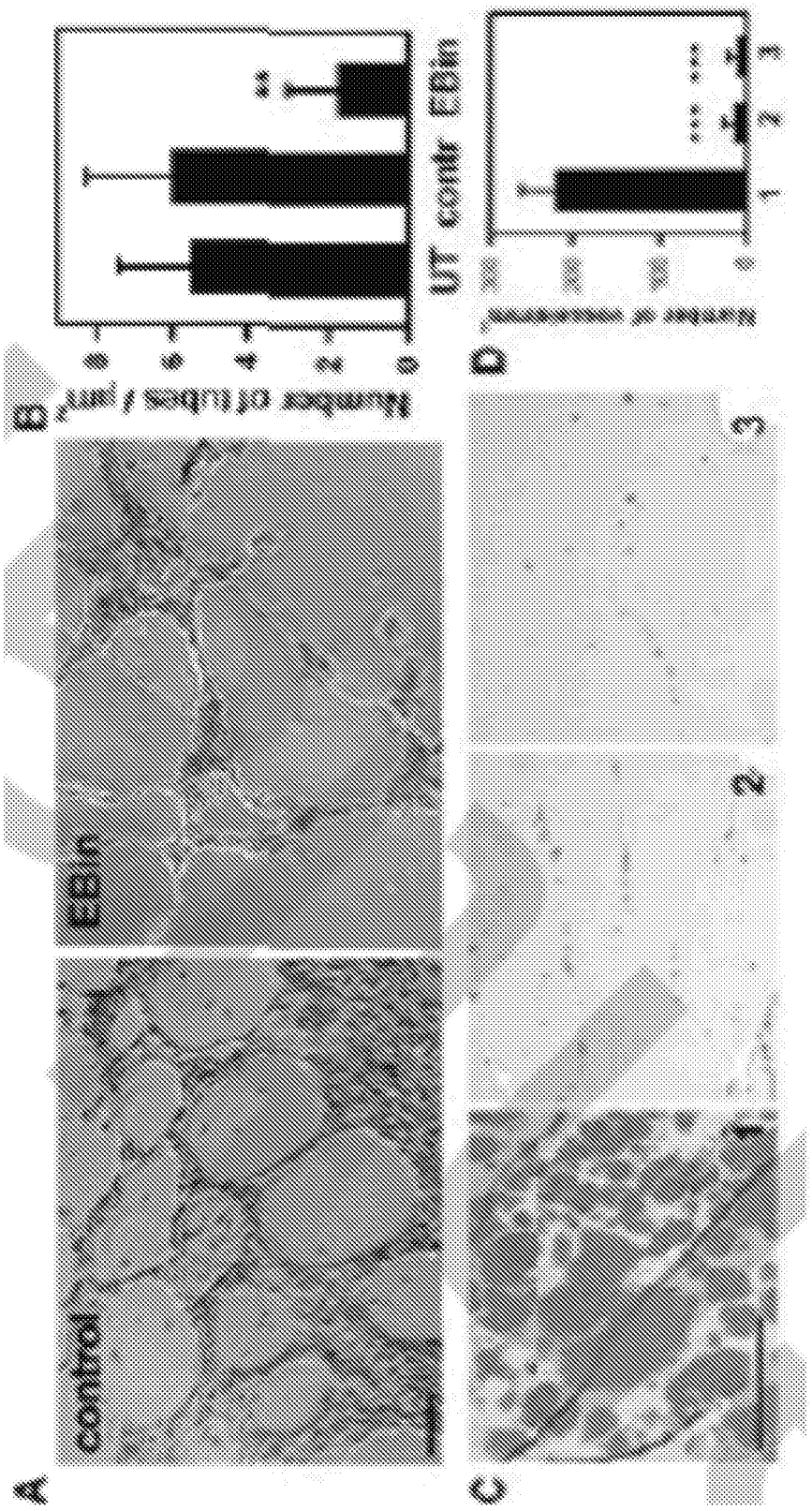


FIGURE 7

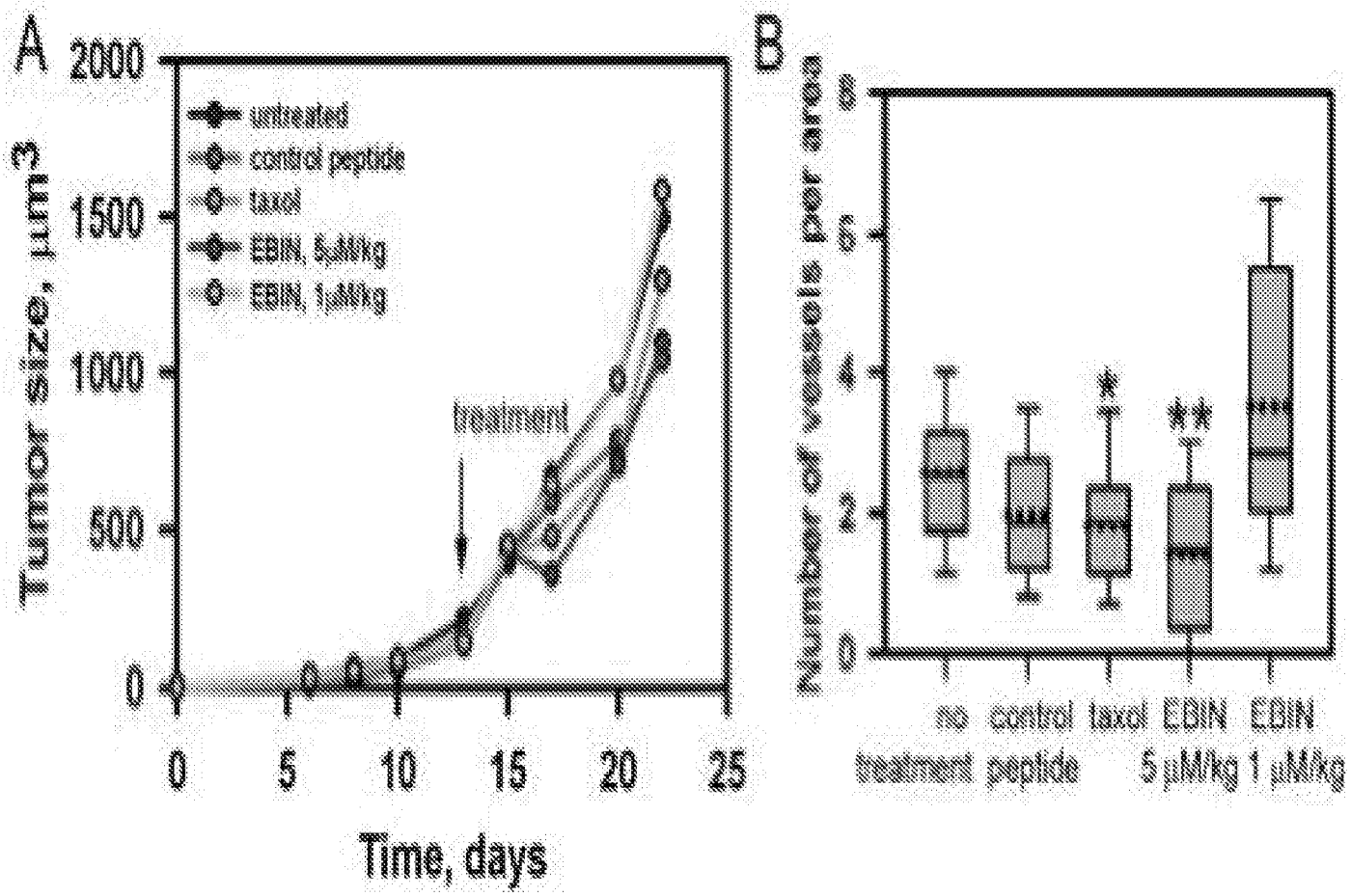

A
Tumor size, μm3
2000
1500
1000
500
0
untreated
control peptide
taxol
EBIN, 5μM/kg
EBIN, 1μM/kg
treatment
0
5
10
15
20
25
Time, days
B
Number of vessels per area
8
6
4
2
0
*
**
***
no treatment
control peptide
taxol 5 μM/kg
EBIN 5 μM/kg
EBIN 1 μM/kg

