FIG. 1

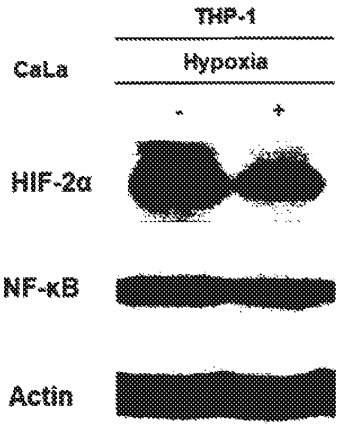

THP-1
CaLa
Hypoxia
-
+
HIF-2α
NF-κB
Actin

FIG. 2

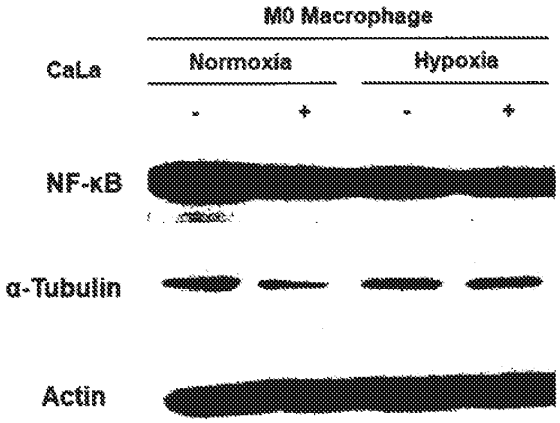

M0 Macrophage
CaLa
Normoxia
Hypoxia
-
+
-
+
NF-κB
α-Tubulin
Actin

FIG. 3

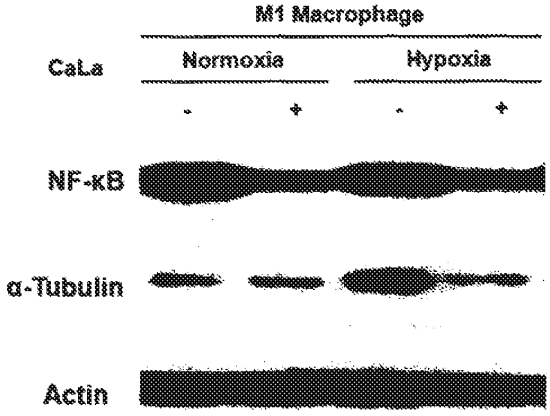

M1 Macrophage
CaLa
Normoxia
Hypoxia
-
+
-
+
NF-κB
α-Tubulin
Actin

FIG. 4

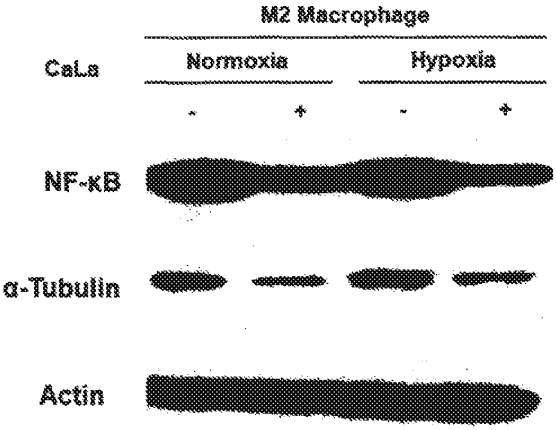

M2 Macrophage
CaLa
Normoxia
Hypoxia
-
+
-
+
NF-κB
α-Tubulin
Actin

FIG. 5

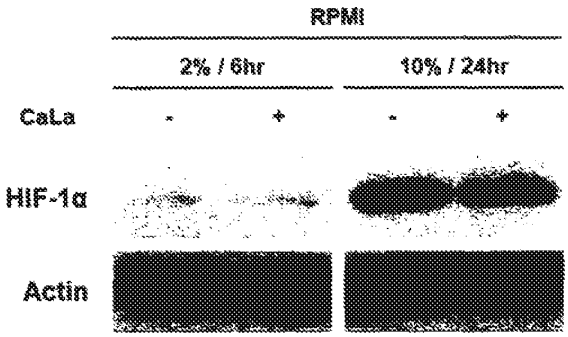

RPMI
2% / 6hr
10% / 24hr
CaLa
-
+
-
+
HIF-1α
Actin

FIG. 6

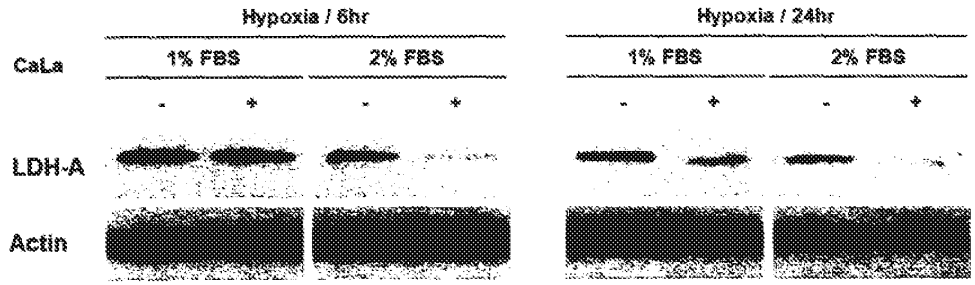

Hypoxia / 6hr
Hypoxia / 24hr
CaLa
1% FBS
2% FBS
1% FBS
2% FBS
-
+
-
+
-
+
-
+
LDH-A
Actin

