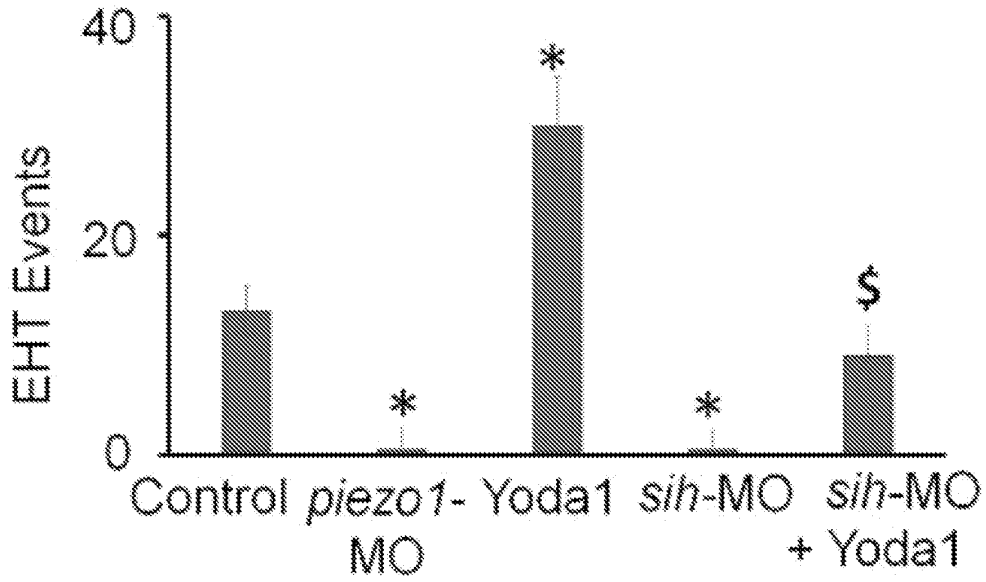
FIG. 1A



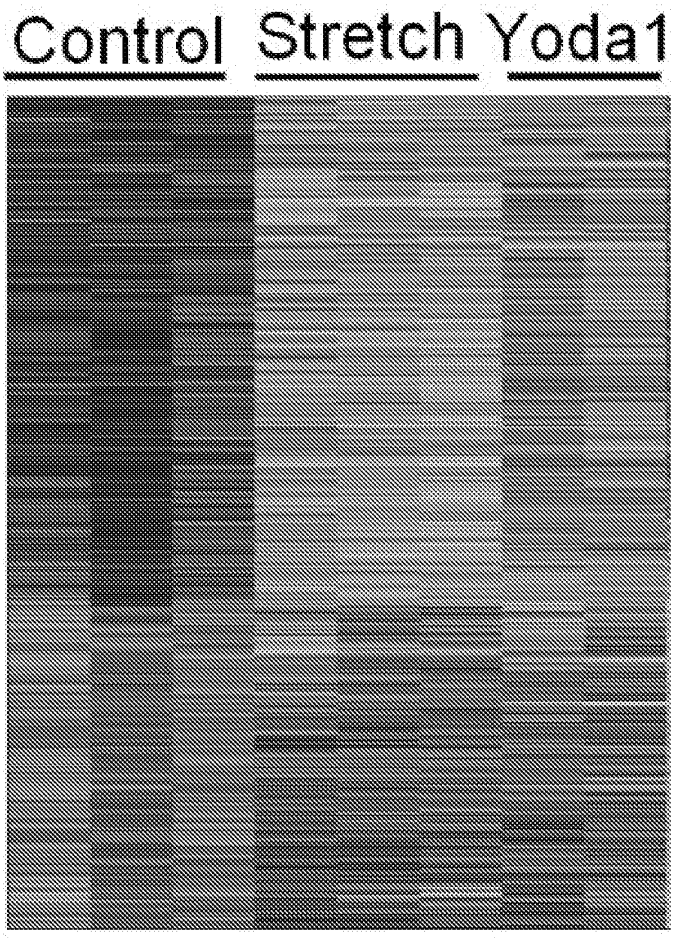


FIG. 1B

FIG. 1C