FIGURE 8

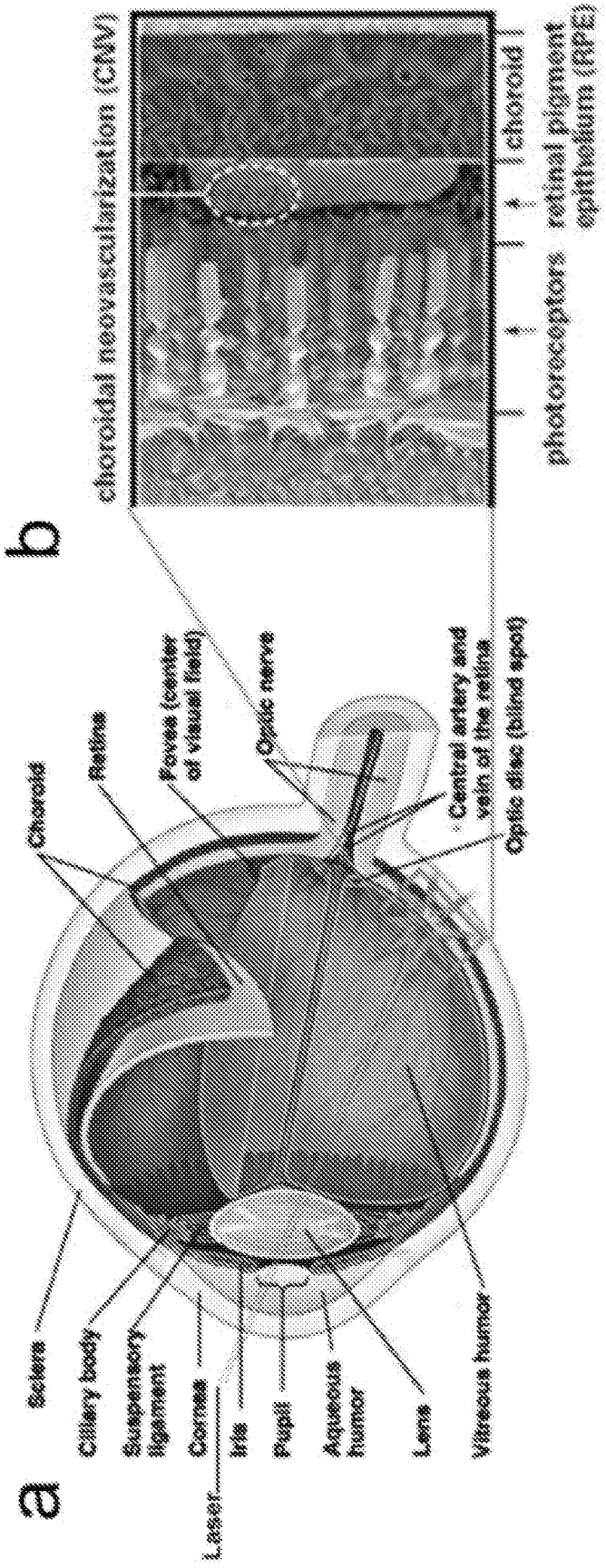

a
Sclera
Ciliary body
Suspensory ligament
Cornea
Laser
Iris
Pupil
Aqueous humor
Lens
Vitreous humor
Choroid
Retina
Fovea (center of visual field)
Optic nerve
Central artery and vein of the retina
Optic disc (blind spot)
b
choroidal neovascularization (CNV)
choroid
retinal pigment epithelium (RPE)
photoreceptors