FIG. 7

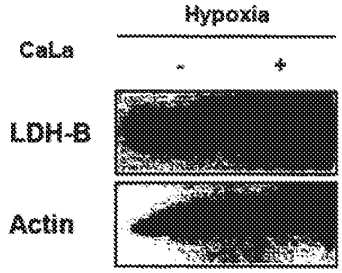

Hypoxia
CaLa
-
+
LDH-B
Actin

FIG. 8

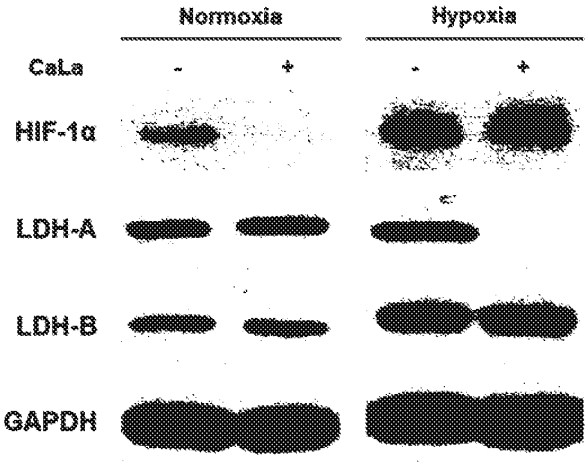

Normoxia
Hypoxia
CaLa
-
+
-
+
HIF-1α
LDH-A
LDH-B
GAPDH

FIG. 9

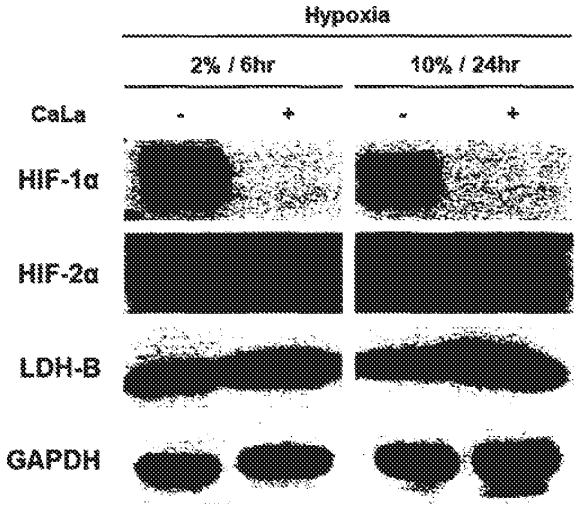

Hypoxia
2% / 6hr
10% / 24hr
CaLa
-
+
-
+
HIF-1α
HIF-2α
LDH-B
GAPDH

FIG. 10

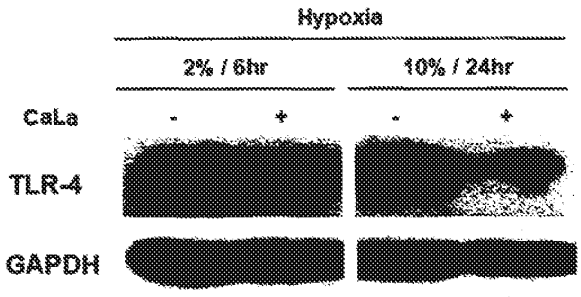

Hypoxia
2% / 6hr
10% / 24hr
CaLa
-
+
-
+
TLR-4
GAPDH

FIG. 11

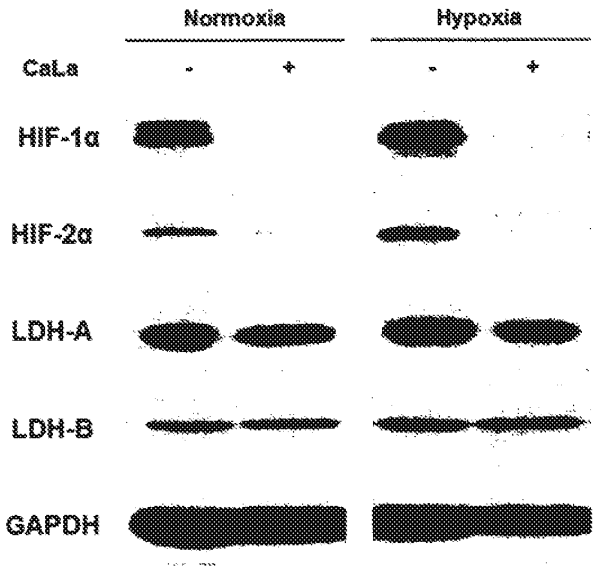

Normoxia
Hypoxia
CaLa
-
+
-
+
HIF-1α
HIF-2α
LDH-A
LDH-B
GAPDH

FIG. 12

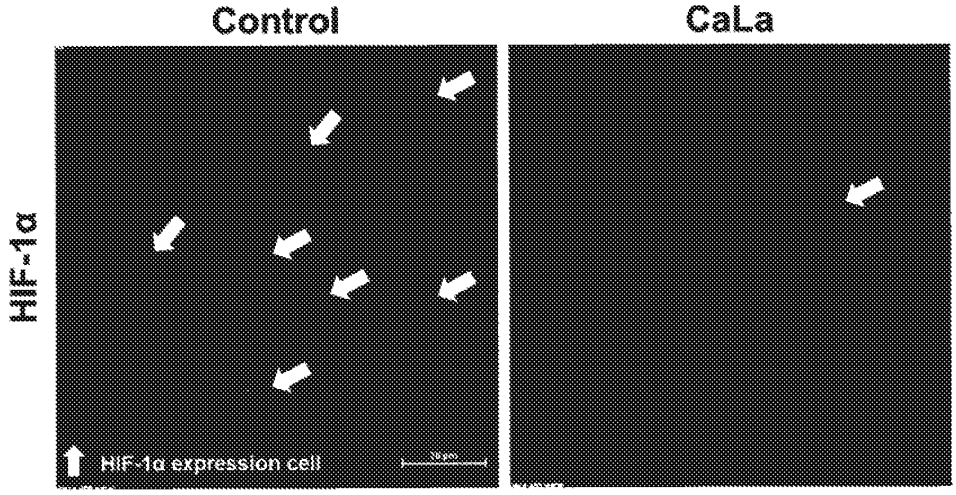

Control
CaLa
HIF-1α
HIF-1α expression cell

FIG. 13

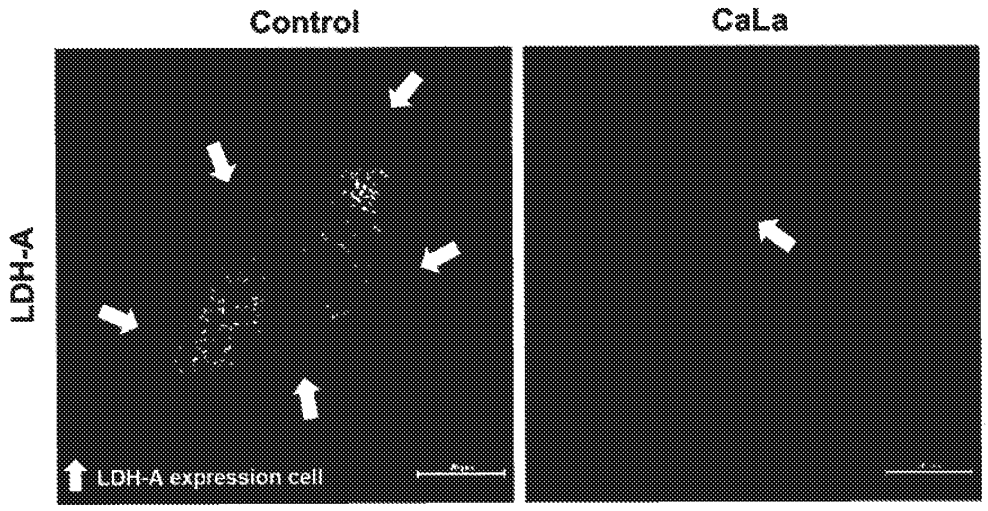

Control
CaLa
LDH-A
LDH-A expression cell

FIG. 14

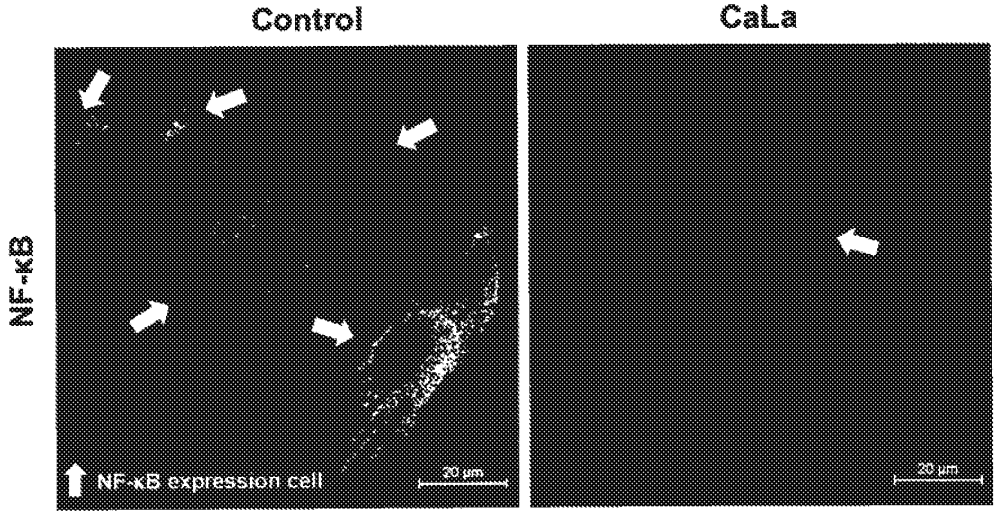