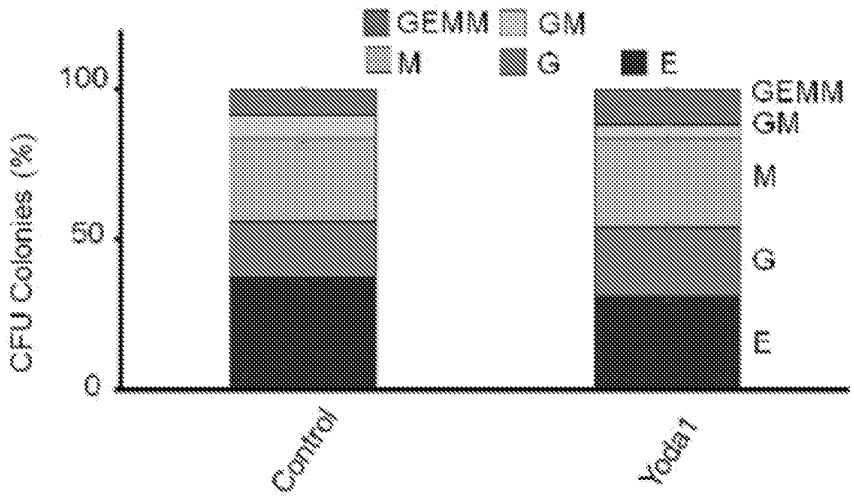


FIG. 1D

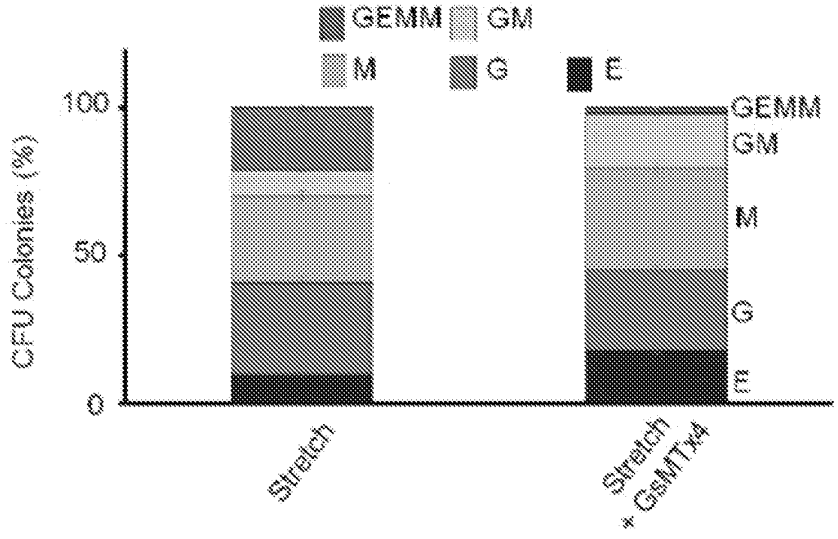
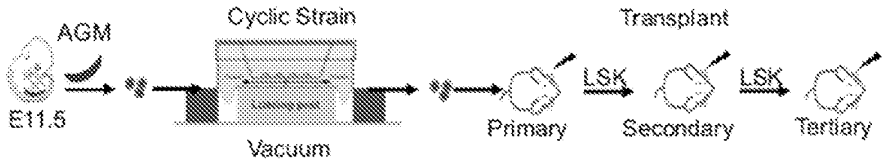