FIGURE 9

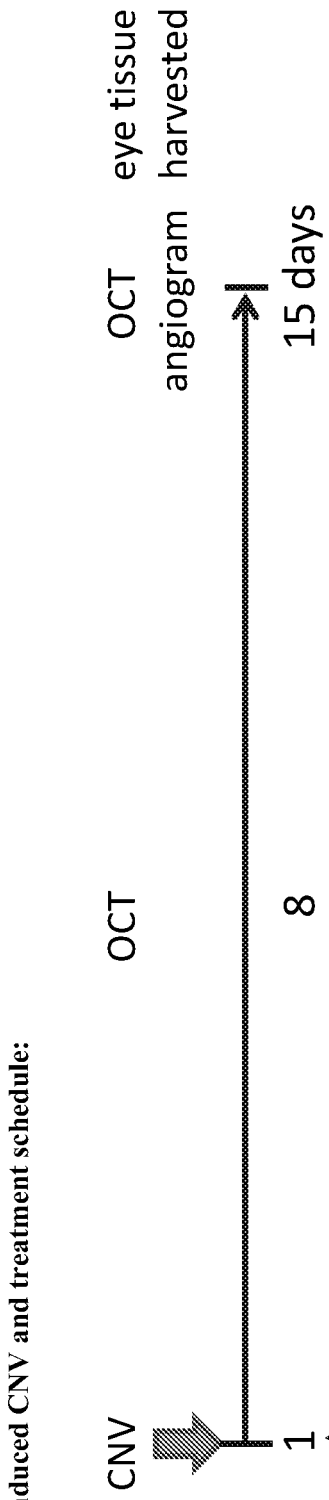

Laser-induced CNV and treatment schedule:
CNV
OCT
8
OCT
angiogram
eye tissue
harvested
15 days
1
Intravitreal
Injection