Control
CaLa
NF-κB
NF-κB expression cell
20 μm
20 μm

FIG. 15

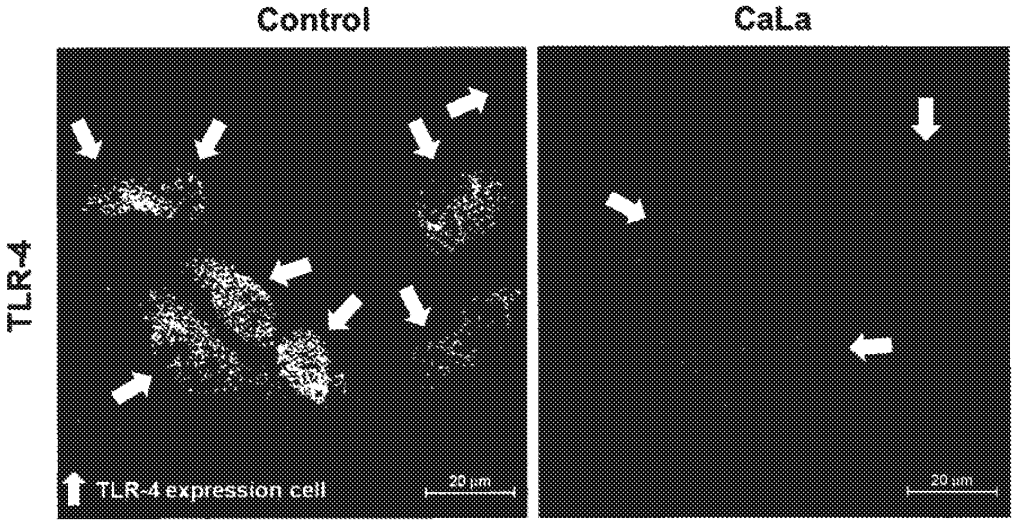

Control
CaLa
TLR-4
TLR-4 expression cell
20 μm
20 μm

FIG. 16

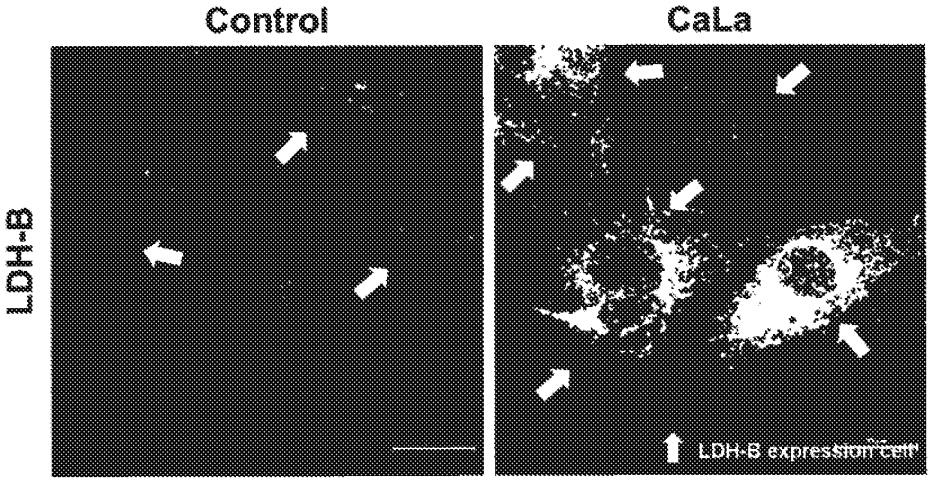

Control
CaLa
LDH-B
LDH-B expression cell

FIG. 17

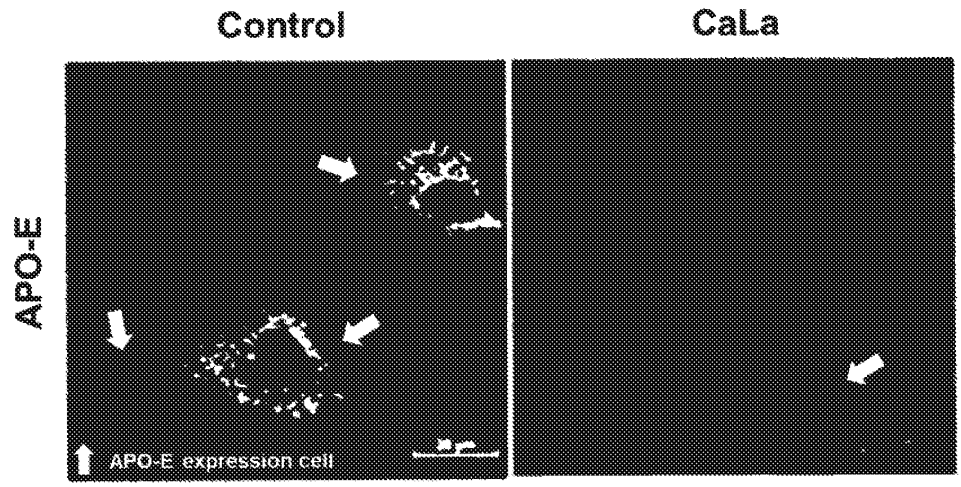

Control
CaLa
APO-E
APO-E expression cell

FIG. 18

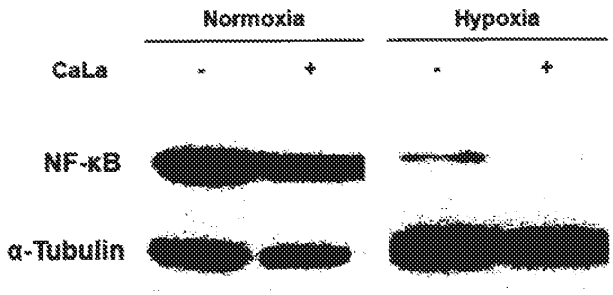

Normoxia
Hypoxia
CaLa
-
+
-
+
NF-κB
α-Tubulin

FIG. 19

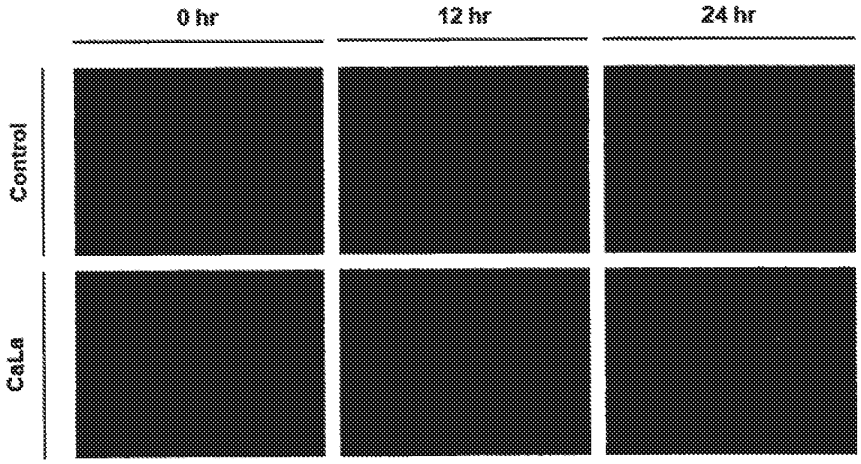

0 hr
12 hr
24 hr
Control
CaLa

FIG. 20

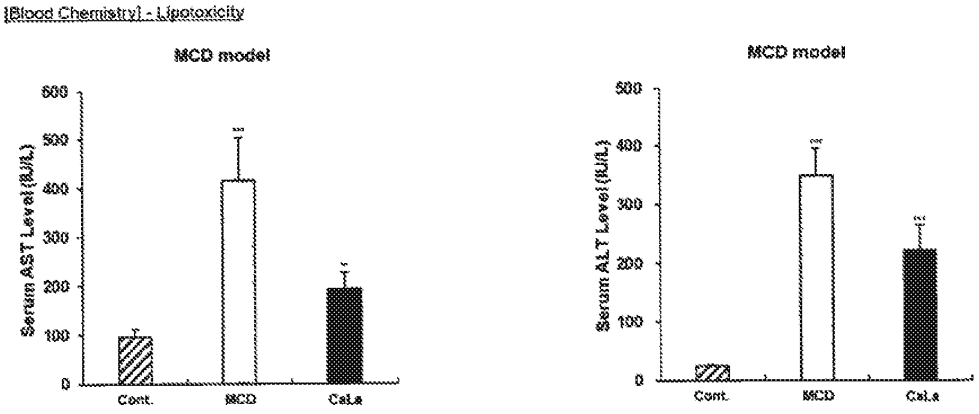

[Blood Chemistry] - Lipotoxicity
MCD model
Serum AST Level (IU/L)
0
100
200
300
400
500
Cont.
MCD
CaLa
MCD model
Serum ALT Level (IU/L)
0
100
200
300
400
500
Cont.
MCD
CaLa