GEMM
GM
M
G
E
100
50
0
CFU Colonies (%)
GEMM
GM
M
G
E
Stretch
Stretch + GsMTx4

FIG. 2A


AGM
E11.5
Cyclic Strain
Vacuum
Transplant
Primary
LSK
Secondary
LSK
Tertiary

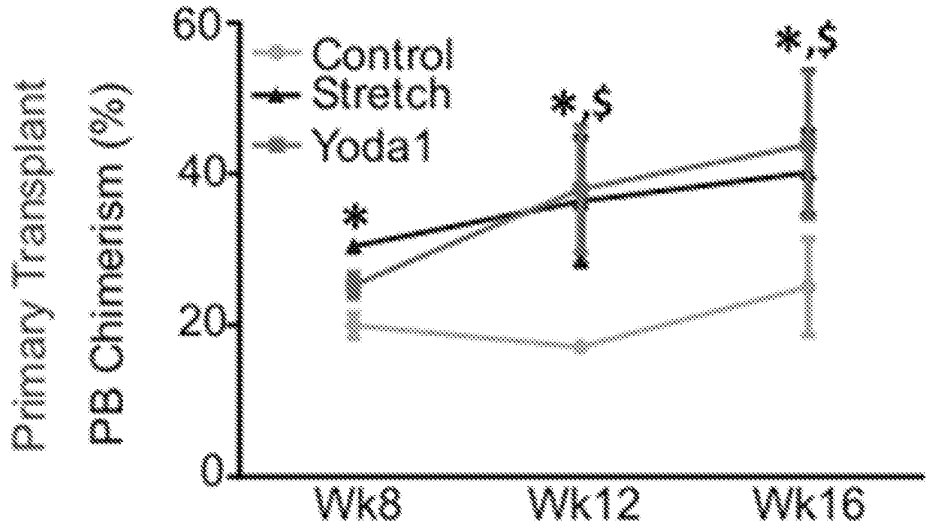

Primary Transplant
PB Chimerism (%)
60
40
20
0
Control
Stretch
Yoda1
*
*,$
*,$
Wk8
Wk12
Wk16

FIG. 2B

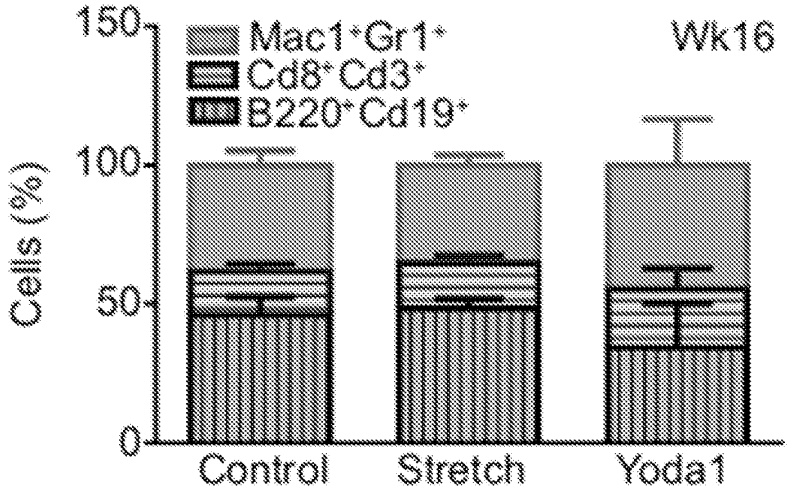

150
100
50
0
Cells (%)
Mac1+Gr1+
Cd8+Cd3+
B220+Cd19+
Wk16
Control
Stretch
Yoda1

FIG. 2C

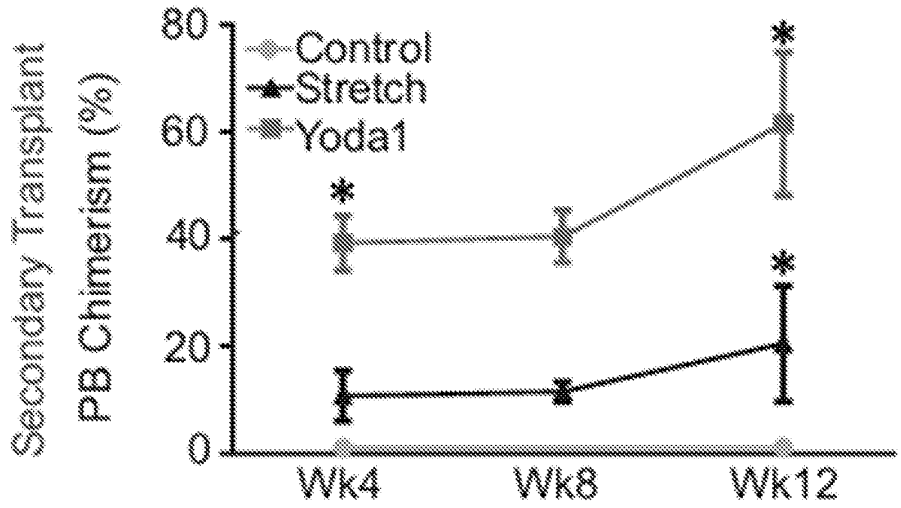

Secondary Transplant
PB Chimerism (%)
80
60
40
20
0
Control
Stretch
Yoda1
*
*
*
Wk4
Wk8
Wk12