FIGURE 10

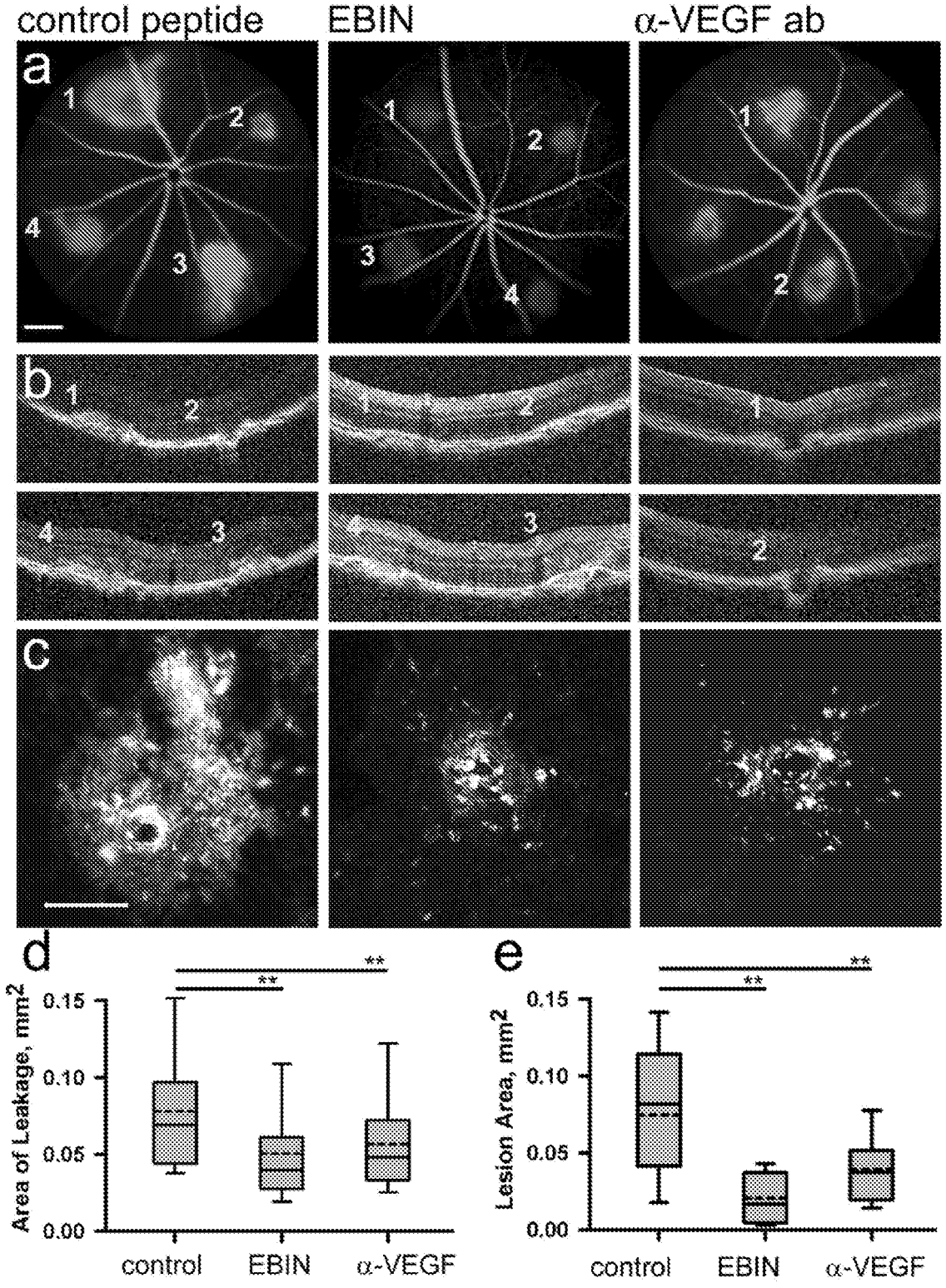

control peptide
EBIN
α-VEGF ab
a
b
c
d
e
Area of Leakage, mm2
Lesion Area, mm2
0.15
0.10
0.05
0.00
**
control
EBIN
α-VEGF

FIGURE 11

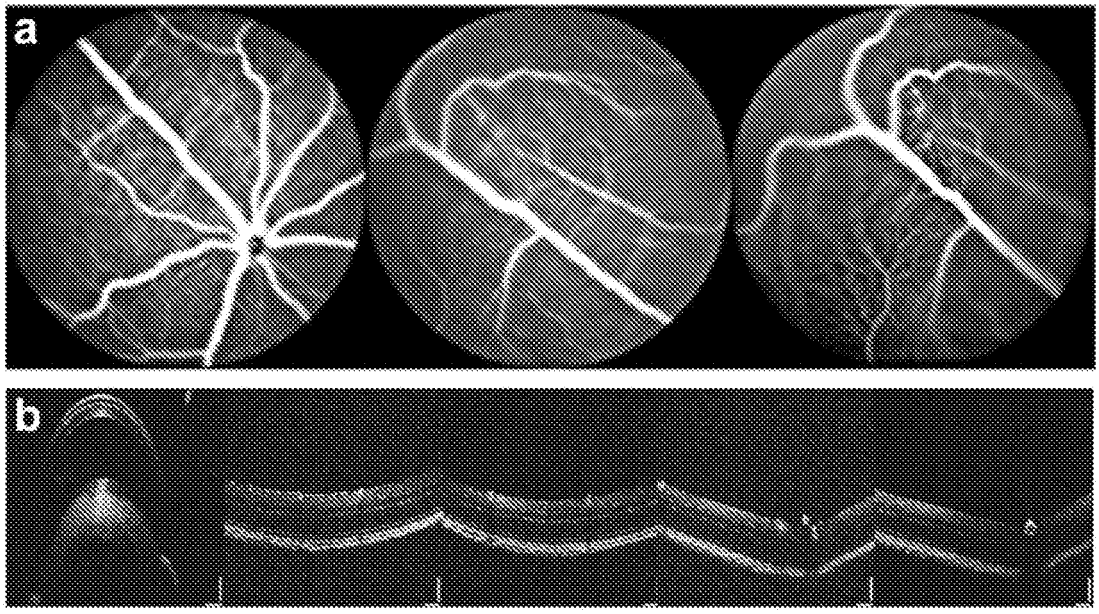


FIGURE 12