FIG. 21

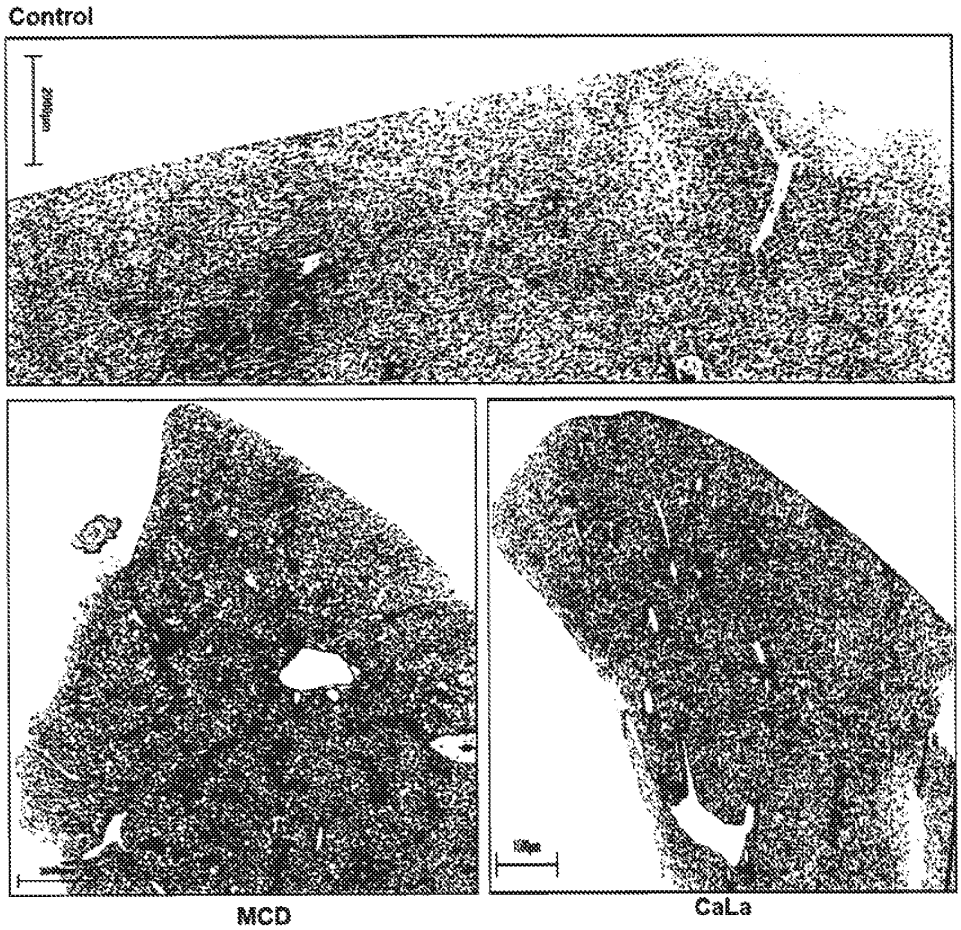


FIG. 22

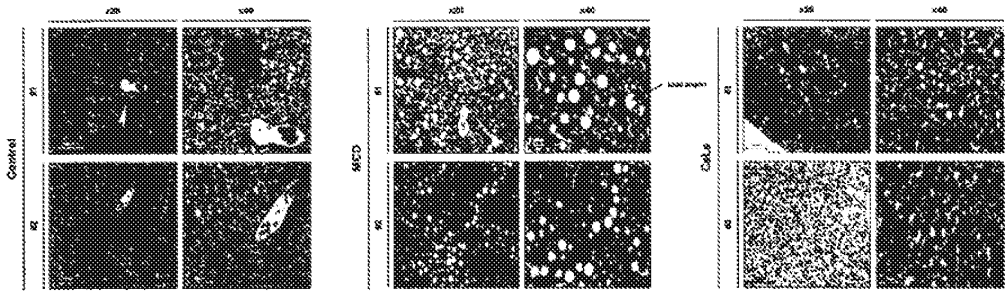


FIG. 23

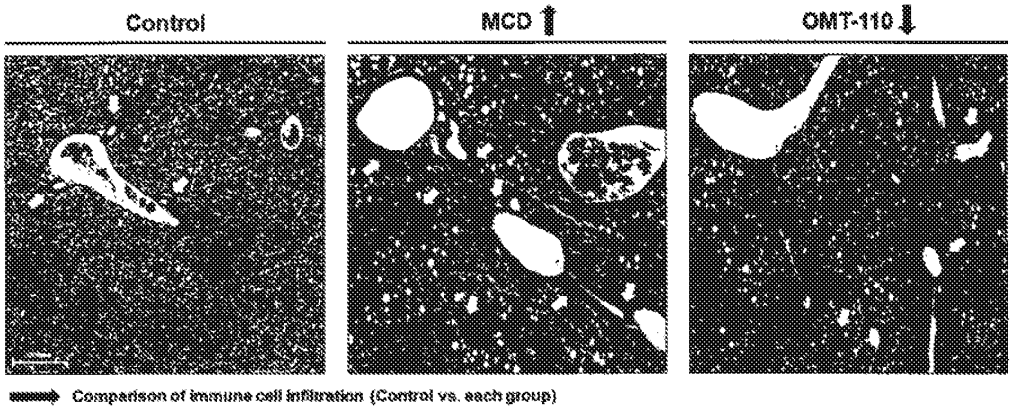

Control
MCD
OMT-110
Comparison of immune cell infiltration (Control vs. each group)