FIG. 2D

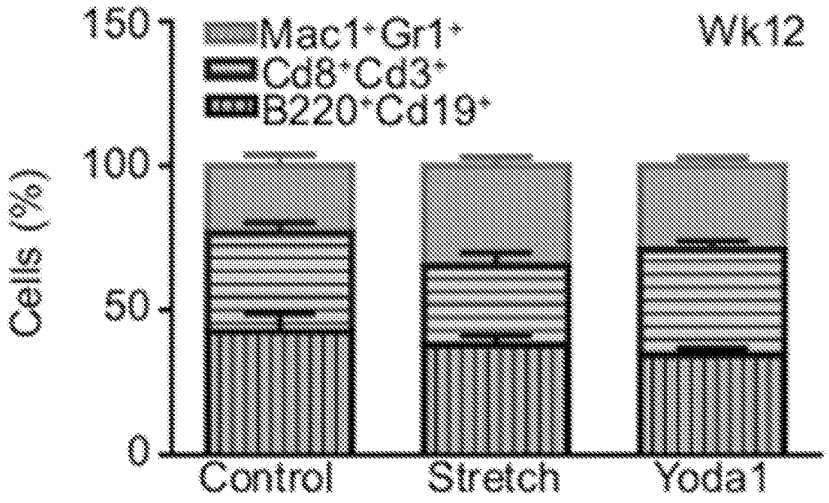
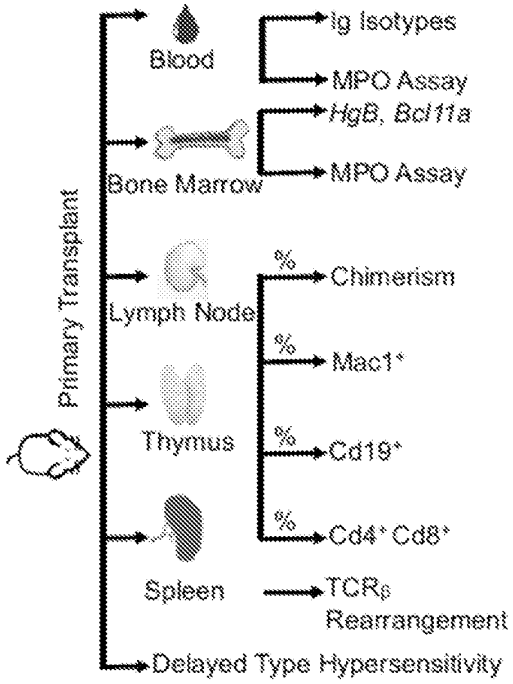

150
100
50
0
Cells (%)
Mac1+Gr1+
Cd8+Cd3+
B220+Cd19+
Wk12
Control
Stretch
Yoda1

FIG. 3A


Primary Transplant
Blood
Ig Isotypes
MPO Assay
Bone Marrow
HgB, Bcl11a
MPO Assay
Lymph Node
% Chimerism
Thymus
% Mac1+
% Cd19+
Spleen
% Cd4+ Cd8+
TCRδ Rearrangement
Delayed Type Hypersensitivity