FIG. 24

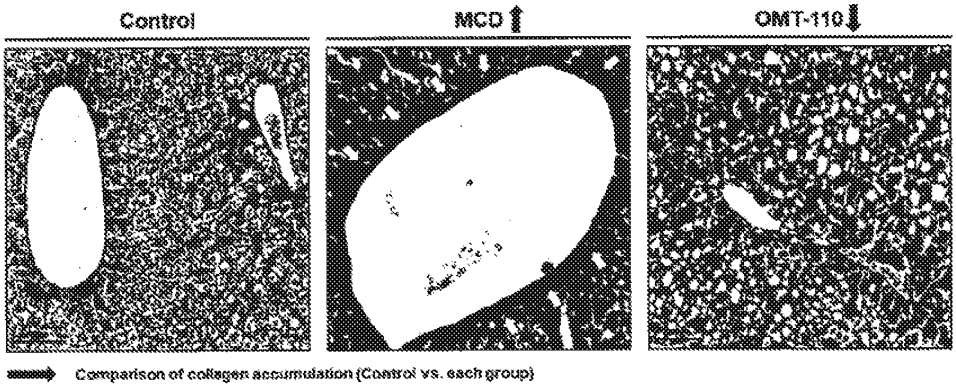


FIG. 25

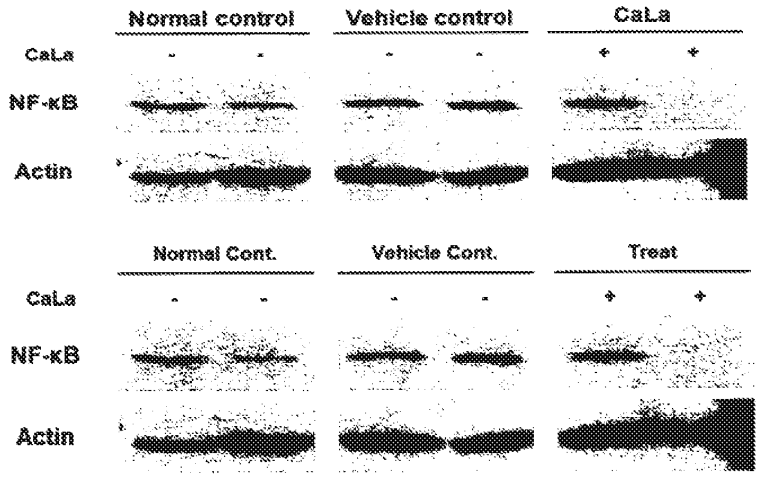


FIG. 26

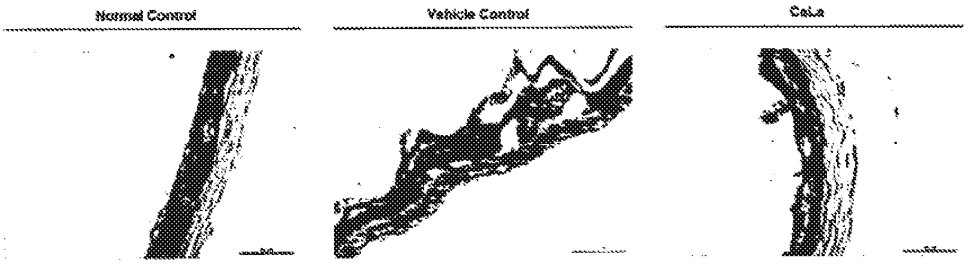


FIG. 27

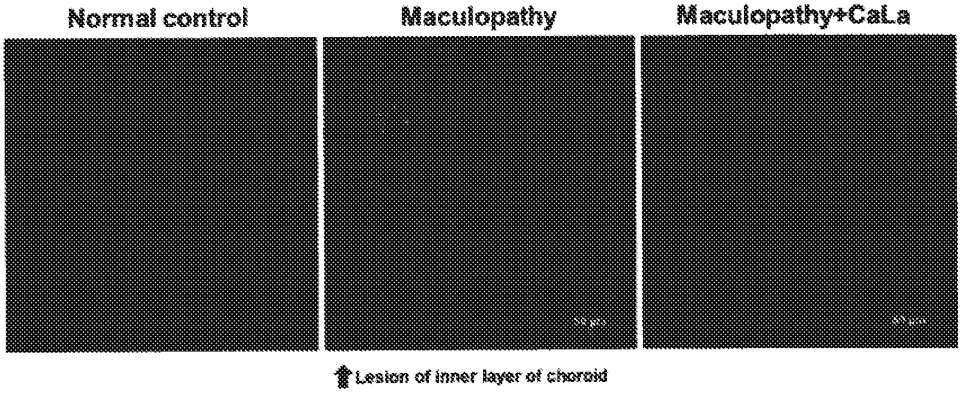

Normal control
Maculopathy
Maculopathy+CaLa
Lesion of inner layer of choroid

FIG. 28

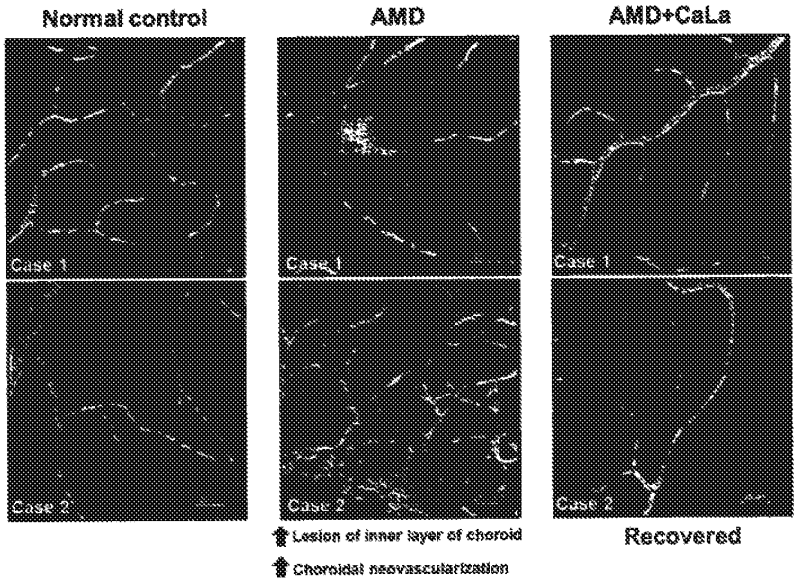

Normal control
AMD
AMD+CaLa
Case 1
Case 1
Case 1
Case 2
Case 2
Case 2
Lesion of inner layer of choroid
Choroidal neovascularization
Recovered

FIG. 29

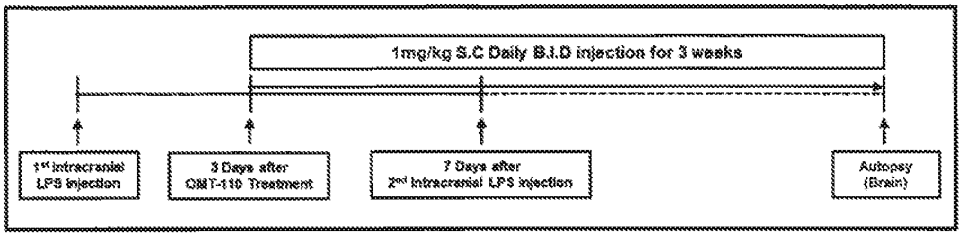

1mg/kg S.C Daily B.I.D injection for 3 weeks
1st intracranial LPS injection
3 Days after CMT-110 Treatment
7 Days after 2nd intracranial LPS injection
Autopsy (Brain)

FIG. 30

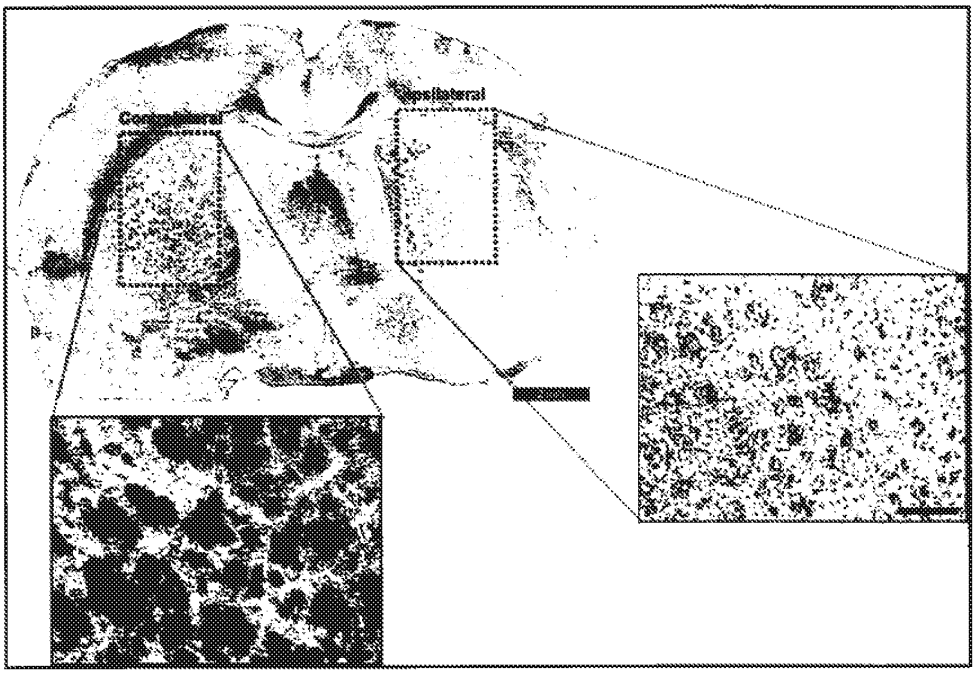

Contralateral
Ipsilateral

FIG. 31

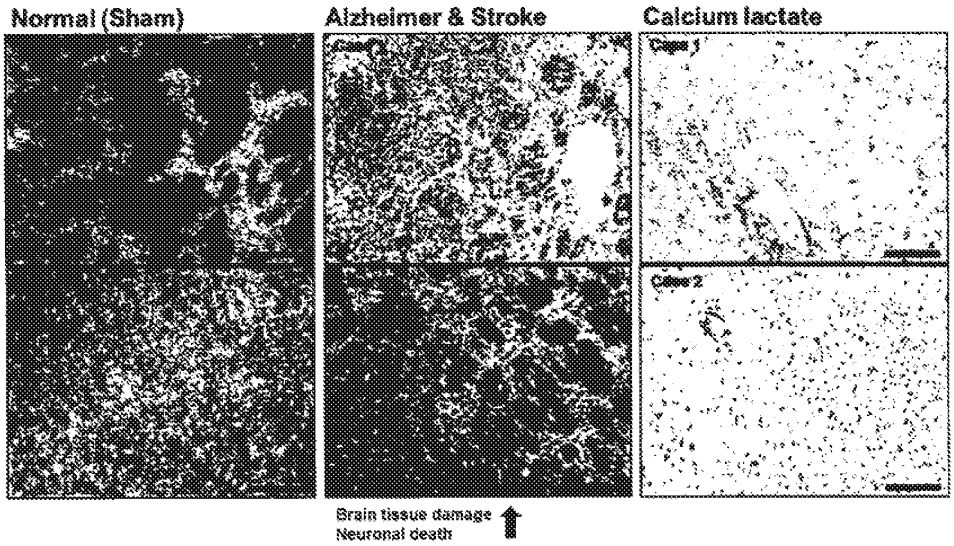

Normal (Sham)
Alzheimer & Stroke
Calcium lactate
Case 1
Case 2
Brain tissue damage
Neuronal death

FIG. 32

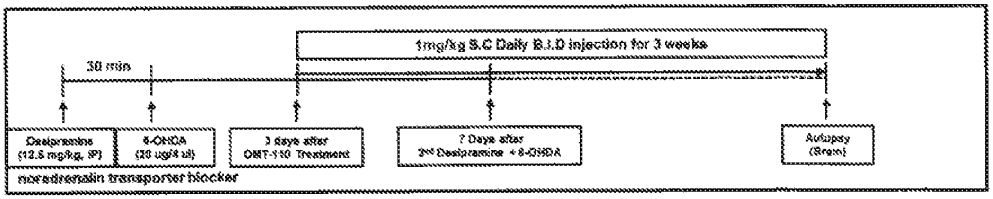

1mg/kg S.C Daily B.I.D injection for 3 weeks
30 min
Desipramine
(12.5 mg/kg, IP)
6-OHDA
(20 ug/4 ul)
3 days after
OMT-110 Treatment
7 Days after
2nd Desipramine + 6-OHDA
Autopsy
(Brain)
noradrenalin transporter blocker

FIG. 33

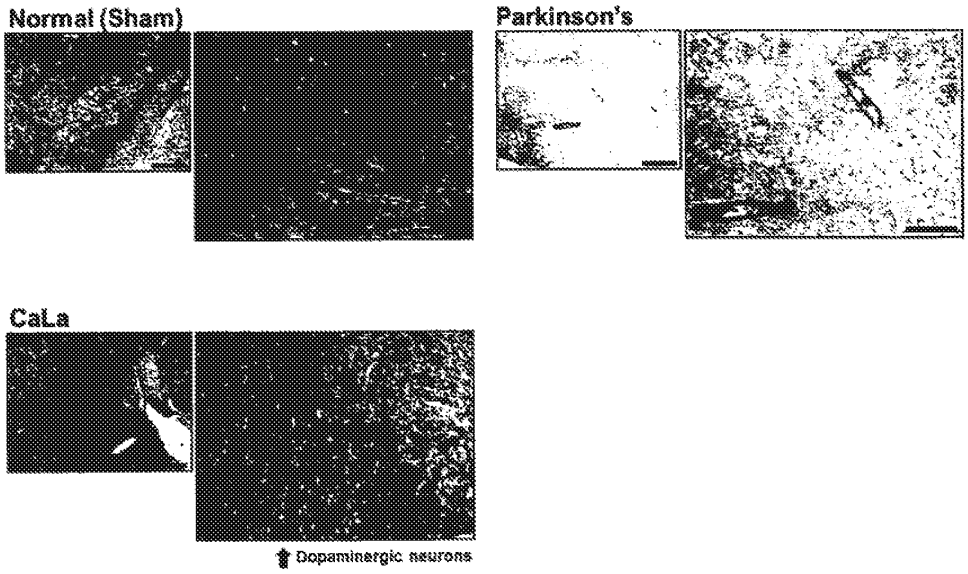

Normal (Sham)
Parkinson's
CaLa
Dopaminergic neurons

FIG. 34

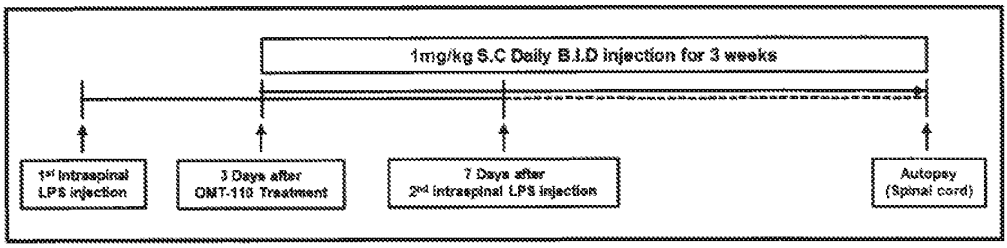

1mg/kg S.C Daily B.I.D injection for 3 weeks
1st Intraspinal LPS injection
3 Days after ONT-110 Treatment
7 Days after 2nd intraspinal LPS injection
Autopsy (Spinal cord)