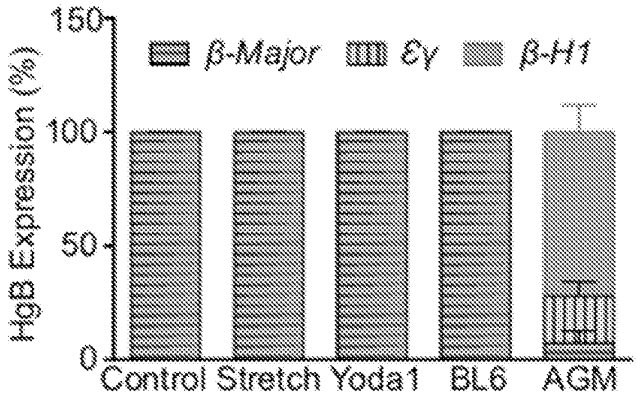

HgB Expression (%)
150
100
50
0
β-Major
εγ
β-H1
Control
Stretch
Yoda1
BL6
AGM

FIG. 3B

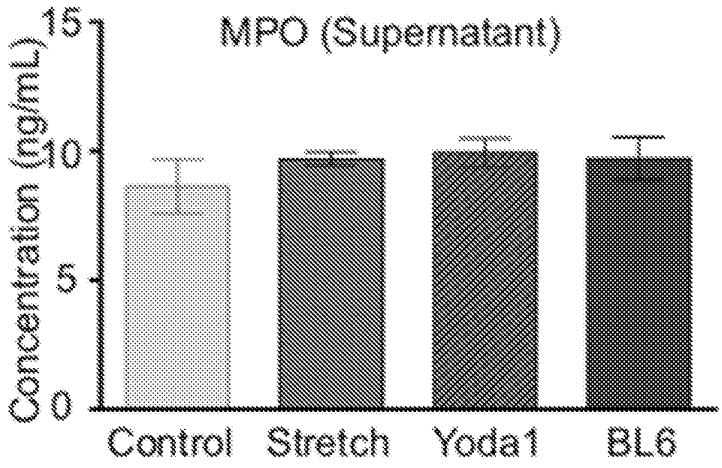

MPO (Supematant)
Concentration (ng/mL)
15
10
5
0
Control
Stretch
Yoda1
BL6

FIG. 3C

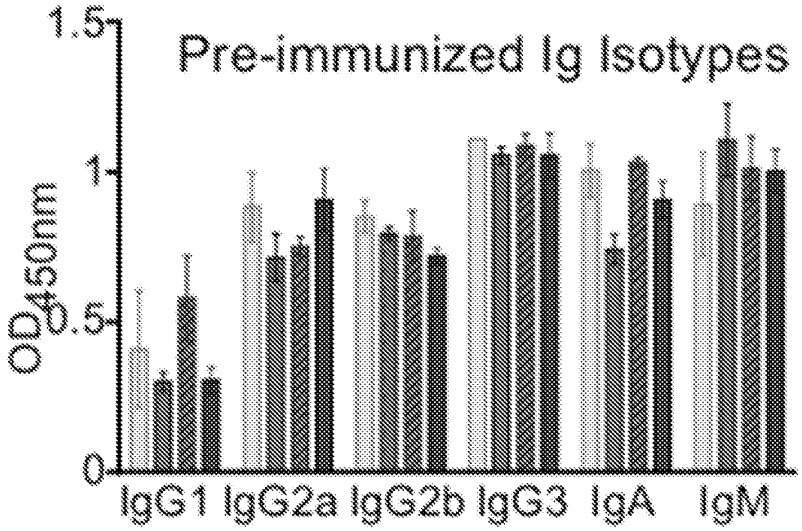

Pre-immunized Ig Isotypes
OD450nm
1.5
1
0.5
0
IgG1
IgG2a
IgG2b
IgG3
IgA
IgM

FIG. 3D

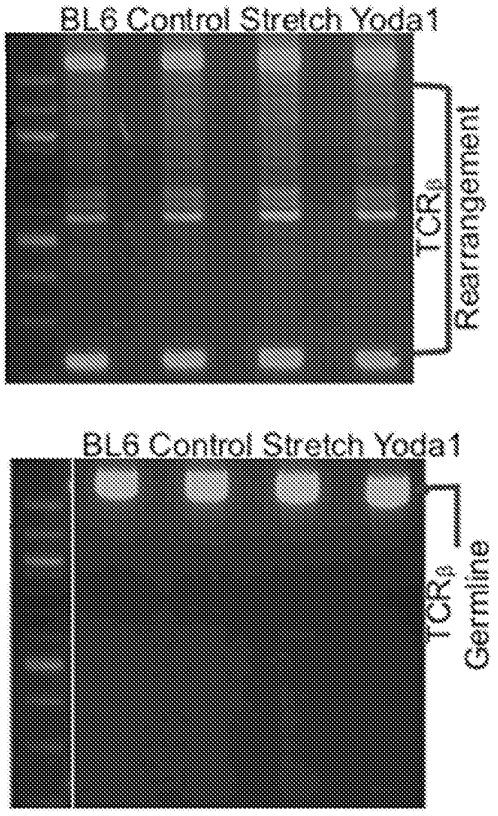

BL6 Control Stretch Yoda1
TCRβ
Rearrangement
BL6 Control Stretch Yoda1
TCRβ
Germline