FIG. 35

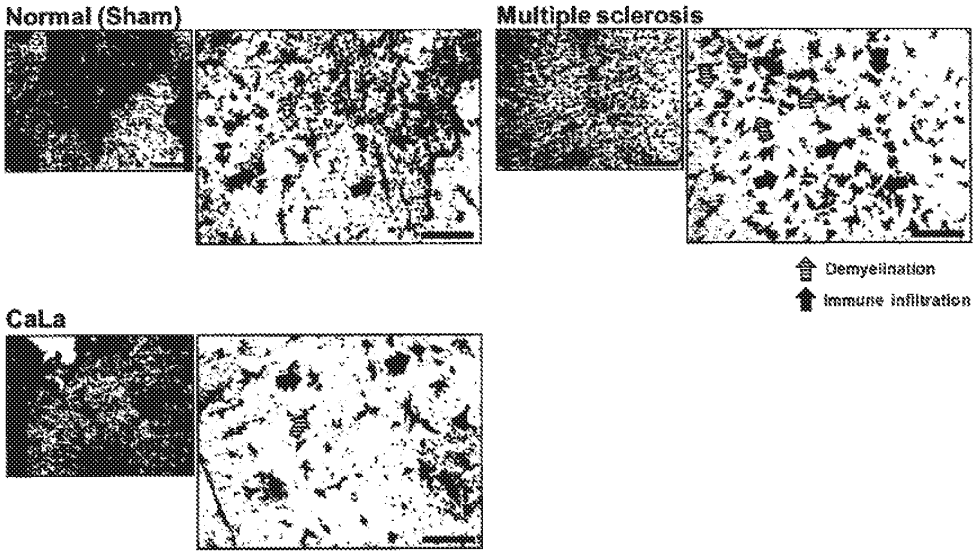

Normal (Sham)
Multiple sclerosis
Demyelination
Immune infiltration
CaLa

FIG. 36

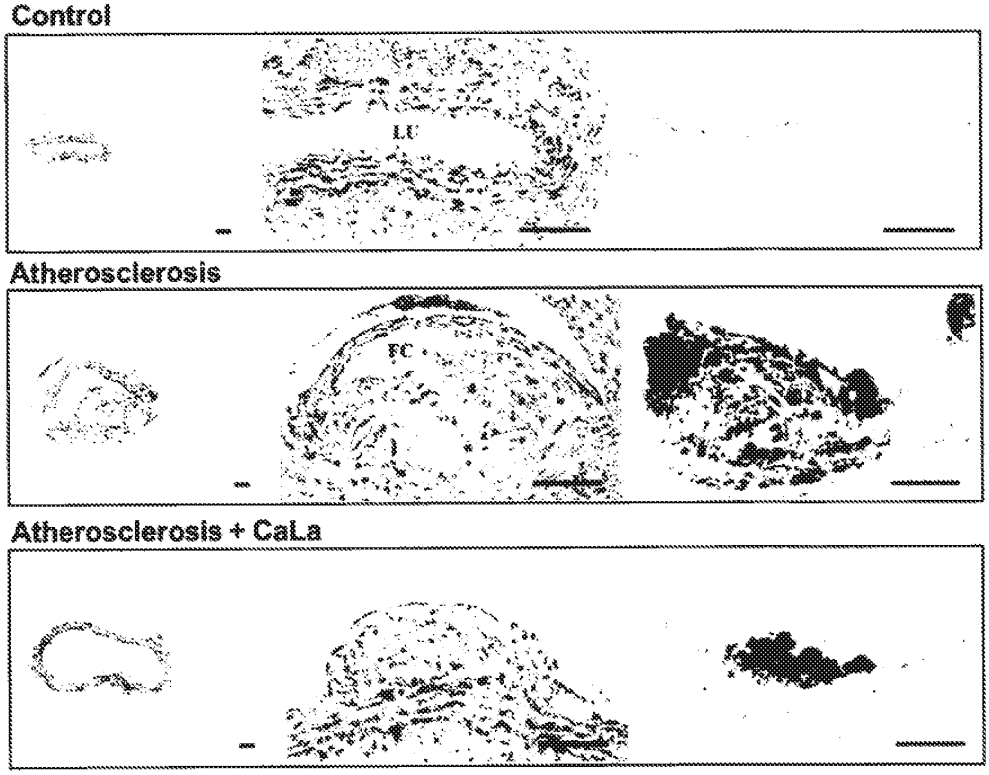


FIG. 37

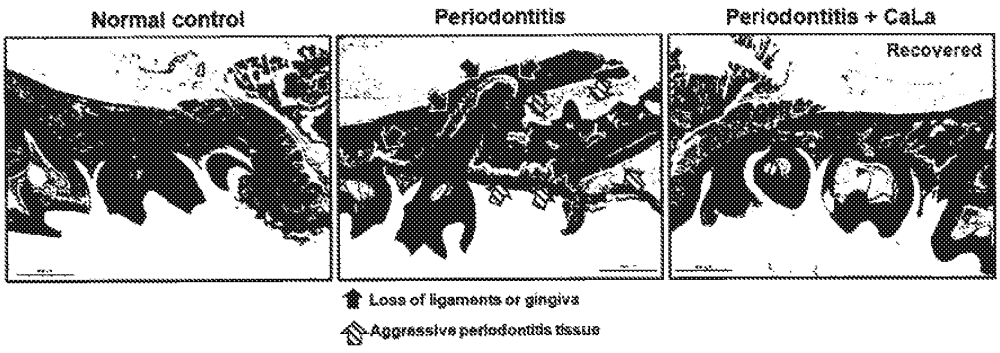

Normal control
Periodontitis
Periodontitis + CaLa
Recovered
Loss of ligaments or gingiva
Aggressive periodontitis tissue

FIG. 38

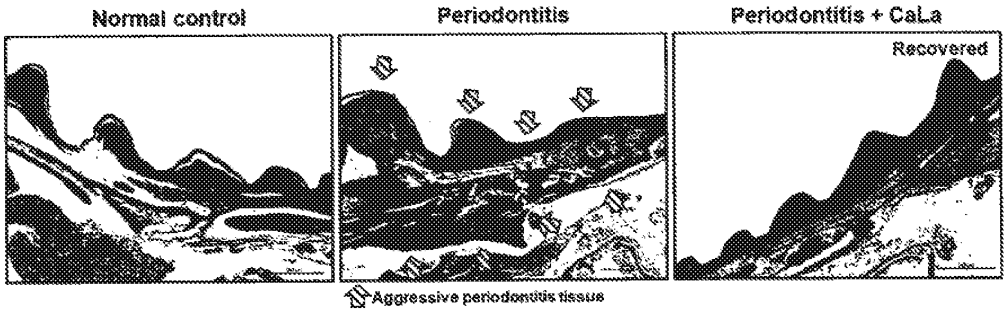

Normal control
Periodontitis
Periodontitis + CaLa
Recovered
Aggressive periodontitis tissue

FIG. 39

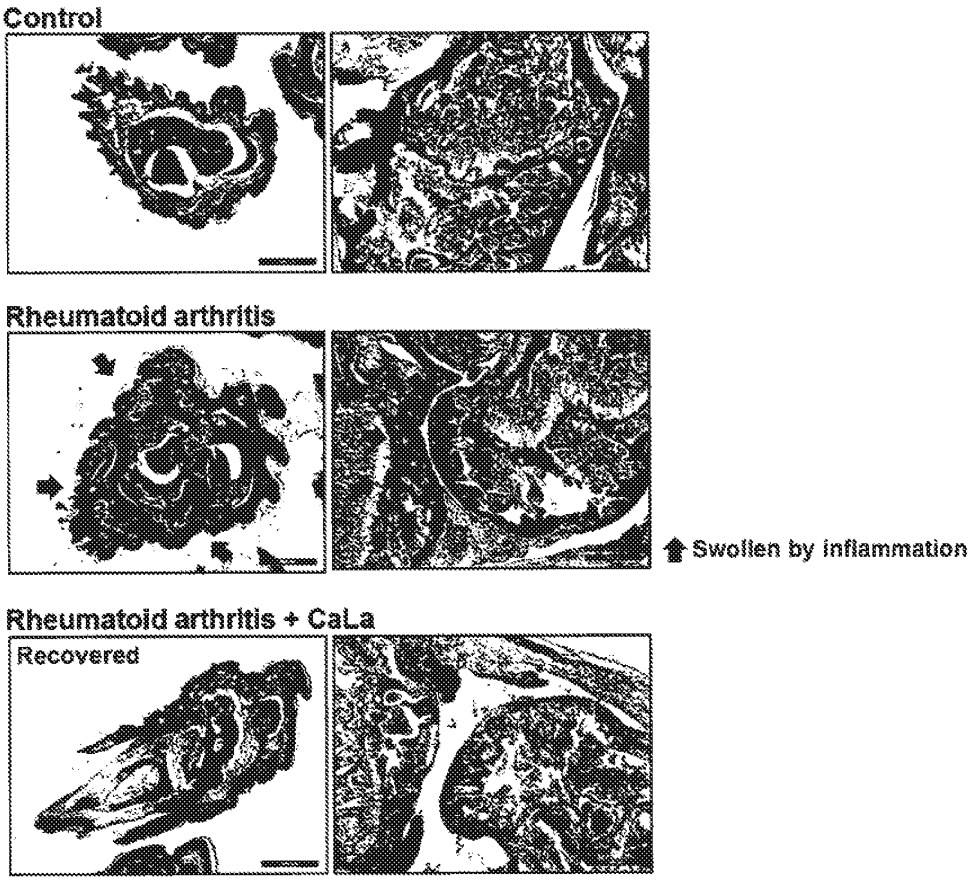

Control
Rheumatoid arthritis
Swollen by inflammation
Rheumatoid arthritis + CaLa
Recovered

FIG. 40

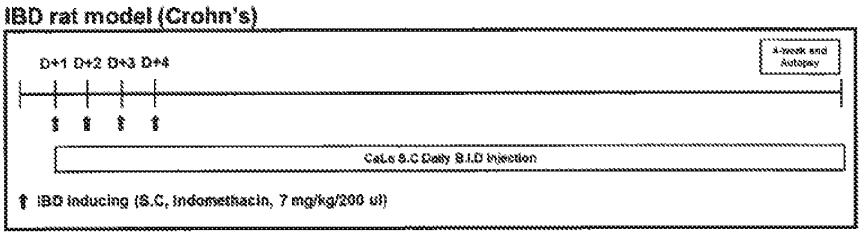

IBD rat model (Crohn's)
D+1 D+2 D+3 D+4
4-week and Autopsy
CaLs S.C Daily B.I.D injection
IBD inducing (S.C, indomethacin, 7 mg/kg/200 ul)

FIG. 41

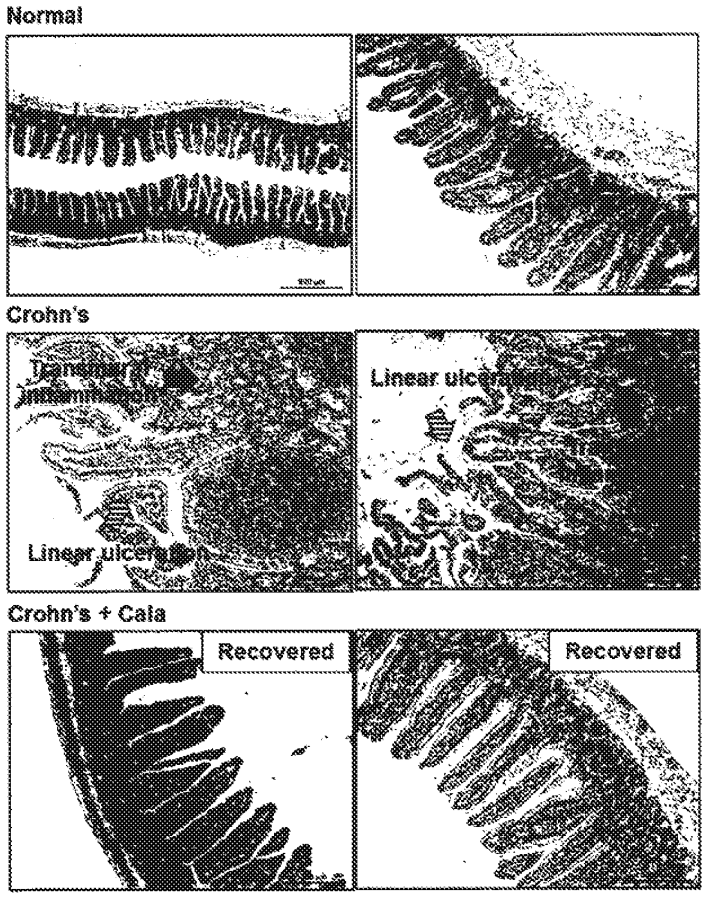

Normal
Crohn's
Linear ulceration
Crohn's + Cala
Recovered
Recovered

FIG. 42

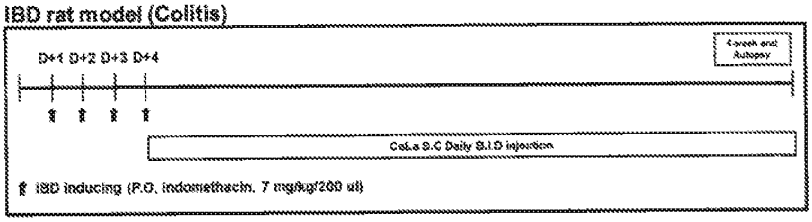
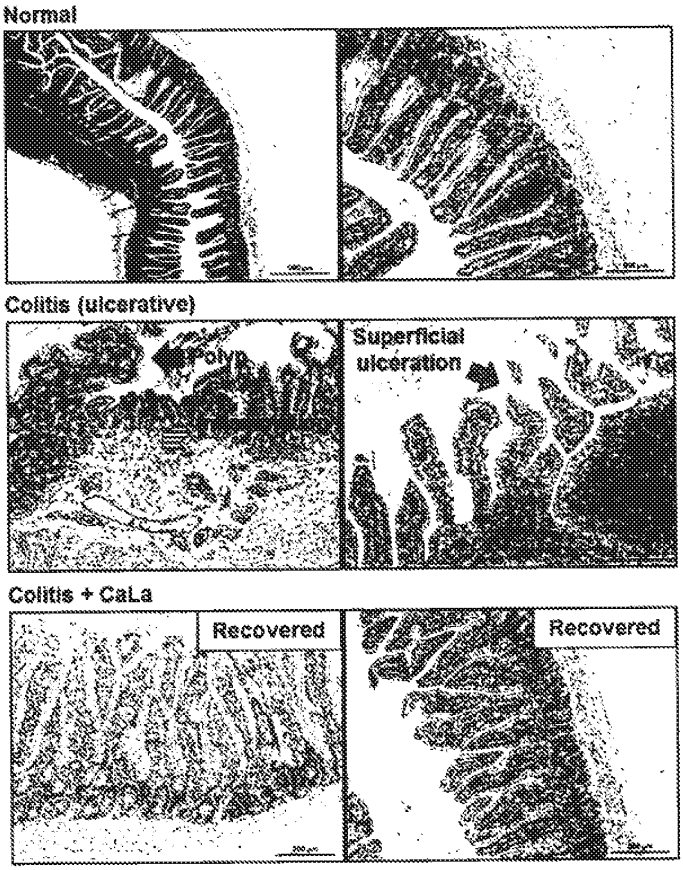

IBD rat model (Colitis)
D+1 D+2 D+3 D+4
1week and Autopsy
CaLa S.C Daily B.I.D injection
IBD inducing (P.O, indomethacin, 7 mg/kg/200 ul)

FIG. 43


Normal
Colitis (ulcerative)
Polyp
Superficial ulceration
Colitis + CaLa
Recovered
Recovered