FIG. 3E

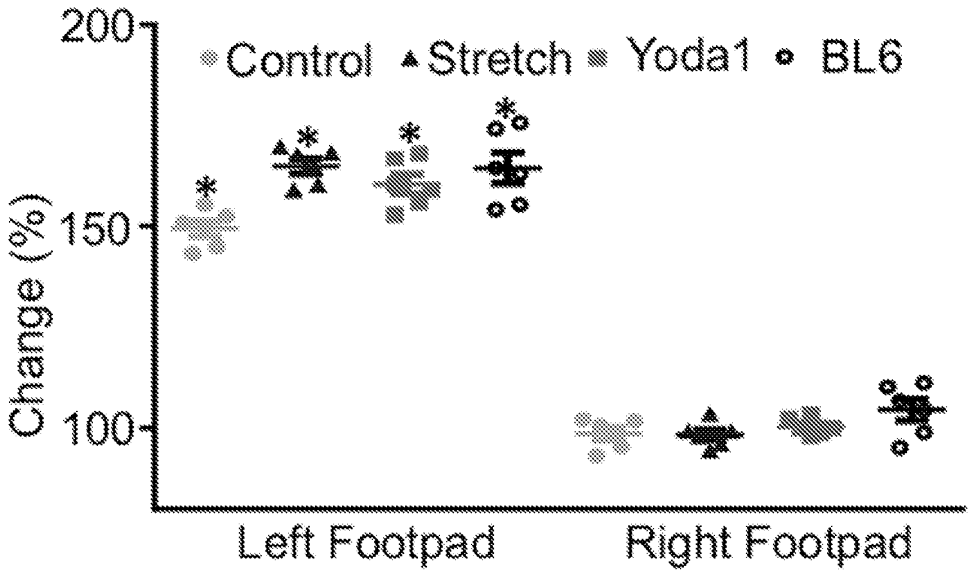
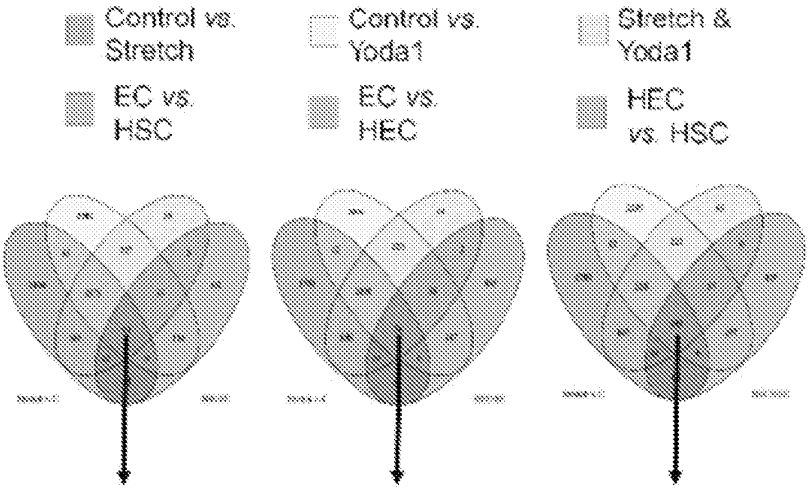

200
150
100
Change (%)
Control
Stretch
Yoda1
BL6
Left Footpad
Right Footpad

FIG. 4


Control vs. Stretch
Control vs. Yoda1
Stretch & Yoda1
EC vs. HSC
EC vs. HEC
HEC vs. HSC

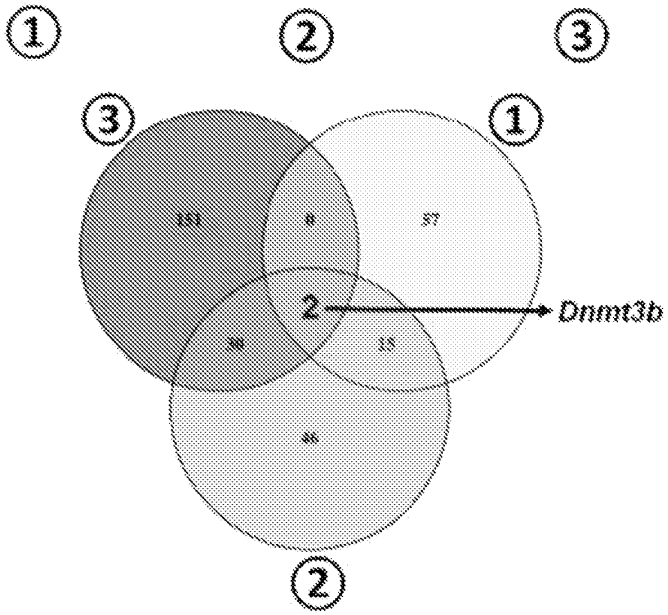

1
2
3
3
1
181
8
57
2
Dnmt3b
38
33
46
2

FIG. 5A

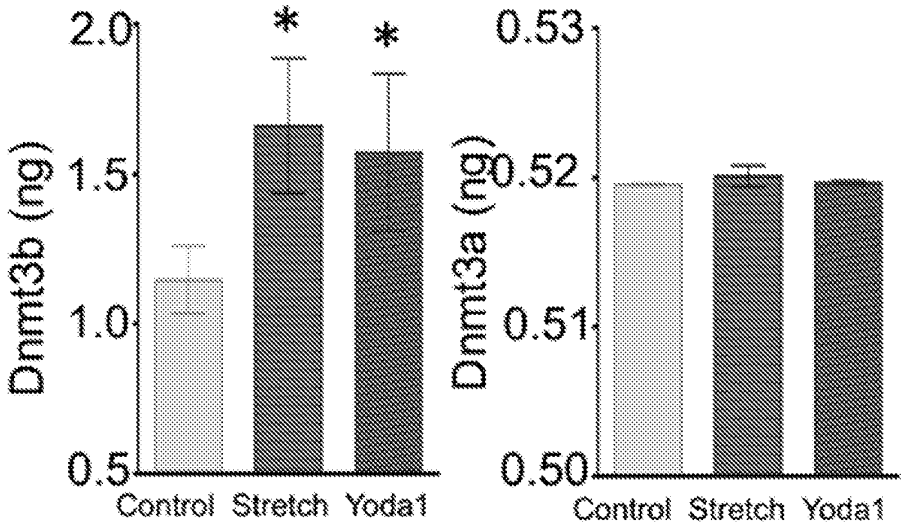

Dnmt3b (ng)
2.0
1.5
1.0
0.5
*
*
Control
Stretch
Yoda1
Dnmt3a (ng)
0.53
0.52
0.51
0.50
Control
Stretch
Yoda1

FIG. 5B

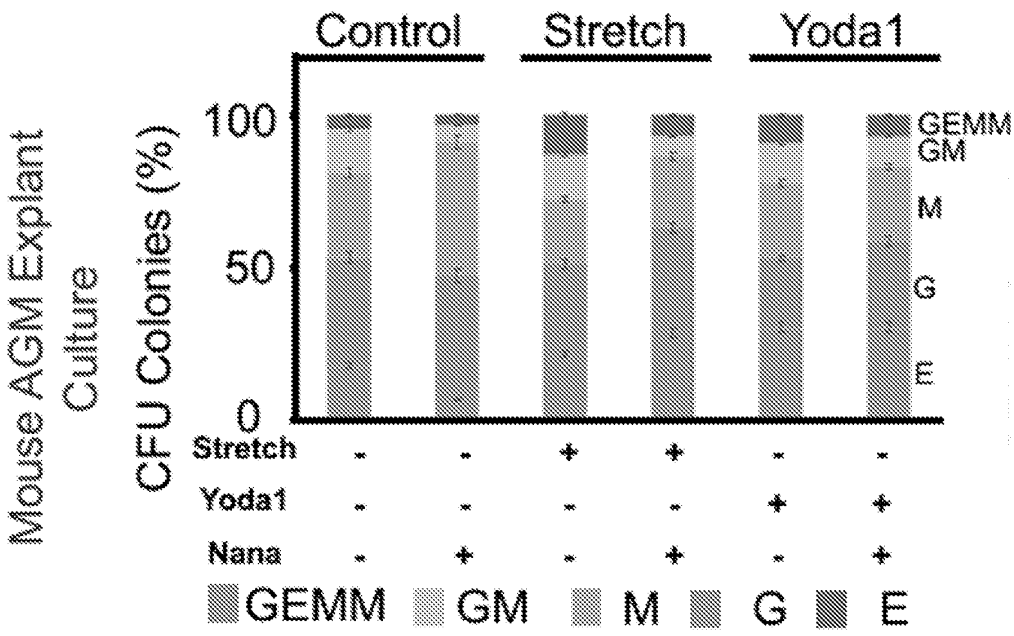

Mouse AGM Explant Culture
CFU Colonies (%)
100
50
0
Control
Stretch
Yoda1
GEMM
GM
M
G
E
Stretch - - + + - -
Yoda1 - - - - + +
Nana - + - + - +
GEMM GM M G E

FIG. 5C

